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Building knowledge

Job Order Contract Construction Task Catalog®

Book 1 of 2 CSI Divisions 01 - 26 October 2022

Monterey County
Roads and Bridges



GORDIAN®

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About the CTC:

- ☑ This Construction Task Catalog® (CTC) was developed and customized by The Gordian Group, Inc. specifically for **Monterey County**, priced locally using current labor, material and equipment costs, and published in October 2022.
- ☑ The Gordian Group, Inc. licenses the use of this CTC and other proprietary information and software for the sole purpose of providing Job Order Contracting services to **Monterey County**. Use of this CTC and other proprietary information and software for any other purpose, or for any other entity, is expressly prohibited without the express written consent of The Gordian Group, Inc.

MasterFormat™

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



The Unit Prices Include:

LABOR COSTS:

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

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EQUIPMENT COSTS:

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

MATERIAL COSTS:

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

The Adjustment Factors Include:

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

BUSINESS COSTS:

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

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

PROJECT RELATED COSTS:

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

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

PRICE VARIATIONS:

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

SUMMARY:

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

Unit Price X Quantity X Adjustment Factor

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

General Rules:

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

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

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

DEMOLITION:

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

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

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

WORKING HEIGHT:

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

FIELD ENGINEERING:

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

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

ASSEMBLIES:

- Assembly Tasks take precedence over individual component Tasks.

RESTRICTED AND CONFINED SPACES:

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

Or Equals:

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

Useful Information:

UNIT OF MEASURE DEFINITIONS:

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

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

MATERIAL WEIGHTS:

EARTHEN MATERIAL

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

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

BULK FACTORS FOR DEMOLITION:

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

CONVERSIONS:

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

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

STANDARD GEOMETRY:

Circle

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

Cylinder

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

Sphere

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

$\pi = 3.14159$

United Inch

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

TRADEMARKS

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



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

01 20 Price and Payment Procedures ⁽⁰¹⁾

01 22 Unit Prices ^(01 20)

01 22 16 Unit Price Payment ^(01 22)

01 22 16 00-0001		Negotiated Travel Costs ^(01 22 16)	
		Note: To be used only at the request of authorized personal for non-commuting travel costs.	
01 22 16 00-0002	EA	Negotiated Travel Costs	1.00
		Note: Supporting documentation must be included with each Work Order.	

01 22 16 00-0003		Reimbursable Fees ^(01 22 16)	
		Note: Reimbursable fees include but are not limited to permits, special inspections, special insurance, additional warranties, tolls, expedited shipping costs, etc, which are not included in a task or an Adjustment Factor as explained in the Contract or The Construction Task Catalog®.	
01 22 16 00-0004	EA	Reimbursable Fees.....	1.00
		Note: Reimbursable Fees will be paid to the contractor for eligible costs as directed by Owner. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee (e.g. sidewalk closure, road cut, various permits, extended warranty, expedited shipping costs, etc.). A copy of each receipt shall be submitted with the Price Proposal.	

01 22 20 Wage Rates ^(01 22)

01 22 20 00-0001		Local Labor/Wage Rates ^(01 22 20)	
		Note: Welders receive the rate prescribed for the craft performing the operation to which the welding is incidental.	
01 22 20 00-0002	HR	Asbestos Removal Worker	69.46
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	3.47
		For Apprentice, Deduct	-13.89
01 22 20 00-0003	HR	Brick Layer.....	100.81
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	5.04
		For Apprentice, Deduct	-20.16
01 22 20 00-0004	HR	Carpenter.....	109.77
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	5.49
		For Apprentice, Deduct	-21.95
01 22 20 00-0005	HR	Carpenter, Bridge Builder	124.26
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	6.21
		For Apprentice, Deduct	-24.85
01 22 20 00-0006	HR	Cement Mason	85.56
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	4.28
		For Apprentice, Deduct	-17.11
01 22 20 00-0007	HR	Electrician	107.61
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	5.38
		For Apprentice, Deduct	-21.52
01 22 20 00-0008	HR	Electrician, Cable Splicer.....	118.57
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	5.93
		For Apprentice, Deduct	-23.71
01 22 20 00-0009	HR	Electrical Groundman	118.57
		Note: For tasks not included in the Construction Task Catalog® and requested specifically by the owner for miscellaneous work not covered in the CTC.	
		For Foreperson, Add	5.93
		For Apprentice, Deduct	-23.71
01 22 20 00-0010	HR	High Voltage Electrician, (Utility Lineman).....	104.45
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	5.22
		For Apprentice, Deduct	-20.89
01 22 20 00-0011	HR	Communication And System Technician	99.79
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Apprentice, Deduct	-19.96
01 22 20 00-0012	HR	Equipment Operator, Crane (Group 1-A).....	111.27
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
01 22 20 00-0013	HR	Equipment Operator, Crane (Group 2-A).....	108.93
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	5.45
		For Apprentice, Deduct	-21.79
01 22 20 00-0014	HR	Equipment Operator, Crane (Group 3-A).....	106.66
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
01 22 20 00-0015	HR	Equipment Operator, Medium (Group 3)	106.15
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	5.31
		For Apprentice, Deduct	-21.23

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0016 HR Equipment Operator, Medium (Group 4).....	104.31	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0017 HR Equipment Operator, Medium (Group 5).....	102.64	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0018 HR Equipment Operator, Light (Group 6).....	100.88	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.04	
For Apprentice, Deduct	-20.18	
01 22 20 00-0019 HR Equipment Operator, Light (Group 7).....	99.38	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0020 HR Equipment Operator, Light (Group 8).....	97.88	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0021 HR Laborer	78.73	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0022 HR Landscape Maintenance Laborer.....	78.73	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0023 HR Millwright.....	105.83	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.29	
For Apprentice, Deduct	-21.17	
01 22 20 00-0024 HR Mold Removal Worker	82.62	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.13	
For Apprentice, Deduct	-16.52	
01 22 20 00-0025 HR Painter, Ordinary.....	93.65	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.68	
For Apprentice, Deduct	-18.73	
01 22 20 00-0026 HR Painter, Structural Steel	97.99	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.90	
For Apprentice, Deduct	-19.60	
01 22 20 00-0027 HR Pile Drivers	124.17	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	6.21	
For Apprentice, Deduct	-24.83	
01 22 20 00-0028 HR Plasterer	101.84	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.09	
For Apprentice, Deduct	-20.37	
01 22 20 00-0029 HR Plumber	109.88	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.49	
For Apprentice, Deduct	-21.98	
01 22 20 00-0030 HR Powderman.....	82.78	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.14	
For Apprentice, Deduct	-16.56	
01 22 20 00-0031 HR Rodman (Reinforcing)/Ornamental Steel Worker.....	98.26	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.91	
For Apprentice, Deduct	-19.65	
01 22 20 00-0032 HR Sheet Metal Worker	115.48	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.77	
For Apprentice, Deduct	-23.10	
01 22 20 00-0033 HR Stone Mason.....	100.81	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.04	
For Apprentice, Deduct	-20.16	
01 22 20 00-0034 HR Iron Worker (Structural)	100.47	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.02	
For Apprentice, Deduct	-20.09	
01 22 20 00-0035 HR Tile Layer	93.29	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.66	
For Apprentice, Deduct	-18.66	
01 22 20 00-0036 HR Terrazzo Worker	101.18	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.06	
For Apprentice, Deduct	-20.24	
01 22 20 00-0037 HR Truck Driver, Light (Group 1)	83.85	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.19	
For Apprentice, Deduct	-16.77	
01 22 20 00-0038 HR Truck Driver, Medium (Group 2)	84.28	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0039 HR Truck Driver, Heavy (Group 3).....	84.71	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.24	
For Apprentice, Deduct	-16.94	
01 22 20 00-0040 HR Truck Driver, Heavy (Group 4)	85.21	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0041 HR D1 Certified Welder.....	112.21	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		



General Requirements			01
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0042 Rates For Services <small>(01 22 20)</small>		
01 22 20 00-0043 HR Watch/Guard Person, Unarmed.....	31.43	
01 22 20 00-0044 HR Watch/Guard Person, Armed.....	39.32	
01 22 20 00-0045 HR Senior Surveyor (Party Chief).....	113.31	
01 22 20 00-0046 HR Surveyor (Instrument person).....	107.81	
01 22 20 00-0047 HR Surveyor (Rod Person).....	103.40	
01 22 20 00-0048 HR On-Site Certified Materials Testing Technician.....	89.18	
01 22 20 00-0049 HR Certified Industrial Hygienist.....	120.38	
01 22 20 00-0050 MI Mileage For Professional Services (Engineering, Surveying, Etcetera).....	0.56	
Note: For use only when the Owner directs the contractor to use personnel whose base of operations is more than 100 miles from the site. Quantity shall be miles that exceed 100.		
01 22 20 00-0051 EA Security Badge, Processing Fee.....	83.58	
01 22 20 00-0052 HR Biologist.....	132.00	
01 22 20 00-0053 HR Ecologist.....	145.00	
01 22 20 00-0054 HR Fire Watch Laborer.....	78.73	
Note: Fire watchers shall be required whenever welding or cutting is performed in locations where other than a minor fire might develop, or any of the following conditions exist: (1) Appreciable combustible material, in building construction or contents, closer than 35 feet (10.7 m) to the point of operation. (2) Appreciable combustibles are more than 35 feet (10.7 m) away but are easily ignited by sparks. (3) Wall or floor openings within a 35-foot (10.7 m) radius expose combustible material in adjacent areas including concealed spaces in walls or floors. (4) Combustible materials are adjacent to the opposite side of metal partitions, walls, ceilings, or roofs and are likely to be ignited by conduction or radiation.		
01 22 20 00-0055 Rates For Project Management Services <small>(01 22 20)</small>		
01 22 20 00-0056 HR Project Manager.....	151.80	
01 22 20 00-0057 Rates For Architectural And Engineering Services <small>(01 22 20)</small>		
Note: For preparation of contract documents, structural and/or design drawings, special investigating requirements or services outside required architectural and engineering services.		
01 22 20 00-0058 HR Principal Architect.....	212.52	
01 22 20 00-0059 HR Senior Architect.....	187.22	
01 22 20 00-0060 HR Architect.....	142.94	
01 22 20 00-0061 HR Principal Engineer.....	212.52	
01 22 20 00-0062 HR Senior Engineer.....	161.92	
01 22 20 00-0063 HR Engineer.....	129.03	
01 22 20 00-0064 HR Draft Person.....	76.53	
01 22 20 00-0065 Rates For Traffic Control <small>(01 22 20)</small>		
01 22 20 00-0066 HR Flagperson For Traffic Control.....	78.73	
01 22 20 00-0067 DAY Pilot Vehicle With Driver.....	1,011.13	
Note: Includes radio, "Follow Me" sign, "Wait For Pilot Car" signs on barricades where required.		
01 22 20 00-0068 HR California Highway Patrol Officer With Car.....	50.70	
<i>For Each Mile, Add</i>		
	0.56	
01 22 20 00-0069 HR California Highway Patrol Officer With Motorcycle.....	51.22	
<i>For Each Mile, Add</i>		
	0.56	
01 22 20 00-0070 HR California Highway Patrol Sergeant Officer With Car.....	62.13	
<i>For Each Mile, Add</i>		
	0.56	
01 22 20 00-0071 HR California Highway Patrol Sergeant Officer With Motorcycle.....	62.28	
<i>For Each Mile, Add</i>		
	0.56	
01 22 20 00-0072 Mobilize Equipment <small>(01 22 20)</small>		
01 22 20 00-0073 HR Escort Vehicle With Driver.....	91.81	
01 22 20 00-0074 HR Transport Vehicle With Driver.....	135.27	
01 22 23 Equipment Usage <small>(01 22)</small>		
Note: Includes fuel costs unless otherwise stated. These tasks shall be used for owned, leased or rented equipment. See CSI section 01 22 20 00-0065 for traffic control (where required), 01 71 13 00-0000 for equipment delivery, pickup, mobilization and demobilization.		
01 22 23 00-0001 Aerial Equipment <small>(01 22 23)</small>		
01 22 23 00-0002 Man Lifts <small>(01 22 23 00-0001)</small>		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0003 Telescoping Boom Man Lifts With Platform <small>(01 22 23 00-0002)</small>		
01 22 23 00-0004 Engine Powered, Telescoping Boom Man Lifts With Platform <small>(01 22 23 00-0003)</small>		
Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0005 DAY 40' Engine Powered, Telescoping Boom Man Lift With Platform.....	456.16	
<i>For Four-Wheel Drive, Add</i>		
	102.64	
01 22 23 00-0006 WK 40' Engine Powered, Telescoping Boom Man Lift With Platform.....	1,147.77	
<i>For Four-Wheel Drive, Add</i>		
	258.25	
01 22 23 00-0007 MO 40' Engine Powered, Telescoping Boom Man Lift With Platform.....	2,575.12	
<i>For Four-Wheel Drive, Add</i>		
	579.40	
01 22 23 00-0008 DAY 60' Engine Powered, Telescoping Boom Man Lift With Platform.....	669.53	
<i>For Four-Wheel Drive, Add</i>		
	150.64	

01	General Requirements
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0009 WK 60' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	1,596.58 359.23	
01 22 23 00-0010 MO 60' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	3,494.81 786.33	
01 22 23 00-0011 DAY 80' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	1,302.28 293.01	
01 22 23 00-0012 WK 80' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	3,156.37 710.18	
01 22 23 00-0013 MO 80' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	6,621.75 1,489.89	
01 22 23 00-0014 DAY 110' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	1,854.09 417.17	
01 22 23 00-0015 WK 110' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	4,464.53 1,004.52	
01 22 23 00-0016 MO 110' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	11,124.54 2,503.02	
01 22 23 00-0017 DAY 120' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	2,258.75 508.22	
01 22 23 00-0018 WK 120' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	5,760.92 1,296.21	
01 22 23 00-0019 MO 120' Engine Powered, Telescoping Boom Man Lift With Platform <i>For Four-Wheel Drive, Add</i>	13,096.35 2,946.68	
01 22 23 00-0020 Articulating (Up/Over) Boom Man Lifts With Platform <small>(01 22 23 00-0002)</small>		
01 22 23 00-0021 Engine Powered, Articulating (Up/Over) Boom Man Lifts With Platform <small>(01 22 23 00-0020)</small> Note: Diesel or dual fuel (gasoline or liquid propane gas). Four-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0022 DAY 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	395.42	
01 22 23 00-0023 WK 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	992.15	
01 22 23 00-0024 MO 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,386.91	
01 22 23 00-0025 DAY 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	503.26	
01 22 23 00-0026 WK 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,099.99	
01 22 23 00-0027 MO 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,730.57	
01 22 23 00-0028 DAY 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	647.06	
01 22 23 00-0029 WK 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,495.42	
01 22 23 00-0030 MO 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	3,343.12	
01 22 23 00-0031 DAY 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,128.75	
01 22 23 00-0032 WK 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,660.12	
01 22 23 00-0033 MO 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	6,469.11	
01 22 23 00-0034 DAY 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,192.80	
01 22 23 00-0035 WK 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	5,176.44	
01 22 23 00-0036 MO 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	12,653.52	
01 22 23 00-0037 Electric, Articulating (Up/Over) Boom Man Lifts With Platform <small>(01 22 23 00-0020)</small> Note: For use on paved surfaces.		
01 22 23 00-0038 DAY 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	395.42	
01 22 23 00-0039 WK 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	992.15	
01 22 23 00-0040 MO 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,386.91	
01 22 23 00-0041 DAY 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	395.42	
01 22 23 00-0042 WK 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	992.15	
01 22 23 00-0043 MO 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,386.91	
01 22 23 00-0044 DAY 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	488.89	
01 22 23 00-0045 WK 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,056.86	
01 22 23 00-0046 MO 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,624.17	
01 22 23 00-0047 DAY 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	488.89	
01 22 23 00-0048 WK 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,056.86	
01 22 23 00-0049 MO 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,624.17	
01 22 23 00-0050 Platform Lifts <small>(01 22 23 00-0001)</small> Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0051 Electric, Scissor Platform Lifts <small>(01 22 23 00-0050)</small> Note: For use on paved surfaces.		
01 22 23 00-0052 DAY 17' Electric, Scissor Platform Lift	161.56	
01 22 23 00-0053 WK 17' Electric, Scissor Platform Lift	323.11	
01 22 23 00-0054 MO 17' Electric, Scissor Platform Lift	660.92	
01 22 23 00-0055 DAY 20' Electric, Scissor Platform Lift	176.24	
01 22 23 00-0056 WK 20' Electric, Scissor Platform Lift	352.49	
01 22 23 00-0057 MO 20' Electric, Scissor Platform Lift	704.98	
01 22 23 00-0058 DAY 25' Electric, Scissor Platform Lift	227.65	
01 22 23 00-0059 WK 25' Electric, Scissor Platform Lift	455.30	
01 22 23 00-0060 MO 25' Electric, Scissor Platform Lift	976.69	
01 22 23 00-0061 DAY 30' Electric, Scissor Platform Lift	293.74	
01 22 23 00-0062 WK 30' Electric, Scissor Platform Lift	580.14	
01 22 23 00-0063 MO 30' Electric, Scissor Platform Lift	1,285.11	
01 22 23 00-0064 DAY 33' Electric, Scissor Platform Lift	315.77	
01 22 23 00-0065 WK 33' Electric, Scissor Platform Lift	616.85	
01 22 23 00-0066 MO 33' Electric, Scissor Platform Lift	1,395.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0067 DAY 40' Electric, Scissor Platform Lift.....	411.24	
01 22 23 00-0068 WK 40' Electric, Scissor Platform Lift.....	1,020.75	
01 22 23 00-0069 MO 40' Electric, Scissor Platform Lift.....	2,841.93	
01 22 23 00-0070 Engine Powered, Scissor Platform Lifts (01 22 23 00-0050)		
Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0071 DAY 25' Engine Powered, Scissor Platform Lift.....	406.71	
For Four-Wheel Drive, Add	81.34	
01 22 23 00-0072 WK 25' Engine Powered, Scissor Platform Lift.....	795.34	
For Four-Wheel Drive, Add	159.07	
01 22 23 00-0073 MO 25' Engine Powered, Scissor Platform Lift.....	1,943.17	
For Four-Wheel Drive, Add	388.63	
01 22 23 00-0074 DAY 33' Engine Powered, Scissor Platform Lift.....	415.75	
For Four-Wheel Drive, Add	83.15	
01 22 23 00-0075 WK 33' Engine Powered, Scissor Platform Lift.....	948.99	
For Four-Wheel Drive, Add	189.80	
01 22 23 00-0076 MO 33' Engine Powered, Scissor Platform Lift.....	2,078.74	
For Four-Wheel Drive, Add	415.75	
01 22 23 00-0077 DAY 40' Engine Powered, Scissor Platform Lift.....	460.94	
For Four-Wheel Drive, Add	92.19	
01 22 23 00-0078 WK 40' Engine Powered, Scissor Platform Lift.....	1,057.45	
For Four-Wheel Drive, Add	211.49	
01 22 23 00-0079 MO 40' Engine Powered, Scissor Platform Lift.....	2,349.88	
For Four-Wheel Drive, Add	469.98	
01 22 23 00-0080 DAY 43' Engine Powered, Scissor Platform Lift.....	488.05	
For Four-Wheel Drive, Add	97.61	
01 22 23 00-0081 WK 43' Engine Powered, Scissor Platform Lift.....	1,138.79	
For Four-Wheel Drive, Add	227.76	
01 22 23 00-0082 MO 43' Engine Powered, Scissor Platform Lift.....	2,801.78	
For Four-Wheel Drive, Add	560.36	
01 22 23 00-0083 DAY 50' Engine Powered, Scissor Platform Lift.....	912.84	
For Four-Wheel Drive, Add	182.57	
01 22 23 00-0084 WK 50' Engine Powered, Scissor Platform Lift.....	2,006.44	
For Four-Wheel Drive, Add	401.29	
01 22 23 00-0085 MO 50' Engine Powered, Scissor Platform Lift.....	4,934.75	
For Four-Wheel Drive, Add	986.95	
01 22 23 00-0086 Personnel Lifts (01 22 23 00-0001)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator. For use on paved surfaces.		
01 22 23 00-0087 DAY 24', Push-Type, Electric Single Man Personnel Lift.....	153.69	
01 22 23 00-0088 WK 24', Push-Type, Electric Single Man Personnel Lift.....	435.46	
01 22 23 00-0089 MO 24', Push-Type, Electric Single Man Personnel Lift.....	879.47	
01 22 23 00-0090 DAY 30', Push-Type, Electric Single Man Personnel Lift.....	213.46	
01 22 23 00-0091 WK 30', Push-Type, Electric Single Man Personnel Lift.....	452.54	
01 22 23 00-0092 MO 30', Push-Type, Electric Single Man Personnel Lift.....	1,536.93	
01 22 23 00-0093 DAY 36', Push-Type, Electric Single Man Personnel Lift.....	358.62	
01 22 23 00-0094 WK 36', Push-Type, Electric Single Man Personnel Lift.....	870.93	
01 22 23 00-0095 MO 36', Push-Type, Electric Single Man Personnel Lift.....	2,544.47	
01 22 23 00-0096 DAY 40', Push-Type, Electric Single Man Personnel Lift.....	384.23	
01 22 23 00-0097 WK 40', Push-Type, Electric Single Man Personnel Lift.....	956.31	
01 22 23 00-0098 MO 40', Push-Type, Electric Single Man Personnel Lift.....	2,877.47	
01 22 23 00-0099 DAY 15', Self-Propelled, Electric Single Man Personnel Lift.....	204.92	
01 22 23 00-0100 WK 15', Self-Propelled, Electric Single Man Personnel Lift.....	409.85	
01 22 23 00-0101 MO 15', Self-Propelled, Electric Single Man Personnel Lift.....	819.70	
01 22 23 00-0102 DAY 20', Self-Propelled, Electric Single Man Personnel Lift.....	204.92	
01 22 23 00-0103 WK 20', Self-Propelled, Electric Single Man Personnel Lift.....	409.85	
01 22 23 00-0104 MO 20', Self-Propelled, Electric Single Man Personnel Lift.....	852.14	
01 22 23 00-0105 Bucket Trucks (01 22 23 00-0001)		
Note: Includes full-time operator, delivery, and removal.		
01 22 23 00-0106 DAY 29' Bucket Truck With Full-Time Operator.....	1,206.12	
For Equipment Without Operator, Deduct	-677.68	
01 22 23 00-0107 WK 29' Bucket Truck With Full-Time Operator.....	4,973.73	
For Equipment Without Operator, Deduct	-3,388.41	
01 22 23 00-0108 MO 29' Bucket Truck With Full-Time Operator.....	18,718.48	
For Equipment Without Operator, Deduct	-14,683.12	
01 22 23 00-0109 DAY 38' Bucket Truck With Full-Time Operator.....	1,273.38	
For Equipment Without Operator, Deduct	-677.68	
01 22 23 00-0110 WK 38' Bucket Truck With Full-Time Operator.....	5,189.91	
For Equipment Without Operator, Deduct	-3,388.41	
01 22 23 00-0111 MO 38' Bucket Truck With Full-Time Operator.....	19,294.96	
For Equipment Without Operator, Deduct	-14,683.12	
01 22 23 00-0112 DAY 48' Bucket Truck With Full-Time Operator.....	1,446.32	
For Equipment Without Operator, Deduct	-677.68	
01 22 23 00-0113 WK 48' Bucket Truck With Full-Time Operator.....	5,502.17	
For Equipment Without Operator, Deduct	-3,388.41	
01 22 23 00-0114 MO 48' Bucket Truck With Full-Time Operator.....	19,967.52	
For Equipment Without Operator, Deduct	-14,683.12	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0115 DAY 62' Bucket Truck With Full-Time Operator	1,830.64	
For Equipment Without Operator, Deduct	-677.68	
01 22 23 00-0116 WK 62' Bucket Truck With Full-Time Operator	6,751.21	
For Equipment Without Operator, Deduct	-3,388.41	
01 22 23 00-0117 MO 62' Bucket Truck With Full-Time Operator	23,330.32	
For Equipment Without Operator, Deduct	-14,683.12	
01 22 23 00-0118 DAY 85' Bucket Truck With Full-Time Operator	2,022.80	
For Equipment Without Operator, Deduct	-677.68	
01 22 23 00-0119 WK 85' Bucket Truck With Full-Time Operator	7,423.77	
For Equipment Without Operator, Deduct	-3,388.41	
01 22 23 00-0120 MO 85' Bucket Truck With Full-Time Operator	25,732.32	
For Equipment Without Operator, Deduct	-14,683.12	
01 22 23 00-0121 Day 105' Bucket Truck With Full-Time Operator	2,118.88	
For Equipment Without Operator, Deduct	-677.68	
01 22 23 00-0122 WK 105' Bucket Truck With Full-Time Operator	7,712.01	
For Equipment Without Operator, Deduct	-3,388.41	
01 22 23 00-0123 MO 105' Bucket Truck With Full-Time Operator	25,962.91	
For Equipment Without Operator, Deduct	-14,683.12	
01 22 23 00-0124 Air Equipment (01 22 23)		
01 22 23 00-0125 Air Compressors (01 22 23 00-0124)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0126 DAY 100 CFM Diesel Powered Portable Air Compressor	167.64	
01 22 23 00-0127 WK 100 CFM Diesel Powered Portable Air Compressor	502.92	
01 22 23 00-0128 MO 100 CFM Diesel Powered Portable Air Compressor	1,397.00	
01 22 23 00-0129 DAY 130 CFM Diesel Powered Portable Air Compressor	201.17	
01 22 23 00-0130 WK 130 CFM Diesel Powered Portable Air Compressor	592.33	
01 22 23 00-0131 MO 130 CFM Diesel Powered Portable Air Compressor	1,676.40	
01 22 23 00-0132 DAY 185 CFM Diesel Powered Portable Air Compressor	268.22	
01 22 23 00-0133 WK 185 CFM Diesel Powered Portable Air Compressor	603.50	
01 22 23 00-0134 MO 185 CFM Diesel Powered Portable Air Compressor	1,329.94	
01 22 23 00-0135 DAY 375 CFM Diesel Powered Portable Air Compressor	379.98	
01 22 23 00-0136 WK 375 CFM Diesel Powered Portable Air Compressor	961.14	
01 22 23 00-0137 MO 375 CFM Diesel Powered Portable Air Compressor	2,291.08	
01 22 23 00-0138 DAY 600 CFM Diesel Powered Portable Air Compressor	844.91	
01 22 23 00-0139 WK 600 CFM Diesel Powered Portable Air Compressor	2,034.03	
01 22 23 00-0140 MO 600 CFM Diesel Powered Portable Air Compressor	5,069.43	
01 22 23 00-0141 DAY 750 CFM Diesel Powered Portable Air Compressor	1,017.02	
01 22 23 00-0142 WK 750 CFM Diesel Powered Portable Air Compressor	2,503.42	
01 22 23 00-0143 MO 750 CFM Diesel Powered Portable Air Compressor	6,146.80	
01 22 23 00-0144 DAY 825 CFM Diesel Powered Portable Air Compressor	1,017.02	
01 22 23 00-0145 WK 825 CFM Diesel Powered Portable Air Compressor	2,503.42	
01 22 23 00-0146 MO 825 CFM Diesel Powered Portable Air Compressor	6,146.80	
01 22 23 00-0147 DAY 1,300 CFM Diesel Powered Portable Air Compressor	1,184.66	
01 22 23 00-0148 WK 1,300 CFM Diesel Powered Portable Air Compressor	2,655.42	
01 22 23 00-0149 MO 1,300 CFM Diesel Powered Portable Air Compressor	7,081.11	
01 22 23 00-0150 DAY 1,600 CFM Diesel Powered Portable Air Compressor	1,475.23	
01 22 23 00-0151 WK 1,600 CFM Diesel Powered Portable Air Compressor	3,319.27	
01 22 23 00-0152 MO 1,600 CFM Diesel Powered Portable Air Compressor	8,851.39	
01 22 23 00-0153 Portable Negative Air Machines (01 22 23 00-0124)		
Note: A Negative Air Machine is used in a sealed containment area to filter air and exhaust the filtered air through ducting to a location outside the sealed containment area. Includes delivery to job site and pick-up when complete. Excludes all filters and duct.		
01 22 23 00-0154 DAY Up To 2,000 CFM, Portable Negative Air Machine	81.38	
01 22 23 00-0155 WK Up To 2,000 CFM, Portable Negative Air Machine	334.24	
01 22 23 00-0156 MO Up To 2,000 CFM, Portable Negative Air Machine	1,009.97	
01 22 23 00-0157 EA First Stage Pre-Filter For Portable Negative Air Machines	14.02	
01 22 23 00-0158 EA Second Stage Pre-Filter For Portable Negative Air Machines	33.32	
01 22 23 00-0159 EA High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Portable Negative Air Machines	175.50	
01 22 23 00-0160 LF Flexible Exhaust Duct For Portable Negative Air Machines	1.38	
01 22 23 00-0161 Compaction And Paving Equipment (01 22 23)		
01 22 23 00-0162 Pavers And Rollers (01 22 23 00-0161)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0163 Pavers (01 22 23 00-0162)		
01 22 23 00-0164 DAY 10' Wide Paving Machine With Full-Time Operator	3,264.20	
For Equipment Without Operator, Deduct	-849.21	
01 22 23 00-0165 WK 10' Wide Paving Machine With Full-Time Operator	13,906.04	
For Equipment Without Operator, Deduct	-4,246.06	
01 22 23 00-0166 MO 10' Wide Paving Machine With Full-Time Operator	52,900.13	
For Equipment Without Operator, Deduct	-18,399.61	
01 22 23 00-0167 Ride-On Self-Propelled, Rubber Tire Rollers (01 22 23 00-0162)		
01 22 23 00-0168 DAY 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,239.29	
For Equipment Without Operator, Deduct	-849.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0169 WK 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,425.88 -4,246.06	
01 22 23 00-0170 MO 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	21,602.37 -18,399.61	
01 22 23 00-0171 DAY 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,389.85 -849.21	
01 22 23 00-0172 WK 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,545.48 -4,246.06	
01 22 23 00-0173 MO 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	23,292.71 -18,399.61	
01 22 23 00-0174 DAY 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,396.69 -849.21	
01 22 23 00-0175 WK 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,100.65 -4,246.06	
01 22 23 00-0176 MO 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	23,621.20 -18,399.61	
01 22 23 00-0177 Ride-On Self-Propelled, Padfoot Rollers <small>(01 22 23 00-0162)</small>		
01 22 23 00-0178 DAY 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,300.88 -849.21	
01 22 23 00-0179 WK 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,498.42 -4,246.06	
01 22 23 00-0180 MO 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	22,019.82 -18,399.61	
01 22 23 00-0181 DAY 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,588.31 -849.21	
01 22 23 00-0182 WK 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,080.12 -4,246.06	
01 22 23 00-0183 MO 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	23,853.88 -18,399.61	
01 22 23 00-0184 DAY 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,656.74 -849.21	
01 22 23 00-0185 WK 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,511.26 -4,246.06	
01 22 23 00-0186 MO 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	25,058.34 -18,399.61	
01 22 23 00-0187 Towed, Padfoot Rollers <small>(01 22 23 00-0162)</small>		
01 22 23 00-0188 DAY 48" Wide, 40" Diameter, Towed Padfoot Roller	130.03	
01 22 23 00-0189 WK 48" Wide, 40" Diameter, Towed Padfoot Roller	376.39	
01 22 23 00-0190 MO 48" Wide, 40" Diameter, Towed Padfoot Roller	1,108.65	
01 22 23 00-0191 DAY 60" Wide, 60" Diameter, Towed Padfoot Roller	164.24	
01 22 23 00-0192 WK 60" Wide, 60" Diameter, Towed Padfoot Roller	458.51	
01 22 23 00-0193 MO 60" Wide, 60" Diameter, Towed Padfoot Roller	1,950.40	
01 22 23 00-0194 Static Rollers <small>(01 22 23 00-0162)</small>		
01 22 23 00-0195 DAY 5 Ton, 2 Drum Articulated Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,335.10 -849.21	
01 22 23 00-0196 WK 5 Ton, 2 Drum Articulated Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,792.69 -4,246.06	
01 22 23 00-0197 MO 5 Ton, 2 Drum Articulated Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	22,984.75 -18,399.61	
01 22 23 00-0198 DAY 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,485.66 -849.21	
01 22 23 00-0199 WK 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,203.30 -4,246.06	
01 22 23 00-0200 MO 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	24,120.78 -18,399.61	
01 22 23 00-0201 Ride-On Self-Propelled, Smooth Drum Vibratory Rollers <small>(01 22 23 00-0162)</small>		
01 22 23 00-0202 DAY 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,116.11 -849.21	
01 22 23 00-0203 WK 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,026.22 -4,246.06	
01 22 23 00-0204 MO 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	20,452.66 -18,399.61	
01 22 23 00-0205 DAY 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,218.76 -849.21	
01 22 23 00-0206 WK 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,334.18 -4,246.06	
01 22 23 00-0207 MO 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	21,273.88 -18,399.61	
01 22 23 00-0208 DAY 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,287.19 -849.21	
01 22 23 00-0209 WK 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,539.48 -4,246.06	
01 22 23 00-0210 MO 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	21,821.36 -18,399.61	

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 22 23 00-0211	DAY	8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,376.16	
		<i>For Equipment Without Operator, Deduct</i>	-849.21	
01 22 23 00-0212	WK	8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,799.53	
		<i>For Equipment Without Operator, Deduct</i>	-4,246.06	
01 22 23 00-0213	MO	8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	22,498.87	
		<i>For Equipment Without Operator, Deduct</i>	-18,399.61	
01 22 23 00-0214	DAY	11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,554.09	
		<i>For Equipment Without Operator, Deduct</i>	-849.21	
01 22 23 00-0215	WK	11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,319.64	
		<i>For Equipment Without Operator, Deduct</i>	-4,246.06	
01 22 23 00-0216	MO	11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	23,874.41	
		<i>For Equipment Without Operator, Deduct</i>	-18,399.61	

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

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

01 22 23 00-0218	EA	Placement And Removal Of Steel Roadway Plates	52.88	
01 22 23 00-0219	DAY	1" x 4' x 8' Steel Plate	37.51	
01 22 23 00-0220	WK	1" x 4' x 8' Steel Plate	88.56	
01 22 23 00-0221	MO	1" x 4' x 8' Steel Plate	116.55	
01 22 23 00-0222	DAY	1" x 4' x 10' Steel Plate	50.01	
01 22 23 00-0223	WK	1" x 4' x 10' Steel Plate	112.53	
01 22 23 00-0224	MO	1" x 4' x 10' Steel Plate	137.53	
01 22 23 00-0225	DAY	1" x 5' x 10' Steel Plate	52.10	
01 22 23 00-0226	WK	1" x 5' x 10' Steel Plate	117.73	
01 22 23 00-0227	MO	1" x 5' x 10' Steel Plate	312.57	
01 22 23 00-0228	DAY	1" x 6' x 8' Steel Plate	33.34	
01 22 23 00-0229	WK	1" x 6' x 8' Steel Plate	75.02	
01 22 23 00-0230	MO	1" x 6' x 8' Steel Plate	200.04	
01 22 23 00-0231	DAY	1" x 6' x 10' Steel Plate	62.51	
01 22 23 00-0232	WK	1" x 6' x 10' Steel Plate	82.31	
01 22 23 00-0233	MO	1" x 6' x 10' Steel Plate	219.84	
01 22 23 00-0234	DAY	1" x 6' x 12' Steel Plate	87.52	
01 22 23 00-0235	WK	1" x 6' x 12' Steel Plate	112.00	
01 22 23 00-0236	MO	1" x 6' x 12' Steel Plate	303.19	
01 22 23 00-0237	DAY	1" x 8' x 10' Steel Plate	55.22	
01 22 23 00-0238	WK	1" x 8' x 10' Steel Plate	123.99	
01 22 23 00-0239	MO	1" x 8' x 10' Steel Plate	330.28	
01 22 23 00-0240	DAY	1" x 8' x 12' Steel Plate	100.02	
01 22 23 00-0241	WK	1" x 8' x 12' Steel Plate	123.99	
01 22 23 00-0242	MO	1" x 8' x 12' Steel Plate	600.13	
01 22 23 00-0243	DAY	1" x 8' x 16' Steel Plate	133.36	
01 22 23 00-0244	WK	1" x 8' x 16' Steel Plate	300.07	
01 22 23 00-0245	MO	1" x 8' x 16' Steel Plate	800.18	
01 22 23 00-0246	DAY	1-1/4" x 8' x 10' Steel Plate	66.26	
01 22 23 00-0247	WK	1-1/4" x 8' x 10' Steel Plate	148.78	
01 22 23 00-0248	MO	1-1/4" x 8' x 10' Steel Plate	396.34	
01 22 23 00-0249	DAY	1-1/2" x 8' x 15' Steel Plate	153.37	
01 22 23 00-0250	WK	1-1/2" x 8' x 15' Steel Plate	345.08	
01 22 23 00-0251	MO	1-1/2" x 8' x 15' Steel Plate	920.21	
01 22 23 00-0252	LF	Cold Mix For Temporary Ramp Base, 6" At Edge Of Trench Plate	2.30	0.98
01 22 23 00-0253	EA	Removal And Resetting Of Steel Roadway Plate	29.37	

01 22 23 00-0254 Street Sweepers (01 22 23 00-0161)

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

01 22 23 00-0255	DAY	8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	1,001.55	
		<i>For Equipment Without Operator, Deduct</i>	-807.07	
01 22 23 00-0256	WK	8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	4,805.98	
		<i>For Equipment Without Operator, Deduct</i>	-4,035.33	
01 22 23 00-0257	MO	8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	20,232.07	
		<i>For Equipment Without Operator, Deduct</i>	-17,486.42	
01 22 23 00-0258	DAY	Self-Propelled Street Sweeper With Hopper And Full-Time Operator	1,728.48	
		Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
		<i>For Equipment Without Operator, Deduct</i>	-807.07	
01 22 23 00-0259	WK	Self-Propelled Street Sweeper With Hopper And Full-Time Operator	7,726.07	
		Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
		<i>For Equipment Without Operator, Deduct</i>	-4,035.33	
01 22 23 00-0260	MO	Self-Propelled Street Sweeper With Hopper And Full-Time Operator	30,657.77	
		Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
		<i>For Equipment Without Operator, Deduct</i>	-17,486.42	

01 22 23 00-0261 Earthmoving Equipment (01 22 23)

01 22 23 00-0262 Skid-Steer Loaders (01 22 23 00-0261)

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

01 22 23 00-0263	DAY	700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	1,190.57	
		<i>For Equipment Without Operator, Deduct</i>	-807.07	
01 22 23 00-0264	WK	700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	5,041.41	
		<i>For Equipment Without Operator, Deduct</i>	-4,035.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0265 MO 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	19,909.37	
<i>For Equipment Without Operator, Deduct</i>	-17,486.42	
01 22 23 00-0266 DAY 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	1,291.66	
<i>For Equipment Without Operator, Deduct</i>	-807.07	
01 22 23 00-0267 WK 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	5,224.34	
<i>For Equipment Without Operator, Deduct</i>	-4,035.33	
01 22 23 00-0268 MO 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	20,310.52	
<i>For Equipment Without Operator, Deduct</i>	-17,486.42	
01 22 23 00-0269 DAY 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	1,320.54	
<i>For Equipment Without Operator, Deduct</i>	-807.07	
01 22 23 00-0270 WK 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	5,487.49	
<i>For Equipment Without Operator, Deduct</i>	-4,035.33	
01 22 23 00-0271 MO 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	21,008.52	
<i>For Equipment Without Operator, Deduct</i>	-17,486.42	
01 22 23 00-0272 DAY 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	1,432.86	
<i>For Equipment Without Operator, Deduct</i>	-807.07	
01 22 23 00-0273 WK 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	5,856.55	
<i>For Equipment Without Operator, Deduct</i>	-4,035.33	
01 22 23 00-0274 MO 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	22,228.01	
<i>For Equipment Without Operator, Deduct</i>	-17,486.42	
01 22 23 00-0275 DAY 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	1,625.42	
<i>For Equipment Without Operator, Deduct</i>	-807.07	
01 22 23 00-0276 WK 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	6,586.64	
<i>For Equipment Without Operator, Deduct</i>	-4,035.33	
01 22 23 00-0277 MO 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	24,025.16	
<i>For Equipment Without Operator, Deduct</i>	-17,486.42	
01 22 23 00-0278 DAY Hydraulic Hammer Attachment For Skid-Steer Loaders	320.92	
01 22 23 00-0279 WK Hydraulic Hammer Attachment For Skid-Steer Loaders	1,067.06	
01 22 23 00-0280 MO Hydraulic Hammer Attachment For Skid-Steer Loaders	2,840.14	
01 22 23 00-0281 DAY Forklift Attachment For Skid-Steer Loaders	69.00	
01 22 23 00-0282 WK Forklift Attachment For Skid-Steer Loaders	184.53	
01 22 23 00-0283 MO Forklift Attachment For Skid-Steer Loaders	521.50	
01 22 23 00-0284 DAY Backhoe Attachment For Skid-Steer Loaders	152.44	
01 22 23 00-0285 WK Backhoe Attachment For Skid-Steer Loaders	365.85	
01 22 23 00-0286 MO Backhoe Attachment For Skid-Steer Loaders	909.81	
01 22 23 00-0287 DAY Broom Attachment For Skid-Steer Loaders	150.83	
01 22 23 00-0288 WK Broom Attachment For Skid-Steer Loaders	409.17	
01 22 23 00-0289 MO Broom Attachment For Skid-Steer Loaders	1,083.10	
01 22 23 00-0290 DAY Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	131.58	
01 22 23 00-0291 WK Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	362.64	
01 22 23 00-0292 MO Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	990.04	
01 22 23 00-0293 DAY Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	36.26	
01 22 23 00-0294 WK Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	94.88	
01 22 23 00-0295 MO Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	279.06	
01 22 23 00-0296 DAY >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	48.83	
01 22 23 00-0297 WK >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	121.39	
01 22 23 00-0298 MO >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	362.78	
01 22 23 00-0299 DAY Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	71.15	
01 22 23 00-0300 WK Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	216.28	
01 22 23 00-0301 MO Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	641.84	
01 22 23 00-0302 DAY 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	14.44	
01 22 23 00-0303 WK 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	33.70	
01 22 23 00-0304 MO 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	89.86	
01 22 23 00-0305 Bulldozers <small>(01 22 23 00-0261)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0306 DAY 70 HP, D3 Bulldozer With Full-Time Operator	1,264.73	
<i>For Equipment Without Operator, Deduct</i>	-849.21	
01 22 23 00-0307 WK 70 HP, D3 Bulldozer With Full-Time Operator	5,884.62	
<i>For Equipment Without Operator, Deduct</i>	-4,246.06	
01 22 23 00-0308 MO 70 HP, D3 Bulldozer With Full-Time Operator	23,260.41	
<i>For Equipment Without Operator, Deduct</i>	-18,399.61	
01 22 23 00-0309 DAY 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	1,460.73	
<i>For Equipment Without Operator, Deduct</i>	-849.21	
01 22 23 00-0310 WK 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	6,676.46	
<i>For Equipment Without Operator, Deduct</i>	-4,246.06	
01 22 23 00-0311 MO 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	25,690.81	
<i>For Equipment Without Operator, Deduct</i>	-18,399.61	
01 22 23 00-0312 DAY 140 HP, D6 Bulldozer With Full-Time Operator	2,017.37	
<i>For Equipment Without Operator, Deduct</i>	-849.21	
01 22 23 00-0313 WK 140 HP, D6 Bulldozer With Full-Time Operator	8,903.02	
<i>For Equipment Without Operator, Deduct</i>	-4,246.06	
01 22 23 00-0314 MO 140 HP, D6 Bulldozer With Full-Time Operator	32,354.81	
<i>For Equipment Without Operator, Deduct</i>	-18,399.61	
01 22 23 00-0315 DAY 200 HP, D7 Bulldozer With Full-Time Operator	2,511.29	
<i>For Equipment Without Operator, Deduct</i>	-849.21	
01 22 23 00-0316 WK 200 HP, D7 Bulldozer With Full-Time Operator	10,886.54	
<i>For Equipment Without Operator, Deduct</i>	-4,246.06	
01 22 23 00-0317 MO 200 HP, D7 Bulldozer With Full-Time Operator	38,313.21	
<i>For Equipment Without Operator, Deduct</i>	-18,399.61	
01 22 23 00-0318 DAY 335 HP, D8 Bulldozer With Full-Time Operator	3,099.29	
<i>For Equipment Without Operator, Deduct</i>	-849.21	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0319	WK		335 HP, D8 Bulldozer With Full-Time Operator	13,238.54	
			<i>For Equipment Without Operator, Deduct</i>	-4,246.06	
01 22 23 00-0320	MO		335 HP, D8 Bulldozer With Full-Time Operator	45,369.21	
			<i>For Equipment Without Operator, Deduct</i>	-18,399.61	
01 22 23 00-0321	DAY		460 HP, D9 Bulldozer With Full-Time Operator	3,428.57	
			<i>For Equipment Without Operator, Deduct</i>	-849.21	
01 22 23 00-0322	WK		460 HP, D9 Bulldozer With Full-Time Operator	14,547.82	
			<i>For Equipment Without Operator, Deduct</i>	-4,246.06	
01 22 23 00-0323	MO		460 HP, D9 Bulldozer With Full-Time Operator	49,289.21	
			<i>For Equipment Without Operator, Deduct</i>	-18,399.61	
01 22 23 00-0324			Motor Scraper <small>(01 22 23 00-0261)</small>		
			Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0325	DAY		11 CY Motor Scraper-Hauler With Full-Time Operator	1,876.47	
			<i>For Equipment Without Operator, Deduct</i>	-849.21	
01 22 23 00-0326	WK		11 CY Motor Scraper-Hauler With Full-Time Operator	8,355.08	
			<i>For Equipment Without Operator, Deduct</i>	-4,246.06	
01 22 23 00-0327	MO		11 CY Motor Scraper-Hauler With Full-Time Operator	30,712.61	
			<i>For Equipment Without Operator, Deduct</i>	-18,399.61	
01 22 23 00-0328	DAY		18 CY Motor Scraper-Hauler With Full-Time Operator	2,291.59	
			<i>For Equipment Without Operator, Deduct</i>	-849.21	
01 22 23 00-0329	WK		18 CY Motor Scraper-Hauler With Full-Time Operator	10,015.58	
			<i>For Equipment Without Operator, Deduct</i>	-4,246.06	
01 22 23 00-0330	MO		18 CY Motor Scraper-Hauler With Full-Time Operator	35,708.17	
			<i>For Equipment Without Operator, Deduct</i>	-18,399.61	
01 22 23 00-0331	DAY		24 CY Motor Scraper-Hauler With Full-Time Operator	2,692.64	
			<i>For Equipment Without Operator, Deduct</i>	-849.21	
01 22 23 00-0332	WK		24 CY Motor Scraper-Hauler With Full-Time Operator	11,612.75	
			<i>For Equipment Without Operator, Deduct</i>	-4,246.06	
01 22 23 00-0333	MO		24 CY Motor Scraper-Hauler With Full-Time Operator	40,492.65	
			<i>For Equipment Without Operator, Deduct</i>	-18,399.61	
01 22 23 00-0334			Hydraulic Excavators <small>(01 22 23 00-0261)</small>		
			Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0335	DAY		3/8 CY Hydraulic Excavator With Full-Time Operator	1,215.82	
			<i>For Equipment Without Operator, Deduct</i>	-849.21	
01 22 23 00-0336	WK		3/8 CY Hydraulic Excavator With Full-Time Operator	5,542.76	
			<i>For Equipment Without Operator, Deduct</i>	-4,246.06	
01 22 23 00-0337	MO		3/8 CY Hydraulic Excavator With Full-Time Operator	22,744.57	
			<i>For Equipment Without Operator, Deduct</i>	-18,399.61	
01 22 23 00-0338	DAY		1/2 CY Hydraulic Excavator With Full-Time Operator	1,319.01	
			<i>For Equipment Without Operator, Deduct</i>	-849.21	
01 22 23 00-0339	WK		1/2 CY Hydraulic Excavator With Full-Time Operator	5,997.62	
			<i>For Equipment Without Operator, Deduct</i>	-4,246.06	
01 22 23 00-0340	MO		1/2 CY Hydraulic Excavator With Full-Time Operator	24,564.02	
			<i>For Equipment Without Operator, Deduct</i>	-18,399.61	
01 22 23 00-0341	DAY		5/8 CY Hydraulic Excavator With Full-Time Operator	1,351.60	
			<i>For Equipment Without Operator, Deduct</i>	-849.21	
01 22 23 00-0342	WK		5/8 CY Hydraulic Excavator With Full-Time Operator	6,167.35	
			<i>For Equipment Without Operator, Deduct</i>	-4,246.06	
01 22 23 00-0343	MO		5/8 CY Hydraulic Excavator With Full-Time Operator	24,862.74	
			<i>For Equipment Without Operator, Deduct</i>	-18,399.61	
01 22 23 00-0344	DAY		3/4 CY Hydraulic Excavator With Full-Time Operator	1,385.54	
			<i>For Equipment Without Operator, Deduct</i>	-849.21	
01 22 23 00-0345	WK		3/4 CY Hydraulic Excavator With Full-Time Operator	6,323.49	
			<i>For Equipment Without Operator, Deduct</i>	-4,246.06	
01 22 23 00-0346	MO		3/4 CY Hydraulic Excavator With Full-Time Operator	25,161.45	
			<i>For Equipment Without Operator, Deduct</i>	-18,399.61	
01 22 23 00-0347	DAY		7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	1,412.70	
			<i>For Equipment Without Operator, Deduct</i>	-849.21	
01 22 23 00-0348	WK		7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	6,486.43	
			<i>For Equipment Without Operator, Deduct</i>	-4,246.06	
01 22 23 00-0349	MO		7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	25,460.17	
			<i>For Equipment Without Operator, Deduct</i>	-18,399.61	
01 22 23 00-0350	DAY		1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	1,779.30	
			<i>For Equipment Without Operator, Deduct</i>	-849.21	
01 22 23 00-0351	WK		1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	7,946.06	
			<i>For Equipment Without Operator, Deduct</i>	-4,246.06	
01 22 23 00-0352	MO		1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	29,499.63	
			<i>For Equipment Without Operator, Deduct</i>	-18,399.61	
01 22 23 00-0353	DAY		1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	1,833.61	
			<i>For Equipment Without Operator, Deduct</i>	-849.21	
01 22 23 00-0354	WK		1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	8,183.68	
			<i>For Equipment Without Operator, Deduct</i>	-4,246.06	
01 22 23 00-0355	MO		1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	30,212.47	
			<i>For Equipment Without Operator, Deduct</i>	-18,399.61	
01 22 23 00-0356	DAY		1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	1,935.45	
			<i>For Equipment Without Operator, Deduct</i>	-849.21	
01 22 23 00-0357	WK		1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	8,591.02	
			<i>For Equipment Without Operator, Deduct</i>	-4,246.06	
01 22 23 00-0358	MO		1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	31,434.49	
			<i>For Equipment Without Operator, Deduct</i>	-18,399.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0359 DAY 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....	2,050.86	
For Equipment Without Operator, Deduct	-849.21	
01 22 23 00-0360 WK 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....	9,045.88	
For Equipment Without Operator, Deduct	-4,246.06	
01 22 23 00-0361 MO 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....	32,792.29	
For Equipment Without Operator, Deduct	-18,399.61	
01 22 23 00-0362 DAY 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	2,084.81	
For Equipment Without Operator, Deduct	-849.21	
01 22 23 00-0363 WK 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	9,181.66	
For Equipment Without Operator, Deduct	-4,246.06	
01 22 23 00-0364 MO 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	33,199.63	
For Equipment Without Operator, Deduct	-18,399.61	
01 22 23 00-0365 DAY 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	2,410.68	
For Equipment Without Operator, Deduct	-849.21	
01 22 23 00-0366 WK 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	10,491.94	
For Equipment Without Operator, Deduct	-4,246.06	
01 22 23 00-0367 MO 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	37,137.25	
For Equipment Without Operator, Deduct	-18,399.61	
01 22 23 00-0368 DAY 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	2,879.12	
For Equipment Without Operator, Deduct	-849.21	
01 22 23 00-0369 WK 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	12,352.13	
For Equipment Without Operator, Deduct	-4,246.06	
01 22 23 00-0370 MO 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	42,704.23	
For Equipment Without Operator, Deduct	-18,399.61	
01 22 23 00-0371 DAY 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	3,456.19	
For Equipment Without Operator, Deduct	-849.21	
01 22 23 00-0372 WK 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	14,660.39	
For Equipment Without Operator, Deduct	-4,246.06	
01 22 23 00-0373 MO 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	49,629.01	
For Equipment Without Operator, Deduct	-18,399.61	
01 22 23 00-0374 DAY Up To 50' Depth, 50,000 LB Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator	1,962.61	
For Equipment Without Operator, Deduct	-849.21	
01 22 23 00-0375 WK Up To 50' Depth, 50,000 LB Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator	8,686.07	
For Equipment Without Operator, Deduct	-4,246.06	
01 22 23 00-0376 MO Up To 50' Depth, 50,000 LB Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator	31,706.05	
For Equipment Without Operator, Deduct	-18,399.61	
01 22 23 00-0377 DAY Thumbs Or Grapple Attachment For Hydraulic Excavators	95.05	
01 22 23 00-0378 WK Thumbs Or Grapple Attachment For Hydraulic Excavators	366.61	
01 22 23 00-0379 MO Thumbs Or Grapple Attachment For Hydraulic Excavators	1,086.24	
01 22 23 00-0380 DAY 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	420.92	
01 22 23 00-0381 WK 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,113.40	
01 22 23 00-0382 MO 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	3,116.15	
01 22 23 00-0383 DAY 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	651.74	
01 22 23 00-0384 WK 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,663.30	
01 22 23 00-0385 MO 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	4,324.59	
01 22 23 00-0386 DAY 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	909.73	
01 22 23 00-0387 WK 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	2,450.83	
01 22 23 00-0388 MO 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	6,870.47	
01 22 23 00-0389 DAY 24" Compaction Wheel Attachment For Hydraulic Excavators	190.09	
01 22 23 00-0390 WK 24" Compaction Wheel Attachment For Hydraulic Excavators	760.37	
01 22 23 00-0391 MO 24" Compaction Wheel Attachment For Hydraulic Excavators	2,281.10	
01 22 23 00-0392 DAY 36" Compaction Wheel Attachment For Hydraulic Excavators	271.56	
01 22 23 00-0393 WK 36" Compaction Wheel Attachment For Hydraulic Excavators	1,086.24	
01 22 23 00-0394 MO 36" Compaction Wheel Attachment For Hydraulic Excavators	3,258.72	
01 22 23 00-0395 DAY 48" Compaction Wheel Attachment For Hydraulic Excavators	298.72	
01 22 23 00-0396 WK 48" Compaction Wheel Attachment For Hydraulic Excavators	1,181.29	
01 22 23 00-0397 MO 48" Compaction Wheel Attachment For Hydraulic Excavators	3,530.28	
01 22 23 00-0398 Mini-Excavators <small>(01 22 23 00-0261)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0399 DAY 2,000 LB Mini-Excavator With Full-Time Operator.....	1,134.35	
For Equipment Without Operator, Deduct	-849.21	
01 22 23 00-0400 WK 2,000 LB Mini-Excavator With Full-Time Operator.....	5,083.95	
For Equipment Without Operator, Deduct	-4,246.06	
01 22 23 00-0401 MO 2,000 LB Mini-Excavator With Full-Time Operator.....	20,178.33	
For Equipment Without Operator, Deduct	-18,399.61	
01 22 23 00-0402 DAY 3,500 LB Mini-Excavator With Full-Time Operator.....	1,141.14	
For Equipment Without Operator, Deduct	-849.21	
01 22 23 00-0403 WK 3,500 LB Mini-Excavator With Full-Time Operator.....	5,074.32	
For Equipment Without Operator, Deduct	-4,246.06	
01 22 23 00-0404 MO 3,500 LB Mini-Excavator With Full-Time Operator.....	20,606.03	
For Equipment Without Operator, Deduct	-18,399.61	
01 22 23 00-0405 DAY 6,000 LB Mini-Excavator With Full-Time Operator.....	1,175.08	
For Equipment Without Operator, Deduct	-849.21	
01 22 23 00-0406 WK 6,000 LB Mini-Excavator With Full-Time Operator.....	5,169.36	
For Equipment Without Operator, Deduct	-4,246.06	
01 22 23 00-0407 MO 6,000 LB Mini-Excavator With Full-Time Operator.....	20,667.14	
For Equipment Without Operator, Deduct	-18,399.61	
01 22 23 00-0408 DAY 7,500 LB Mini-Excavator With Full-Time Operator.....	1,188.66	
For Equipment Without Operator, Deduct	-849.21	
01 22 23 00-0409 WK 7,500 LB Mini-Excavator With Full-Time Operator.....	5,216.89	
For Equipment Without Operator, Deduct	-4,246.06	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0410 MO 7,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	20,694.29 -18,399.61	
01 22 23 00-0411 DAY 9,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,270.13 -849.21	
01 22 23 00-0412 WK 9,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	5,284.78 -4,246.06	
01 22 23 00-0413 MO 9,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	21,481.82 -18,399.61	
01 22 23 00-0414 DAY 11,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,276.92 -849.21	
01 22 23 00-0415 WK 11,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	5,624.23 -4,246.06	
01 22 23 00-0416 MO 11,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	21,515.76 -18,399.61	
01 22 23 00-0417 Gradall, Telescopic Hydraulic Excavators (01 22 23 00-0261) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0418 DAY Gradall, Telescopic Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	2,419.86 -849.21	
01 22 23 00-0419 WK Gradall, Telescopic Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	10,521.62 -4,246.06	
01 22 23 00-0420 MO Gradall, Telescopic Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	40,797.98 -18,399.61	
01 22 23 00-0421 Road Graders (01 22 23 00-0261) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0422 DAY 60 HP Road Grader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,430.95 -849.21	
01 22 23 00-0423 WK 60 HP Road Grader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	5,819.73 -4,246.06	
01 22 23 00-0424 MO 60 HP Road Grader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	23,105.71 -18,399.61	
01 22 23 00-0425 DAY 80 HP Road Grader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,602.48 -849.21	
01 22 23 00-0426 WK 80 HP Road Grader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	6,297.05 -4,246.06	
01 22 23 00-0427 MO 80 HP Road Grader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	24,552.59 -18,399.61	
01 22 23 00-0428 DAY 130 HP Road Grader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,486.32 -849.21	
01 22 23 00-0429 WK 130 HP Road Grader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	6,794.51 -4,246.06	
01 22 23 00-0430 MO 130 HP Road Grader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	27,506.98 -18,399.61	
01 22 23 00-0431 Loader-Backhoes With Standard Bucket (01 22 23 00-0261) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0432 DAY 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,243.23 -849.21	
01 22 23 00-0433 WK 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	5,181.85 -4,246.06	
01 22 23 00-0434 MO 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	20,601.88 -18,399.61	
01 22 23 00-0435 DAY 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,285.44 -849.21	
01 22 23 00-0436 WK 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	5,329.60 -4,246.06	
01 22 23 00-0437 MO 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	21,502.49 -18,399.61	
01 22 23 00-0438 DAY 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,350.53 -849.21	
01 22 23 00-0439 WK 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	5,491.43 -4,246.06	
01 22 23 00-0440 MO 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	21,986.86 -18,399.61	
01 22 23 00-0441 DAY 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,640.76 -849.21	
01 22 23 00-0442 WK 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	6,356.86 -4,246.06	
01 22 23 00-0443 MO 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	24,443.53 -18,399.61	
01 22 23 00-0444 Heavy Duty Construction Loaders (01 22 23 00-0261) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0445 DAY 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,388.13 -849.21	
01 22 23 00-0446 WK 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	6,376.85 -4,246.06	
01 22 23 00-0447 MO 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	24,783.68 -18,399.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0448 DAY 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator	1,835.84	
For Equipment Without Operator, Deduct	-849.21	
01 22 23 00-0449 WK 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator	6,866.02	
For Equipment Without Operator, Deduct	-4,246.06	
01 22 23 00-0450 MO 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator	25,032.41	
For Equipment Without Operator, Deduct	-18,399.61	
01 22 23 00-0451 DAY 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator	1,935.33	
For Equipment Without Operator, Deduct	-849.21	
01 22 23 00-0452 WK 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator	7,131.33	
For Equipment Without Operator, Deduct	-4,246.06	
01 22 23 00-0453 MO 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator	25,695.69	
For Equipment Without Operator, Deduct	-18,399.61	
01 22 23 00-0454 DAY 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator	2,208.93	
For Equipment Without Operator, Deduct	-849.21	
01 22 23 00-0455 WK 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator	7,852.64	
For Equipment Without Operator, Deduct	-4,246.06	
01 22 23 00-0456 MO 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator	27,519.71	
For Equipment Without Operator, Deduct	-18,399.61	
01 22 23 00-0457 DAY 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator	2,913.67	
For Equipment Without Operator, Deduct	-849.21	
01 22 23 00-0458 WK 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator	12,487.31	
For Equipment Without Operator, Deduct	-4,246.06	
01 22 23 00-0459 MO 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator	43,106.79	
For Equipment Without Operator, Deduct	-18,399.61	
01 22 23 00-0460 DAY 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator	7,556.55	
For Equipment Without Operator, Deduct	-849.21	
01 22 23 00-0461 WK 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator	26,026.28	
For Equipment Without Operator, Deduct	-4,246.06	
01 22 23 00-0462 MO 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator	77,756.62	
For Equipment Without Operator, Deduct	-18,399.61	
01 22 23 00-0463 Shoring <small>(01 22 23 00-0261)</small>		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0464 Aluminum Hydraulic Shoring <small>(01 22 23 00-0463)</small>		
Note: Includes delivery to job site and pick-up when complete. Excludes sheeting.		
01 22 23 00-0465 WK 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring	70.77	
Note: Up to 88" spread width.		
01 22 23 00-0466 MO 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring	208.74	
Note: Up to 88" spread width.		
01 22 23 00-0467 WK Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring	94.94	
Note: Up to 88" spread width.		
01 22 23 00-0468 MO Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring	280.01	
Note: Up to 88" spread width.		
01 22 23 00-0469 WK Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring	176.03	
Note: Up to 88" spread width.		
01 22 23 00-0470 MO Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring	519.30	
Note: Up to 88" spread width.		
01 22 23 00-0471 EA Set-up And Removal Of 1 Cylinder Aluminum Hydraulic Shores	24.80	
01 22 23 00-0472 EA Set-up And Removal Of 2 Cylinders Aluminum Hydraulic Shores	39.68	
01 22 23 00-0473 EA Set-up And Removal Of 3 Cylinders Aluminum Hydraulic Shores	66.12	
01 22 23 00-0474 Trench Boxes/Trench Shields <small>(01 22 23 00-0261)</small>		
Note: Trenching tasks include moving the trench box in excavation as trenching proceeds. Includes delivery to job site and pick-up when complete. For stackable units, combine multiple units for depth required.		
01 22 23 00-0475 WK 4' x 6' Trench Box With Up To 48" Spreaders	136.40	
01 22 23 00-0476 MO 4' x 6' Trench Box With Up To 48" Spreaders	409.20	
01 22 23 00-0477 WK 6' x 6' Trench Box With Up To 48" Spreaders	154.00	
01 22 23 00-0478 MO 6' x 6' Trench Box With Up To 48" Spreaders	462.00	
01 22 23 00-0479 WK 8' x 6' Trench Box With Up To 48" Spreaders	162.80	
01 22 23 00-0480 MO 8' x 6' Trench Box With Up To 48" Spreaders	488.40	
01 22 23 00-0481 WK 4' x 8' Trench Box With Up To 48" Spreaders	149.60	
01 22 23 00-0482 MO 4' x 8' Trench Box With Up To 48" Spreaders	448.80	
01 22 23 00-0483 WK 6' x 8' Trench Box With Up To 48" Spreaders	176.00	
01 22 23 00-0484 MO 6' x 8' Trench Box With Up To 48" Spreaders	528.00	
01 22 23 00-0485 WK 8' x 8' Trench Box With Up To 48" Spreaders	198.00	
01 22 23 00-0486 MO 8' x 8' Trench Box With Up To 48" Spreaders	594.00	
01 22 23 00-0487 WK 4' x 10' Trench Box With Up To 48" Spreaders	167.20	
01 22 23 00-0488 MO 4' x 10' Trench Box With Up To 48" Spreaders	501.60	
01 22 23 00-0489 WK 6' x 10' Trench Box With Up To 48" Spreaders	198.00	
01 22 23 00-0490 MO 6' x 10' Trench Box With Up To 48" Spreaders	594.00	
01 22 23 00-0491 WK 8' x 10' Trench Box With Up To 48" Spreaders	242.00	
01 22 23 00-0492 MO 8' x 10' Trench Box With Up To 48" Spreaders	721.60	
01 22 23 00-0493 WK 4' x 12' Trench Box With Up To 48" Spreaders	198.00	
01 22 23 00-0494 MO 4' x 12' Trench Box With Up To 48" Spreaders	594.00	
01 22 23 00-0495 WK 6' x 12' Trench Box With Up To 48" Spreaders	242.00	
01 22 23 00-0496 MO 6' x 12' Trench Box With Up To 48" Spreaders	726.00	
01 22 23 00-0497 WK 8' x 12' Trench Box With Up To 48" Spreaders	308.00	
01 22 23 00-0498 MO 8' x 12' Trench Box With Up To 48" Spreaders	924.00	
01 22 23 00-0499 WK 4' x 14' Trench Box With Up To 48" Spreaders	220.00	
01 22 23 00-0500 MO 4' x 14' Trench Box With Up To 48" Spreaders	660.00	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-0501	WK	6' x 14'	Trench Box With Up To 48" Spreaders.....	286.00	
01 22 23 00-0502	MO	6' x 14'	Trench Box With Up To 48" Spreaders.....	858.00	
01 22 23 00-0503	WK	8' x 14'	Trench Box With Up To 48" Spreaders.....	352.00	
01 22 23 00-0504	MO	8' x 14'	Trench Box With Up To 48" Spreaders.....	1,056.00	
01 22 23 00-0505	WK	4' x 16'	Trench Box With Up To 48" Spreaders.....	242.00	
01 22 23 00-0506	MO	4' x 16'	Trench Box With Up To 48" Spreaders.....	726.00	
01 22 23 00-0507	WK	6' x 16'	Trench Box With Up To 48" Spreaders.....	330.00	
01 22 23 00-0508	MO	6' x 16'	Trench Box With Up To 48" Spreaders.....	990.00	
01 22 23 00-0509	WK	8' x 16'	Trench Box With Up To 48" Spreaders.....	396.00	
01 22 23 00-0510	MO	8' x 16'	Trench Box With Up To 48" Spreaders.....	1,188.00	
01 22 23 00-0511	WK	4' x 20'	Trench Box With Up To 48" Spreaders.....	286.00	
01 22 23 00-0512	MO	4' x 20'	Trench Box With Up To 48" Spreaders.....	858.00	
01 22 23 00-0513	WK	6' x 20'	Trench Box With Up To 48" Spreaders.....	396.00	
01 22 23 00-0514	MO	6' x 20'	Trench Box With Up To 48" Spreaders.....	1,188.00	
01 22 23 00-0515	WK	8' x 20'	Trench Box With Up To 48" Spreaders.....	462.00	
01 22 23 00-0516	MO	8' x 20'	Trench Box With Up To 48" Spreaders.....	1,386.00	
01 22 23 00-0517	WK	4' x 24'	Trench Box With Up To 48" Spreaders.....	396.00	
01 22 23 00-0518	MO	4' x 24'	Trench Box With Up To 48" Spreaders.....	1,188.00	
01 22 23 00-0519	WK	6' x 24'	Trench Box With Up To 48" Spreaders.....	484.00	
01 22 23 00-0520	MO	6' x 24'	Trench Box With Up To 48" Spreaders.....	1,452.00	
01 22 23 00-0521	WK	8' x 24'	Trench Box With Up To 48" Spreaders.....	528.00	
01 22 23 00-0522	MO	8' x 24'	Trench Box With Up To 48" Spreaders.....	1,584.00	
01 22 23 00-0523	WK	For Spreaders >48" To 84", Add.....	13.20		
01 22 23 00-0524	MO	For Spreaders >48" To 84", Add.....	39.60		
01 22 23 00-0525	WK	For Spreaders >84" To 120", Add.....	79.20		
01 22 23 00-0526	MO	For Spreaders >84" To 120", Add.....	237.60		
01 22 23 00-0527	WK	For Spreaders >120", Add.....	167.20		
01 22 23 00-0528	MO	For Spreaders >120", Add.....	501.60		
01 22 23 00-0529	WK	8' x 4' Manhole Box.....	207.90		
01 22 23 00-0530	MO	8' x 4' Manhole Box.....	623.70		
01 22 23 00-0531	WK	8' x 8' Manhole Box.....	297.00		
01 22 23 00-0532	MO	8' x 8' Manhole Box.....	891.00		

01 22 23 00-0533 Trenchers (01 22 23 00-0261)

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

01 22 23 00-0534	DAY	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	1,200.77	
		For Equipment Without Operator, Deduct	-807.07	
01 22 23 00-0535	WK	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	5,376.36	
		For Equipment Without Operator, Deduct	-4,035.33	
01 22 23 00-0536	MO	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	21,177.32	
		For Equipment Without Operator, Deduct	-17,486.42	
01 22 23 00-0537	DAY	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	1,865.13	
		For Equipment Without Operator, Deduct	-807.07	
01 22 23 00-0538	WK	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	7,615.50	
		For Equipment Without Operator, Deduct	-4,035.33	
01 22 23 00-0539	MO	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	27,328.82	
		For Equipment Without Operator, Deduct	-17,486.42	

01 22 23 00-0540 Portable Sediment Tank (01 22 23 00-0261)

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

01 22 23 00-0541	WK	Portable Sediment Tank	186.00	
01 22 23 00-0542	MO	Portable Sediment Tank	545.60	

01 22 23 00-0543 Heavy Equipment (Ground Protection) Mats (01 22 23 00-0261)

Note: Rental price per mat. Excludes placement, moving, mobilization and demobilization. See CSI section 01 22 23 00-0261 for equipment for offloading/reloading from delivery vehicle, placing, and moving mats, 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.

01 22 23 00-0544	DAY	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	49.26	
01 22 23 00-0545	WK	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	117.30	
01 22 23 00-0546	MO	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	246.32	
01 22 23 00-0547	DAY	16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	51.73	
01 22 23 00-0548	WK	16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	123.16	
01 22 23 00-0549	MO	16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	258.64	
01 22 23 00-0550	Day	16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	41.87	
01 22 23 00-0551	WK	16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	98.53	
01 22 23 00-0552	MO	16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	209.37	
01 22 23 00-0553	Day	18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	46.80	
01 22 23 00-0554	WK	18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	110.84	
01 22 23 00-0555	MO	18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	234.00	
01 22 23 00-0556	Day	20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	51.73	
01 22 23 00-0557	WK	20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	123.16	
01 22 23 00-0558	MO	20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	258.64	
01 22 23 00-0559	Day	24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	56.65	
01 22 23 00-0560	WK	24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	134.89	
01 22 23 00-0561	MO	24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	283.27	
01 22 23 00-0562	Day	12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	44.34	
01 22 23 00-0563	WK	12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	123.16	
01 22 23 00-0564	MO	12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	221.69	
01 22 23 00-0565	Day	16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	51.73	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0566	WK	16'	Width x 4'	Length, 12" Thick Hardwood Timbers, Crane Mat.....	123.16	
01 22 23 00-0567	MO	16'	Width x 4'	Length, 12" Thick Hardwood Timbers, Crane Mat.....	258.64	
01 22 23 00-0568	Day	20'	Width x 4'	Length, 12" Thick Hardwood Timbers, Crane Mat.....	61.58	
01 22 23 00-0569	WK	20'	Width x 4'	Length, 12" Thick Hardwood Timbers, Crane Mat.....	135.48	
01 22 23 00-0570	MO	20'	Width x 4'	Length, 12" Thick Hardwood Timbers, Crane Mat.....	307.90	
01 22 23 00-0571	Day	24'	Width x 4'	Length, 12" Thick Hardwood Timbers, Crane Mat.....	66.51	
01 22 23 00-0572	WK	24'	Width x 4'	Length, 12" Thick Hardwood Timbers, Crane Mat.....	158.35	
01 22 23 00-0573	MO	24'	Width x 4'	Length, 12" Thick Hardwood Timbers, Crane Mat.....	332.53	
01 22 23 00-0574	Day	28'	Width x 4'	Length, 12" Thick Hardwood Timbers, Crane Mat.....	71.43	
01 22 23 00-0575	WK	28'	Width x 4'	Length, 12" Thick Hardwood Timbers, Crane Mat.....	170.08	
01 22 23 00-0576	MO	28'	Width x 4'	Length, 12" Thick Hardwood Timbers, Crane Mat.....	357.16	
01 22 23 00-0577	Day	30'	Width x 4'	Length, 12" Thick Hardwood Timbers, Crane Mat.....	73.90	
01 22 23 00-0578	WK	30'	Width x 4'	Length, 12" Thick Hardwood Timbers, Crane Mat.....	175.94	
01 22 23 00-0579	MO	30'	Width x 4'	Length, 12" Thick Hardwood Timbers, Crane Mat.....	369.48	
01 22 23 00-0580	Day	14'	Width x 8'	Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	23.70	
01 22 23 00-0581	WK	14'	Width x 8'	Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	59.24	
01 22 23 00-0582	MO	14'	Width x 8'	Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	177.72	
01 22 23 00-0583	Day	14'	Width x 8'	Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	28.33	
01 22 23 00-0584	WK	14'	Width x 8'	Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	70.82	
01 22 23 00-0585	MO	14'	Width x 8'	Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	212.45	
01 22 23 00-0586	Day	16'	Width x 8'	Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	32.35	
01 22 23 00-0587	WK	16'	Width x 8'	Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	80.88	
01 22 23 00-0588	MO	16'	Width x 8'	Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	242.63	
01 22 23 00-0589	Day	14'	Width x 8'	Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	34.48	
01 22 23 00-0590	WK	14'	Width x 8'	Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	86.21	
01 22 23 00-0591	MO	14'	Width x 8'	Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	258.64	
01 22 23 00-0592	Day	16'	Width x 8'	Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	39.41	
01 22 23 00-0593	WK	16'	Width x 8'	Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	98.53	
01 22 23 00-0594	MO	16'	Width x 8'	Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	295.58	
01 22 23 00-0595	Day	16'	Width x 8'	Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	45.29	
01 22 23 00-0596	WK	16'	Width x 8'	Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	113.23	
01 22 23 00-0597	MO	16'	Width x 8'	Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	339.68	
01 22 23 00-0598	Day	24'	Width x 4'	Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	34.85	
01 22 23 00-0599	WK	24'	Width x 4'	Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	87.12	
01 22 23 00-0600	MO	24'	Width x 4'	Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	261.35	
01 22 23 00-0601	Day	30'	Width x 4'	Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	47.18	
01 22 23 00-0602	WK	30'	Width x 4'	Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	117.95	
01 22 23 00-0603	MO	30'	Width x 4'	Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	353.84	
01 22 23 00-0604	Day	24'	Width x 4'	Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	40.79	
01 22 23 00-0605	WK	24'	Width x 4'	Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	101.98	
01 22 23 00-0606	MO	24'	Width x 4'	Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	305.93	
01 22 23 00-0607	Day	40'	Width x 4'	Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	68.03	
01 22 23 00-0608	WK	40'	Width x 4'	Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	170.08	
01 22 23 00-0609	MO	40'	Width x 4'	Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	510.23	
01 22 23 00-0610	Day	40'	Width x 4'	Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	72.52	
01 22 23 00-0611	WK	40'	Width x 4'	Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	181.29	
01 22 23 00-0612	MO	40'	Width x 4'	Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	543.87	
01 22 23 00-0613	Electrical Equipment (01 22 23)					
01 22 23 00-0614	Tripod Mounted Floodlights (01 22 23 00-0613)					
	Note: Includes delivery to job site and pick-up when complete.					
01 22 23 00-0615	DAY	500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....			61.80	
01 22 23 00-0616	WK	500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....			146.20	
01 22 23 00-0617	MO	500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....			308.98	
01 22 23 00-0618	DAY	1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....			61.80	
01 22 23 00-0619	WK	1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....			180.86	
01 22 23 00-0620	MO	1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....			535.06	
01 22 23 00-0621	DAY	2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....			69.33	
01 22 23 00-0622	WK	2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....			188.40	
01 22 23 00-0623	MO	2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....			459.70	
01 22 23 00-0624	Trailer Mounted Floodlights (01 22 23 00-0613)					
	Note: Includes delivery to job site and pick-up when complete. Excludes operator.					
01 22 23 00-0625	DAY	4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....			173.33	
01 22 23 00-0626	WK	4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....			384.34	
01 22 23 00-0627	MO	4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....			828.96	
01 22 23 00-0628	Generator Sets (01 22 23 00-0613)					
01 22 23 00-0629	Portable, Gas Or Diesel Powered Generator Sets (01 22 23 00-0628)					
	Note: With 24 hour day-tank. Includes delivery to job site and pick-up when complete. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0736 for reimbursable fuel fees.					
01 22 23 00-0630	DAY	3.6 KW, 8 HP Gas Powered Generator Set.....			51.36	
		For LP Or NG Gas, Add			6.42	
		For >160 To 320 Hours Usage Per Month, Add			25.68	
01 22 23 00-0631	WK	3.6 KW, 8 HP Gas Powered Generator Set.....			185.15	
		For LP Or NG Gas, Add			23.14	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0632 MO 3.6 KW, 8 HP Gas Powered Generator Set.....	513.64	
For LP Or NG Gas, Add	64.21	
01 22 23 00-0633 DAY 5 KW, 11 HP Gas Powered Generator Set.....	72.86	
For LP Or NG Gas, Add	9.11	
01 22 23 00-0634 WK 5 KW, 11 HP Gas Powered Generator Set.....	232.93	
For LP Or NG Gas, Add	29.12	
01 22 23 00-0635 MO 5 KW, 11 HP Gas Powered Generator Set.....	531.55	
For LP Or NG Gas, Add	66.44	
01 22 23 00-0636 DAY 6.5 KW, 13 HP Gas Powered Generator Set.....	93.17	
For LP Or NG Gas, Add	11.65	
01 22 23 00-0637 WK 6.5 KW, 13 HP Gas Powered Generator Set.....	250.84	
For LP Or NG Gas, Add	31.36	
01 22 23 00-0638 MO 6.5 KW, 13 HP Gas Powered Generator Set.....	692.81	
For LP Or NG Gas, Add	86.60	
01 22 23 00-0639 DAY 10 KW, 18 HP Gas Powered Generator Set.....	103.92	
For LP Or NG Gas, Add	12.99	
01 22 23 00-0640 WK 10 KW, 18 HP Gas Powered Generator Set.....	280.71	
For LP Or NG Gas, Add	35.09	
01 22 23 00-0641 MO 10 KW, 18 HP Gas Powered Generator Set.....	806.29	
For LP Or NG Gas, Add	100.79	
01 22 23 00-0642 Towable, Diesel Powered Generator Sets <small>(01 22 23 00-0628)</small>		
Note: Includes 24 hour day-tank on sizes up to 180KW, 40 hour day-tank for sizes greater than 180KW To 300 KW and 1000 gallon for sizes greater than 300KW. Multi-voltage transformer unless stated otherwise, trailer mounted including sound attenuation and control panel. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0736 for reimbursable fuel fees.		
01 22 23 00-0643 DAY 20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	213.82	
Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	106.91	
For >16 To 24 Hours Usage Per Day, Add	213.82	
01 22 23 00-0644 WK 20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	559.03	
Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	279.52	
For >80 Hours Usage Per Week, Add	559.03	
01 22 23 00-0645 MO 20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,522.99	
Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	761.50	
For >320 Hours Usage Per Month, Add	1,522.99	
01 22 23 00-0646 DAY 30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	335.48	
Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	167.74	
For >16 To 24 Hours Usage Per Day, Add	335.48	
01 22 23 00-0647 WK 30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	995.62	
Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	497.81	
For >80 Hours Usage Per Week, Add	995.62	
01 22 23 00-0648 MO 30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,056.18	
Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,028.09	
For >320 Hours Usage Per Month, Add	2,056.18	
01 22 23 00-0649 DAY 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	367.95	
Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	183.98	
For >16 To 24 Hours Usage Per Day, Add	367.95	
01 22 23 00-0650 WK 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,028.09	
Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	514.05	
For >80 Hours Usage Per Week, Add	1,028.09	
01 22 23 00-0651 MO 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,272.62	
Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,136.31	
For >320 Hours Usage Per Month, Add	2,272.62	
01 22 23 00-0652 DAY 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	395.00	
Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	197.50	
For >16 To 24 Hours Usage Per Day, Add	395.00	
01 22 23 00-0653 WK 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,082.20	
Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	541.10	
For >80 Hours Usage Per Week, Add	1,082.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0654 MO 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,597.28	
Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,298.64	
For >320 Hours Usage Per Month, Add	2,597.28	
01 22 23 00-0655 DAY 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	432.88	
Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	216.44	
For >16 To 24 Hours Usage Per Day, Add	432.88	
01 22 23 00-0656 WK 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,228.30	
Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	614.15	
For >80 Hours Usage Per Week, Add	1,228.30	
01 22 23 00-0657 MO 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,921.94	
Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,460.97	
For >320 Hours Usage Per Month, Add	2,921.94	
01 22 23 00-0658 DAY 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	486.99	
Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	243.50	
For >16 To 24 Hours Usage Per Day, Add	486.99	
01 22 23 00-0659 WK 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,298.64	
Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	649.32	
For >80 Hours Usage Per Week, Add	1,298.64	
01 22 23 00-0660 MO 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,246.60	
Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,623.30	
For >320 Hours Usage Per Month, Add	3,246.60	
01 22 23 00-0661 DAY 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	503.22	
Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	251.61	
For >16 To 24 Hours Usage Per Day, Add	503.22	
01 22 23 00-0662 WK 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,352.75	
Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	676.38	
For >80 Hours Usage Per Week, Add	1,352.75	
01 22 23 00-0663 MO 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,679.48	
Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,839.74	
For >320 Hours Usage Per Month, Add	3,679.48	
01 22 23 00-0664 DAY 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	568.16	
Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	284.08	
For >16 To 24 Hours Usage Per Day, Add	568.16	
01 22 23 00-0665 WK 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,569.19	
Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	784.60	
For >80 Hours Usage Per Week, Add	1,569.19	
01 22 23 00-0666 MO 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,220.58	
Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,110.29	
For >320 Hours Usage Per Month, Add	4,220.58	
01 22 23 00-0667 DAY 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	595.21	
Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	297.61	
For >16 To 24 Hours Usage Per Day, Add	595.21	
01 22 23 00-0668 WK 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,650.36	
Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	825.18	
For >80 Hours Usage Per Week, Add	1,650.36	
01 22 23 00-0669 MO 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,653.46	
Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,326.73	
For >320 Hours Usage Per Month, Add	4,653.46	
01 22 23 00-0670 DAY 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	622.26	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	311.13	
For >16 To 24 Hours Usage Per Day, Add	622.26	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0671 WK 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,785.63	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	892.82	
For >80 Hours Usage Per Week, Add	1,785.63	
01 22 23 00-0672 MO 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,869.90	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,434.95	
For >320 Hours Usage Per Month, Add	4,869.90	
01 22 23 00-0673 DAY 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	649.32	
Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	324.66	
For >16 To 24 Hours Usage Per Day, Add	649.32	
01 22 23 00-0674 WK 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,893.85	
Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	946.93	
For >80 Hours Usage Per Week, Add	1,893.85	
01 22 23 00-0675 MO 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	5,086.34	
Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,543.17	
For >320 Hours Usage Per Month, Add	5,086.34	
01 22 23 00-0676 DAY 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	649.32	
Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	324.66	
For >16 To 24 Hours Usage Per Day, Add	649.32	
01 22 23 00-0677 WK 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,893.85	
Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	946.93	
For >80 Hours Usage Per Week, Add	1,893.85	
01 22 23 00-0678 MO 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	5,086.34	
Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,543.17	
For >320 Hours Usage Per Month, Add	5,086.34	
01 22 23 00-0679 DAY 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	892.82	
Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	446.41	
For >16 To 24 Hours Usage Per Day, Add	892.82	
01 22 23 00-0680 WK 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,218.51	
Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,109.26	
For >80 Hours Usage Per Week, Add	2,218.51	
01 22 23 00-0681 MO 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,493.20	
Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	3,246.60	
For >320 Hours Usage Per Month, Add	6,493.20	
01 22 23 00-0682 DAY 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	946.92	
Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	473.46	
For >16 To 24 Hours Usage Per Day, Add	946.92	
01 22 23 00-0683 WK 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,272.62	
Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,136.31	
For >80 Hours Usage Per Week, Add	2,272.62	
01 22 23 00-0684 MO 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,709.64	
Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	3,354.82	
For >320 Hours Usage Per Month, Add	6,709.64	
01 22 23 00-0685 DAY 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,001.04	
Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	500.52	
For >16 To 24 Hours Usage Per Day, Add	1,001.04	
01 22 23 00-0686 WK 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,326.73	
Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,163.37	
For >80 Hours Usage Per Week, Add	2,326.73	
01 22 23 00-0687 MO 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,926.08	
Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	3,463.04	
For >320 Hours Usage Per Month, Add	6,926.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0688 DAY 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i>	1,033.50 516.75 1,033.50	
01 22 23 00-0689 WK 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i>	2,489.06 1,244.53 2,489.06	
01 22 23 00-0690 MO 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i>	7,358.96 3,679.48 7,358.96	
01 22 23 00-0691 DAY 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i>	1,082.20 541.10 1,082.20	
01 22 23 00-0692 WK 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i>	2,813.72 1,406.86 2,813.72	
01 22 23 00-0693 MO 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i>	8,116.50 4,058.25 8,116.50	
01 22 23 00-0694 DAY 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i>	1,523.92 761.96 1,523.92	
01 22 23 00-0695 WK 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i>	3,940.06 1,970.03 3,940.06	
01 22 23 00-0696 MO 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i>	10,420.00 5,210.00 10,420.00	
01 22 23 00-0697 DAY 500.0 KW, 60 Hertz Container Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i>	1,953.75 976.88 1,953.75	
01 22 23 00-0698 WK 500.0 KW, 60 Hertz Container Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i>	5,079.75 2,539.88 5,079.75	
01 22 23 00-0699 MO 500.0 KW, 60 Hertz Container Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i>	11,722.50 5,861.25 11,722.50	
01 22 23 00-0700 DAY 640.0 KW, 60 Hertz Container Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i>	2,416.14 1,208.07 2,416.14	
01 22 23 00-0701 WK 640.0 KW, 60 Hertz Container Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i>	6,382.25 3,191.13 6,382.25	
01 22 23 00-0702 MO 640.0 KW, 60 Hertz Container Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> <i>For >320 Hours Usage Per Month, Add</i>	15,630.00 7,815.00 15,630.00	
01 22 23 00-0703 DAY 750.0 KW, 60 Hertz Container Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> <i>For >16 To 24 Hours Usage Per Day, Add</i>	2,611.51 1,305.76 2,611.51	
01 22 23 00-0704 WK 750.0 KW, 60 Hertz Container Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> <i>For >80 Hours Usage Per Week, Add</i>	6,017.55 3,008.78 6,017.55	

01	01	General Requirements
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0705 MO 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	18,052.65	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	9,026.33	
For >320 Hours Usage Per Month, Add	18,052.65	
01 22 23 00-0706 EA Up To 300 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....	868.60	
01 22 23 00-0707 EA 350 To 750 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....	1,412.55	
01 22 23 00-0708 Cabling For Generator Sets <small>(01 22 23 00-0628)</small>		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0709 DAY #1 Banded Cable, 50' With Camlock Ends For Generator Set.....	23.81	
01 22 23 00-0710 WK #1 Banded Cable, 50' With Camlock Ends For Generator Set.....	41.66	
01 22 23 00-0711 MO #1 Banded Cable, 50' With Camlock Ends For Generator Set.....	124.99	
01 22 23 00-0712 DAY 50', 4/0 Cable With Camlock Ends For Generator Set.....	11.90	
01 22 23 00-0713 WK 50', 4/0 Cable With Camlock Ends For Generator Set.....	34.63	
01 22 23 00-0714 MO 50', 4/0 Cable With Camlock Ends For Generator Set.....	96.32	
01 22 23 00-0715 Resistive Loadbanks For Generator Sets <small>(01 22 23 00-0628)</small>		
Note: Includes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0736 for reimbursable fuel fees.		
01 22 23 00-0716 DAY 100 KW A/C Resistive Loadbank.....	333.91	
01 22 23 00-0717 WK 100 KW A/C Resistive Loadbank.....	635.08	
01 22 23 00-0718 MO 100 KW A/C Resistive Loadbank.....	1,735.01	
01 22 23 00-0719 DAY 650 KW A/C Resistive Loadbank.....	656.54	
01 22 23 00-0720 WK 650 KW A/C Resistive Loadbank.....	1,755.74	
01 22 23 00-0721 MO 650 KW A/C Resistive Loadbank.....	4,476.38	
01 22 23 00-0722 Sub-Distribution Panels (Spider Box) For Generator Sets <small>(01 22 23 00-0628)</small>		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0723 DAY 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box).....	58.44	
01 22 23 00-0724 WK 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box).....	151.51	
01 22 23 00-0725 MO 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box).....	427.47	
01 22 23 00-0726 Portable Distribution Panels For Generator Sets <small>(01 22 23 00-0628)</small>		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0727 DAY 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel.....	129.86	
01 22 23 00-0728 WK 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel.....	351.72	
01 22 23 00-0729 MO 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel.....	984.80	
01 22 23 00-0730 DAY 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	106.06	
01 22 23 00-0731 WK 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	275.96	
01 22 23 00-0732 MO 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	784.60	
01 22 23 00-0733 DAY 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	135.28	
01 22 23 00-0734 WK 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	340.89	
01 22 23 00-0735 MO 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	925.28	
01 22 23 00-0736 Fuel Reimbursement For Generators <small>(01 22 23 00-0628)</small>		
01 22 23 00-0737 EA Fuel Reimbursement For Generators.....	1.00	
Note: Purchases made by the contractor for fuel will be reimbursed to the Contractor at the actual cost of the purchase, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The base cost of the purchase is \$1.00, quantity will adjust cost to actual purchase cost; i.e., quantity of 125 = \$125.00 purchase. If there are multiple purchases, each one shall be listed separately with a comment in the "note" block to identify the purchase.		
01 22 23 00-0738 Generator Accessories <small>(01 22 23 00-0628)</small>		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0739 Step Down Transformer <small>(01 22 23 00-0738)</small>		
01 22 23 00-0740 WK 75 KVA, 480-208 Volt, Step Down Transformer.....	319.25	
01 22 23 00-0741 MO 75 KVA, 480-208 Volt, Step Down Transformer.....	892.82	
01 22 23 00-0742 WK 150 KVA, 480-208 Volt, Step Down Transformer.....	511.88	
01 22 23 00-0743 MO 150 KVA, 480-208 Volt, Step Down Transformer.....	1,534.56	
01 22 23 00-0744 WK 225 KVA, 480-208 Volt, Step Down Transformer.....	681.79	
01 22 23 00-0745 MO 225 KVA, 480-208 Volt, Step Down Transformer.....	2,045.36	
01 22 23 00-0746 WK 500 KVA, 480-208 Volt, Step Down Transformer.....	811.65	
01 22 23 00-0747 MO 500 KVA, 480-208 Volt, Step Down Transformer.....	2,434.95	
01 22 23 00-0748 WK 1,000 KVA, 4,160/480 Volt, Step Down Transformer.....	1,212.06	
01 22 23 00-0749 MO 1,000 KVA, 4,160/480 Volt, Step Down Transformer.....	3,619.96	
01 22 23 00-0750 WK 1,500 KVA, 4,160/480 Volt, Step Down Transformer.....	1,969.60	
01 22 23 00-0751 MO 1,500 KVA, 4,160/480 Volt, Step Down Transformer.....	5,903.40	
01 22 23 00-0752 WK 2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer.....	2,272.62	
01 22 23 00-0753 MO 2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer.....	6,817.86	
01 22 23 00-0754 Portable Panel <small>(01 22 23 00-0738)</small>		
01 22 23 00-0755 WK 100 Amperes, Portable Panel.....	254.32	
01 22 23 00-0756 MO 100 Amperes, Portable Panel.....	649.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0757 WK 200 Amperes, Portable Panel.....	304.10	
01 22 23 00-0758 MO 200 Amperes, Portable Panel.....	811.65	
01 22 23 00-0759 WK 400 Amperes, Portable Panel.....	324.66	
01 22 23 00-0760 MO 400 Amperes, Portable Panel.....	973.98	
01 22 23 00-0761 Portable Fusible Disconnect (01 22 23 00-0738)		
01 22 23 00-0762 WK 100 - 200 Amperes, Portable Fusible Disconnect.....	113.63	
01 22 23 00-0763 MO 100 - 200 Amperes, Portable Fusible Disconnect.....	340.89	
01 22 23 00-0764 WK 300 - 400 Amperes, Portable Fusible Disconnect.....	227.26	
01 22 23 00-0765 MO 300 - 400 Amperes, Portable Fusible Disconnect.....	681.79	
01 22 23 00-0766 Portable Transfer Switch (01 22 23 00-0738)		
01 22 23 00-0767 WK 100 Amperes, 480 Volt, Portable Transfer Switch.....	340.89	
01 22 23 00-0768 MO 100 Amperes, 480 Volt, Portable Transfer Switch.....	1,022.68	
01 22 23 00-0769 WK 200 Amperes, 480 Volt, Portable Transfer Switch.....	454.52	
01 22 23 00-0770 MO 200 Amperes, 480 Volt, Portable Transfer Switch.....	1,363.57	
01 22 23 00-0771 WK 400 Amperes, 480 Volt, Portable Transfer Switch.....	568.16	
01 22 23 00-0772 MO 400 Amperes, 480 Volt, Portable Transfer Switch.....	1,704.46	
01 22 23 00-0773 Welding Machines (01 22 23 00-0613)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0774 CC/CV Inverter Welder (01 22 23 00-0773)		
Note: Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0736 for reimbursable fuel fees.		
01 22 23 00-0775 DAY 250 Amperes, CC Inverter Welder.....	40.85	
01 22 23 00-0776 WK 250 Amperes, CC Inverter Welder.....	89.00	
01 22 23 00-0777 MO 250 Amperes, CC Inverter Welder.....	269.92	
01 22 23 00-0778 DAY 300 Amperes, CC/CV Inverter Welder.....	46.69	
01 22 23 00-0779 WK 300 Amperes, CC/CV Inverter Welder.....	124.02	
01 22 23 00-0780 MO 300 Amperes, CC/CV Inverter Welder.....	328.28	
01 22 23 00-0781 DAY 350 Amperes, CC/CV Inverter Welder.....	48.15	
01 22 23 00-0782 WK 350 Amperes, CC/CV Inverter Welder.....	126.93	
01 22 23 00-0783 MO 350 Amperes, CC/CV Inverter Welder.....	357.46	
01 22 23 00-0784 MIG Welder (01 22 23 00-0773)		
Note: Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0736 for reimbursable fuel fees.		
01 22 23 00-0785 DAY 115 Volt MIG Welder.....	70.03	
01 22 23 00-0786 WK 115 Volt MIG Welder.....	182.38	
01 22 23 00-0787 MO 115 Volt MIG Welder.....	496.06	
01 22 23 00-0788 Diesel Powered Towable Welding Machines (01 22 23 00-0773)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0789 DAY 250 To 299 Amperes, Diesel Powered Towable Welding Machine.....	131.31	
01 22 23 00-0790 WK 250 To 299 Amperes, Diesel Powered Towable Welding Machine.....	320.98	
01 22 23 00-0791 MO 250 To 299 Amperes, Diesel Powered Towable Welding Machine.....	765.98	
01 22 23 00-0792 DAY 300 To 349 Amperes, Diesel Powered Towable Welding Machine.....	175.08	
01 22 23 00-0793 WK 300 To 349 Amperes, Diesel Powered Towable Welding Machine.....	342.86	
01 22 23 00-0794 MO 300 To 349 Amperes, Diesel Powered Towable Welding Machine.....	800.99	
01 22 23 00-0795 DAY 350 To 399 Amperes, Diesel Powered Towable Welding Machine.....	182.38	
01 22 23 00-0796 WK 350 To 399 Amperes, Diesel Powered Towable Welding Machine.....	364.75	
01 22 23 00-0797 MO 350 To 399 Amperes, Diesel Powered Towable Welding Machine.....	889.99	
01 22 23 00-0798 General Equipment (01 22 23)		
01 22 23 00-0799 Jacks And Bracing (01 22 23 00-0798)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0800 Manual Hydraulic Jacks (01 22 23 00-0799)		
01 22 23 00-0801 DAY 12 Ton Manual Hydraulic Bottle Jack.....	1.67	
01 22 23 00-0802 WK 12 Ton Manual Hydraulic Bottle Jack.....	7.93	
01 22 23 00-0803 MO 12 Ton Manual Hydraulic Bottle Jack.....	28.50	
01 22 23 00-0804 DAY 20 Ton Manual Hydraulic Bottle Jack.....	2.92	
01 22 23 00-0805 WK 20 Ton Manual Hydraulic Bottle Jack.....	9.18	
01 22 23 00-0806 MO 20 Ton Manual Hydraulic Bottle Jack.....	34.76	
01 22 23 00-0807 DAY 50 Ton Manual Hydraulic Bottle Jack.....	10.43	
01 22 23 00-0808 WK 50 Ton Manual Hydraulic Bottle Jack.....	40.49	
01 22 23 00-0809 MO 50 Ton Manual Hydraulic Bottle Jack.....	145.66	
01 22 23 00-0810 DAY 100 Ton Manual Hydraulic Bottle Jack.....	14.61	
01 22 23 00-0811 WK 100 Ton Manual Hydraulic Bottle Jack.....	58.43	
01 22 23 00-0812 MO 100 Ton Manual Hydraulic Bottle Jack.....	210.46	
01 22 23 00-0813 Manual Screw Jacks (01 22 23 00-0799)		
01 22 23 00-0814 DAY 10 To 20 Ton Manual Screw Jack.....	25.41	
01 22 23 00-0815 WK 10 To 20 Ton Manual Screw Jack.....	68.40	
01 22 23 00-0816 MO 10 To 20 Ton Manual Screw Jack.....	189.58	

01	01	General Requirements
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-0817

Pressure Washers (01 22 23 00-0798)

Note: Includes delivery to job site, pick-up when complete and full time operator.

01 22 23 00-0818	DAY 2,000 PSI Pressure Washer With Full-Time Operator	797.05	
	<i>For Equipment Without Operator, Deduct</i>	-629.86	
01 22 23 00-0819	WK 2,000 PSI Pressure Washer With Full-Time Operator	3,573.73	
	<i>For Equipment Without Operator, Deduct</i>	-3,149.32	
01 22 23 00-0820	MO 2,000 PSI Pressure Washer With Full-Time Operator	14,727.38	
	<i>For Equipment Without Operator, Deduct</i>	-13,647.06	
01 22 23 00-0821	DAY 2,500 PSI Pressure Washer With Full-Time Operator	771.10	
	<i>For Equipment Without Operator, Deduct</i>	-629.86	
01 22 23 00-0822	WK 2,500 PSI Pressure Washer With Full-Time Operator	3,507.86	
	<i>For Equipment Without Operator, Deduct</i>	-3,149.32	
01 22 23 00-0823	MO 2,500 PSI Pressure Washer With Full-Time Operator	14,559.72	
	<i>For Equipment Without Operator, Deduct</i>	-13,647.06	
01 22 23 00-0824	DAY 3,000 PSI Pressure Washer With Full-Time Operator	797.05	
	<i>For Equipment Without Operator, Deduct</i>	-629.86	
01 22 23 00-0825	WK 3,000 PSI Pressure Washer With Full-Time Operator	3,573.73	
	<i>For Equipment Without Operator, Deduct</i>	-3,149.32	
01 22 23 00-0826	MO 3,000 PSI Pressure Washer With Full-Time Operator	14,727.38	
	<i>For Equipment Without Operator, Deduct</i>	-13,647.06	
01 22 23 00-0827	DAY 3,500 PSI Pressure Washer With Full-Time Operator	781.97	
	<i>For Equipment Without Operator, Deduct</i>	-629.86	
01 22 23 00-0828	WK 3,500 PSI Pressure Washer With Full-Time Operator	3,540.46	
	<i>For Equipment Without Operator, Deduct</i>	-3,149.32	
01 22 23 00-0829	MO 3,500 PSI Pressure Washer With Full-Time Operator	14,646.64	
	<i>For Equipment Without Operator, Deduct</i>	-13,647.06	
01 22 23 00-0830	DAY 4,000 PSI Pressure Washer With Full-Time Operator	861.36	
	<i>For Equipment Without Operator, Deduct</i>	-629.86	
01 22 23 00-0831	WK 4,000 PSI Pressure Washer With Full-Time Operator	3,779.51	
	<i>For Equipment Without Operator, Deduct</i>	-3,149.32	
01 22 23 00-0832	MO 4,000 PSI Pressure Washer With Full-Time Operator	15,409.02	
	<i>For Equipment Without Operator, Deduct</i>	-13,647.06	
01 22 23 00-0833	DAY 5,000 PSI Pressure Washer With Full-Time Operator	847.16	
	<i>For Equipment Without Operator, Deduct</i>	-629.86	
01 22 23 00-0834	WK 5,000 PSI Pressure Washer With Full-Time Operator	3,736.03	
	<i>For Equipment Without Operator, Deduct</i>	-3,149.32	
01 22 23 00-0835	MO 5,000 PSI Pressure Washer With Full-Time Operator	15,298.54	
	<i>For Equipment Without Operator, Deduct</i>	-13,647.06	

01 22 23 00-0836

Confined Space Entry Equipment (01 22 23 00-0798)

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

01 22 23 00-0837	DAY Ventilation Equipment For Confined Space	39.99	
	Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0838	WK Ventilation Equipment For Confined Space	119.96	
	Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0839	MO Ventilation Equipment For Confined Space	357.99	
	Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0840	DAY Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	59.44	
01 22 23 00-0841	WK Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	178.31	
01 22 23 00-0842	MO Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	534.93	
01 22 23 00-0843	DAY Confined Space Air Monitor Personnel	807.07	
	Note: Per person day.		

01 22 23 00-0844

Mowers (01 22 23 00-0798)

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

01 22 23 00-0845	DAY 21" Walk Behind Lawn Mower	86.92	
01 22 23 00-0846	WK 21" Walk Behind Lawn Mower	249.90	
01 22 23 00-0847	MO 21" Walk Behind Lawn Mower	510.66	
01 22 23 00-0848	DAY 32" Walk Behind Lawn Mower	108.65	
01 22 23 00-0849	WK 32" Walk Behind Lawn Mower	260.76	
01 22 23 00-0850	MO 32" Walk Behind Lawn Mower	543.25	
01 22 23 00-0851	DAY 36" To 48" Walk Behind Deck Mower	195.57	
01 22 23 00-0852	WK 36" To 48" Walk Behind Deck Mower	543.25	
01 22 23 00-0853	MO 36" To 48" Walk Behind Deck Mower	1,575.42	
01 22 23 00-0854	DAY 61" To 72" Walk Behind Deck Mower	195.57	
01 22 23 00-0855	WK 61" To 72" Walk Behind Deck Mower	543.25	
01 22 23 00-0856	MO 61" To 72" Walk Behind Deck Mower	1,575.42	

01 22 23 00-0857

Material Handling Equipment (01 22 23)

01 22 23 00-0858

Truck Mounted Hydraulic Cranes (01 22 23 00-0857)

Note: Includes full-time operator, delivery, set-up, rigging, and removal time in rental period. Excludes lattice boom extension.

01 22 23 00-0859	DAY 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,321.41	
	<i>For Equipment Without Operator, Deduct</i>	-871.45	
01 22 23 00-0860	WK 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	5,720.34	
	<i>For Equipment Without Operator, Deduct</i>	-4,357.24	
01 22 23 00-0861	MO 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	22,983.93	
	<i>For Equipment Without Operator, Deduct</i>	-18,881.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0862 DAY 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,440.51	
For Equipment Without Operator, Deduct	-871.45	
01 22 23 00-0863 WK 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	6,074.35	
For Equipment Without Operator, Deduct	-4,357.24	
01 22 23 00-0864 MO 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	24,042.65	
For Equipment Without Operator, Deduct	-18,881.39	
01 22 23 00-0865 DAY 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,559.62	
For Equipment Without Operator, Deduct	-871.45	
01 22 23 00-0866 WK 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	6,428.36	
For Equipment Without Operator, Deduct	-4,357.24	
01 22 23 00-0867 MO 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	25,101.37	
For Equipment Without Operator, Deduct	-18,881.39	
01 22 23 00-0868 DAY 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,718.43	
For Equipment Without Operator, Deduct	-871.45	
01 22 23 00-0869 WK 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	6,904.78	
For Equipment Without Operator, Deduct	-4,357.24	
01 22 23 00-0870 MO 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	26,524.03	
For Equipment Without Operator, Deduct	-18,881.39	
01 22 23 00-0871 DAY 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	11,864.00	
For Equipment Without Operator, Deduct	-871.45	
01 22 23 00-0872 WK 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	7,890.72	
For Equipment Without Operator, Deduct	-4,357.24	
01 22 23 00-0873 MO 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	29,479.18	
For Equipment Without Operator, Deduct	-18,881.39	
01 22 23 00-0874 DAY 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,208.08	
For Equipment Without Operator, Deduct	-871.45	
01 22 23 00-0875 WK 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	9,121.48	
For Equipment Without Operator, Deduct	-4,357.24	
01 22 23 00-0876 MO 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	33,174.11	
For Equipment Without Operator, Deduct	-18,881.39	
01 22 23 00-0877 DAY 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,426.45	
For Equipment Without Operator, Deduct	-871.45	
01 22 23 00-0878 WK 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	9,889.05	
For Equipment Without Operator, Deduct	-4,357.24	
01 22 23 00-0879 MO 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	35,482.12	
For Equipment Without Operator, Deduct	-18,881.39	
01 22 23 00-0880 DAY 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,598.49	
For Equipment Without Operator, Deduct	-871.45	
01 22 23 00-0881 WK 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	10,511.05	
For Equipment Without Operator, Deduct	-4,357.24	
01 22 23 00-0882 MO 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	37,345.47	
For Equipment Without Operator, Deduct	-18,881.39	
01 22 23 00-0883 DAY 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,770.53	
For Equipment Without Operator, Deduct	-871.45	
01 22 23 00-0884 WK 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	11,133.05	
For Equipment Without Operator, Deduct	-4,357.24	
01 22 23 00-0885 MO 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	39,208.81	
For Equipment Without Operator, Deduct	-18,881.39	
01 22 23 00-0886 DAY 85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,883.02	
For Equipment Without Operator, Deduct	-871.45	
01 22 23 00-0887 WK 85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	11,516.83	
For Equipment Without Operator, Deduct	-4,357.24	
01 22 23 00-0888 MO 85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	40,373.41	
For Equipment Without Operator, Deduct	-18,881.39	
01 22 23 00-0889 DAY 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	3,035.21	
For Equipment Without Operator, Deduct	-871.45	
01 22 23 00-0890 WK 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	12,085.90	
For Equipment Without Operator, Deduct	-4,357.24	
01 22 23 00-0891 MO 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	42,067.36	
For Equipment Without Operator, Deduct	-18,881.39	
01 22 23 00-0892 DAY 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	3,524.87	
For Equipment Without Operator, Deduct	-871.45	
For Half Day Usage, Deduct	-1,061.37	
01 22 23 00-0893 WK 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	13,644.20	
For Equipment Without Operator, Deduct	-4,357.24	
01 22 23 00-0894 MO 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	46,742.27	
For Equipment Without Operator, Deduct	-18,881.39	
01 22 23 00-0895 DAY 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	3,862.33	
For Equipment Without Operator, Deduct	-871.45	
For Half Day Usage, Deduct	-1,196.35	
01 22 23 00-0896 WK 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	14,825.33	
For Equipment Without Operator, Deduct	-4,357.24	
01 22 23 00-0897 MO 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	50,285.67	
For Equipment Without Operator, Deduct	-18,881.39	
01 22 23 00-0898 DAY 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	4,471.10	
For Equipment Without Operator, Deduct	-871.45	
For Half Day Usage, Deduct	-1,439.86	
01 22 23 00-0899 WK 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	16,956.01	
For Equipment Without Operator, Deduct	-4,357.24	
01 22 23 00-0900 MO 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	56,677.69	
For Equipment Without Operator, Deduct	-18,881.39	
01 22 23 00-0901 DAY 200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	4,894.59	
For Equipment Without Operator, Deduct	-871.45	
For Half Day Usage, Deduct	-1,609.26	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0902	WK		200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	18,438.22	
			<i>For Equipment Without Operator, Deduct</i>	-4,357.24	
01 22 23 00-0903	MO		200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	61,124.32	
			<i>For Equipment Without Operator, Deduct</i>	-18,881.39	
01 22 23 00-0904			Cable Controlled Lattice Boom, Mechanical Cranes <small>(01 22 23 00-0857)</small>		
			Note: Includes full-time operator. Excludes delivery, set-up, and removal. See CSI section 01 71 13 00-0004 for lattice crane delivery.		
01 22 23 00-0905	DAY		75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	2,459.53	
			<i>For Equipment Without Operator, Deduct</i>	-871.45	
01 22 23 00-0906	WK		75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	10,021.39	
			<i>For Equipment Without Operator, Deduct</i>	-4,357.24	
01 22 23 00-0907	MO		75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	35,873.85	
			<i>For Equipment Without Operator, Deduct</i>	-18,881.39	
01 22 23 00-0908	DAY		100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	3,683.67	
			<i>For Equipment Without Operator, Deduct</i>	-871.45	
01 22 23 00-0909	WK		100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	12,059.43	
			<i>For Equipment Without Operator, Deduct</i>	-4,357.24	
01 22 23 00-0910	MO		100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	41,987.95	
			<i>For Equipment Without Operator, Deduct</i>	-18,881.39	
01 22 23 00-0911	DAY		125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	3,882.19	
			<i>For Equipment Without Operator, Deduct</i>	-871.45	
01 22 23 00-0912	WK		125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	13,508.55	
			<i>For Equipment Without Operator, Deduct</i>	-4,357.24	
01 22 23 00-0913	MO		125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	46,334.00	
			<i>For Equipment Without Operator, Deduct</i>	-18,881.39	
01 22 23 00-0914	DAY		150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	4,279.21	
			<i>For Equipment Without Operator, Deduct</i>	-871.45	
01 22 23 00-0915	WK		150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	14,957.67	
			<i>For Equipment Without Operator, Deduct</i>	-4,357.24	
01 22 23 00-0916	MO		150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	50,674.75	
			<i>For Equipment Without Operator, Deduct</i>	-18,881.39	
01 22 23 00-0917	DAY		200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	4,467.79	
			<i>For Equipment Without Operator, Deduct</i>	-871.45	
01 22 23 00-0918	WK		200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	16,406.80	
			<i>For Equipment Without Operator, Deduct</i>	-4,357.24	
01 22 23 00-0919	MO		200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	55,026.09	
			<i>For Equipment Without Operator, Deduct</i>	-18,881.39	
01 22 23 00-0920	DAY		250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	4,656.37	
			<i>For Equipment Without Operator, Deduct</i>	-871.45	
01 22 23 00-0921	WK		250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	17,855.92	
			<i>For Equipment Without Operator, Deduct</i>	-4,357.24	
01 22 23 00-0922	MO		250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	59,377.43	
			<i>For Equipment Without Operator, Deduct</i>	-18,881.39	
01 22 23 00-0923	DAY		300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	5,278.37	
			<i>For Equipment Without Operator, Deduct</i>	-871.45	
01 22 23 00-0924	WK		300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	20,085.85	
			<i>For Equipment Without Operator, Deduct</i>	-4,357.24	
01 22 23 00-0925	MO		300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	66,057.95	
			<i>For Equipment Without Operator, Deduct</i>	-18,881.39	
01 22 23 00-0926	DAY		500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	9,103.00	
			<i>For Equipment Without Operator, Deduct</i>	-871.45	
01 22 23 00-0927	WK		500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	33,716.87	
			<i>For Equipment Without Operator, Deduct</i>	-4,357.24	
01 22 23 00-0928	MO		500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	106,966.89	
			<i>For Equipment Without Operator, Deduct</i>	-18,881.39	
01 22 23 00-0929			Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklifts <small>(01 22 23 00-0857)</small>		
			Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0930	DAY		5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	1,431.64	
			<i>For Equipment Without Operator, Deduct</i>	-807.07	
01 22 23 00-0931	WK		5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	5,563.88	
			<i>For Equipment Without Operator, Deduct</i>	-4,035.33	
01 22 23 00-0932	MO		5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	20,773.62	
			<i>For Equipment Without Operator, Deduct</i>	-17,486.42	
01 22 23 00-0933	DAY		6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	1,497.38	
			<i>For Equipment Without Operator, Deduct</i>	-807.07	
01 22 23 00-0934	WK		6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	5,711.80	
			<i>For Equipment Without Operator, Deduct</i>	-4,035.33	
01 22 23 00-0935	MO		6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	21,102.34	
			<i>For Equipment Without Operator, Deduct</i>	-17,486.42	
01 22 23 00-0936	DAY		8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	1,480.95	
			<i>For Equipment Without Operator, Deduct</i>	-807.07	
01 22 23 00-0937	WK		8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	5,785.76	
			<i>For Equipment Without Operator, Deduct</i>	-4,035.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0938 MO 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	21,595.42	
<i>For Equipment Without Operator, Deduct</i>	-17,486.42	
01 22 23 00-0939 DAY 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,669.96	
<i>For Equipment Without Operator, Deduct</i>	-807.07	
01 22 23 00-0940 WK 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	6,278.84	
<i>For Equipment Without Operator, Deduct</i>	-4,035.33	
01 22 23 00-0941 MO 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	22,745.94	
<i>For Equipment Without Operator, Deduct</i>	-17,486.42	
01 22 23 00-0942 Straight Mast, Rough Terrain Construction Forklifts <small>(01 22 23 00-0857)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0943 DAY 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,213.04	
<i>For Equipment Without Operator, Deduct</i>	-807.07	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	81.19	
01 22 23 00-0944 WK 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	5,143.94	
<i>For Equipment Without Operator, Deduct</i>	-4,035.33	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	221.72	
01 22 23 00-0945 MO 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	20,023.73	
<i>For Equipment Without Operator, Deduct</i>	-17,486.42	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	507.46	
01 22 23 00-0946 DAY 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,234.41	
<i>For Equipment Without Operator, Deduct</i>	-807.07	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	85.47	
01 22 23 00-0947 WK 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	5,202.29	
<i>For Equipment Without Operator, Deduct</i>	-4,035.33	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	233.39	
01 22 23 00-0948 MO 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	20,157.27	
<i>For Equipment Without Operator, Deduct</i>	-17,486.42	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	534.17	
01 22 23 00-0949 DAY 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,349.46	
<i>For Equipment Without Operator, Deduct</i>	-807.07	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	108.48	
01 22 23 00-0950 WK 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	5,522.79	
<i>For Equipment Without Operator, Deduct</i>	-4,035.33	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	297.49	
01 22 23 00-0951 MO 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	20,896.89	
<i>For Equipment Without Operator, Deduct</i>	-17,486.42	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	682.09	
01 22 23 00-0952 DAY 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,412.82	
<i>For Equipment Without Operator, Deduct</i>	-807.07	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	121.15	
01 22 23 00-0953 WK 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	5,495.34	
<i>For Equipment Without Operator, Deduct</i>	-4,035.33	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	292.00	
01 22 23 00-0954 MO 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	21,120.91	
<i>For Equipment Without Operator, Deduct</i>	-17,486.42	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	726.90	
01 22 23 00-0955 Straight Mast, Industrial Warehouse Forklifts <small>(01 22 23 00-0857)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0956 DAY 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,152.23	
<i>For Equipment Without Operator, Deduct</i>	-807.07	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	69.03	
01 22 23 00-0957 WK 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	4,824.26	
<i>For Equipment Without Operator, Deduct</i>	-4,035.33	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	157.79	
01 22 23 00-0958 MO 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	19,376.56	
<i>For Equipment Without Operator, Deduct</i>	-17,486.42	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	378.03	
01 22 23 00-0959 DAY 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,160.44	
<i>For Equipment Without Operator, Deduct</i>	-807.07	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	70.67	
01 22 23 00-0960 WK 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	4,848.91	
<i>For Equipment Without Operator, Deduct</i>	-4,035.33	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	162.72	
01 22 23 00-0961 MO 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	19,434.09	
<i>For Equipment Without Operator, Deduct</i>	-17,486.42	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	389.53	
01 22 23 00-0962 DAY 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,333.02	
<i>For Equipment Without Operator, Deduct</i>	-807.07	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	105.19	
01 22 23 00-0963 WK 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	5,226.94	
<i>For Equipment Without Operator, Deduct</i>	-4,035.33	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	238.32	
01 22 23 00-0964 MO 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	20,362.72	
<i>For Equipment Without Operator, Deduct</i>	-17,486.42	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	575.26	
01 22 23 00-0965 DAY 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,349.46	
<i>For Equipment Without Operator, Deduct</i>	-807.07	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	108.48	
01 22 23 00-0966 WK 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	5,366.65	
<i>For Equipment Without Operator, Deduct</i>	-4,035.33	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	266.26	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0967	MO		12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	20,855.80	
			<i>For Equipment Without Operator, Deduct</i>	-17,486.42	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	673.88	
01 22 23 00-0968	DAY		15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,497.38	
			<i>For Equipment Without Operator, Deduct</i>	-807.07	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	138.06	
01 22 23 00-0969	WK		15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	5,604.97	
			<i>For Equipment Without Operator, Deduct</i>	-4,035.33	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	313.93	
01 22 23 00-0970	MO		15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	21,266.70	
			<i>For Equipment Without Operator, Deduct</i>	-17,486.42	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	756.06	
01 22 23 00-0971			Chain Hoists <small>(01 22 23 00-0857)</small>		
			Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0972	DAY		1 Ton, 20' Lift, Manual Chain Hoist.....	12.52	
01 22 23 00-0973	WK		1 Ton, 20' Lift, Manual Chain Hoist.....	32.55	
01 22 23 00-0974	MO		1 Ton, 20' Lift, Manual Chain Hoist.....	96.40	
01 22 23 00-0975	DAY		3 Ton, 20' Lift, Manual Chain Hoist.....	35.06	
01 22 23 00-0976	WK		3 Ton, 20' Lift, Manual Chain Hoist.....	82.63	
01 22 23 00-0977	MO		3 Ton, 20' Lift, Manual Chain Hoist.....	231.62	
01 22 23 00-0978	DAY		5 Ton, 20' Lift, Manual Chain Hoist.....	45.07	
01 22 23 00-0979	WK		5 Ton, 20' Lift, Manual Chain Hoist.....	121.44	
01 22 23 00-0980	MO		5 Ton, 20' Lift, Manual Chain Hoist.....	338.04	
01 22 23 00-0981	DAY		2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	88.89	
01 22 23 00-0982	WK		2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	231.62	
01 22 23 00-0983	MO		2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	626.00	
01 22 23 00-0984	DAY		3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	90.14	
01 22 23 00-0985	WK		3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	241.01	
01 22 23 00-0986	MO		3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	657.30	
01 22 23 00-0987	DAY		5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	92.65	
01 22 23 00-0988	WK		5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	259.79	
01 22 23 00-0989	MO		5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	719.90	
01 22 23 00-0990			Roof Swing Hoist <small>(01 22 23 00-0857)</small>		
			Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0991	DAY		Up To 400#, Manual Swing Roof Hoist.....	92.92	
01 22 23 00-0992	WK		Up To 400#, Manual Swing Roof Hoist.....	325.20	
01 22 23 00-0993	MO		Up To 400#, Manual Swing Roof Hoist.....	1,114.98	
01 22 23 00-0994			Pumping Equipment <small>(01 22 23)</small>		
01 22 23 00-0995			Gas Powered Portable Centrifugal Pumps <small>(01 22 23 00-0994)</small>		
			Note: Includes delivery, set-up, and removal. Excludes operator. See CSI section 01 22 23 00-1019 for larger diameter pumps.		
01 22 23 00-0996	DAY		8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump.....	68.52	
01 22 23 00-0997	WK		8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump.....	154.16	
01 22 23 00-0998	MO		8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump.....	411.10	
01 22 23 00-0999	DAY		16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump.....	82.22	
01 22 23 00-1000	WK		16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump.....	184.99	
01 22 23 00-1001	MO		16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump.....	493.32	
01 22 23 00-1002			Gas Powered Portable Diaphragm Pumps <small>(01 22 23 00-0994)</small>		
			Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1003	DAY		3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump.....	78.79	
01 22 23 00-1004	WK		3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump.....	222.68	
01 22 23 00-1005	MO		3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump.....	565.26	
01 22 23 00-1006	DAY		5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump.....	95.92	
01 22 23 00-1007	WK		5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump.....	256.94	
01 22 23 00-1008	MO		5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump.....	727.98	
01 22 23 00-1009			Gas Powered Portable Trash Pumps <small>(01 22 23 00-0994)</small>		
			Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1010	DAY		12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	99.35	
01 22 23 00-1011	WK		12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	205.55	
01 22 23 00-1012	MO		12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	616.64	
01 22 23 00-1013	DAY		25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	99.35	
01 22 23 00-1014	WK		25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	265.50	
01 22 23 00-1015	MO		25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	727.98	
01 22 23 00-1016	DAY		35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	157.59	
01 22 23 00-1017	WK		35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	445.35	
01 22 23 00-1018	MO		35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	1,293.24	
01 22 23 00-1019			Diesel Powered Portable Trash Pumps <small>(01 22 23 00-0994)</small>		
			Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1020	DAY		63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump.....	308.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1021 WK 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	839.32	
01 22 23 00-1022 MO 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	3,657.04	
01 22 23 00-1023 DAY 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	471.05	
01 22 23 00-1024 WK 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,233.29	
01 22 23 00-1025 MO 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	3,280.20	
01 22 23 00-1026 DAY 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	640.62	
01 22 23 00-1027 WK 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,714.61	
01 22 23 00-1028 MO 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	4,587.15	
01 22 23 00-1029 DAY 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	829.04	
01 22 23 00-1030 WK 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	2,117.14	
01 22 23 00-1031 MO 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	6,217.83	
01 22 23 00-1032 Diesel Powered Portable Silenced Environmental Trash Pumps (01 22 23 00-0994)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1033 DAY 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	440.22	
01 22 23 00-1034 WK 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	1,002.05	
01 22 23 00-1035 MO 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	3,124.33	
01 22 23 00-1036 DAY 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	539.56	
01 22 23 00-1037 WK 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	1,344.63	
01 22 23 00-1038 MO 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	3,657.04	
01 22 23 00-1039 DAY 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	650.90	
01 22 23 00-1040 WK 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,925.30	
01 22 23 00-1041 MO 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	5,369.94	
01 22 23 00-1042 DAY 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	979.78	
01 22 23 00-1043 WK 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	2,502.55	
01 22 23 00-1044 MO 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	7,348.34	
01 22 23 00-1045 3 Phase Electric Submersible Pumps (01 22 23 00-0994)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1046 DAY 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	171.29	
01 22 23 00-1047 WK 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	428.22	
01 22 23 00-1048 MO 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	1,284.68	
01 22 23 00-1049 DAY 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	226.10	
01 22 23 00-1050 WK 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	565.26	
01 22 23 00-1051 MO 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	1,695.77	
01 22 23 00-1052 Suction Hose With Couplings (01 22 23 00-0994)		
Note: Includes delivery, set-up, and removal.		
01 22 23 00-1053 DAY Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings.....	6.48	
01 22 23 00-1054 WK Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings.....	16.20	
01 22 23 00-1055 MO Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings.....	49.68	
01 22 23 00-1056 DAY 3" Inside Diameter, 20' Length, Suction Hose With Couplings.....	17.28	
01 22 23 00-1057 WK 3" Inside Diameter, 20' Length, Suction Hose With Couplings.....	44.28	
01 22 23 00-1058 MO 3" Inside Diameter, 20' Length, Suction Hose With Couplings.....	135.00	
01 22 23 00-1059 DAY 4" Inside Diameter, 20' Length, Suction Hose With Couplings.....	25.92	
01 22 23 00-1060 WK 4" Inside Diameter, 20' Length, Suction Hose With Couplings.....	65.88	
01 22 23 00-1061 MO 4" Inside Diameter, 20' Length, Suction Hose With Couplings.....	199.80	
01 22 23 00-1062 DAY 6" Inside Diameter, 20' Length, Suction Hose With Couplings.....	32.40	
01 22 23 00-1063 WK 6" Inside Diameter, 20' Length, Suction Hose With Couplings.....	81.00	
01 22 23 00-1064 MO 6" Inside Diameter, 20' Length, Suction Hose With Couplings.....	237.60	
01 22 23 00-1065 DAY 10" Inside Diameter, 20' Length, Suction Hose With Couplings.....	75.60	
01 22 23 00-1066 WK 10" Inside Diameter, 20' Length, Suction Hose With Couplings.....	194.40	
01 22 23 00-1067 MO 10" Inside Diameter, 20' Length, Suction Hose With Couplings.....	572.40	
01 22 23 00-1068 DAY 12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	101.52	
01 22 23 00-1069 WK 12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	221.40	
01 22 23 00-1070 MO 12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	664.20	
01 22 23 00-1071 Discharge Hose With Couplings (01 22 23 00-0994)		
Note: Includes delivery, set-up, and removal.		
01 22 23 00-1072 DAY 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	6.48	
01 22 23 00-1073 WK 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	16.20	
01 22 23 00-1074 MO 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	49.68	
01 22 23 00-1075 DAY 2" Inside Diameter, 50' Length, Discharge Hose With Couplings	7.56	
01 22 23 00-1076 WK 2" Inside Diameter, 50' Length, Discharge Hose With Couplings	18.36	
01 22 23 00-1077 MO 2" Inside Diameter, 50' Length, Discharge Hose With Couplings	57.24	
01 22 23 00-1078 DAY 3" Inside Diameter, 50' Length, Discharge Hose With Couplings	8.64	
01 22 23 00-1079 WK 3" Inside Diameter, 50' Length, Discharge Hose With Couplings	21.60	
01 22 23 00-1080 MO 3" Inside Diameter, 50' Length, Discharge Hose With Couplings	65.88	
01 22 23 00-1081 DAY 4" Inside Diameter, 50' Length, Discharge Hose With Couplings	22.68	
01 22 23 00-1082 WK 4" Inside Diameter, 50' Length, Discharge Hose With Couplings	58.32	
01 22 23 00-1083 MO 4" Inside Diameter, 50' Length, Discharge Hose With Couplings	167.40	
01 22 23 00-1084 DAY 6" Inside Diameter, 50' Length, Discharge Hose With Couplings	28.08	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-1085	WK	6"	Inside Diameter, 50' Length, Discharge Hose With Couplings.....	76.68	
01 22 23 00-1086	MO	6"	Inside Diameter, 50' Length, Discharge Hose With Couplings.....	210.60	
01 22 23 00-1087	DAY	10"	Inside Diameter, 10' Length, Discharge Hose With Couplings.....	21.60	
01 22 23 00-1088	WK	10"	Inside Diameter, 10' Length, Discharge Hose With Couplings.....	54.00	
01 22 23 00-1089	MO	10"	Inside Diameter, 10' Length, Discharge Hose With Couplings.....	162.00	
01 22 23 00-1090	DAY	12"	Inside Diameter, 10' Length, Discharge Hose With Couplings.....	55.08	
01 22 23 00-1091	WK	12"	Inside Diameter, 10' Length, Discharge Hose With Couplings.....	140.40	
01 22 23 00-1092	MO	12"	Inside Diameter, 10' Length, Discharge Hose With Couplings.....	415.80	

01 22 23 00-1093 Hydraulic Submersible Pumps (01 22 23 00-0994)

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

01 22 23 00-1094 Hydraulic Submersible Pumps (01 22 23 00-1093)

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

01 22 23 00-1095	DAY	60,000	GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump.....	113.05	
01 22 23 00-1096	WK	60,000	GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump.....	303.18	
01 22 23 00-1097	MO	60,000	GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump.....	847.89	
01 22 23 00-1098	DAY	132,000	GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump.....	143.88	
01 22 23 00-1099	WK	132,000	GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump.....	369.99	
01 22 23 00-1100	MO	132,000	GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump.....	1,130.51	

01 22 23 00-1101 Hydraulic Submersible Pump Diesel Power Packs (01 22 23 00-1093)

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

01 22 23 00-1102	DAY	100	HP, Hydraulic Submersible Pump Diesel Power Pack.....	261.22	
01 22 23 00-1103	WK	100	HP, Hydraulic Submersible Pump Diesel Power Pack.....	779.37	
01 22 23 00-1104	MO	100	HP, Hydraulic Submersible Pump Diesel Power Pack.....	2,055.48	

01 22 23 00-1105 HDPE Pipe With Couplings (01 22 23 00-0994)

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

01 22 23 00-1106	DAY	4" x 20'	HDPE Pipe With Couplings.....	14.75	
01 22 23 00-1107	WK	4" x 20'	HDPE Pipe With Couplings.....	35.40	
01 22 23 00-1108	MO	4" x 20'	HDPE Pipe With Couplings.....	109.15	
01 22 23 00-1109	DAY	6" x 20'	HDPE Pipe With Couplings.....	23.60	
01 22 23 00-1110	WK	6" x 20'	HDPE Pipe With Couplings.....	59.00	
01 22 23 00-1111	MO	6" x 20'	HDPE Pipe With Couplings.....	179.95	
01 22 23 00-1112	DAY	8" x 20'	HDPE Pipe With Couplings.....	38.35	
01 22 23 00-1113	WK	8" x 20'	HDPE Pipe With Couplings.....	100.30	
01 22 23 00-1114	MO	8" x 20'	HDPE Pipe With Couplings.....	297.95	
01 22 23 00-1115	DAY	10" x 20'	HDPE Pipe With Couplings.....	47.20	
01 22 23 00-1116	WK	10" x 20'	HDPE Pipe With Couplings.....	120.95	
01 22 23 00-1117	MO	10" x 20'	HDPE Pipe With Couplings.....	368.75	
01 22 23 00-1118	DAY	12" x 10'	HDPE Pipe With Couplings.....	35.40	
01 22 23 00-1119	WK	12" x 10'	HDPE Pipe With Couplings.....	97.35	
01 22 23 00-1120	MO	12" x 10'	HDPE Pipe With Couplings.....	295.00	
01 22 23 00-1121	DAY	4" Elbow For HDPE Pipe, Quick Connect.....	35.40		
01 22 23 00-1122	WK	4" Elbow For HDPE Pipe, Quick Connect.....	91.45		
01 22 23 00-1123	MO	4" Elbow For HDPE Pipe, Quick Connect.....	271.40		
01 22 23 00-1124	DAY	6" Elbow For HDPE Pipe, Quick Connect.....	41.30		
01 22 23 00-1125	WK	6" Elbow For HDPE Pipe, Quick Connect.....	106.20		
01 22 23 00-1126	MO	6" Elbow For HDPE Pipe, Quick Connect.....	324.50		
01 22 23 00-1127	DAY	8" Elbow For HDPE Pipe, Quick Connect.....	47.20		
01 22 23 00-1128	WK	8" Elbow For HDPE Pipe, Quick Connect.....	120.95		
01 22 23 00-1129	MO	8" Elbow For HDPE Pipe, Quick Connect.....	368.75		
01 22 23 00-1130	DAY	10" Elbow For HDPE Pipe, Quick Connect.....	59.00		
01 22 23 00-1131	WK	10" Elbow For HDPE Pipe, Quick Connect.....	150.45		
01 22 23 00-1132	MO	10" Elbow For HDPE Pipe, Quick Connect.....	457.25		
01 22 23 00-1133	DAY	12" Elbow For HDPE Pipe, Quick Connect.....	59.00		
01 22 23 00-1134	WK	12" Elbow For HDPE Pipe, Quick Connect.....	150.45		
01 22 23 00-1135	MO	12" Elbow For HDPE Pipe, Quick Connect.....	457.25		
01 22 23 00-1136	DAY	4" Tee For HDPE Pipe, Quick Connect.....	35.40		
01 22 23 00-1137	WK	4" Tee For HDPE Pipe, Quick Connect.....	91.45		
01 22 23 00-1138	MO	4" Tee For HDPE Pipe, Quick Connect.....	271.40		
01 22 23 00-1139	DAY	6" Tee For HDPE Pipe, Quick Connect.....	47.20		
01 22 23 00-1140	WK	6" Tee For HDPE Pipe, Quick Connect.....	120.95		
01 22 23 00-1141	MO	6" Tee For HDPE Pipe, Quick Connect.....	368.75		
01 22 23 00-1142	DAY	8" Tee For HDPE Pipe, Quick Connect.....	59.00		
01 22 23 00-1143	WK	8" Tee For HDPE Pipe, Quick Connect.....	150.45		
01 22 23 00-1144	MO	8" Tee For HDPE Pipe, Quick Connect.....	457.25		
01 22 23 00-1145	DAY	10" Tee For HDPE Pipe, Quick Connect.....	70.80		
01 22 23 00-1146	WK	10" Tee For HDPE Pipe, Quick Connect.....	179.95		
01 22 23 00-1147	MO	10" Tee For HDPE Pipe, Quick Connect.....	545.75		
01 22 23 00-1148	DAY	12" Tee For HDPE Pipe, Quick Connect.....	70.80		
01 22 23 00-1149	WK	12" Tee For HDPE Pipe, Quick Connect.....	179.95		
01 22 23 00-1150	MO	12" Tee For HDPE Pipe, Quick Connect.....	545.75		
01 22 23 00-1151	DAY	4" Cap For HDPE Pipe, Quick Connect.....	5.90		
01 22 23 00-1152	WK	4" Cap For HDPE Pipe, Quick Connect.....	17.70		
01 22 23 00-1153	MO	4" Cap For HDPE Pipe, Quick Connect.....	53.10		
01 22 23 00-1154	DAY	6" Cap For HDPE Pipe, Quick Connect.....	5.90		
01 22 23 00-1155	WK	6" Cap For HDPE Pipe, Quick Connect.....	17.70		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				01 22 23 00-1156 MO 6" Cap For HDPE Pipe, Quick Connect.....	53.10	
				01 22 23 00-1157 DAY 8" Cap For HDPE Pipe, Quick Connect.....	5.90	
				01 22 23 00-1158 WK 8" Cap For HDPE Pipe, Quick Connect.....	17.70	
				01 22 23 00-1159 MO 8" Cap For HDPE Pipe, Quick Connect.....	53.10	
				01 22 23 00-1160 DAY 10" Cap For HDPE Pipe, Quick Connect.....	5.90	
				01 22 23 00-1161 WK 10" Cap For HDPE Pipe, Quick Connect.....	17.70	
				01 22 23 00-1162 MO 10" Cap For HDPE Pipe, Quick Connect.....	53.10	
				01 22 23 00-1163 DAY 12" Cap For HDPE Pipe, Quick Connect.....	5.90	
				01 22 23 00-1164 WK 12" Cap For HDPE Pipe, Quick Connect.....	17.70	
				01 22 23 00-1165 MO 12" Cap For HDPE Pipe, Quick Connect.....	53.10	
				01 22 23 00-1166 DAY 4" Wye For HDPE Pipe, Quick Connect.....	17.70	
				01 22 23 00-1167 WK 4" Wye For HDPE Pipe, Quick Connect.....	44.25	
				01 22 23 00-1168 MO 4" Wye For HDPE Pipe, Quick Connect.....	135.70	
				01 22 23 00-1169 DAY 6" Wye For HDPE Pipe, Quick Connect.....	20.65	
				01 22 23 00-1170 WK 6" Wye For HDPE Pipe, Quick Connect.....	53.10	
				01 22 23 00-1171 MO 6" Wye For HDPE Pipe, Quick Connect.....	162.25	
				01 22 23 00-1172 DAY 8" Wye For HDPE Pipe, Quick Connect.....	35.40	
				01 22 23 00-1173 WK 8" Wye For HDPE Pipe, Quick Connect.....	91.45	
				01 22 23 00-1174 MO 8" Wye For HDPE Pipe, Quick Connect.....	271.40	
				01 22 23 00-1175 DAY 10" Wye For HDPE Pipe, Quick Connect.....	53.10	
				01 22 23 00-1176 WK 10" Wye For HDPE Pipe, Quick Connect.....	135.70	
				01 22 23 00-1177 MO 10" Wye For HDPE Pipe, Quick Connect.....	413.00	
				01 22 23 00-1178 DAY 12" Wye For HDPE Pipe, Quick Connect.....	53.10	
				01 22 23 00-1179 WK 12" Wye For HDPE Pipe, Quick Connect.....	135.70	
				01 22 23 00-1180 MO 12" Wye For HDPE Pipe, Quick Connect.....	413.00	
				 01 22 23 00-1181 Truck And Trailer Equipment (01 22 23)		
				01 22 23 00-1182 Trucks (01 22 23 00-1181)		
				Note: Includes driver, delivery, and removal.		
				01 22 23 00-1183 Flat Bed Trucks (01 22 23 00-1182)		
				Note: Includes hydraulic tilt bed.		
				01 22 23 00-1184 DAY 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	928.15	
				For Equipment Without Operator, Deduct	-677.68	
				01 22 23 00-1185 WK 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	4,045.05	
				For Equipment Without Operator, Deduct	-3,388.41	
				01 22 23 00-1186 MO 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	16,341.65	
				For Equipment Without Operator, Deduct	-14,683.12	
				01 22 23 00-1187 DAY 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	1,036.46	
				For Equipment Without Operator, Deduct	-677.68	
				01 22 23 00-1188 WK 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	4,322.60	
				For Equipment Without Operator, Deduct	-3,388.41	
				01 22 23 00-1189 MO 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	17,052.44	
				For Equipment Without Operator, Deduct	-14,683.12	
				01 22 23 00-1190 DAY 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	1,114.18	
				For Equipment Without Operator, Deduct	-677.68	
				01 22 23 00-1191 WK 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	4,619.65	
				For Equipment Without Operator, Deduct	-3,388.41	
				01 22 23 00-1192 MO 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	18,182.95	
				For Equipment Without Operator, Deduct	-14,683.12	
				 01 22 23 00-1193 Light Off-Road Utility Passanger Vehicles (01 22 23 00-1182)		
				01 22 23 00-1194 DAY 4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle.....	279.06	
				01 22 23 00-1195 WK 4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle.....	645.32	
				01 22 23 00-1196 MO 4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle.....	1,395.28	
				01 22 23 00-1197 DAY 4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle.....	287.78	
				01 22 23 00-1198 WK 4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle.....	671.48	
				01 22 23 00-1199 MO 4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle.....	1,482.48	
				 01 22 23 00-1200 Light Duty Trucks (01 22 23 00-1182)		
				01 22 23 00-1201 DAY 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver.....	910.70	
				For Equipment Without Operator, Deduct	-670.83	
				01 22 23 00-1202 WK 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver.....	4,141.23	
				For Equipment Without Operator, Deduct	-3,354.15	
				01 22 23 00-1203 MO 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver.....	16,183.76	
				For Equipment Without Operator, Deduct	-14,534.64	
				01 22 23 00-1204 DAY 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver.....	955.68	
				For Equipment Without Operator, Deduct	-670.83	
				01 22 23 00-1205 WK 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver.....	4,276.16	
				For Equipment Without Operator, Deduct	-3,354.15	
				01 22 23 00-1206 MO 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver.....	16,483.60	
				For Equipment Without Operator, Deduct	-14,534.64	
				 01 22 23 00-1207 Boom Trucks (01 22 23 00-1182)		
				01 22 23 00-1208 DAY 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver.....	1,144.10	
				For Equipment Without Operator, Deduct	-677.68	
				01 22 23 00-1209 WK 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver.....	4,602.86	
				For Equipment Without Operator, Deduct	-3,388.41	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1210 MO 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	17,763.24 -14,683.12	
01 22 23 00-1211 Rear Dump Trucks (01 22 23 00-1182)		
01 22 23 00-1212 DAY 2.5 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	982.60 -677.68	
01 22 23 00-1213 WK 2.5 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,193.81 -3,388.41	
01 22 23 00-1214 MO 2.5 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	17,149.03 -14,683.12	
01 22 23 00-1215 DAY 4 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,083.69 -677.68	
01 22 23 00-1216 WK 4 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,507.02 -3,388.41	
01 22 23 00-1217 MO 4 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	17,583.22 -14,683.12	
01 22 23 00-1218 DAY 6 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,141.70 -677.68	
01 22 23 00-1219 WK 6 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,631.31 -3,388.41	
01 22 23 00-1220 MO 6 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	17,686.08 -14,683.12	
01 22 23 00-1221 DAY 13 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,829.43 -677.68	
01 22 23 00-1222 WK 13 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	6,048.22 -3,388.41	
01 22 23 00-1223 MO 13 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	21,643.36 -14,683.12	
01 22 23 00-1224 DAY 18 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,944.61 -677.68	
01 22 23 00-1225 WK 18 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	6,314.20 -3,388.41	
01 22 23 00-1226 MO 18 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	22,339.38 -14,683.12	
01 22 23 00-1227 Under-Bridge Inspection Trucks (01 22 23 00-1182)		
01 22 23 00-1228 DAY 40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,228.57 -677.68	
01 22 23 00-1229 WK 40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	19,223.46 -3,388.41	
01 22 23 00-1230 MO 40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	70,841.67 -14,683.12	
01 22 23 00-1231 DAY 50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,708.42 -677.68	
01 22 23 00-1232 WK 50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	20,183.16 -3,388.41	
01 22 23 00-1233 MO 50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	74,464.80 -14,683.12	
01 22 23 00-1234 DAY 60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,996.33 -677.68	
01 22 23 00-1235 WK 60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	21,622.71 -3,388.41	
01 22 23 00-1236 MO 60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	78,087.94 -14,683.12	
01 22 23 00-1237 DAY 75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	6,243.94 -677.68	
01 22 23 00-1238 WK 75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	27,380.91 -3,388.41	
01 22 23 00-1239 MO 75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	96,203.60 -14,683.12	
01 22 23 00-1240 Vacuum Trucks (01 22 23 00-1182)		
01 22 23 00-1241 DAY 1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,033.30 -677.68	
01 22 23 00-1242 WK 1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,448.31 -3,388.41	
01 22 23 00-1243 MO 1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	17,814.00 -14,683.12	
01 22 23 00-1244 DAY 5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,821.15 -677.68	
01 22 23 00-1245 WK 5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	6,832.07 -3,388.41	
01 22 23 00-1246 MO 5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	24,845.07 -14,683.12	
01 22 23 00-1247 Water Trucks (01 22 23 00-1182)		
Note: Includes pump and 1-1/2" Diameter x 50' water hose. See CSI section 01 22 23 00-1071 for additional discharge hose, 01 22 23 00-1277 for water trailer, 31 23 23 00-0001 for compaction water as required for earth/aggregate backfill.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1248 DAY 2,000 Gallon Water Truck With Full-Time Driver	1,305.25	
For Equipment Without Operator, Deduct	-677.68	
For Each 1,000 Gallon Of Purchased Water, Add	13.44	
01 22 23 00-1249 WK 2,000 Gallon Water Truck With Full-Time Driver	5,041.01	
For Equipment Without Operator, Deduct	-3,388.41	
For Each 1,000 Gallon Of Purchased Water, Add	13.44	
01 22 23 00-1250 MO 2,000 Gallon Water Truck With Full-Time Driver	18,588.00	
For Equipment Without Operator, Deduct	-14,683.12	
For Each 1,000 Gallon Of Purchased Water, Add	13.44	
01 22 23 00-1251 DAY 2,500 To 3,000 Gal Water Truck With Full-Time Operator	1,416.82	
For Equipment Without Operator, Deduct	-677.68	
For Each 1,000 Gallon Of Purchased Water, Add	13.44	
01 22 23 00-1252 WK 2,500 To 3,000 Gal Water Truck With Full-Time Operator	5,815.01	
For Equipment Without Operator, Deduct	-3,388.41	
For Each 1,000 Gallon Of Purchased Water, Add	13.44	
01 22 23 00-1253 MO 2,500 To 3,000 Gal Water Truck With Full-Time Operator	20,728.71	
For Equipment Without Operator, Deduct	-14,683.12	
For Each 1,000 Gallon Of Purchased Water, Add	13.44	
01 22 23 00-1254 DAY 3,700 To 4,000 Gallon Water Truck With Full-Time Driver	1,612.06	
For Equipment Without Operator, Deduct	-677.68	
For Each 1,000 Gallon Of Purchased Water, Add	13.44	
01 22 23 00-1255 WK 3,700 To 4,000 Gallon Water Truck With Full-Time Driver	5,961.45	
For Equipment Without Operator, Deduct	-3,388.41	
For Each 1,000 Gallon Of Purchased Water, Add	13.44	
01 22 23 00-1256 MO 3,700 To 4,000 Gallon Water Truck With Full-Time Driver	20,958.82	
For Equipment Without Operator, Deduct	-14,683.12	
For Each 1,000 Gallon Of Purchased Water, Add	13.44	
01 22 23 00-1257 Asphalt Distribution Trucks <small>(01 22 23 00-1182)</small>		
01 22 23 00-1258 DAY 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver	1,837.97	
For Equipment Without Operator, Deduct	-677.68	
01 22 23 00-1259 WK 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver	6,854.39	
For Equipment Without Operator, Deduct	-3,388.41	
01 22 23 00-1260 MO 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver	24,929.44	
For Equipment Without Operator, Deduct	-14,683.12	
01 22 23 00-1261 Traffic Control Truck With Mounted Impact Attenuators/Crash Cushions And Arrow Board <small>(01 22 23 00-1182)</small>		
01 22 23 00-1262 DAY Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	1,382.37	
For Equipment Without Operator, Deduct	-670.83	
01 22 23 00-1263 WK Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	5,454.09	
For Equipment Without Operator, Deduct	-3,354.15	
01 22 23 00-1264 MO Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	19,634.27	
For Equipment Without Operator, Deduct	-14,534.64	
01 22 23 00-1265 Vacuum Sweeper Trucks For Bridge Decks <small>(01 22 23 00-1182)</small>		
01 22 23 00-1266 DAY Vacuum Sweeper Truck, With Full-Time Truck Driver	1,821.15	
For Equipment Without Operator, Deduct	-677.68	
01 22 23 00-1267 WK Vacuum Sweeper Truck, With Full-Time Truck Driver	6,832.07	
For Equipment Without Operator, Deduct	-3,388.41	
01 22 23 00-1268 MO Vacuum Sweeper Truck, With Full-Time Truck Driver	24,845.07	
For Equipment Without Operator, Deduct	-14,683.12	
01 22 23 00-1269 Combination Jet/Vacuum Trucks <small>(01 22 23 00-1182)</small>		
01 22 23 00-1270 DAY 500 Gallon Water, 6 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	2,965.60	
For Equipment Without Operator, Deduct	-677.68	
01 22 23 00-1271 WK 500 Gallon Water, 6 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	14,098.66	
For Equipment Without Operator, Deduct	-3,388.41	
01 22 23 00-1272 DAY 1,000 Gallon Water, 10 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	3,364.84	
For Equipment Without Operator, Deduct	-677.68	
01 22 23 00-1273 WK 1,000 Gallon Water, 10 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	16,421.14	
For Equipment Without Operator, Deduct	-3,388.41	
01 22 23 00-1274 DAY 2,000 Gallon Water, 15 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	3,748.72	
For Equipment Without Operator, Deduct	-677.68	
01 22 23 00-1275 WK 2,000 Gallon Water, 15 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	18,743.61	
For Equipment Without Operator, Deduct	-3,388.41	
01 22 23 00-1276 Trailers <small>(01 22 23 00-1181)</small>		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-1277 Water Trailers With Pump <small>(01 22 23 00-1276)</small>		
01 22 23 00-1278 DAY 500 To 600 Gallon Water Trailer With Pump	160.38	
01 22 23 00-1279 WK 500 To 600 Gallon Water Trailer With Pump	411.41	
01 22 23 00-1280 MO 500 To 600 Gallon Water Trailer With Pump	1,101.73	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-1281	Trailer Mounted Equipment <small>(01 22 23 00-1181)</small>	
01 22 23 00-1282	Trailer Mounted Under-Bridge Aerial Access Platform <small>(01 22 23 00-1281)</small>	
	Note: Includes full-time operator. Excludes truck.	
01 22 23 00-1283	DAY Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator	2,666.88
	For Equipment Without Operator, Deduct	-677.68
01 22 23 00-1284	WK Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator	9,356.00
	For Equipment Without Operator, Deduct	-3,388.41
01 22 23 00-1285	MO Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator	31,259.76
	For Equipment Without Operator, Deduct	-14,683.12
01 22 23 00-1286	DAY Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator	2,865.80
	For Equipment Without Operator, Deduct	-677.68
01 22 23 00-1287	WK Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator	9,952.76
	For Equipment Without Operator, Deduct	-3,388.41
01 22 23 00-1288	MO Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator	32,917.42
	For Equipment Without Operator, Deduct	-14,683.12

01 22 23 00-1289	Trailer Mounted Bridge Stripping Buggy <small>(01 22 23 00-1281)</small>	
01 22 23 00-1290	DAY Trailer Mounted Bridge Overhang Stripping Buggy.....	225.72
01 22 23 00-1291	WK Trailer Mounted Bridge Overhang Stripping Buggy.....	677.19
01 22 23 00-1292	MO Trailer Mounted Bridge Overhang Stripping Buggy.....	1,881.01

01 22 23 00-1293	Portable Trailer Mounted, CCTV Camera Systems <small>(01 22 23 00-1281)</small>	
	Note: Includes trailer. Excludes truck.	
01 22 23 00-1294	MO Portable Trailer Mounted, Single Camera, CCTV Camera System.....	2,616.15
01 22 23 00-1295	MO Portable Trailer Mounted, Multi-Camera/Loud Speaker, CCTV Camera System.....	4,534.66

01 22 23 00-1296	CALTRANS Equipment Rental Rates <small>(01 22 23)</small>	
	Note: An appropriate labor surcharge will be established by the Division of Construction for work that is determined by the resident engineer to be covered by Longshoreman and Harbor Worker's Act. (These tasks will be requested specifically by the owner for miscellaneous work not covered in the Construction Task Catalog@)	
01 22 23 00-1297	EA CALTRANS Equipment Rental Rates, Reimbursable.....	1.00
	Note: Reimbursable Fees will be paid to the contractor for eligible costs. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee. Per https://dot.ca.gov/-/media/dot-media/programs/construction/documents/equipment-rental-rates-and-labor-surcharge/book_2020.pdf	

01 40 Quality Requirements (01)

01 45 Quality Control (01 40)

01 45 23 Testing and Inspecting Services (01 45)

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

01 45 23 00-0001	Soils/Aggregate Testing <small>(01 45 23)</small>	
01 45 23 00-0002	Field Soils Tests <small>(01 45 23 00-0001)</small>	
01 45 23 00-0003	EA Plasticity Index Soils Test, ASTM D-4318, Field Soils Test	318.06
01 45 23 00-0004	EA 4" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test	451.44
01 45 23 00-0005	EA 6" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test	513.00
01 45 23 00-0006	EA Resistance (R) Value Soils Test, CA 301, Field Soils Test	410.40
01 45 23 00-0007	EA Soils Classification Test, ASTM D-2487, Field Soils Test	615.60
01 45 23 00-0008	SET Cement Treated Base Laboratory Design, Soil Cement, Field Soils Test.....	1,230.81
01 45 23 00-0009	EA Moisture Content, Field Soils Test	46.16
01 45 23 00-0010	EA UBC Or Swell Test, Field Soils Test	161.69
01 45 23 00-0011	EA Proctor Compaction 4" Standard Mold ASTM D698, Field Soils Test.....	307.70
01 45 23 00-0012	EA Proctor Compaction 6" Standard Mold, Field Soils Test	384.63
01 45 23 00-0013	EA Density And Classification Test, Field Soils Test	123.08
01 45 23 00-0014	EA Percolation Test, Field Soils Test.....	307.70
01 45 23 00-0015	EA Infiltration Test, Field Soils Test.....	615.41

01 45 23 00-0016	Aggregate Testing <small>(01 45 23 00-0001)</small>	
01 45 23 00-0017	EA Coarse Aggregate Sieve Analysis Test, ASTM C-136, CA 202	102.60
01 45 23 00-0018	EA Fine Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	184.68
01 45 23 00-0019	EA Combined Aggregate Sieve Analysis Test, ASTM C-136, CA 202	256.50
01 45 23 00-0020	EA Sieve Analysis, Pit Run, ASTM C136	200.01
	Note: Includes wash.	
01 45 23 00-0021	EA Specific Special Gravity, Course, ASTM C127	162.98
	Note: Includes absorption test.	
01 45 23 00-0022	EA Special Gravity, Fine, ASTM C127	146.16
	Note: Includes absorption test.	
01 45 23 00-0023	EA Coarse Aggregate Bulk SSD Specific Gravity Test, ASTM C-128	217.30
01 45 23 00-0024	EA Fine Aggregate Bulk SSD Specific Gravity Test, ASTM C-128.....	205.20
01 45 23 00-0025	EA Aggregate Cleanness Value, ASTM C-128, CA 227	205.20
01 45 23 00-0026	EA Sand Equivalent, Average of 3 Tests, ASTM D2419, CA 217	153.90
01 45 23 00-0027	EA Fine Aggregate Durability Index, CA 229.....	164.16



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0028 EA Sodium And Magnesium Soundness, ASTM C88	430.79	
01 45 23 00-0029 EA Los Angeles Rattler, ASTM C-131, CA 211	328.32	
01 45 23 00-0030 EA Los Angeles Rattler, ASTM C-535	328.32	
01 45 23 00-0031 EA Unit Weight Of Aggregates, ASTM C29	92.34	
01 45 23 00-0032 EA Organic Impurities In Sand, ASTM C40	92.31	
01 45 23 00-0033 EA Crushed Particle, ASTM California Test Method	92.31	
01 45 23 00-0034 EA Clay Lump And Friable Particles, ASTM C142	184.62	
01 45 23 00-0035 Permeability Tests (01 45 23 00-0001)		
01 45 23 00-0036 In-Place Tests (01 45 23 00-0035)		
01 45 23 00-0037 EA Double Ring Infiltrometer Test, ASTM D3385	1,629.75	
01 45 23 00-0038 EA Unconfined Compressive Strength (Pocket Penetrometer) Test	76.93	
01 45 23 00-0039 Lab Tests (01 45 23 00-0035)		
01 45 23 00-0040 EA Falling Head Rigid Wall Consolidometer Technique CAE	760.55	
01 45 23 00-0041 EA Falling Head Permeability Test EPA-9100	760.55	
01 45 23 00-0042 EA Constant Head Permeability Test For Granular Soils, ASTM D2432	434.60	
01 45 23 00-0043 Concrete/Cement/Asphalt Testing (01 45 23)		
01 45 23 00-0044 Concrete Testing (01 45 23 00-0043)		
01 45 23 00-0045 EA Prepare 6 x 12 Concrete Cylinder And Deliver To Lab	23.06	
01 45 23 00-0046 EA 6 x 12 Cylinder Concrete Compression Test, ASTM C-39 Or ASTM D1633	65.19	
01 45 23 00-0047 EA Concrete Cores Compression Test, ASTM C-42	133.38	
01 45 23 00-0048 EA 6 x 6 x 18 Concrete Flexural Test, ASTM C-78	194.94	
01 45 23 00-0049 EA Unit Weight Of Concrete Cylinder, ASTM C-567	71.82	
01 45 23 00-0050 EA Concrete Mix Design Review	389.88	
01 45 23 00-0051 EA Trial Concrete Batch Prepared In Laboratory	923.40	
01 45 23 00-0052 EA Concrete Shrinkage, ASTM C-157 Modified	718.20	
01 45 23 00-0053 EA 6 x 12 Concrete Cylinder Splitting Tensile Test, ASTM C-496	110.81	
01 45 23 00-0054 EA Concrete Slump Test, ASTM C143	51.30	
01 45 23 00-0055 EA Concrete Air Content Test, ASTM C138, ASTM C173, Or ASTM C231	51.30	
01 45 23 00-0056 Cement Testing (01 45 23 00-0043)		
01 45 23 00-0057 EA Cement Grab Sample (CCR Title 24)	51.30	
Note: Includes sealing and storing 1 year.		
01 45 23 00-0058 EA 2" x 2" x 2" Cube Compression Test, All Type Materials	82.08	
01 45 23 00-0059 Asphaltic Concrete Testing (01 45 23 00-0043)		
01 45 23 00-0060 EA Hveem Asphaltic Concrete Stability Test, CA 366	102.60	
01 45 23 00-0061 EA Marshall Asphaltic Concrete Stability Test (3 Specimens), ASTM D-6926/6927	266.76	
01 45 23 00-0062 EA Stability Tests, Premixed, ASTM D1559	102.60	
01 45 23 00-0063 EA Stability Tests, Lab. Mixed, ASTM D1559	266.76	
01 45 23 00-0064 EA Swell Test, CA 305	123.12	
Note: Includes compaction.		
01 45 23 00-0065 EA % Asphalt Extraction Test, ASTM D-2172 B	307.80	
01 45 23 00-0066 EA Gradation On Extracted Sample, ASTM D-5444	205.20	
01 45 23 00-0067 EA Maximum Theoretical Unit Weight, ASTM C2041	195.57	
01 45 23 00-0068 EA Unit Weight Sample Requiring Compaction, California Test Method 308	41.04	
01 45 23 00-0069 EA Asphalt Unit Weight On Core Test, CA 308C	41.04	
01 45 23 00-0070 HR Nuclear Field Density Testing, 4 Hour Minimum	211.36	
01 45 23 00-0071 EA Asphalt Film Stripping Test, CTM 302/AASHTO T182/ASTM D1664	138.47	
01 45 23 00-0072 EA Penetration, ASTM D5	148.22	
01 45 23 00-0073 Masonry/Concrete Block/Tile Testing (01 45 23)		
01 45 23 00-0074 Masonry Testing (01 45 23 00-0073)		
01 45 23 00-0075 EA 2" x 4" Cylinder Mortar Compression Test	67.72	
01 45 23 00-0076 EA 4" x 4" x 8" Grout Prisms Compression Test	67.72	
01 45 23 00-0077 EA Masonry Cores Compression Test	133.38	
01 45 23 00-0078 EA Composite Grouted Prism Compression Test	256.50	
01 45 23 00-0079 Concrete Block Testing (ASTM C140 Or CMA Per Specimen) (01 45 23 00-0073)		
01 45 23 00-0080 EA Up To 8" x 8" x 16" Concrete Block Compression Test, ASTM C-140	164.16	
01 45 23 00-0081 EA Absorption Test, Moisture Content And Unit Weight	112.86	
01 45 23 00-0082 EA First Unit, Moisture Condition By Relative Humidity, ASTM C427	430.79	
01 45 23 00-0083 EA Moisture Condition By Relative Humidity, ASTM C427, Additional Unit	215.39	
01 45 23 00-0084 Metals Testing (01 45 23)		
01 45 23 00-0085 Tank Tightness Testing (01 45 23 00-0084)		
01 45 23 00-0086 GAL Up To 20 Gallon, Hydrostatic Pressure Testing Of Air Receiving Tanks	7.79	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0087 GAL >20 To 120 Gallon, Hydrostatic Pressure Testing Of Air Receiving Tanks.....	6.68	
01 45 23 00-0088 EA Up To 12,000 Gallons, Tank Volumetric Tightness Testing.....	2,004.23	
01 45 23 00-0089 EA >12,000 To 29,999 Gallons, Tank Volumetric Tightness Testing.....	2,448.83	
01 45 23 00-0090 EA >29,999 Gallons, Tank Volumetric Tightness Testing.....	3,118.69	
01 45 23 00-0091 Tank Line Tightness Testing (01 45 23 00-0084)		
01 45 23 00-0092 EA Up To 12,000 Gallons, Tank Line Volumetric Tightness Testing.....	422.90	
01 45 23 00-0093 EA >12,000 To 29,999 Gallons, Tank Line Volumetric Tightness Testing.....	469.59	
01 45 23 00-0094 EA >29,999 Gallons, Tank Line Volumetric Tightness Testing.....	516.11	
01 45 23 00-0095 Other Testing (01 45 23)		
01 45 23 00-0096 Special Testing (01 45 23 00-0095)		
01 45 23 00-0097 EA Asphalt Roofing Cut-out Samples, To Determine Unit Weight.....	159.06	
01 45 23 00-0098 EA Complete Built-Up Roof Analysis, ASTM D2829 Or ASTM D3617.....	954.35	
01 45 23 00-0099 EA Bacteria Test (Total Coliform Bacteria And E. Coli Bacteria).....	47.98	
01 45 23 00-0100 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Caulk, Analysis Per Sample.....	198.90	
01 45 23 00-0101 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Soil, Analysis Per Sample.....	198.90	
01 45 23 00-0102 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) Using Wipe Sampling, Analysis Per Sample.....	198.90	
01 45 23 00-0103 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Air, Analysis Per Sample.....	1,093.95	
01 45 23 00-0104 EA Testing And Certification Of Backflow Valves.....	514.61	
01 45 23 00-0105 Nondestructive Field Testing Services (01 45 23 00-0095)		
01 45 23 00-0106 Infrared Thermography (01 45 23 00-0105)		
Note: The following tasks use certified infrared (IR) thermographers, such as Stockton Infrared Thermographic Services, Inc. and United Infrared, Inc., to scan for specific problems and produce a report on the findings. The contractor is entitled to the mobilization charge and the appropriate square foot or hourly task.		
01 45 23 00-0107 Concrete Block Wall Investigation Using Infrared Thermography (01 45 23 00-0106)		
Note: For investigating issues with grouted cells, bond beams and other structural components in concrete block walls.		
01 45 23 00-0108 EA Concrete Block Wall Investigation Using Infrared Thermography, Mobilization Charge.....	1,889.55	
01 45 23 00-0109 CSF Up To 50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography.....	5.97	
		0.90
<i>For Digital Or Analog Recording Of All Items, Add</i>		
01 45 23 00-0110 CSF >50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography.....	3.98	
		0.60
<i>For Digital Or Analog Recording Of All Items, Add</i>		
01 45 23 00-0111 Other Nondestructive Field Testing Services (01 45 23 00-0105)		
01 45 23 00-0112 HR ASNT Certified Level I NDT Consultant.....	88.00	
01 45 23 00-0113 HR ASNT Certified Level II NDT Consultant.....	109.75	
01 45 23 00-0114 HR ASNT Certified Level III NDT Consultant.....	125.95	
01 45 23 00-0115 HR Certified Industrial Radiography Radiation Safety Personnel.....	77.98	
01 45 29 Testing Laboratory Services (01 45)		
01 45 29 00-0001 Soil Borings Laboratory Tests (01 45 29)		
See CSI section 02 32 13 00-0000 for soil borings.		
01 45 29 00-0002 EA Atterberg Limits - Liquid Limits (LL) And Plastic Limits (PL), T89, T90, ASTM D4318, Soil Borings Laboratory Test.....	141.24	
01 45 29 00-0003 EA Shrinkage Limit, Soil Borings Laboratory Test.....	45.08	
01 45 29 00-0004 EA Unconfined Compressive Strength of Cohesive Soils, Soil Borings Laboratory Test.....	108.65	
01 45 29 00-0005 EA Consolidation, Soil Borings Laboratory Test.....	760.55	
01 45 29 00-0006 EA Swell Test, Soil Borings Laboratory Test.....	150.24	
01 45 29 00-0007 EA In Place Density, Soil Borings Laboratory Test.....	32.60	
01 45 29 00-0008 EA Moisture Content, ASTM D2216, Soil Borings Laboratory Test.....	20.25	
01 45 29 00-0009 EA Hydrometer Analysis, Soil Borings Laboratory Test.....	261.43	
01 45 29 00-0010 EA Specific Gravity, ASTM D854, Soil Borings Laboratory Test.....	91.17	
01 45 29 00-0011 EA Partial Sieve Analysis, Soil Borings Laboratory Test.....	18.03	
01 45 29 00-0012 EA Laboratory Permeability, Soil Borings Laboratory Test.....	901.51	
01 45 29 00-0013 EA Sieve Analysis, ASTM D422, Soil Borings Laboratory Test.....	182.34	
01 45 29 00-0014 EA Sulfate Soundness, Soil Borings Laboratory Test.....	225.38	
01 45 29 00-0015 EA Los Angeles Abrasion, Soil Borings Laboratory Test.....	525.51	
01 45 29 00-0016 EA Soil Bearing Ratio, ASTM D1883.....	461.70	
01 45 29 00-0017 EA Compaction Test Subgrade, Soil Borings Laboratory Test.....	135.23	
01 45 29 00-0018 EA Compaction Test Base Course, Soil Borings Laboratory Test.....	114.41	
01 45 29 00-0019 EA In Place Density And Water Content Test By Nuclear Methods, ASTM D6938, Soil Borings Laboratory Test.....	444.66	
01 45 29 00-0020 EA Field Density Sand Cone, AASHTO T-191, ASTM D1556, Soil Borings Laboratory Test.....	69.12	
01 50 Temporary Facilities and Controls (01)		
Note: Tasks in this section shall be used as directed by owner.		
01 51 Temporary Utilities (01 50)		
01 51 13 Temporary Electricity (01 51)		
01 51 13 00-0001 Temporary Service Switch And/Or Building Feeder Switch (01 51 13)		
Note: Includes all connections and removal after use.		



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 51 13 00-0002 EA Temporary 30 Amperes, 240 Volt, NEMA 3R, Service Switch Or Building Feeder Switch With Fuses	817.27	
01 51 13 00-0003 EA Temporary 60 Amperes, 240 Volt, NEMA 3R, Service Switch Or Building Feeder Switch With Fuses	1,032.18	
01 51 13 00-0004 EA Temporary 100 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses	1,387.18	
01 51 13 00-0005 EA Temporary 200 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses	2,150.87	
01 51 13 00-0006 EA Temporary 400 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	3,949.85	
01 51 13 00-0007 EA Temporary 600 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	6,507.52	
01 51 13 00-0008 EA Temporary 800 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	8,951.27	
01 51 13 00-0009 EA Temporary 1,200 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	14,422.59	
01 51 13 00-0010 EA Temporary 2,000 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	20,064.71	
01 51 13 00-0011 Temporary 120/208 Volt Main Lug Panelboard Complete With Branch Fuses <small>(01 51 13)</small>		
<i>Note: Includes mounting on wall and removal after use.</i>		
01 51 13 00-0012 EA Temporary 100 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	1,444.46	
01 51 13 00-0013 EA Temporary 200 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	2,012.00	
01 51 13 00-0014 EA Temporary 400 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	3,149.36	
01 51 13 00-0015 EA Temporary 600 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	4,469.49	
01 51 13 00-0016 Temporary Conduit And Cable For Temporary Disconnect Switches And Temporary Panelboards <small>(01 51 13)</small>		
<i>Note: Includes all connections, fittings, supports and removal after use.</i>		
01 51 13 00-0017 LF Temporary SER Cable (Conduit As Required) For Temporary Disconnect Switches And Temporary Panelboards	10.96	
01 51 13 00-0018 LF Temporary Branch Circuit Conduit And Wiring For Temporary Disconnect Switches And Temporary Panelboards.....	12.01	
01 51 26 Temporary Lighting <small>(01 51)</small>		
01 51 26 00-0001 Temporary Lighting Devices <small>(01 51 26)</small>		
<i>Note: Includes removal after use.</i>		
01 51 26 00-0002 EA Temporary Exit Light.....	328.77	
01 51 26 00-0003 EA Temporary 10 Light String With Cages.....	110.01	
01 51 26 00-0004 EA Temporary High Bay Light.....	399.95	
01 52 Construction Facilities <small>(01 50)</small>		
<i>Note: Tasks in this section shall be used as directed by owner for owner's use.</i>		
01 52 13 Field Offices and Sheds <small>(01 52)</small>		
01 52 13 00-0001 Field Offices and Office Trailers <small>(01 52 13)</small>		
<i>Note: Excludes furniture, utility connections and service. Minimum 6 months rental.</i>		
01 52 13 00-0002 MO 8' x 24' Mobile Office, With Toilet.....	180.51	
For Each Delivery And Removal, Two Round Trips, Add	693.36	
For Each Set-Up (Block And Level), Add	420.89	
For Each Anchoring Into Dirt, Add	128.35	
For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
For Office Trailer Without Toilet, Deduct	-36.10	
01 52 13 00-0003 MO 8' x 32' Mobile Office, With Toilet.....	204.57	
For Each Delivery And Removal, Two Round Trips, Add	693.36	
For Each Set-Up (Block And Level), Add	420.89	
For Each Anchoring Into Dirt, Add	128.35	
For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
For Office Trailer Without Toilet, Deduct	-40.91	
01 52 13 00-0004 MO 10' x 36' Mobile Office, With Toilet.....	276.77	
For Each Delivery And Removal, Two Round Trips, Add	982.27	
For Each Set-Up (Block And Level), Add	686.71	
For Each Anchoring Into Dirt, Add	128.35	
For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
For Office Trailer Without Toilet, Deduct	-55.35	
01 52 13 00-0005 MO 10' x 40' Mobile Office, With Toilet.....	294.83	
For Each Delivery And Removal, Two Round Trips, Add	982.27	
For Each Set-Up (Block And Level), Add	686.71	
For Each Anchoring Into Dirt, Add	128.35	
For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
For Office Trailer Without Toilet, Deduct	-58.97	
01 52 13 00-0006 MO 10' x 44' Mobile Office, With Toilet.....	324.91	
For Each Delivery And Removal, Two Round Trips, Add	982.27	
For Each Set-Up (Block And Level), Add	686.71	
For Each Anchoring Into Dirt, Add	128.35	
For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
01 52 13 00-0007 MO 10' x 50' Mobile Office, With Toilet.....	342.96	
For Each Delivery And Removal, Two Round Trips, Add	982.27	
For Each Set-Up (Block And Level), Add	686.71	
For Each Anchoring Into Dirt, Add	128.35	
For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
01 52 13 00-0008 MO 12' x 32' Mobile Office, With Toilet.....	265.34	
For Each Anchoring Into Dirt, Add	128.35	
For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
For Each Delivery And Set-Up (Block And Level), Add	959.26	
For Each Knock-Down And Pick-Up, Add	764.26	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 13 00-0009 MO 12' x 44' Mobile Office, With Toilet.....	354.76	
For Each Delivery And Removal, Two Round Trips, Add	982.27	
For Each Set-Up (Block And Level), Add	686.71	
For Each Anchoring Into Dirt, Add	128.35	
For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
01 52 13 00-0010 MO 12' x 50' Mobile Office, With Toilet.....	403.13	
For Each Delivery And Removal, Two Round Trips, Add	982.27	
For Each Set-Up (Block And Level), Add	686.71	
For Each Anchoring Into Dirt, Add	128.35	
For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
01 52 13 00-0011 MO 12' x 60' Mobile Office, With Toilet.....	439.23	
For Each Delivery And Removal, Two Round Trips, Add	982.27	
For Each Set-Up (Block And Level), Add	686.71	
For Each Anchoring Into Dirt, Add	128.35	
For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
01 52 13 00-0012 MO 24' x 60' Modular Office, With Toilet.....	962.68	
For Each Delivery And Removal, Two Round Trips, Add	1,848.97	
For Each Set-Up (Block And Level), Add	1,107.60	
For Each Anchoring Into Dirt, Add	128.35	
For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
01 52 13 00-0013 MO 24' x 72' Modular Office, With Toilet.....	1,155.22	
For Each Delivery And Removal, Two Round Trips, Add	1,848.97	
For Each Set-Up (Block And Level), Add	1,107.60	
For Each Anchoring Into Dirt, Add	128.35	
For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
01 52 13 00-0014 MO 30' x 30' Modular Office, With Toilet.....	549.03	
For Each Delivery And Removal, Two Round Trips, Add	1,848.97	
For Each Set-Up (Block And Level), Add	1,107.60	
For Each Anchoring Into Dirt, Add	128.35	
For Each Anchoring Into Asphalt Or Concrete, Add	192.52	
01 52 13 00-0015 Accessories For Field Office Trailers (01 52 13)		
Note: Costs includes installation or placement in trailer.		
01 52 13 00-0016 MO Desk For Field Office Trailer.....	52.94	
01 52 13 00-0017 MO Rolling Desk Chair For Field Office Trailer.....	33.08	
01 52 13 00-0018 MO File Cabinet For Field Office Trailer.....	39.70	
01 52 13 00-0019 MO Table For Field Office Trailer.....	26.47	
01 52 13 00-0020 MO Folding Chair For Field Office Trailer.....	12.54	
01 52 13 00-0021 EA Phone Hook-Up For Field Office Trailer.....	145.57	
01 52 13 00-0022 MO Local Phone Service Per Phone Line For Field Office Trailer.....	92.64	
01 52 13 00-0023 MO Security System With Monitoring For Field Office Trailer.....	166.79	
01 52 13 00-0024 LF Perimeter Trailer Skirting For Field Office Trailer.....	15.41	
01 52 13 00-0025 LF Insulated Perimeter Trailer Skirting For Field Office Trailer.....	36.49	
01 52 13 00-0026 MO Steps For Field Office Trailer.....	44.92	
01 52 13 00-0027 MO Fax Machine For Field Office Trailer.....	66.17	
01 52 13 00-0028 MO Copier For Field Office Trailer.....	105.87	
01 52 13 00-0029 Storage Containers (01 52 13)		
01 52 13 00-0030 MO 8' x 8' x 10' Storage Container.....	221.38	
For Each Delivery And Removal, Two Round Trips, Add	176.76	
For >12 Months, Deduct	-66.41	
01 52 13 00-0031 MO 8' x 8' x 20' Storage Container.....	231.44	
For Each Delivery And Removal, Two Round Trips, Add	194.44	
For >12 Months, Deduct	-69.43	
01 52 13 00-0032 MO 8' x 8' x 40' Storage Container.....	273.70	
For Each Delivery And Removal, Two Round Trips, Add	391.59	
For >12 Months, Deduct	-82.11	
01 52 19 Sanitary Facilities (01 52)		
01 52 19 00-0001 Portable Toilets (01 52 19)		
Note: Includes set-up, servicing once per week and removal.		
01 52 19 00-0002 WK Portable Chemical Toilet.....	30.00	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	45.00	
01 52 19 00-0003 MO Portable Chemical Toilet.....	89.99	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	45.00	
01 52 19 00-0004 WK Americans With Disabilities Act Compliant Portable Chemical Toilet.....	35.78	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	45.00	
01 52 19 00-0005 MO Americans With Disabilities Act Compliant Portable Chemical Toilet.....	104.99	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	45.00	
01 52 19 00-0006 WK Two Station Portable Handwash.....	50.72	
For Each Delivery, Add	45.00	
01 52 19 00-0007 MO Two Station Portable Handwash.....	153.85	
For Each Delivery, Add	45.00	
01 52 19 00-0008 MO 6 Station, Portable Toilets, Multi Trailer.....	4,228.12	
Note: Includes women's room (3 toilets, 2 sinks) and men's room (1 toilet, 1 urinal and 1 sink)		
01 52 19 00-0009 WK Service 6 Station Trailer Restrooms, 3 Times Per Week.....	2,439.30	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 53 Temporary Construction (01 50)

01 53 16 Temporary Decking (01 53)

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

Note: Includes removal after use.

01 53 16 00-0002	SF	Temporary Wood Walkway, 3/4" Plywood On 2 x 6 Stringers	7.40	
01 53 16 00-0003	LF	Temporary Wooden Guardrail, 42" High, Posts, Handrail, And Intermediate Rail	33.83	
01 53 16 00-0004	LF	Temporary Wood Guardrail Base, 12" x 12" Timber Beam.....	13.99	
01 53 16 00-0005	RSR	Temporary Wood Stairs, Tread And Riser On 2" x 12" Stringers.....	24.73	

01 53 23 Temporary Ramps (01 53)

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

Note: Includes removal after use.

01 53 23 00-0002	SF	Temporary Plywood For Wheel Barrow Access.....	1.72	0.48
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01 54 Construction Aids (01 50)

01 54 09 Personnel Protection Equipment (01 54)

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

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

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

01 54 23 Temporary Scaffolding and Platforms (01 54)

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

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

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

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

01 54 23 00-0003	CCF	Scaffolding With Bracing Accessories - Area Based On 5' Wide Sections (CCF / Month).....	30.87	
		For Up To 25, Add	12.35	
		For >25 To 50, Add	7.72	
		For >50 To 150, Add	3.09	
01 54 23 00-0004	CCF	Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....	34.71	
		For Up To 25, Add	13.88	
		For >25 To 50, Add	8.68	
		For >50 To 150, Add	3.47	
01 54 23 00-0005	CCF	Scaffolding With Bracing Accessories - Area Based On 3' Wide Sections (CCF / Month).....	46.30	
		For Up To 25, Add	18.52	
		For >25 To 50, Add	11.58	
		For >50 To 150, Add	4.63	

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

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

01 54 23 00-0007	CCF	Up To 20' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	50.43	
01 54 23 00-0008	CCF	>20' To 40' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	63.03	
01 54 23 00-0009	CCF	>40' To 60' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	75.63	
01 54 23 00-0010	CCF	>60' To 80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	83.20	
01 54 23 00-0011	CCF	>80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	95.81	
01 54 23 00-0012	CCF	Up To 20' Height Scaffolding Initial Erection And Final Dismantling Set Up On Stairs, Per CCF Of Scaffolding And Accessories	60.52	

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

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

01 54 23 00-0014	CCF	Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....	63.31	
01 54 23 00-0015	CCF	Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 2' Wide Sections (CCF / Month).....	116.06	
01 54 23 00-0016	LF	Aluminum Joists (LF / Month)	10.29	
01 54 23 00-0017	LF	Aluminum Stringers (LF / Month)	14.76	
01 54 23 00-0018	EA	Screw Jack With U-Plate For Stringers (EA / Month).....	18.60	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 54 23 00-0019	Heavy Duty Masonry Scaffolding Erection And Dismantling - Labor Only <small>(01 54 23 00-0001)</small> Note: Includes both initial erection and final dismantling. Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0013 for scaffolding rental.	
01 54 23 00-0020	CCF Up To 20' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	80.68
01 54 23 00-0021	CCF >20' To 40' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	100.85
01 54 23 00-0022	CCF >40' To 60' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	121.02
01 54 23 00-0023	CCF >60' To 80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	131.11
01 54 23 00-0024	CCF >80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	146.24
01 54 23 00-0025	Scaffolding Accessories <small>(01 54 23 00-0001)</small> See CSI section 01 54 23 00-0019 for erection.	
01 54 23 00-0026	CSF Netting for Exterior Building Scaffolding..... Note: Includes removal after use.	37.89
01 54 23 00-0027	Rolling Scaffolding <small>(01 54 23)</small> Note: Includes moving and relocating scaffolding on site. Excludes initial erection and final dismantling of scaffold.	
01 54 23 00-0028	DAY >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	11.83
01 54 23 00-0029	WK >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	47.39
01 54 23 00-0030	MO >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	189.54
01 54 23 00-0031	DAY >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	19.80
01 54 23 00-0032	WK >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	79.29
01 54 23 00-0033	MO >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	317.21
01 54 23 00-0034	EA >14' To 20', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold.....	99.10
01 54 23 00-0035	EA >20' To 40', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold.....	123.88
01 54 23 00-0036	Shoring Posts <small>(01 54 23)</small> Note: Includes moving to perform task and removal after use. No additional cost for relocating will be allowed.	
01 54 23 00-0037	DAY 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	7.43
01 54 23 00-0038	WK 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	22.30
01 54 23 00-0039	MO 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	37.17
01 54 23 00-0040	Temporary Lumber, Single Use <small>(01 54 23)</small> Note: Includes removal after use.	
01 54 23 00-0041	SF 5/16" CD Grade Plywood, Temporary Lumber.....	3.03
01 54 23 00-0042	SF 1/2" CD Grade Plywood, Temporary Lumber.....	3.58
01 54 23 00-0043	SF 5/8" CD Grade Plywood, Temporary Lumber.....	4.11
01 54 23 00-0044	SF 3/4" CD Grade Plywood, Temporary Lumber.....	4.74
01 54 23 00-0045	SF 1" CD Grade Plywood, Temporary Lumber.....	7.58
01 54 23 00-0046	LF 2" x 4" Temporary Lumber	3.83
01 54 23 00-0047	LF 2" x 6" Temporary Lumber	5.05
01 54 23 00-0048	LF 2" x 8" Temporary Lumber	6.26
01 54 23 00-0049	LF 2" x 10" Temporary Lumber	7.49
01 54 23 00-0050	LF 2" x 12" Temporary Lumber	8.70
01 54 23 00-0051	LF 3" x 8" Temporary Lumber	8.70
01 54 23 00-0052	LF 3" x 10" Temporary Lumber	10.51
01 54 23 00-0053	LF 3" x 12" Temporary Lumber	12.35
01 54 23 00-0054	LF 4" x 4" Temporary Lumber	5.71
01 54 23 00-0055	LF 4" x 6" Temporary Lumber	8.51
01 54 23 00-0056	LF 6" x 6" Temporary Lumber	11.30
01 54 23 00-0057	LF 6" x 8" Temporary Lumber	14.80
01 54 23 00-0058	LF 12" x 12" Temporary Lumber	38.90
01 54 23 00-0059	Temporary Precast Concrete Blocks <small>(01 54 23)</small> Note: Includes removal after use.	
01 54 23 00-0060	EA 2' x 2' x 2' Temporary Precast Concrete Block.....	107.47
01 54 23 00-0061	EA 2' x 2' x 4' Temporary Precast Concrete Block.....	134.33
01 54 23 00-0062	EA 2' x 2' x 8' Temporary Precast Concrete Block.....	161.20
01 54 26	Temporary Swing Staging <small>(01 54)</small> Note: Up to one month rental. Includes connection to existing electrical outlet on roof, all necessary safety equipment for personnel and anchoring to existing roof anchors. Excludes installing roof anchors.	
01 54 26 00-0001	Swing Stage <small>(01 54 26)</small> Note: Up to one month rental. Includes connection to existing electrical outlet on roof, and all necessary safety equipment for personnel. Excludes installing roof anchors.	
01 54 26 00-0002	MO 7' Swing Stage, Electric Operated	2,782.52
01 54 26 00-0003	MO 10' Swing Stage, Electric Operated	2,921.64
01 54 26 00-0004	MO 14' Swing Stage, Electric Operated	3,060.77
01 54 26 00-0005	MO 20' Swing Stage, Electric Operated	3,199.89



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 54 26 00-0006 MO 24' Swing Stage, Electric Operated	3,339.02	
01 54 26 00-0007 MO 30' Swing Stage, Electric Operated	3,478.14	
01 54 26 00-0008 MO 42' Swing Stage, Electric Operated	3,617.27	
01 54 26 00-0009 MO 12' Swing Stage, Manually Operated.....	802.40	
01 54 26 00-0010 MO 24' Swing Stage, Manually Operated.....	1,003.00	
01 54 26 00-0011 EA Swing Stage Platform From Hooks, Erection And Dismantling.....	4,225.26	
Note: Includes both initial erection and final dismantling of platform. Excludes anchors or temporary roof mounted outrigger system.		
01 54 26 00-0012 EA Swing Stage Platform And Temporary Roof Mounted Outrigger System Erection And Dismantling	5,871.71	
Note: Includes both initial erection and final dismantling of temporary roof mounted outrigger system.		
01 54 26 00-0013 EA Move Swing Stage Platform From Hooks To Different Location At Same Roof.....	2,221.73	
01 54 26 00-0014 EA Move Swing Stage Platform and Temporary Roof Mounted Outrigger System To Different Location At Same Roof.....	3,094.56	

01 55 Vehicular Access and Parking (01 50)

01 55 23 Temporary Roads (01 55)

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

Note: As per Caltrans detail.

01 55 23 00-0002 SF 3" To 4" Rock Temporary Stabilized Construction Entrance Assembly	3.39	
Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
01 55 23 00-0003 SF >4" To 6" Rock Temporary Stabilized Construction Entrance Assembly	4.38	
Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		

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

01 55 23 00-0005 MO 8' x 10' Steel Rumble Trench Plate Rental.....	371.66	
01 55 23 00-0006 EA Placement And Removal Of Rumble Plate	88.89	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
01 55 23 00-0007 EA Relocate And Adjust Location Of Rumble Plate.....	22.22	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		

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

Note: Excludes asphalt and gravel.

01 55 23 00-0009 EA 4" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	4,554.51	198.29
01 55 23 00-0010 EA 6" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	6,199.04	297.43
01 55 23 00-0011 EA 8" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	8,566.69	396.57
01 55 23 00-0012 EA 12" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	17,803.97	495.71
01 55 23 00-0013 EA 24" Pipeline, 15' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	26,137.36	594.86

01 55 26 Traffic Control (01 55)

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

Note: Includes installation and removal after use.

01 55 26 00-0002 LF 6" Removable Traffic Black Line Mask	4.37	
01 55 26 00-0003 LF 8" Removable Traffic Black Line Mask	5.25	

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

Note: Includes installation and removal after use.

01 55 26 00-0005 LF 4" Reflective Removable Traffic Line Tape.....	4.83	
01 55 26 00-0006 LF 6" Reflective Removable Traffic Line Tape.....	6.61	
01 55 26 00-0007 LF 8" Reflective Removable Traffic Line Tape.....	8.30	

01 55 26 00-0008 Temporary Painted Traffic Lines (01 55 26)

Note: Includes installation and removal after use.

01 55 26 00-0009 LF 4" Temporary Painted Traffic Lines.....	2.25	
<i>For Not Removed, Deduct</i>		
	-1.46	
01 55 26 00-0010 LF 6" Temporary Painted Traffic Lines.....	2.96	
<i>For Not Removed, Deduct</i>		
	-1.97	
01 55 26 00-0011 LF 8" Temporary Painted Traffic Lines.....	3.71	
<i>For Not Removed, Deduct</i>		
	-2.52	
01 55 26 00-0012 EA 2" High x 2" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	3.23	
01 55 26 00-0013 EA 2" High x 4" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	3.26	

01 55 26 00-0014 Temporary Pedestrian Traffic Control (01 55 26)

01 55 26 00-0015 CLF 1", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	11.99	
01 55 26 00-0016 CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	16.29	
01 55 26 00-0017 CLF 3/4", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	8.53	
01 55 26 00-0018 CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	10.75	
01 55 26 00-0019 CLF 3", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent	12.11	
01 55 26 00-0020 CLF 6", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent	17.60	
01 55 26 00-0021 CLF 1" Exterior Vinyl Tape (Warning Tape)	14.96	

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 55 26 00-0022	CLF	2" Exterior Vinyl Tape (Warning Tape).....	21.92
01 55 26 00-0023	CLF	3" Exterior Vinyl Tape (Warning Tape).....	28.68
01 55 26 00-0024	CLF	4" Exterior Vinyl Tape (Warning Tape).....	33.61

01 55 26 00-0025 Linear Delineation System, Temporary Or Permanent (01 55 26)

Note: High visibility reflective sheeting strips. Scotchlite as manufactured by 3M.

01 55 26 00-0026	LF	4" Linear Delineation System.....	10.44
01 55 26 00-0027	LF	6" Linear Delineation System.....	14.16

01 55 26 00-0028 Temporary Traffic Protection (01 55 26)

01 55 26 00-0029 Temporary Portable Traffic Control Device Usage (01 55 26 00-0028)

Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0120 for delivery, placing and removal.

01 55 26 00-0030	DAY	28" Cone With Reflective Collar.....	0.80
01 55 26 00-0031	WK	28" Cone With Reflective Collar.....	2.39
01 55 26 00-0032	MO	28" Cone With Reflective Collar.....	7.18
01 55 26 00-0033	DAY	36" Traffic Cone With Reflective Collar.....	1.00
01 55 26 00-0034	WK	36" Traffic Cone With Reflective Collar.....	2.99
01 55 26 00-0035	MO	36" Traffic Cone With Reflective Collar.....	8.98
01 55 26 00-0036	DAY	Tubular Marker Delineator Guide Post With Base/Channelizing Guide Post.....	1.88
01 55 26 00-0037	WK	Tubular Marker Delineator Guide Post With Base/Channelizing Guide Post.....	5.64
01 55 26 00-0038	MO	Tubular Marker Delineator Guide Post With Base/Channelizing Guide Post.....	16.93
01 55 26 00-0039	DAY	Vertical Panel.....	2.41
01 55 26 00-0040	WK	Vertical Panel.....	7.23
01 55 26 00-0041	MO	Vertical Panel.....	21.69
01 55 26 00-0042	DAY	Channelizer Drum.....	2.62
01 55 26 00-0043	WK	Channelizer Drum.....	7.85
01 55 26 00-0044	MO	Channelizer Drum.....	23.55
01 55 26 00-0045	DAY	Stackable Channelizer Panel.....	1.24
01 55 26 00-0046	WK	Stackable Channelizer Panel.....	3.71
01 55 26 00-0047	MO	Stackable Channelizer Panel.....	11.14
01 55 26 00-0048	DAY	Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	1.71
01 55 26 00-0049	WK	Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	5.14
01 55 26 00-0050	MO	Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	15.42
01 55 26 00-0051	DAY	Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	3.80
01 55 26 00-0052	WK	Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	11.39
01 55 26 00-0053	MO	Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	34.18
01 55 26 00-0054	DAY	Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	4.33
01 55 26 00-0055	WK	Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	12.99
01 55 26 00-0056	MO	Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	38.96
01 55 26 00-0057	DAY	Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	7.92
01 55 26 00-0058	WK	Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	23.75
01 55 26 00-0059	MO	Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	71.26
01 55 26 00-0060	DAY	Up To 10' Wide A Frame Barricade.....	4.34
01 55 26 00-0061	WK	Up To 10' Wide A Frame Barricade.....	13.03
01 55 26 00-0062	MO	Up To 10' Wide A Frame Barricade.....	39.08
01 55 26 00-0063	DAY	Type A Or C Flasher.....	0.88
01 55 26 00-0064	WK	Type A Or C Flasher.....	2.65
01 55 26 00-0065	MO	Type A Or C Flasher.....	7.96
01 55 26 00-0066	DAY	Type B Flasher (High Intensity).....	4.80
01 55 26 00-0067	WK	Type B Flasher (High Intensity).....	14.40
01 55 26 00-0068	MO	Type B Flasher (High Intensity).....	43.21

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

Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0120 for delivery, placing and removal.

01 55 26 00-0070	DAY	6' Long Portable Parking Curbs.....	2.07
01 55 26 00-0071	WK	6' Long Portable Parking Curbs.....	6.20
01 55 26 00-0072	MO	6' Long Portable Parking Curbs.....	18.61
01 55 26 00-0073	DAY	6' Long Portable Speed Bumps.....	6.12
01 55 26 00-0074	WK	6' Long Portable Speed Bumps.....	18.36
01 55 26 00-0075	MO	6' Long Portable Speed Bumps.....	55.08
01 55 26 00-0076	DAY	Up To 12.5' Concrete Traffic Barrier.....	14.70
01 55 26 00-0077	WK	Up To 12.5' Concrete Traffic Barrier.....	44.11
01 55 26 00-0078	MO	Up To 12.5' Concrete Traffic Barrier.....	132.32
01 55 26 00-0079	DAY	>12.5' To 20' Concrete Traffic Barrier.....	29.40
01 55 26 00-0080	WK	>12.5' To 20' Concrete Traffic Barrier.....	88.21
01 55 26 00-0081	MO	>12.5' To 20' Concrete Traffic Barrier.....	264.63
01 55 26 00-0082	DAY	6' x 32" Tall Plastic Water Barrier.....	17.56
01 55 26 00-0083	WK	6' x 32" Tall Plastic Water Barrier.....	52.67
01 55 26 00-0084	MO	6' x 32" Tall Plastic Water Barrier.....	158.01
01 55 26 00-0085	DAY	6' x 46" Tall Plastic Water Barrier.....	25.07
01 55 26 00-0086	WK	6' x 46" Tall Plastic Water Barrier.....	75.21
01 55 26 00-0087	MO	6' x 46" Tall Plastic Water Barrier.....	225.62
01 55 26 00-0088	DAY	Sand Filled Crash Attenuator Barrels.....	9.81
01 55 26 00-0089	WK	Sand Filled Crash Attenuator Barrels.....	29.44
01 55 26 00-0090	MO	Sand Filled Crash Attenuator Barrels.....	88.31
01 55 26 00-0091	MO	Rolling Straight Concrete Barrier, Per Each Barrier Per Month.....	3,259.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0092 MO Rolling Absorbing Concrete Barrier, Per Each Barrier Per Month.....	1,303.80	
01 55 26 00-0093 MO Rolling Transition Concrete Barrier, Per Each Barrier Per Month.....	347.68	
01 55 26 00-0094 EA 2 Bay, Non-Gating, Redirective Crash Cushion System, Test Level 2 (44 MPH), 24" Wide Note: Includes delivery, pickup and two months rental.	6,014.14	
01 55 26 00-0095 MO 2 Bay, Non-Gating, Redirective Crash Cushion System, Test Level 2 (44 MPH), 24" Wide Note: Rental rate after 1st two months.	575.82	
01 55 26 00-0096 EA 5 Bay, Non-Gating, Redirective Crash Cushion System, Test Level 3 (62 MPH), 24" Wide Note: Includes delivery, pickup and two months rental.	7,197.78	
01 55 26 00-0097 MO 5 Bay, Non-Gating, Redirective Crash Cushion System, Test Level 3 (62 MPH), 24" Wide Note: Rental rate after 1st two months.	863.73	
01 55 26 00-0098 EA 8 Bay, Non-Gating, Redirective Crash Cushion System, Test Level 3 (71 MPH), 24" Wide..... Note: Includes delivery, pickup and two months rental.	8,765.31	
01 55 26 00-0099 MO 8 Bay, Non-Gating, Redirective Crash Cushion System, 71 MPH, 24" Wide Note: Rental rate after 1st two months.	1,055.67	
01 55 26 00-0100 MO 24" Wide x 32" High x 32' Long, Anchorless Water Filler, Non Redirective, Bi-Directional Impact Attenuator (ABSORB 350® BARRIER)..... Note: Consists of 8 bays with nose piece at the front of the system.	1,395.28	
01 55 26 00-0101 Temporary Portable Signs And Message Displays Usage <small>(01 55 26 00-0028)</small>		
Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0120 for delivery, placing and removal.		
01 55 26 00-0102 DAY Mesh Or Vinyl Roll-up Sign With Stand	7.70	
01 55 26 00-0103 WK Mesh Or Vinyl Roll-up Sign With Stand	23.11	
01 55 26 00-0104 MO Mesh Or Vinyl Roll-up Sign With Stand	69.34	
01 55 26 00-0105 DAY Aluminum Sign And Post	3.62	
01 55 26 00-0106 WK Aluminum Sign And Post.....	10.85	
01 55 26 00-0107 MO Aluminum Sign And Post.....	32.55	
01 55 26 00-0108 DAY Aluminum Sign And A Frame Stand	5.82	
01 55 26 00-0109 WK Aluminum Sign And A Frame Stand	17.48	
01 55 26 00-0110 MO Aluminum Sign And A Frame Stand	52.42	
01 55 26 00-0111 DAY Trailer Mounted Flashing Arrow Board	128.00	
01 55 26 00-0112 WK Trailer Mounted Flashing Arrow Board	354.28	
01 55 26 00-0113 MO Trailer Mounted Flashing Arrow Board	937.14	
01 55 26 00-0114 DAY Trailer Mounted Portable Variable Message Sign (PVMS)	379.98	
01 55 26 00-0115 WK Trailer Mounted Portable Variable Message Sign (PVMS)	1,013.28	
01 55 26 00-0116 MO Trailer Mounted Portable Variable Message Sign (PVMS)	2,026.56	
01 55 26 00-0117 DAY Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	1,311.80	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0118 WK Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	3,935.40	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0119 MO Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	11,806.20	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0120 Place And Remove Temporary Traffic Protection Using Truck <small>(01 55 26 00-0028)</small>		
Note: Includes delivery and return up to 15 miles. See CSI section 01 74 19 00-0050 for delivery >15 miles.		
01 55 26 00-0121 EA Placement And Removal Of Up To 250 Cones Using Truck	3.48	
01 55 26 00-0122 EA Placement And Removal Of >250 Cones Using Truck	3.04	
01 55 26 00-0123 EA Placement And Removal Of Up To 250 Panels/Channelizers Using Truck	5.74	
01 55 26 00-0124 EA Placement And Removal Of >250 Panels/Channelizers Using Truck.....	4.78	
01 55 26 00-0125 EA Placement And Removal Of Up To 250 Barricades Using Truck.....	8.69	
01 55 26 00-0126 EA Placement And Removal Of >250 Barricades Using Truck	6.96	
01 55 26 00-0127 EA Placement And Removal Of Curbs/Speed Bumps Using Truck.....	8.69	
01 55 26 00-0128 EA Placement And Removal Of Portable Sign And Stand Using Truck	5.22	
01 55 26 00-0129 EA Placement And Removal Of Aluminum Sign And Post Using Truck	21.74	
01 55 26 00-0130 EA Placement And Removal Of Trailer Mounted Boards And Signals Using Truck	65.20	
01 55 26 00-0131 EA Placement And Removal Of Up To 12.5' Concrete Traffic Barrier	88.89	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	222.23	
For 2 Barriers, Add	80.00	
For 3 Barriers, Add	26.67	
01 55 26 00-0132 EA Placement And Removal Of >12.5' Concrete Traffic Barrier.....	133.33	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	333.33	
For 2 Barriers, Add	120.00	
For 3 Barriers, Add	40.00	
01 55 26 00-0133 EA Placement And Removal Of Plastic Water Barrier	51.16	
Note: Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for Equipment Usage, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	111.10	
For 2 Barriers, Add	40.00	
For 3 Barriers, Add	13.33	
01 55 26 00-0134 EA Placement And Removal Of Crash Attenuator Barrels	66.66	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	166.65	
For 2 Barriers, Add	59.99	
For 3 Barriers, Add	20.00	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0135 EA Placement And Removal Of 24" Wide x 32" High x 32' Long, Anchorless Water Filler, Non Redirective, Bi-Directional Impact Attenuator (ABSORB 350® BARRIER).....	488.85	
Note: Consists of 8 bays with nose piece at the front of the system attached and anchored in accordance with the manufactures instructions. Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization.		
01 55 26 00-0136 Place And Remove Temporary Traffic Protection From Roadside (Daily) (01 55		
<i>26 00-0029)</i>		
01 55 26 00-0137 EA Placement And Removal Of Up To 250 Cones By Hand From Roadside.....	2.17	
01 55 26 00-0138 EA Placement And Removal Of >250 Cones By Hand From Roadside	1.74	
01 55 26 00-0139 EA Placement And Removal Of Up To 250 Panels/Channelizers By Hand From Roadside	2.90	
01 55 26 00-0140 EA Placement And Removal Of >250 Panels/Channelizers By Hand From Roadside.....	2.31	
01 55 26 00-0141 EA Placement And Removal Of Up To 250 Barricades By Hand From Roadside.....	4.35	
01 55 26 00-0142 EA Placement And Removal Of >250 Barricades By Hand From Roadside	3.48	
01 55 26 00-0143 EA Placement And Removal Of Portable Sign And Stand From Roadside	2.58	
01 55 26 00-0144 EA Placement And Removal Of Trailer Mounted Boards And Signals From Roadside.....	32.60	
01 55 26 00-0145 EA Roadside Relocation Of Concrete Traffic Barrier	44.44	
Note: Excludes flatbed truck. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
01 55 26 00-0146 Temporary Rumble Strips (01 55 26)		
Note: Includes removal after use.		
01 55 26 00-0147 LF 1/4" High, 4" Wide, Polymer Tape Temporary Rumble Strip.....	12.49	
01 55 26 00-0148 LF 1/2" High, 3-1/2" Wide, Polycarbonate Temporary Rumble Strip.....	8.96	
01 56 Temporary Barriers and Enclosures (01 50)		
Note: Includes removal after use.		
01 56 16 Temporary Dust Barriers (01 56)		
01 56 16 00-0001 Temporary Sheeting For Protection (01 56 16)		
Note: Includes removal after use.		
01 56 16 00-0002 SF 6 Mil, Plastic Sheeting, Applied To Floors.....	0.35	
01 56 16 00-0003 SF 6 Mil, Plastic Sheeting, Applied To Walls.....	0.44	
01 56 16 00-0004 SF 6 Mil, Plastic Sheeting, Applied To Ceilings.....	0.59	
01 56 16 00-0005 SF 6 Mil, Plastic Sheeting, Applied To Scaffolding.....	0.58	
01 56 16 00-0006 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Floors.....	0.43	
01 56 16 00-0007 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Walls.....	0.52	
01 56 16 00-0008 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Ceilings.....	0.67	
01 56 16 00-0009 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Scaffolding.....	0.63	
01 56 16 00-0010 SF 10 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.81	
01 56 16 00-0011 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Floors.....	0.45	
01 56 16 00-0012 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Walls.....	0.54	
01 56 16 00-0013 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Ceilings.....	0.69	
01 56 16 00-0014 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Scaffolding.....	0.65	
01 56 16 00-0015 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Floors.....	0.44	
01 56 16 00-0016 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Walls.....	0.53	
01 56 16 00-0017 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Ceilings.....	0.68	
01 56 16 00-0018 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.64	
01 56 16 00-0019 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Floors.....	0.51	
01 56 16 00-0020 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Walls.....	0.60	
01 56 16 00-0021 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Ceilings.....	0.75	
01 56 16 00-0022 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.71	
01 56 16 00-0023 Temporary Canvas For Protection (01 56 16)		
Note: Includes removal after use.		
01 56 16 00-0024 SF Heavy Duty Woven Water Repellant Canvas, Applied To Walls.....	0.91	
01 56 16 00-0025 Accessories For Temporary Sheeting (01 56 16)		
Note: Includes removal after use.		
01 56 16 00-0026 EA 7' Zipper Door For Plastic Sheeting	21.09	
01 56 16 00-0027 LF Zip Wall Kit And ICRA Dust Control Awareness Barrier (Per LF Of Wall).....	8.65	
Note: Includes up to 12' long spring loaded poles, side clamps, foam rails and 6 mil poly barrier. Excludes zip doors.		
01 56 16 00-0028 Temporary Critical Barriers For Protection (01 56 16)		
Note: Includes removal after use.		
01 56 16 00-0029 EA Up To 1 SF Individual Critical Barriers.....	11.26	
Note: For Outlets And Receptacles		
01 56 16 00-0030 EA >1 To 4 SF Individual Critical Barriers	17.08	
Note: For diffusers, ceiling speakers, return grilles, etc.		
01 56 16 00-0031 EA >4 To 8 SF Individual Critical Barriers	22.97	
Note: For diffusers, return grilles, access doors, light fixtures, etc.		
01 56 16 00-0032 EA >8 To 32 SF Individual Critical Barriers.....	35.98	
Note: For doors, windows, etc.		

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 56 16 00-0069	Temporary Stud Wall With Plastic Sheeting (01 56 16 00-0033) Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, 6 Mil plastic sheeting, and removal after use.		
01 56 16 00-0070	SF 6 Mil, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	3.99	0.01
01 56 16 00-0071	SF 6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	4.07	0.01
01 56 16 00-0072	SF 6 Mil, Fire Retardant, Anti-Static, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	4.09	0.01
01 56 16 00-0073	SF 6 Mil, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	4.08	0.01
01 56 16 00-0074	SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center <i>For Metal Studs 24" On Center, Add/Deduct</i>	4.15	0.01
01 56 16 00-0075	Temporary Doors (01 56 16 00-0033) Note: For temporary stud walls. Includes removal after use.		
01 56 16 00-0076	EA Temporary Metal Door And Frame Note: Painted with panic hardware, lockset, threshold and smoke seals. Remove after use.	647.00	
01 56 16 00-0077	Temporary Floor Protection (01 56 16) Note: Includes removal after use.		
01 56 16 00-0078	SF 1/8" Thick, Masonite For Temporary Floor Protection.....	1.55	
01 56 16 00-0079	SF 1/2" Thick, Plywood For Temporary Floor Protection.....	1.68	
01 56 16 00-0080	SF 3/4" Thick, Plywood For Temporary Floor Protection.....	2.03	
01 56 16 00-0081	LF 38" Wide, 46 Mil Fiberboard, Ram Board® For Temporary Floor Protection.....	0.87	
01 56 16 00-0082	LF 36" Wide, 9 Mil, Regular Weight Red Rosin Paper, For Temporary Floor Protection.....	0.29	
01 56 16 00-0083	CSF 3 Mil, Temporary Self-adhesive Carpet Protection Film.....	24.89	
01 56 16 00-0084	SF Burlap For Temporary Floor Protection.....	0.63	
01 56 16 00-0085	Sticky Mats (01 56 16) Note: Includes removal after use.		
01 56 16 00-0086	EA 18" x 36", 30 Layer Sticky Mat <i>For 60 Layers Instead Of 30, Add</i>	34.63	23.00
01 56 16 00-0087	EA 18" x 46", 30 Layer Sticky Mat <i>For 60 Layers Instead Of 30, Add</i>	39.74	26.83
01 56 16 00-0088	EA 24" x 36", 30 Layer Sticky Mat <i>For 60 Layers Instead Of 30, Add</i>	39.74	26.83
01 56 16 00-0089	EA 25" x 45", 30 Layer Sticky Mat <i>For 60 Layers Instead Of 30, Add</i>	52.52	36.41
01 56 16 00-0090	EA 36" x 36", 30 Layer Sticky Mat <i>For 60 Layers Instead Of 30, Add</i>	57.63	40.25
01 56 16 00-0091	EA 36" x 46", 30 Layer Sticky Mat <i>For 60 Layers Instead Of 30, Add</i>	62.74	44.08
01 56 16 00-0092	EA 36" x 60", 30 Layer Sticky Mat <i>For 60 Layers Instead Of 30, Add</i>	126.62	91.99
01 56 16 00-0093	EA 36" x 72", 30 Layer Sticky Mat	151.15	
01 56 26	Temporary Fencing (01 56)		
01 56 26 00-0001	Temporary Fencing (01 56 26) Note: Per ASTM A392-06 Standards		
01 56 26 00-0002	Temporary Chain Link Fence (01 56 26 00-0001) Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0080 for core drilling in asphalt or concrete, 32 31 13 13-0001 for augering and backfill of posts.		
01 56 26 00-0003	Temporary Chain Link Fence, Up To 6 Months (01 56 26 00-0002)		
01 56 26 00-0004	LF Temporary 4' High Chain Link Fence And Posts, Up To 6 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	6.03	-0.14 -0.29 -0.43 1.60
01 56 26 00-0005	LF Temporary 6' High Chain Link Fence And Posts, Up To 6 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	6.72	-0.16 -0.32 -0.48 2.55
01 56 26 00-0006	LF Temporary 8' High Chain Link Fence And Posts, Up To 6 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	9.27	-0.27 -0.55 -0.82 3.60
01 56 26 00-0007	LF Temporary 10' High Chain Link Fence And Posts, Up To 6 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	20.44	-0.81 -1.62 -2.43 4.75
01 56 26 00-0008	Temporary Chain Link Fence, >6 To 12 Months (01 56 26 00-0002)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0009 LF Temporary 4' High Chain Link Fence And Posts, >6 To 12 Months	6.33	
<i>For >100 To 250, Deduct</i>	-0.16	
<i>For >250 To 500, Deduct</i>	-0.32	
<i>For >500, Deduct</i>	-0.47	
<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0010 LF Temporary 6' High Chain Link Fence And Posts, >6 To 12 Months	7.04	
<i>For >100 To 250, Deduct</i>	-0.18	
<i>For >250 To 500, Deduct</i>	-0.36	
<i>For >500, Deduct</i>	-0.53	
<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0011 LF Temporary 8' High Chain Link Fence And Posts, >6 To 12 Months	9.81	
<i>For >100 To 250, Deduct</i>	-0.30	
<i>For >250 To 500, Deduct</i>	-0.60	
<i>For >500, Deduct</i>	-0.90	
<i>For Each LF Shade Cloth, Add</i>	3.60	
01 56 26 00-0012 LF Temporary 10' High Chain Link Fence And Posts, >6 To 12 Months	22.05	
<i>For >100 To 250, Deduct</i>	-0.89	
<i>For >250 To 500, Deduct</i>	-1.78	
<i>For >500, Deduct</i>	-2.68	
<i>For Each LF Shade Cloth, Add</i>	4.75	
01 56 26 00-0013 Temporary Chain Link Fence, >12 To 18 Months <small>(01 56 26 00-0002)</small>		
01 56 26 00-0014 LF Temporary 4' High Chain Link Fence And Posts, >12 To 18 Months	6.65	
<i>For >100 To 250, Deduct</i>	-0.17	
<i>For >250 To 500, Deduct</i>	-0.35	
<i>For >500, Deduct</i>	-0.52	
<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0015 LF Temporary 6' High Chain Link Fence And Posts, >12 To 18 Months	7.41	
<i>For >100 To 250, Deduct</i>	-0.20	
<i>For >250 To 500, Deduct</i>	-0.39	
<i>For >500, Deduct</i>	-0.59	
<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0016 LF Temporary 8' High Chain Link Fence And Posts, >12 To 18 Months	10.42	
<i>For >100 To 250, Deduct</i>	-0.33	
<i>For >250 To 500, Deduct</i>	-0.66	
<i>For >500, Deduct</i>	-0.99	
<i>For Each LF Shade Cloth, Add</i>	3.60	
01 56 26 00-0017 LF Temporary 10' High Chain Link Fence And Posts, >12 To 18 Months	23.84	
<i>For >100 To 250, Deduct</i>	-0.98	
<i>For >250 To 500, Deduct</i>	-1.96	
<i>For >500, Deduct</i>	-2.94	
<i>For Each LF Shade Cloth, Add</i>	4.75	
01 56 26 00-0018 Temporary Chain Link Fence, >18 Months <small>(01 56 26 00-0002)</small>		
01 56 26 00-0019 LF Temporary 4' High Chain Link Fence And Posts, >18 Months.....	6.99	
<i>For >100 To 250, Deduct</i>	-0.19	
<i>For >250 To 500, Deduct</i>	-0.38	
<i>For >500, Deduct</i>	-0.57	
<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0020 LF Temporary 6' High Chain Link Fence And Posts, >18 Months.....	7.77	
<i>For >100 To 250, Deduct</i>	-0.21	
<i>For >250 To 500, Deduct</i>	-0.43	
<i>For >500, Deduct</i>	-0.64	
<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0021 LF Temporary 8' High Chain Link Fence And Posts, >18 Months.....	11.07	
<i>For >100 To 250, Deduct</i>	-0.36	
<i>For >250 To 500, Deduct</i>	-0.73	
<i>For >500, Deduct</i>	-1.09	
<i>For Each LF Shade Cloth, Add</i>	3.60	
01 56 26 00-0022 LF Temporary 10' High Chain Link Fence And Posts, >18 Months.....	25.80	
<i>For >100 To 250, Deduct</i>	-1.08	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-3.24	
<i>For Each LF Shade Cloth, Add</i>	4.75	
01 56 26 00-0023 Temporary Chain Link Fence Gates <small>(01 56 26 00-0001)</small>		
<small>Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0080 for core drilling in asphalt or concrete, 32 31 13 13-0001 for augering and backfill of posts.</small>		
01 56 26 00-0024 Temporary Chain Link Fence Gates, Up To 6 Months <small>(01 56 26 00-0023)</small>		
01 56 26 00-0025 4' High, Temporary Chain Link Fence Gates, Up To 6 Months <small>(01 56 26 00-0024)</small>		
01 56 26 00-0026 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	241.93	
<i>For Each LF Shade Cloth, Add</i>	13.62	
01 56 26 00-0027 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	410.73	
<i>For Each LF Shade Cloth, Add</i>	34.05	
01 56 26 00-0028 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	460.00	
<i>For Each LF Shade Cloth, Add</i>	40.86	
01 56 26 00-0029 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	523.55	
<i>For Each LF Shade Cloth, Add</i>	51.08	
01 56 26 00-0030 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	627.23	
<i>For Each LF Shade Cloth, Add</i>	68.11	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0031	EA		24' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	698.02	
			<i>For Each LF Shade Cloth, Add</i>	81.73	
01 56 26 00-0032			6' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0033	EA		4' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	258.96	
			<i>For Each LF Shade Cloth, Add</i>	21.71	
01 56 26 00-0034	EA		10' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	443.46	
			<i>For Each LF Shade Cloth, Add</i>	54.27	
01 56 26 00-0035	EA		12' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	497.74	
			<i>For Each LF Shade Cloth, Add</i>	65.13	
01 56 26 00-0036	EA		15' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	576.63	
			<i>For Each LF Shade Cloth, Add</i>	81.41	
01 56 26 00-0037	EA		20' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	697.11	
			<i>For Each LF Shade Cloth, Add</i>	108.54	
01 56 26 00-0038	EA		24' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	790.74	
			<i>For Each LF Shade Cloth, Add</i>	130.25	
01 56 26 00-0039			8' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0040	EA		4' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	289.13	
			<i>For Each LF Shade Cloth, Add</i>	30.65	
01 56 26 00-0041	EA		10' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	508.05	
			<i>For Shade Cloth, Add</i>	76.62	
01 56 26 00-0042	EA		12' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	568.31	
			<i>For Shade Cloth, Add</i>	91.94	
01 56 26 00-0043	EA		15' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	650.49	
			<i>For Shade Cloth, Add</i>	114.93	
01 56 26 00-0044	EA		20' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	794.98	
			<i>For Shade Cloth, Add</i>	153.24	
01 56 26 00-0045	EA		24' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	922.14	
			<i>For Shade Cloth, Add</i>	183.89	
01 56 26 00-0046			10' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0047	EA		4' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	350.40	
			<i>For Each LF Shade Cloth, Add</i>	40.44	
01 56 26 00-0048	EA		10' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	609.46	
			<i>For Each LF Shade Cloth, Add</i>	101.09	
01 56 26 00-0049	EA		12' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	683.14	
			<i>For Each LF Shade Cloth, Add</i>	121.31	
01 56 26 00-0050	EA		15' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	780.77	
			<i>For Each LF Shade Cloth, Add</i>	151.64	
01 56 26 00-0051	EA		20' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	954.44	
			<i>For Each LF Shade Cloth, Add</i>	202.19	
01 56 26 00-0052	EA		24' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	1,102.07	
			<i>For Each LF Shade Cloth, Add</i>	242.63	
01 56 26 00-0053			Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0023)		
01 56 26 00-0054			4' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0055	EA		4' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	251.05	
			<i>For Each LF Shade Cloth, Add</i>	13.62	
01 56 26 00-0056	EA		10' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	424.91	
			<i>For Each LF Shade Cloth, Add</i>	34.05	
01 56 26 00-0057	EA		12' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	476.22	
			<i>For Each LF Shade Cloth, Add</i>	40.86	
01 56 26 00-0058	EA		15' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	541.79	
			<i>For Each LF Shade Cloth, Add</i>	51.08	
01 56 26 00-0059	EA		20' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	649.53	
			<i>For Each LF Shade Cloth, Add</i>	68.11	
01 56 26 00-0060	EA		24' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	722.34	
			<i>For Each LF Shade Cloth, Add</i>	81.73	
01 56 26 00-0061			6' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0062	EA		4' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	268.50	
			<i>For Each LF Shade Cloth, Add</i>	21.71	
01 56 26 00-0063	EA		10' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	458.29	
			<i>For Each LF Shade Cloth, Add</i>	54.27	
01 56 26 00-0064	EA		12' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	514.70	
			<i>For Each LF Shade Cloth, Add</i>	65.13	
01 56 26 00-0065	EA		15' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	595.71	
			<i>For Each LF Shade Cloth, Add</i>	81.41	
01 56 26 00-0066	EA		20' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	720.42	
			<i>For Each LF Shade Cloth, Add</i>	108.54	
01 56 26 00-0067	EA		24' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	816.17	
			<i>For Each LF Shade Cloth, Add</i>	130.25	
01 56 26 00-0068			8' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0069 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	299.62 30.65	
01 56 26 00-0070 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	524.37 76.62	
01 56 26 00-0071 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	586.96 91.94	
01 56 26 00-0072 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	671.47 114.93	
01 56 26 00-0073 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	820.62 153.24	
01 56 26 00-0074 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	950.11 183.89	
01 56 26 00-0075 10' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0076 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	363.51 40.44	
01 56 26 00-0077 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	629.86 101.09	
01 56 26 00-0078 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	706.45 121.31	
01 56 26 00-0079 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	807.00 151.64	
01 56 26 00-0080 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	986.49 202.19	
01 56 26 00-0081 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	1,137.03 242.63	
01 56 26 00-0082 Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0023)		
01 56 26 00-0083 4' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0084 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	260.63 13.62	
01 56 26 00-0085 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	439.81 34.05	
01 56 26 00-0086 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	493.24 40.86	
01 56 26 00-0087 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	560.94 51.08	
01 56 26 00-0088 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	672.94 68.11	
01 56 26 00-0089 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	747.88 81.73	
01 56 26 00-0090 6' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0091 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	278.51 21.71	
01 56 26 00-0092 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	473.86 54.27	
01 56 26 00-0093 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	532.50 65.13	
01 56 26 00-0094 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	615.73 81.41	
01 56 26 00-0095 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	744.89 108.54	
01 56 26 00-0096 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	842.87 130.25	
01 56 26 00-0097 8' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0098 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	310.63 30.65	
01 56 26 00-0099 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	541.50 76.62	
01 56 26 00-0100 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	606.54 91.94	
01 56 26 00-0101 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	693.50 114.93	
01 56 26 00-0102 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	847.54 153.24	
01 56 26 00-0103 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	979.48 183.89	
01 56 26 00-0104 10' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0105 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	377.28 40.44	
01 56 26 00-0106 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	651.28 101.09	
01 56 26 00-0107 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	730.92 121.31	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0108 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	834.53	
For Each LF Shade Cloth, Add	151.64	
01 56 26 00-0109 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,020.15	
For Each LF Shade Cloth, Add	202.19	
01 56 26 00-0110 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,173.75	
For Each LF Shade Cloth, Add	242.63	
01 56 26 00-0111 Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0023)		
01 56 26 00-0112 4' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0113 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	270.21	
For Each LF Shade Cloth, Add	13.62	
01 56 26 00-0114 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	454.71	
For Each LF Shade Cloth, Add	34.05	
01 56 26 00-0115 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	510.27	
For Each LF Shade Cloth, Add	40.86	
01 56 26 00-0116 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	580.10	
For Each LF Shade Cloth, Add	51.08	
01 56 26 00-0117 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	696.35	
For Each LF Shade Cloth, Add	68.11	
01 56 26 00-0118 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	773.42	
For Each LF Shade Cloth, Add	81.73	
01 56 26 00-0119 6' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0120 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	288.52	
For Each LF Shade Cloth, Add	21.71	
01 56 26 00-0121 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	489.44	
For Each LF Shade Cloth, Add	54.27	
01 56 26 00-0122 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	550.30	
For Each LF Shade Cloth, Add	65.13	
01 56 26 00-0123 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	635.76	
For Each LF Shade Cloth, Add	81.41	
01 56 26 00-0124 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	769.37	
For Each LF Shade Cloth, Add	108.54	
01 56 26 00-0125 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	869.57	
For Each LF Shade Cloth, Add	130.25	
01 56 26 00-0126 8' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0127 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	321.65	
For Each LF Shade Cloth, Add	30.65	
01 56 26 00-0128 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	558.63	
For Shade Cloth, Add	76.62	
01 56 26 00-0129 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	626.12	
For Shade Cloth, Add	91.94	
01 56 26 00-0130 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	715.52	
For Shade Cloth, Add	114.93	
01 56 26 00-0131 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	874.47	
For Shade Cloth, Add	153.24	
01 56 26 00-0132 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	1,008.85	
For Shade Cloth, Add	183.89	
01 56 26 00-0133 10' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0134 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	391.04	
For Each LF Shade Cloth, Add	40.44	
01 56 26 00-0135 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	672.69	
For Each LF Shade Cloth, Add	101.09	
01 56 26 00-0136 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	755.40	
For Each LF Shade Cloth, Add	121.31	
01 56 26 00-0137 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	862.07	
For Each LF Shade Cloth, Add	151.64	
01 56 26 00-0138 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	1,053.80	
For Each LF Shade Cloth, Add	202.19	
01 56 26 00-0139 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	1,210.46	
For Each LF Shade Cloth, Add	242.63	
01 56 26 00-0140 Temporary Chain Link Fence Panels (Portable) (01 56 26 00-0001)		
Note: Includes delivery, set-up and removal. Excludes sandbags.		
01 56 26 00-0141 Temporary Chain Link Fence Panels (Portable), Up To 6 Months (01 56 26 00-0140)		
01 56 26 00-0142 LF Temporary 4' High Chain Link Fence Panels (Portable), Up To 6 Months.....	6.60	
For >100 To 250, Deduct	-0.17	
For >250 To 500, Deduct	-0.34	
For >500, Deduct	-0.51	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0143 LF Temporary 6' High Chain Link Fence Panels (Portable), Up To 6 Months.....	7.33	
For >100 To 250, Deduct	-0.19	
For >250 To 500, Deduct	-0.38	
For >500, Deduct	-0.58	
For Each LF Shade Cloth, Add	2.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0144 LF Temporary 8' High Chain Link Fence Panels (Portable), Up To 6 Months.....	10.00	
<i>For >100 To 250, Deduct</i>	-0.31	
<i>For >250 To 500, Deduct</i>	-0.62	
<i>For >500, Deduct</i>	-0.93	
<i>For Each LF Shade Cloth, Add</i>	3.60	
01 56 26 00-0145 Temporary Chain Link Fence Panels (Portable), >6 To 12 Months (01 56 26 00-0140)		
01 56 26 00-0146 LF Temporary 4' High Chain Link Fence Panels (Portable), >6 To 12 Months	6.89	
<i>For >100 To 250, Deduct</i>	-0.19	
<i>For >250 To 500, Deduct</i>	-0.37	
<i>For >500, Deduct</i>	-0.56	
<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0147 LF Temporary 6' High Chain Link Fence Panels (Portable), >6 To 12 Months	7.65	
<i>For >100 To 250, Deduct</i>	-0.21	
<i>For >250 To 500, Deduct</i>	-0.42	
<i>For >500, Deduct</i>	-0.62	
<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0148 LF Temporary 8' High Chain Link Fence Panels (Portable), >6 To 12 Months	10.54	
<i>For >100 To 250, Deduct</i>	-0.34	
<i>For >250 To 500, Deduct</i>	-0.67	
<i>For >500, Deduct</i>	-1.01	
<i>For Each LF Shade Cloth, Add</i>	3.60	
01 56 26 00-0149 Temporary Chain Link Fence Panels (Portable), >12 To 18 Months (01 56 26 00-0140)		
01 56 26 00-0150 LF Temporary 4' High Chain Link Fence Panels (Portable), >12 To 18 Months	7.18	
<i>For >100 To 250, Deduct</i>	-0.20	
<i>For >250 To 500, Deduct</i>	-0.40	
<i>For >500, Deduct</i>	-0.60	
<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0151 LF Temporary 6' High Chain Link Fence Panels (Portable), >12 To 18 Months	8.02	
<i>For >100 To 250, Deduct</i>	-0.23	
<i>For >250 To 500, Deduct</i>	-0.45	
<i>For >500, Deduct</i>	-0.68	
<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0152 LF Temporary 8' High Chain Link Fence Panels (Portable), >12 To 18 Months	11.15	
<i>For >100 To 250, Deduct</i>	-0.37	
<i>For >250 To 500, Deduct</i>	-0.73	
<i>For >500, Deduct</i>	-1.10	
<i>For Each LF Shade Cloth, Add</i>	3.60	
01 56 26 00-0153 Temporary Chain Link Fence Panels (Portable), >18 Months (01 56 26 00-0140)		
01 56 26 00-0154 LF Temporary 4' High Chain Link Fence Panels (Portable), >18 Months	7.55	
<i>For >100 To 250, Deduct</i>	-0.22	
<i>For >250 To 500, Deduct</i>	-0.44	
<i>For >500, Deduct</i>	-0.66	
<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0155 LF Temporary 6' High Chain Link Fence Panels (Portable), >18 Months	8.39	
<i>For >100 To 250, Deduct</i>	-0.25	
<i>For >250 To 500, Deduct</i>	-0.49	
<i>For >500, Deduct</i>	-0.74	
<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0156 LF Temporary 8' High Chain Link Fence Panels (Portable), >18 Months	11.79	
<i>For >100 To 250, Deduct</i>	-0.40	
<i>For >250 To 500, Deduct</i>	-0.80	
<i>For >500, Deduct</i>	-1.20	
<i>For Each LF Shade Cloth, Add</i>	3.60	
01 56 26 00-0157 Temporary Chain Link Fence Panels (Portable) Sandbags (01 56 26 00-0140)		
01 56 26 00-0158 BAG Temporary Chain Link Fence Panels (Portable) Sandbag.....	6.20	
Note: Includes placement and removal.		
01 56 26 00-0159 Relocate Chain Link Fence, Gates And Panels (01 56 26 00-0001)		
Note: Excludes auguring/drilling for posts.		
01 56 26 00-0160 Relocate Temporary Chain Link Fence On Site (01 56 26 00-0159)		
01 56 26 00-0161 LF Relocate Temporary 4' High Chain Link Fence And Posts	3.42	
01 56 26 00-0162 LF Relocate Temporary 6' High Chain Link Fence And Posts	5.13	
01 56 26 00-0163 LF Relocate Temporary 8' High Chain Link Fence And Posts	7.42	
01 56 26 00-0164 LF Relocate Temporary 10' High Chain Link Fence And Posts	9.12	
01 56 26 00-0165 Relocate Temporary Chain Link Fence Panels On Site (01 56 26 00-0159)		
01 56 26 00-0166 LF Relocate Temporary 4' High Chain Link Fence Panel, Self Standing	0.79	
01 56 26 00-0167 LF Relocate Temporary 6' High Chain Link Fence Panel, Self Standing	0.95	
01 56 26 00-0168 LF Relocate Temporary 8' High Chain Link Fence Panel, Self Standing	1.07	
01 56 26 00-0169 Relocate Temporary Chain Link Gates On Site (01 56 26 00-0159)		

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	01 56 26 00-0170	EA	Relocate Temporary 4' High Chain Link Vehicle Gate And Posts.....	103.13	
	01 56 26 00-0171	EA	Relocate Temporary 6' High Chain Link Vehicle Gate And Posts.....	119.00	
	01 56 26 00-0172	EA	Relocate Temporary 8' High Chain Link Vehicle Gate And Posts.....	146.77	
	01 56 26 00-0173	EA	Relocate Temporary 10' High Chain Link Vehicle Gate And Posts.....	158.68	
01 56 26 00-0174			Temporary Safety Fence <small>(01 56 26)</small>		
	Note: Includes removal after use.				
	01 56 26 00-0175	LF	48" High With Posts At 8' On Center, Plastic Mesh Temporary Safety Fence.....	3.47	
01 56 29			Temporary Protective Walkways <small>(01 56)</small>		
01 56 29 00-0001			Temporary Sidewalk Bridge Protection <small>(01 56 29)</small>		
	Note: Includes removal after use.				
01 56 29 00-0002			Installation of Sidewalk Bridge <small>(01 56 29 00-0001)</small>		
	01 56 29 00-0003	LF	Installation of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	161.36	
	Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.				
	<i>For 3 Post System, Add</i>			6.00	
	<i>For Each Additional Foot Over 8' Wide, Add</i>			3.00	
	<i>For Each Additional Foot Over 8' High, Add</i>			2.00	
	01 56 29 00-0004	LF	Installation of Netting for Sidewalk Bridge.....	4.11	
01 56 29 00-0005			Monthly Rental of Sidewalk Bridge <small>(01 56 29 00-0001)</small>		
	01 56 29 00-0006	LF	Monthly Rental Of Up To 8' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	13.95	
	Note: Includes spanning openings, planking and parapet, lighting and maintenance.				
	<i>For 3 Post System, Add</i>			2.09	
	01 56 29 00-0007	LF	Monthly Rental Of Up To 8' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	15.71	
	Note: Includes spanning openings, planking and parapet, lighting and maintenance.				
	<i>For 3 Post System, Add</i>			2.36	
	01 56 29 00-0008	LF	Monthly Rental Of Up To 8' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	17.46	
	Note: Includes spanning openings, planking and parapet, lighting and maintenance.				
	<i>For 3 Post System, Add</i>			2.62	
	01 56 29 00-0009	LF	Monthly Rental Of 8' - 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	17.46	
	Note: Includes spanning openings, planking and parapet, lighting and maintenance.				
	<i>For 3 Post System, Add</i>			2.62	
	01 56 29 00-0010	LF	Monthly Rental Of 8' - 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	19.19	
	Note: Includes spanning openings, planking and parapet, lighting and maintenance.				
	<i>For 3 Post System, Add</i>			2.88	
	01 56 29 00-0011	LF	Monthly Rental Of 8' - 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	22.71	
	Note: Includes spanning openings, planking and parapet, lighting and maintenance.				
	<i>For 3 Post System, Add</i>			3.41	
	01 56 29 00-0012	LF	Monthly Rental Of Over 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	20.96	
	Note: Includes spanning openings, planking and parapet, lighting and maintenance.				
	<i>For 3 Post System, Add</i>			3.14	
	01 56 29 00-0013	LF	Monthly Rental Of Over 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	24.45	
	Note: Includes spanning openings, planking and parapet, lighting and maintenance.				
	<i>For 3 Post System, Add</i>			3.67	
	01 56 29 00-0014	LF	Monthly Rental Of Over 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	26.16	
	Note: Includes spanning openings, planking and parapet, lighting and maintenance.				
	<i>For 3 Post System, Add</i>			3.92	
	01 56 29 00-0015	LF	Monthly Rental of Netting for Sidewalk Bridge.....	2.62	
01 56 29 00-0016			Removal of Sidewalk Bridge <small>(01 56 29 00-0001)</small>		
	01 56 29 00-0017	LF	Removal Of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	33.59	
	Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.				
	<i>For 3 Post System, Add</i>			2.50	
	<i>For Each Additional Foot Over 8' Wide, Add</i>			1.25	
	<i>For Each Additional Foot Over 8' High, Add</i>			0.75	
	01 56 29 00-0018	LF	Removal Of Netting For Sidewalk Bridge.....	2.05	
01 56 29 00-0019			Temporary Safety Nets <small>(01 56 29)</small>		
	Note: Includes removal after use.				
	01 56 29 00-0020	SF	Small Mesh Debris Netting.....	2.03	
	Note: Includes 3" molded plastic base plates, plastic cable ties, and 1/4", 7x9 aircraft cable tied off to structure, not including anchors.				
01 56 33			Temporary Security Barriers <small>(01 56)</small>		
01 56 33 00-0001			Board-up Opening With Plywood <small>(01 56 33)</small>		
	Note: For use where directed by owner for boarding up door and window openings.				



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 33 00-0002	OPN		Removal Of Protective Barrier To Allow Work In Building, Reseal At End Of Day, Per Opening Per Day.....	11.91	
01 56 33 00-0003	SF		5/8" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening.....	8.99	
01 56 33 00-0004	SF		3/4" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening.....	10.37	
01 56 33 00-0005 Temporary Pedestrian Barricade (01 56 33)					
Note: Portable, interlocking galvanized steel fence with pivoting legs.					
01 56 33 00-0006	DAY		3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	13.01	
01 56 33 00-0007	WK		3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	31.59	
01 56 33 00-0008	MO		3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	94.77	
01 56 39 Temporary Tree and Plant Protection (01 56)					
01 56 39 00-0001 Temporary Tree Guards (01 56 39)					
Note: Includes digging holes and removal after use.					
01 56 39 00-0002	EA		Up To 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	177.50	
01 56 39 00-0003	EA		4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	211.70	
01 56 39 00-0004	EA		6' x 6' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	230.35	
01 57 Temporary Controls (01 50)					
01 57 13 Temporary Erosion and Sediment Control (01 57)					
See CSI section 31 25 00 00-0000 for temporary erosion and sediment control.					
01 57 23 Temporary Storm Water Pollution Control (01 57)					
See CSI section 31 25 00 00-0000 for temporary storm water pollution control.					
01 57 23 00-0001 Temporary Drain Guard (01 57 23)					
Note: Includes removal after use.					
01 57 23 00-0002	EA		36" x 48" x 18" Non-Woven Polypropylene Trash and Debris Drain Guard (Ultra-Drain Guard® 9227).....	99.39	
01 57 23 00-0003	EA		36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9217).....	97.47	
Note: Up to 0.87 gallons oil, up to 40 lbs sediment.					
01 57 23 00-0004	EA		36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9219).....	124.40	
Note: Up to 1.38 gallons oil, up to 40 lbs sediment.					
01 57 23 00-0005	EA		60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9356).....	122.47	
Note: Up to 1.55 gallons oil, up to 40 lbs sediment.					
01 57 23 00-0006	EA		60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9358).....	151.33	
Note: Up to 2.06 gallons oil, up to 40 lbs sediment.					
01 58 Project Identification (01 50)					
Note: Includes removal after use.					
01 58 13 Temporary Project Signage (01 58)					
01 58 13 00-0001 Project Sign (01 58 13)					
01 58 13 00-0002 MDO Plywood Signs (01 58 13 00-0001)					
Note: Excludes posts.					
01 58 13 00-0003 Reflectorized, MDO Plywood Signs (01 58 13 00-0002)					
01 58 13 00-0004 Engineer Grade, Reflectorized, MDO Plywood Signs (01 58 13 00-0003)					
01 58 13 00-0005	EA		Up To 8 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	158.79	21.82
				40.30	
				77.73	
				275.92	22.81
				80.61	
				155.45	
01 58 13 00-0007	EA		>16 To 24 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	393.06	23.80
				120.91	
				233.18	
01 58 13 00-0008	EA		>24 To 32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	510.21	24.80
				161.21	
				310.91	
01 58 13 00-0009	SF		>32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	15.98	0.79
				5.04	
				9.71	
01 58 13 00-0010 Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0002)					
01 58 13 00-0011 One Or Two Color Design, Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0010)					
01 58 13 00-0012	EA		Up To 8 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign.....	199.87	21.82
01 58 13 00-0013	EA		>8 To 16 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign.....	239.14	22.81
01 58 13 00-0014	EA		>16 To 24 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign.....	300.60	23.80
01 58 13 00-0015	EA		>24 To 32 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign.....	358.62	24.80
01 58 13 00-0016	SF		>32 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign.....	11.25	0.79

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 58 13 00-0017	Full Color Design, Non-Reflectorized, MDO Plywood Signs <small>(01 58 13 00-0010)</small>	
01 58 13 00-0018 EA Up To 8 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign.....	204.27	21.82
01 58 13 00-0019 EA >8 To 16 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	262.85	22.81
01 58 13 00-0020 EA >16 To 24 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	324.69	23.80
01 58 13 00-0021 EA >24 To 32 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	379.27	24.80
01 58 13 00-0022 SF >32 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	11.89	0.79
01 58 13 00-0023	Fabricate And Install New Posts <small>(01 58 13 00-0001)</small>	
Note: Includes excavation, backfill and compaction. Excludes core drilling.		
01 58 13 00-0024 LF Galvanized Metal Channel Sign Posts.....	15.48	
01 58 13 00-0025 LF 4" x 4" Pressure Treated Wood Sign Posts	12.36	
01 58 13 00-0026 LF 4" x 6" Pressure Treated Wood Sign Posts	15.05	
01 58 13 00-0027	Owner Supplied Signs <small>(01 58 13 00-0001)</small>	
01 58 13 00-0028 EA Installation And Removal Of Owner Supplied Project Sign.....	79.34	

01 60 Product Requirements (01)

01 66 Product Storage and Handling Requirements (01 60)

01 66 19 Product Handling Requirements (01 66)

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

01 66 19 00-0001	Transfer Delivered Materials Between Floors <small>(01 66 19)</small>	
Note: For moving delivered, owner supplied or existing materials in a building.		
01 66 19 00-0002 CY Transfer Delivered Material Between Floors Via Stairs, Per Floor.....	15.26	
Note: Quantity equals volume of materials multiplied by number of floors traveled.		
01 66 19 00-0003 CY Transfer Delivered Material Between Floors Via Elevator, Per Trip.....	9.92	
Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.		
01 66 19 00-0004	Transfer Delivered Materials Distances Greater Than 125' <small>(01 66 19)</small>	
Note: For moving delivered, owner supplied or existing materials in a building.		
01 66 19 00-0005 CY Transfer Delivered Materials Distances Greater Than 125', Per CY Of Material Per 125'	6.19	
01 66 19 00-0006	Transfer Demolition Debris Between Floors <small>(01 66 19)</small>	
Note: Only for use with demolition tasks.		
01 66 19 00-0007 CY Transfer Demolition Debris Between Floors Via Stairs, Per Floor.....	15.26	
Note: Quantity equals material volume times bulk factor times number of floors traveled.		
01 66 19 00-0008 CY Transfer Demolition Debris Between Floors Via Elevator, Per Trip.....	9.92	
Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.		
01 66 19 00-0009	Transfer Demolition Debris Distances Greater Than 125' <small>(01 66 19)</small>	
Note: Only for use with demolition tasks.		
01 66 19 00-0010 CY Transfer Demolition Debris Distances Greater Than 125', Per CY Of Material Per 125'.....	6.19	
01 66 19 00-0011	Moving Furniture And Furnishings <small>(01 66 19)</small>	
Note: To be used when contractor is required to move furniture and furnishings occupying 55% or more of the total floor space.		
01 66 19 00-0012 SF Removal, Transportation, Return And Reinstallation Of Office Furniture And Furnishings.....	0.99	
Note: Includes desks, tables, file cabinets, chairs, storage boxes, bookshelves, office equipment, computers, and other furniture and furnishings. Quantity equals total floor space.		

01 70 Execution and Closeout Requirements (01)

01 71 Examination and Preparation (01 70)

01 71 13 Mobilization (01 71)

01 71 13 00-0001	Equipment Delivery, Pickup, Mobilization And Demobilization <small>(01 71 13)</small>	
Note: Excludes flagman for traffic control where necessary. See CSI section 01 22 23 00-0857 for cranes.		
01 71 13 00-0002 EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck	464.62	
Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom man lifts with up to 40' boom lengths, etc.		
01 71 13 00-0003 EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed.....	1,532.99	
Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 71 13 00-0004	Crane Delivery, Pickup, Mobilization And Demobilization <small>(01 71 13)</small>		
	Note: Includes delivery of equipment, off loading on site and rigging. Pick-up (return) includes dismantling, loading and transporting away. Excludes flagman for traffic control where necessary.		
01 71 13 00-0005	EA Up To 20 Ton Lift Move On/Off Cost, Hydraulic Crane.....	495.59	
	Note: Includes delivery and pickup.		
	For >30 To 60 Miles Radius, Add	123.90	
	For >60 To 100 Miles Radius, Add	198.24	
01 71 13 00-0006	EA >20 To 40 Ton Lift Move On/Off Cost, Hydraulic Crane	805.34	
	Note: Includes delivery and pickup.		
	For >30 To 60 Miles Radius, Add	201.34	
	For >60 To 100 Miles Radius, Add	322.14	
01 71 13 00-0007	EA >40 To 70 Ton Lift Move On/Off Cost, Hydraulic Crane	1,115.09	
	Note: Includes delivery and pickup.		
	For >30 To 60 Miles Radius, Add	278.77	
	For >60 To 100 Miles Radius, Add	446.04	
01 71 13 00-0008	EA >70 To 110 Ton Lift Move On/Off Cost, Hydraulic Crane	1,796.54	
	Note: Includes delivery and pickup.		
	For >30 To 60 Miles Radius, Add	449.14	
	For >60 To 100 Miles Radius, Add	718.62	
01 71 13 00-0009	EA >110 To 125 Ton Lift Move On/Off Cost, Hydraulic Crane	2,254.96	
	Note: Includes delivery and pickup.		
	For >30 To 60 Miles Radius, Add	563.74	
	For >60 To 100 Miles Radius, Add	901.98	
01 71 13 00-0010	EA >125 To 150 Ton Lift Move On/Off Cost, Hydraulic Crane	2,806.31	
	Note: Includes delivery and pickup.		
	For >30 To 60 Miles Radius, Add	701.58	
	For >60 To 100 Miles Radius, Add	1,122.52	
01 71 13 00-0011	EA >150 To 185 Ton Lift Move On/Off Cost, Hydraulic Crane	3,233.76	
	Note: Includes delivery and pickup.		
	For >30 To 60 Miles Radius, Add	808.44	
	For >60 To 100 Miles Radius, Add	1,293.50	
01 71 13 00-0012	EA >185 To 210 Ton Lift Move On/Off Cost, Hydraulic Crane	3,617.85	
	Note: Includes delivery and pickup.		
	For >30 To 60 Miles Radius, Add	904.46	
	For >60 To 100 Miles Radius, Add	1,447.14	
01 71 13 00-0013	EA 75 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane.....	1,920.43	
	Note: Includes delivery, rigging and pickup.		
	For >30 To 60 Miles Radius, Add	480.11	
	For >60 To 100 Miles Radius, Add	768.17	
01 71 13 00-0014	EA 100 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane.....	3,035.53	
	Note: Includes delivery, rigging and pickup.		
	For >30 To 60 Miles Radius, Add	758.88	
	For >60 To 100 Miles Radius, Add	1,214.21	
01 71 13 00-0015	EA 125 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane.....	3,840.86	
	Note: Includes delivery, rigging and pickup.		
	For >30 To 60 Miles Radius, Add	960.22	
	For >60 To 100 Miles Radius, Add	1,536.34	
01 71 13 00-0016	EA 150 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane.....	4,770.11	
	Note: Includes delivery, rigging and pickup.		
	For >30 To 60 Miles Radius, Add	1,192.53	
	For >60 To 100 Miles Radius, Add	1,908.04	
01 71 13 00-0017	EA 200 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane.....	5,947.15	
	Note: Includes delivery, rigging and pickup.		
	For >30 To 60 Miles Radius, Add	1,486.79	
	For >60 To 100 Miles Radius, Add	2,378.86	
01 71 13 00-0018	EA 250 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane.....	6,938.34	
	Note: Includes delivery, rigging and pickup.		
	For >30 To 60 Miles Radius, Add	1,734.59	
	For >60 To 100 Miles Radius, Add	2,775.34	
01 71 13 00-0019	EA 300 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane.....	9,911.92	
	Note: Includes delivery, rigging and pickup.		
	For >30 To 60 Miles Radius, Add	2,477.98	
	For >60 To 100 Miles Radius, Add	3,964.77	
01 71 13 00-0020	EA 500 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane.....	13,591.71	
	Note: Includes delivery, rigging and pickup.		
	For >30 To 60 Miles Radius, Add	3,397.93	
	For >60 To 100 Miles Radius, Add	5,436.68	

01 71 23 Field Engineering (01 71)

01 71 23 16 Construction Surveying (01 71 23)

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

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

01 71 23 16-0002	ACR Conventional Topographic Survey Of Clear Area With Few To No Obstacles.....	1,163.08	
01 71 23 16-0003	ACR Conventional Topographic Survey Of Clear Area With Medium Height Vegetation, Few Trees (<5% Buildings).....	3,226.02	
01 71 23 16-0004	ACR Conventional Topographic Survey Of Clear Area With Few Structures, And/Or Wooded (5-25% Buildings).....	4,635.37	
01 71 23 16-0005	ACR Conventional Topographic Survey Of Developed Areas With Several Structures (25-65% Buildings).....	6,949.29	
01 71 23 16-0006	ACR Conventional Topographic Survey Of Highly Developed Areas, Sidewalks, Etcetera (>65% Buildings).....	8,692.34	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0007	Property Lines Survey <small>(01 71 23 16)</small>	
	Note: Not to be added to tasks in the "Conventional Topographic Survey" section.	
01 71 23 16-0008 LF	Survey Property Lines On Cleared Land	2.55
01 71 23 16-0009 LF	Survey Property Lines On Slightly Wooded Land	2.96
01 71 23 16-0010 LF	Survey Property Lines On Wooded Land.....	3.46
01 71 23 16-0011	Survey Monument <small>(01 71 23 16)</small>	
01 71 23 16-0012 EA	3' Precast Survey Monument.....	184.95
	<i>For Owner Furnished Monument, Deduct</i>	-72.11
01 71 23 16-0013 EA	Precast Survey Monument Box With Cast Iron Frame And Cover.....	277.46
01 71 23 16-0014 EA	Riser Ring For Survey Monument.....	143.55
01 71 23 16-0015 EA	Adjust Survey Monument Cover To Grade	216.33
01 71 23 16-0016	Facade Surveying <small>(01 71 23 16)</small>	
01 71 23 16-0017 LF	Facade Survey And Reports (LF Of Facade x Number Of Floors).....	7.00
01 71 23 16-0018	Utility Survey <small>(01 71 23 16)</small>	
	Note: This survey is only for the location of underground utilities.	
01 71 23 16-0019 ACR	Survey Clear Area For Underground Utilities.....	5,905.99
01 71 23 16-0020	GPR Bridge Deck And Pavement Inspection <small>(01 71 23 16)</small>	
01 71 23 16-0021	GPR Bridge Deck And Pavement Inspection Mobilization Fee <small>(01 71 23 16-0020)</small>	
	Note: One mobilization per project.	
01 71 23 16-0022 EA	GPR Bridge Deck And Pavement Inspection Mobilization Fee.....	3,615.60
01 71 23 16-0023	Bridge Deck Delamination Survey, GPR Bridge Deck Inspection <small>(01 71 23 16-0020)</small>	
	Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.	
01 71 23 16-0024 EA	Survey Fee, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection.....	2,711.70
01 71 23 16-0025 SF	Up To 5,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection.....	1.14
01 71 23 16-0026 SF	>5,000 To 10,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.90
01 71 23 16-0027 SF	>10,000 To 25,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.72
01 71 23 16-0028 SF	>25,000 To 50,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.54
01 71 23 16-0029 SF	>50,000 To 100,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.43
01 71 23 16-0030 SF	>100,000 To 250,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.34
01 71 23 16-0031 SF	>250,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.25
01 71 23 16-0032	Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection <small>(01 71 23 16-0020)</small>	
	Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.	
01 71 23 16-0033 EA	Survey Fee, Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection	903.90
01 71 23 16-0034 SF	Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection	0.05
01 71 23 16-0035	Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection <small>(01 71 23 16-0020)</small>	
	Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.	
01 71 23 16-0036 EA	Survey Fee, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection.....	903.90
01 71 23 16-0037 SF	Up To 5,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection.....	0.42
01 71 23 16-0038 SF	>5,000 To 10,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.33
01 71 23 16-0039 SF	>10,000 To 25,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.25
01 71 23 16-0040 SF	>25,000 To 50,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.20
01 71 23 16-0041 SF	>50,000 To 100,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.16
01 71 23 16-0042 SF	>100,000 To 250,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.13
01 71 23 16-0043 SF	>250,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.09
01 71 23 16-0044	Pavement Structure And Thickness Measurement, GPR Pavement Inspection <small>(01 71 23 16-0020)</small>	
	Note: Each project will use one task for the length of the pavement surveyed.	
01 71 23 16-0045 LM	Up To 4 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection.....	6,721.40
01 71 23 16-0046 LM	>4 To 9 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	2,930.44
01 71 23 16-0047 LM	>9 To 49 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	2,182.01
01 71 23 16-0048 LM	>49 To 99 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	1,191.34
01 71 23 16-0049 LM	>99 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	936.44
01 71 23 16-0050	Pavement Thickness Contour (Mapping), GPR Pavement Inspection <small>(01 71 23 16-0020)</small>	
	Note: Each project will use one task for the length of the pavement surveyed.	
01 71 23 16-0051 LM	Up To 4 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	8,552.70



General Requirements	01	5
Execution and Closeout Requirements	01 70	
Examination and Preparation	01 71	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0052 LM >4 To 9 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection.....	4,022.36	
01 71 23 16-0053 LM >9 To 49 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection.....	3,055.18	
01 71 23 16-0054 LM >49 To 99 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection.....	1,711.99	
01 71 23 16-0055 LM >99 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection.....	1,354.04	
01 71 23 16-0056 Pavement Void Detection (Mapping), GPR Pavement Inspection (01 71 23 16-0020)		
Note: Each project will use one task for the length of the pavement surveyed.		
01 71 23 16-0057 LM Up To 4 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection.....	10,156.22	
01 71 23 16-0058 LM >4 To 9 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	4,976.87	
01 71 23 16-0059 LM >9 To 49 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	3,818.07	
01 71 23 16-0060 LM >49 To 99 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	2,167.55	
01 71 23 16-0061 LM >99 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection.....	1,717.41	
01 71 23 16-0062 Drone Survey (Extreme Aerial Productions) (01 71 23 16)		
Note: Thermographic services to electrical line grid inspections.		
01 71 23 16-0063 Mobilization For Drone Surveying (01 71 23 16-0062)		
01 71 23 16-0064 EA Mobilization For Up To 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing.....	243.93	
01 71 23 16-0065 EA Mobilization For > 1000 Acres Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing	609.82	
01 71 23 16-0066 EA Mobilization For Up To 400 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Hexacopter	162.62	
01 71 23 16-0067 EA Mobilization For Drone Road Survey For Topography/Progression/Inspection	325.24	
01 71 23 16-0068 EA Mobilization For Drone Survey Stockpile.....	162.62	
01 71 23 16-0069 EA Mobilization For Drone Inspection	162.62	
01 71 23 16-0070 EA Mobilization For Qualitative Drone Thermal Inspection	325.24	
01 71 23 16-0071 EA Mobilization For Quantitative Drone Thermal Inspection	406.55	
01 71 23 16-0072 EA Mobilization For Drone Agricultural Multispectral Survey.....	650.48	
01 71 23 16-0073 EA Mobilization For Drone Building Inspection/Scan/Thermal	487.86	
01 71 23 16-0074 EA Mobilization For Drone 3D Modelling.....	406.55	
01 71 23 16-0075 EA Mobilization For Drone Spraying Crops Or Sanitation	731.79	
01 71 23 16-0076 EA Mobilization For Drone Video Progression/Marketing.....	162.62	
01 71 23 16-0077 EA Mobilization For Drone Pictures Progression/Marketing	162.62	
01 71 23 16-0078 EA Mobilization For Drone Training, Flying, Test Prep, Equipment Checks.....	162.62	
01 71 23 16-0079 EA Mobilization For Drone Accident Reconstruction	162.62	
01 71 23 16-0080 EA Mobilization For Drone Landfill Survey	243.93	
01 71 23 16-0081 EA Mobilization For Drone Event Security Using Tethered Drones.....	325.24	
01 71 23 16-0082 EA Mobilization For Drone Emergency Response.....	813.10	
01 71 23 16-0083 EA Mobilization For Drone Cell Tower Inspection	243.93	
01 71 23 16-0084 Drone Surveying (01 71 23 16-0062)		
01 71 23 16-0085 HR Up To 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing	593.56	
Note: 3 hour minimum		
For Visual Observation, Add		162.62
For Additional Manpower, Add		162.62
01 71 23 16-0086 HR > 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing.....	756.18	
For Visual Observation, Add		243.93
For Additional Manpower, Add		195.14
01 71 23 16-0087 HR Up To 400 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Hexacopter	487.86	
Note: 3 hour minimum		
For Visual Observation, Add		162.62
For Additional Manpower, Add		162.62
01 71 23 16-0088 HR Drone Road Survey For Topography/Progression/Inspection	569.17	
Note: 3 hour minimum		
For Visual Observation, Add		243.93
For Additional Manpower, Add		162.62
01 71 23 16-0089 HR Drone Survey Stockpile	406.55	
Note: 3 hour minimum		
For Visual Observation, Add		162.62
For Additional Manpower, Add		162.62
01 71 23 16-0090 HR Drone Inspection.....	569.17	
Note: 3 hour minimum		
For Visual Observation, Add		162.62
For Additional Manpower, Add		162.62
01 71 23 16-0091 HR Qualitative Drone Thermal Inspection.....	650.48	
Note: 5 hour minimum		
For Visual Observation, Add		243.93
For Additional Manpower, Add		162.62
01 71 23 16-0092 HR Quantitative Drone Thermal Inspection	975.72	
Note: 5 hour minimum		
For Visual Observation, Add		243.93
For Additional Manpower, Add		162.62
01 71 23 16-0093 HR Drone Agricultural Multispectral Survey.....	731.79	
Note: 6 hour minimum		
For Visual Observation, Add		162.62
For Additional Manpower, Add		162.62
01 71 23 16-0094 HR Drone Building Inspection/Scan/Thermal.....	650.48	
Note: 3 hour minimum		
For Visual Observation, Add		243.93
For Additional Manpower, Add		162.62

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0095 HR Drone 3D Modelling Note: 3 hour minimum <i>For Visual Observation, Add</i> <i>For Additional Manpower, Add</i>	487.86 243.93 162.62	
01 71 23 16-0096 HR Drone Spraying Crops Or Sanitation..... Note: 3 hour minimum <i>For Visual Observation, Add</i> <i>For Additional Manpower, Add</i>	650.48 203.28 162.62	
01 71 23 16-0097 HR Drone Video Progression/Marketing Note: 2 hour minimum <i>For Visual Observation, Add</i> <i>For Additional Manpower, Add</i>	325.24 162.62 162.62	
01 71 23 16-0098 HR Drone Pictures Progression/Marketing Note: 2 hour minimum <i>For Visual Observation, Add</i> <i>For Additional Manpower, Add</i>	243.93 162.62 162.62	
01 71 23 16-0099 HR Drone Training, Flying, Test Prep, Equipment Checks Note: 3 hour minimum	487.86	
01 71 23 16-0100 HR Drone Accident Reconstruction..... Note: 2 hour minimum <i>For Visual Observation, Add</i> <i>For Additional Manpower, Add</i>	731.79 162.62 162.62	
01 71 23 16-0101 HR Drone Landfill Survey..... Note: 3 hour minimum <i>For Visual Observation, Add</i> <i>For Additional Manpower, Add</i>	593.56 162.62 162.62	
01 71 23 16-0102 HR Drone Event Security Using Tethered Drones Note: 3 hour minimum <i>For Visual Observation, Add</i> <i>For Additional Manpower, Add</i>	406.55 162.62 162.62	
01 71 23 16-0103 HR Drone Emergency Response..... Note: 3 hour minimum <i>For Visual Observation, Add</i> <i>For Additional Manpower, Add</i>	406.55 243.93 162.62	
01 71 23 16-0104 HR Drone Cell Tower Inspection..... Note: 3 hour minimum <i>For Visual Observation, Add</i> <i>For Additional Manpower, Add</i>	406.55 203.28 162.62	
01 71 23 16-0105 Utilization And Deliverables For Drone Surveying (01 71 23 16-0062)		
01 71 23 16-0106 Day Utilization Of GPS Ground Control For Drone Surveying.....	406.55	
01 71 23 16-0107 Day Utilization Of GPS Base Station Per Day For Drone Surveying.....	406.55	
01 71 23 16-0108 HR Processing And Data Deliverables And Reporting For Drone Surveying..... Note: 2 hour minimum	162.62	
01 71 23 16-0109 HR Processing And Data Deliverables And Reporting Of Thermal For Drone Surveying..... Note: 3 hour minimum	325.24	
01 71 23 16-0110 Travel, Waivers, And Editing For Drone Surveying (01 71 23 16-0062)		
01 71 23 16-0111 MI Travel Over 100 Miles For Drone Surveying..... Note: For additional miles over 100	0.94	
01 71 23 16-0112 EA Overnight Stay Per Person For Drone Surveying	203.28	
01 71 23 16-0113 EA Waiver Utilization B, C, D, And E For Drone Surveying..... Note: Restricted airspace	81.31	
01 71 23 16-0114 EA Night Waiver For Drone Surveying	105.70	
01 71 23 16-0115 EA Flying Over People Waiver For Drone Surveying	162.62	
01 71 23 16-0116 EA Beyond Visual Line Of Sight (BVLOS) Waiver For Drone Surveying.....	813.10	
01 71 23 16-0117 HR Editing Video For Drone Surveying..... Note: 2 hour minimum	162.62	
01 71 23 16-0118 HR Editing Pictures For Drone Surveying..... Note: 2 hour minimum	81.31	
01 71 23 16-0119 HR Custom Post Processing For Drone Surveying..... Note: 3 hour minimum	243.93	
01 71 36 Non-Destructive Concrete Examination (01 71)		
01 71 36 00-0001 Electromagnetic Survey (01 71 36) Note: To locate voids, prior to moving heavy machinery to an area of concern, to locate reinforcing bars, conduits, pipes, etc., prior to core drilling or cutting existing concrete, masonry or asphalt, to locate underground utilities, underground storage tanks, etc. Electromagnetic survey includes Subsurface Interface Radar (SIR) and/or Ground Penetrating Radar (GPR).		
01 71 36 00-0002 Electromagnetic (SIR/GPR) Survey (01 71 36 00-0001)		
01 71 36 00-0003 EA Up To 1 Hour On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	1,046.46	
01 71 36 00-0004 EA >1 To 4 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	1,569.69	
01 71 36 00-0005 EA >4 To 8 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	3,139.38	
01 71 36 00-0006 Reports And Mapping For Electromagnetic (SIR/GPR) Surveys (01 71 36 00-0001)		
01 71 36 00-0007 EA Standard Report For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt..... Note: Includes a detailed description of the scope of work, inspection methods, and equipment used. Also includes visuals such as site locations, images of data, and site photos.	348.82	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 36 00-0008	EA		GPS Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt Note: Includes GPS coordinates of located items and reference items.	697.64	
01 71 36 00-0009	EA		CAD Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt Note: Includes additions to the owner provided CAD drawing.	1,569.69	

01 74 Cleaning and Waste Management (01 74)

01 74 13 Progress Cleaning (01 74)

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

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

01 74 13 00-0002	CSF	Clean Miscellaneous Surfaces, Wipe Down With Mild Detergent.....	19.86
01 74 13 00-0003	CY	Collect Existing Debris And Load Into Truck Or Dumpster	23.27

Note: Per CY of debris removed.

01 74 16 Site Maintenance (01 74)

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

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

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

01 74 16 00-0003	MSF	Sweep Parking Lot, With Street Sweeper.....	21.43
01 74 16 00-0004	MSF	Sweeper/Vacuum/Sprayer For Parking Lots, Streets And Roads.....	25.73

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

01 74 16 00-0006	MSF	Sweep Runway, With Street Sweep	32.15
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01 74 19 Construction Waste Management and Disposal (01 74)

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

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

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

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

01 74 19 00-0003	LF	18" Diameter, Steel Temporary Debris Chute.....	37.87
01 74 19 00-0004	LF	30" Diameter, Steel Temporary Debris Chute.....	57.66

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

01 74 19 00-0006	LF	24" Diameter, Plastic Temporary Debris Chute	15.00
		<i>For Steel Liner, Add</i>	2.97
01 74 19 00-0007	LF	30" Diameter, Plastic Temporary Debris Chute	17.19
		<i>For Steel Liner, Add</i>	3.41
01 74 19 00-0008	LF	36" Diameter, Plastic Temporary Debris Chute	19.38
		<i>For Steel Liner, Add</i>	3.85

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

01 74 19 00-0010	LF	4' x 4', Wood Temporary Debris Chute	29.90
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Note: Includes fabrication and installation.

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

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

01 74 19 00-0012	EA	10 CY Dumpster (1 Ton) "Construction Debris"	567.49
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
		<i>For Each Ton Over Indicated Amount, Add</i>	95.00
01 74 19 00-0013	EA	15 CY Dumpster (1.5 Ton) "Construction Debris".....	615.00
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
		<i>For Each Ton Over Indicated Amount, Add</i>	95.00
01 74 19 00-0014	EA	20 CY Dumpster (2 Ton) "Construction Debris".....	675.00
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
		<i>For Each Ton Over Indicated Amount, Add</i>	95.00
01 74 19 00-0015	EA	30 CY Dumpster (3 Ton) "Construction Debris".....	719.99
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
		<i>For Each Ton Over Indicated Amount, Add</i>	95.00
01 74 19 00-0016	EA	40 CY Dumpster (4 Ton) "Construction Debris".....	835.00
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
		<i>For Each Ton Over Indicated Amount, Add</i>	95.00

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 74 19 00-0017 EA 10 CY Low-Boy Dumpster "Concrete Or Asphalt Only"	835.00	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Concrete or asphalt only.		
01 74 19 00-0018 EA 15 CY Low-Boy Dumpster Clean Recyclable.....	799.21	
Note: For clean dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.		
01 74 19 00-0019 EA 15 CY Low-Boy Dumpster Mixed Recyclable	858.85	
Note: For mixed dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.		
01 74 19 00-0020 Concrete Washout Service (01 74 19)		
01 74 19 00-0021 MO Rampless Concrete Washout Bin	580.90	
Note: Includes delivery.		
01 74 19 00-0022 MO Ramped Concrete Washout Bin.....	697.07	
Note: Includes delivery.		
01 74 19 00-0023 EA Interim Vacuum Service, Concrete Washout Bin	575.82	
Note: Includes vacuum and recycle excess clear liquid from the unfilled bin to allow additional space for washout material.		
01 74 19 00-0024 EA Vacuum, Pickup, Swap And Dump, Concrete Washout Bin	1,247.61	
Note: Includes vacuum the liquid from the full bin and pick up the bin, and recycle all material. An empty bin will be left at the site if the project is not completed.		
01 74 19 00-0025 Debris Processing Fee (01 74 19)		
01 74 19 00-0026 Material Recycling Fees (01 74 19 00-0025)		
Note: Not to be used with Dumpster Tasks which includes the Landfill Dump Fee. Excludes hauling.		
01 74 19 00-0027 CY Drop-Off Asphalt At Recycling Center.....	16.22	
01 74 19 00-0028 CY Drop-Off Non Reinforced Concrete At Recycling Center	21.72	
01 74 19 00-0029 CY Drop-Off Reinforced Concrete At Recycling Center.....	32.59	
01 74 19 00-0030 CY Drop-Off Brick Or Block At Recycling Center	28.24	
01 74 19 00-0031 CY Drop-Off Dirt At Recycling Center.....	31.50	
01 74 19 00-0032 CY Drop-Off Dimensional Lumber At Recycling Center.....	30.41	
01 74 19 00-0033 Landfill Dump Fees (01 74 19 00-0025)		
Note: Does not apply when material is transferred to owner's site or facility, or with use of dumpsters. Excludes hauling. See CSI section 01 74 19 00-0050 for hauling.		
01 74 19 00-0034 CY Traditional Building Construction Materials Landfill Dump Fee.....	14.46	
01 74 19 00-0035 TON Traditional Building Construction Materials, Landfill Dump Fee.....	63.00	
01 74 19 00-0036 CY Trees, Stumps And Brush, Landfill Dump Fee	17.40	
01 74 19 00-0037 CY Hazardous Materials And Rubbish Landfill Dump Fee.....	41.49	
Note: Includes regulated waste such as paint cans, refrigerators/freezers, air conditioners, smoke detectors, batteries, etc.		
01 74 19 00-0038 CY Asphalt, Concrete, Gravel And Subgrade Material, Landfill Dump Fee	29.48	
01 74 19 00-0039 CY Non Reinforced Concrete And/Or Rock, 2" Minus	4.20	
01 74 19 00-0040 CY Reinforced Concrete And/Or Rock, 2" Minus, Rebar Trimmed To 1".....	5.85	
01 74 19 00-0041 CY Reinforced Concrete not trimmed, 2" Minus	10.40	
01 74 19 00-0042 CY Mixed Asphalt And Concrete, Sized And Trimmed	7.16	
01 74 19 00-0043 CY Asphalt Or Asphalt And Dirt, Sized To 2" Minus	5.85	
01 74 19 00-0044 CY Reinforced Concrete And Asphalt, Not Trimmed, 2" Minus	12.50	
01 74 19 00-0045 CY Clean Dirt (No Grass, Weeds, Roots, Plants, Trash)	47.74	
01 74 19 00-0046 CY Clay Loads, Expansive Materials	59.67	
01 74 19 00-0047 CY Clean Asphalt, Sized 2" Minus, No Dirt.....	8.52	
01 74 19 00-0048 TON General Refuse.....	71.60	
01 74 19 00-0049 EA Tires.....	21.88	
01 74 19 00-0050 Hauling (01 74 19)		
Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one way mileage) times the number of cubic yards being transported. For example, to haul 8 CY to a site 14 miles away, the quantity is calculated as follows: 14 miles x 8 CY = 112 CYM. Use both hauling tasks for distances greater than 15 miles. To haul 28 CY to a site 32 miles away, the quantity for the task to haul the first 15 miles is calculated: 15 miles x 28 CY = 420 CYM. The quantity for the additional hauling task over the first 15 miles is calculated: 32 total miles less 15 initial miles equals 17 miles x 28 CY = 476 CYM.		
01 74 19 00-0051 CYM Hauling On Paved Roads, First 15 Miles	0.97	
01 74 19 00-0052 CYM Hauling On Paved Roads, Miles Over Initial 15 Miles.....	0.65	
01 74 19 00-0053 CYM Hauling On Unimproved Roads, First 15 Miles.....	1.49	
01 74 19 00-0054 CYM Hauling On Unimproved Roads, Miles Over Initial 15 Miles.....	1.17	
01 74 23 Final Cleaning (01 74)		
01 74 23 00-0001 Cleaning Of Glass (01 74 23)		
01 74 23 00-0002 CSF Cleaning Of Existing Glass Surfaces	27.27	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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END OF SECTION 01

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



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

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

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

02 20 Assessment ⁽⁰²⁾

02 25 Existing Material Assessment ^(02 20)

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

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

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

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

02 30 Subsurface Investigation ⁽⁰²⁾

02 32 Geotechnical Investigations ^(02 30)

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

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

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

02 32 13 00-0002 EA Mobilization Of Drilling Crew 1,143.57

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

02 32 13 00-0004 LF Standard Auger Hole With Split Spoon Sample At 5' Intervals 34.45

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

Note: All types of soils.

02 32 13 00-0006 LF 2-1/2" Diameter Cased Borings In Earth, With Samples 88.55

02 32 13 00-0007 LF 4" Diameter Cased Borings In Earth, With Samples 151.45

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

02 32 13 00-0009 LF Drill In Rock, BW Core, With Casing 93.63

Note: Includes sampling.

02 32 13 00-0010 EA Drill In Rock, With BW Core Boxes 8.85

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

02 32 13 00-0012 LF Drill In Rock, NW Core, With Casing 121.08

Note: Includes sampling.

02 32 13 00-0013 EA Drill In Rock, With NW Core Boxes 10.17

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

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

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

02 32 13 00-0016 CY Excavation For Test Pit, Light Material, Backhoe Excavation 64.58

02 32 13 00-0017 CY Excavation For Test Pits, Medium Material, Backhoe Excavation 75.35

02 32 13 00-0018 CY Excavation For Test Pit, Heavy Material, Backhoe Excavation 100.46

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

02 32 13 00-0020 CY Excavation For Test Pit, Light Soil, Hand Excavation 176.30

02 32 13 00-0021 CY Excavation For Test Pit, Heavy Soil, Hand Excavation 317.34

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

02 32 13 00-0023 EA Shelby Tube Sampling 50.29

02 32 13 00-0024 EA Penetration Test 40.98

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

02 32 13 00-0026 VLF Boreholes 9.53

02 32 19 Exploratory Excavations ^(02 32)

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

Note: Assumes on-site disposal.

02 32 19 00-0002 EA Hydro Excavation, Mobilization/Demobilization 163.50

02 32 19 00-0003 EA Hydro Excavation, Minimum Charge 654.00

Note: For projects where the total charge is less than the "Hydro Excavation Minimum" cost, use this task

exclusively. This task should not be used in conjunction with any other tasks in this section.

02 32 19 00-0004 CY Hydro Excavation, Normal Soil Conditions (Hydro-Vac Truck) 36.33

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

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 32 19 00-0005 CY Hydro Excavation, Adverse Soil Conditions (Hydro-Vac Truck).....58.13
 Note: Adverse soil conditions consist of clay, glacial till and rocks.

02 40 Demolition and Structure Moving (02)

02 41 Demolition (02 40)

02 41 13 Selective Site Demolition (02 41)

02 41 13 13 Paving Removal (02 41 13)

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

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

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

02 41 13 13-0002	SY	Up To 3" By Machine, Break-up And Leave In Place Bituminous Paving	6.98
		For >500 To 1,000, Deduct	-0.70
		For >1,000 To 2,500, Deduct	-1.26
		For >2,500 To 5,000, Deduct	-1.81
		For >5,000 To 10,000, Deduct	-2.37
		For >10,000, Deduct	-2.93
02 41 13 13-0003	SY	>3" To 6" By Machine, Break-up And Leave In Place Bituminous Paving	10.47
		For >500 To 1,000, Deduct	-1.05
		For >1,000 To 2,500, Deduct	-1.88
		For >2,500 To 5,000, Deduct	-2.72
		For >5,000 To 10,000, Deduct	-3.56
		For >10,000, Deduct	-4.40
02 41 13 13-0004	SY	Up To 3" By Machine, Break-up And Leave In Place Concrete Paving	13.63
		For >500 To 1,000, Deduct	-1.36
		For >1,000 To 2,500, Deduct	-2.45
		For >2,500 To 5,000, Deduct	-3.54
		For >5,000 To 10,000, Deduct	-4.63
		For >10,000, Deduct	-5.72
02 41 13 13-0005	SY	>3" To 6" By Machine, Break-up And Leave In Place Concrete Paving	19.26
		For >500 To 1,000, Deduct	-1.93
		For >1,000 To 2,500, Deduct	-3.47
		For >2,500 To 5,000, Deduct	-5.01
		For >5,000 To 10,000, Deduct	-6.55
		For >10,000, Deduct	-8.09
02 41 13 13-0006	SY	>6" To 9" By Machine, Break-up And Leave In Place Concrete Paving	27.28
		For >500 To 1,000, Deduct	-2.73
		For >1,000 To 2,500, Deduct	-4.91
		For >2,500 To 5,000, Deduct	-7.09
		For >5,000 To 10,000, Deduct	-9.28
		For >10,000, Deduct	-11.46
02 41 13 13-0007	SY	>9" To 14" By Machine, Break-up And Leave In Place Concrete Paving.....	38.50
		For >500 To 1,000, Deduct	-3.85
		For >1,000 To 2,500, Deduct	-6.93
		For >2,500 To 5,000, Deduct	-10.01
		For >5,000 To 10,000, Deduct	-13.09
		For >10,000, Deduct	-16.17
02 41 13 13-0008	SY	>14" To 19" By Machine, Break-up And Leave In Place Concrete Paving.....	50.35
		For >500 To 1,000, Deduct	-5.04
		For >1,000 To 2,500, Deduct	-9.06
		For >2,500 To 5,000, Deduct	-13.09
		For >5,000 To 10,000, Deduct	-17.12
		For >10,000, Deduct	-21.15
02 41 13 13-0009	SY	>19" To 24" By Machine, Break-up And Leave In Place Concrete Paving.....	65.46
		For >500 To 1,000, Deduct	-6.55
		For >1,000 To 2,500, Deduct	-11.78
		For >2,500 To 5,000, Deduct	-17.02
		For >5,000 To 10,000, Deduct	-22.26
		For >10,000, Deduct	-27.49

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

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

02 41 13 13-0011	SF	Up To 3" By Hand, Break-up And Leave In Place Bituminous Paving	1.65
02 41 13 13-0012	SF	>3" To 6" By Hand, Break-up And Leave In Place Bituminous Paving	2.10
02 41 13 13-0013	SF	>6" To 8" By Hand, Break-up And Leave In Place Bituminous Paving	2.78
02 41 13 13-0014	SF	Up To 3" By Hand, Break-up And Leave In Place Concrete Paving	2.07
02 41 13 13-0015	SF	>3" To 6" By Hand, Break-up And Leave In Place Concrete Paving	2.63
02 41 13 13-0016	SF	>6" To 8" By Hand, Break-up And Leave In Place Concrete Paving	3.48



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0017 By Machine, Break-up And Remove Bituminous And Concrete Paving <small>(02 41 13¹³)</small>		
<small>Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Excludes saw cutting (where required) and disposal. See CSI section 02 41 19 13-0057 for saw cutting.</small>		
02 41 13 13-0018 SY Up To 3" By Machine, Break-up And Remove Bituminous Paving	15.22	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	4.57	
For Elevated Slab, Add	7.61	
For >500 To 1,000, Deduct	-1.52	
For >1,000 To 2,500, Deduct	-2.74	
For >2,500 To 5,000, Deduct	-3.96	
For >5,000 To 10,000, Deduct	-5.17	
For >10,000, Deduct	-6.39	
02 41 13 13-0019 SY >3" To 6" By Machine, Break-up And Remove Bituminous Paving.....	20.78	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	6.23	
For Elevated Slab, Add	10.39	
For >500 To 1,000, Deduct	-2.08	
For >1,000 To 2,500, Deduct	-3.74	
For >2,500 To 5,000, Deduct	-5.40	
For >5,000 To 10,000, Deduct	-7.07	
For >10,000, Deduct	-8.73	
02 41 13 13-0020 SY Up To 3" By Machine, Break-up And Remove Non Reinforced Concrete Paving.....	17.51	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	5.25	
For Elevated Slab, Add	8.76	
For >500 To 1,000, Deduct	-1.75	
For >1,000 To 2,500, Deduct	-3.15	
For >2,500 To 5,000, Deduct	-4.55	
For >5,000 To 10,000, Deduct	-5.95	
For >10,000, Deduct	-7.35	
02 41 13 13-0021 SY >3" To 6" By Machine, Break-up And Remove Non Reinforced Concrete Paving.....	22.91	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	6.87	
For Elevated Slab, Add	11.46	
For >500 To 1,000, Deduct	-2.29	
For >1,000 To 2,500, Deduct	-4.12	
For >2,500 To 5,000, Deduct	-5.96	
For >5,000 To 10,000, Deduct	-7.79	
For >10,000, Deduct	-9.62	
02 41 13 13-0022 SY Up To 3" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	23.24	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	6.97	
For Elevated Slab, Add	11.62	
For >500 To 1,000, Deduct	-2.32	
For >1,000 To 2,500, Deduct	-4.18	
For >2,500 To 5,000, Deduct	-6.04	
For >5,000 To 10,000, Deduct	-7.90	
For >10,000, Deduct	-9.76	
02 41 13 13-0023 SY >3" To 6" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	30.11	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	9.03	
For Elevated Slab, Add	15.06	
For >500 To 1,000, Deduct	-3.01	
For >1,000 To 2,500, Deduct	-5.42	
For >2,500 To 5,000, Deduct	-7.83	
For >5,000 To 10,000, Deduct	-10.24	
For >10,000, Deduct	-12.65	
02 41 13 13-0024 SY >6" To 9" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	49.91	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	14.97	
For Elevated Slab, Add	24.96	
For >500 To 1,000, Deduct	-4.99	
For >1,000 To 2,500, Deduct	-8.98	
For >2,500 To 5,000, Deduct	-12.98	
For >5,000 To 10,000, Deduct	-16.97	
For >10,000, Deduct	-20.96	
02 41 13 13-0025 SY Up To 3" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	25.20	
For Elevated Slab, Add	12.60	
For >500 To 1,000, Deduct	-2.52	
For >1,000 To 2,500, Deduct	-4.54	
For >2,500 To 5,000, Deduct	-6.55	
For >5,000 To 10,000, Deduct	-8.57	
For >10,000, Deduct	-10.58	
02 41 13 13-0026 SY >3" To 6" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	32.40	
For Elevated Slab, Add	16.20	
For >500 To 1,000, Deduct	-3.24	
For >1,000 To 2,500, Deduct	-5.83	
For >2,500 To 5,000, Deduct	-8.42	
For >5,000 To 10,000, Deduct	-11.02	
For >10,000, Deduct	-13.61	
02 41 13 13-0027 SY >6" To 9" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	57.92	
For Elevated Slab, Add	28.96	
For >500 To 1,000, Deduct	-5.79	
For >1,000 To 2,500, Deduct	-10.43	
For >2,500 To 5,000, Deduct	-15.06	
For >5,000 To 10,000, Deduct	-19.69	
For >10,000, Deduct	-24.33	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0028	SY		>9" To 14" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	75.60	
			<i>For Elevated Slab, Add</i>	37.80	
			<i>For >500 To 1,000, Deduct</i>	-7.56	
			<i>For >1,000 To 2,500, Deduct</i>	-13.61	
			<i>For >2,500 To 5,000, Deduct</i>	-19.66	
			<i>For >5,000 To 10,000, Deduct</i>	-25.70	
			<i>For >10,000, Deduct</i>	-31.75	
02 41 13 13-0029	SY		>14" To 19" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	98.83	
			<i>For Elevated Slab, Add</i>	49.42	
			<i>For >500 To 1,000, Deduct</i>	-9.88	
			<i>For >1,000 To 2,500, Deduct</i>	-17.79	
			<i>For >2,500 To 5,000, Deduct</i>	-25.70	
			<i>For >5,000 To 10,000, Deduct</i>	-33.60	
			<i>For >10,000, Deduct</i>	-41.51	
02 41 13 13-0030	SY		>19" To 24" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	119.95	
			<i>For Elevated Slab, Add</i>	59.98	
			<i>For >500 To 1,000, Deduct</i>	-12.00	
			<i>For >1,000 To 2,500, Deduct</i>	-21.59	
			<i>For >2,500 To 5,000, Deduct</i>	-31.19	
			<i>For >5,000 To 10,000, Deduct</i>	-40.78	
			<i>For >10,000, Deduct</i>	-50.38	
02 41 13 13-0031			By Hand, Break-up And Remove Bituminous And Concrete Paving (02 41 13 13) Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Excludes saw cutting (where required) and disposal. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 13 13-0032	SF		>6" To 8" By Hand, Break-up And Remove Bituminous Paving.....	6.32	
02 41 13 13-0033	SF		Up To 3" By Hand, Break-up And Remove Concrete Paving.....	4.62	
02 41 13 13-0034	SF		>3" To 6" By Hand, Break-up And Remove Concrete Paving.....	6.37	
02 41 13 13-0035	SF		>6" To 8" By Hand, Break-up And Remove Concrete Paving.....	8.16	
02 41 13 13-0036	SF		Up To 3" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	6.46	
02 41 13 13-0037	SF		>3" To 6" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	8.92	
02 41 13 13-0038	SF		>6" To 8" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	11.43	
02 41 13 13-0039			Grind Concrete (02 41 13 13) Note: For each location up to 5' wide, feather up to 12" each direction.		
02 41 13 13-0040	EA		Grind Existing Sidewalks Up To 1/2" Depth To Remove Ridges (Tripping Hazard).....	219.26	
			<i>For >1/2" To 1" Depth Of Grinding, Add</i>	32.89	
			<i>For >1" To 1-1/2" Depth Of Grinding, Add</i>	54.82	
			<i>For Up To 5, Add</i>	43.85	
			<i>For >5 To 10, Add</i>	21.93	
			<i>For >25 To 50, Deduct</i>	-21.93	
			<i>For >50 To 250, Deduct</i>	-32.89	
			<i>For >250, Deduct</i>	-43.85	
			<i>For Sidewalks >5', Add</i>	21.93	
			<i>For Up To 12" Additional Feathering Per Side, Add</i>	21.93	
02 41 13 13-0041			Repair Uneven Sidewalks (02 41 13 13) Note: (1 inch foot = 1 inch high X 1 linear foot long). Example for sample trip hazard: 1/2" high on one side, Zero on the other side, 4 linear foot long. Calculation for height would be: (1/2 + 0)/2=1/4 inch average. Calculation for length would be: 1/4 inch average X 4 feet = 1 inch foot.		
02 41 13 13-0042	IF		Up To 2000 Inch Feet Repair Uneven Sidewalks.....	75.35	
02 41 13 13-0043	IF		2000 To 3000 Inch Feet Repair Uneven Sidewalks.....	71.48	
02 41 13 13-0044	IF		3000 And Up Inch Feet Repair Uneven Sidewalks.....	67.62	
02 41 13 15			Hydro Demolition (02 41 13)		
02 41 13 15-0001			Hydro Demolition Of Concrete Pavement (02 41 13 15) Note: Includes removal but excludes disposal of concrete.		
02 41 13 15-0002	SF		Up To 2" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	7.18	
02 41 13 15-0003	SF		>2" To 4" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	8.98	
02 41 13 15-0004	SF		>4" To 6" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	12.02	
02 41 13 15-0005	SF		>6" To 8" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	23.93	
02 41 19			Selective Demolition (02 41)		
02 41 19 13			Selective Building Demolition (02 41 19)		
02 41 19 13-0001			Exterior Masonry Removal (02 41 19 13)		
02 41 19 13-0002			Masonry Columns Removal (Interior And Exterior) (02 41 19 13-0001)		
02 41 19 13-0003	VLF		8" x 8" Masonry Column Removal.....	13.35	
02 41 19 13-0004	VLF		10" x 10" Masonry Column Removal.....	20.86	
02 41 19 13-0005	VLF		12" x 12" Masonry Column Removal.....	26.72	
02 41 19 13-0006	VLF		14" x 14" Masonry Column Removal.....	33.45	
02 41 19 13-0007	VLF		16" x 16" Masonry Column Removal.....	41.09	
02 41 19 13-0008	CF		Masonry Column Removal, Per CF Of Masonry Removed; For Other Sizes Over 16" Square.....	23.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0009 Masonry Chimney Removal <small>(02 41 19 13-0001)</small>		
02 41 19 13-0010 CF Up To 3 CF/VLF Chimney Removal, Per CF Of Masonry Removed	27.07	
02 41 19 13-0011 CF >3 To 10 CF/VLF Chimney Removal, Per CF Of Masonry Removed	20.32	
02 41 19 13-0012 CF >10 To 20 CF/VLF Chimney Removal, Per CF Of Masonry Removed	15.55	
02 41 19 13-0013 CF >20 CF/VLF Chimney Removal, Per CF Of Masonry Removed	10.77	
02 41 19 13-0014 Remove And Reset Precast, Stone Or Masonry Coping <small>(02 41 19 13-0001)</small>		
<small>Note: Includes removing, cleaning, and resetting coping with new ties and mortar. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.</small>		
02 41 19 13-0015 LF Up To 8" Wide, Remove And Reset Precast, Stone Or Masonry Coping	18.76	
02 41 19 13-0016 LF >8" To 12" Wide, Remove And Reset Precast, Stone Or Masonry Coping	28.08	
02 41 19 13-0017 LF >12" To 24" Wide, Remove And Reset Precast, Stone Or Masonry Coping	53.70	
02 41 19 13-0018 Facade Removal <small>(02 41 19 13-0001)</small>		
<small>Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.</small>		
02 41 19 13-0019 SF Stone Or Brick Veneer Facade Removal	5.08	
<i>For Cleaning and Storage For Reuse, Add</i>	7.62	
<i>For Reinforcing, Add</i>	0.76	
02 41 19 13-0020 Exterior Masonry Removal <small>(02 41 19 13-0001)</small>		
<small>Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Salvage modifier includes removing mortar, scraping, cleaning, placement on pallets and storage on site. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.</small>		
02 41 19 13-0021 SF Demolish 4" Thick Non Reinforced Concrete Block Exterior Wall	4.47	
02 41 19 13-0022 SF Demolish 6" Thick Non Reinforced Concrete Block Exterior Wall	5.04	
02 41 19 13-0023 SF Demolish 8" Thick Non Reinforced Concrete Block Exterior Wall	6.10	
02 41 19 13-0024 SF Demolish 10" Thick Non Reinforced Concrete Block Exterior Wall	6.66	
02 41 19 13-0025 SF Demolish 12" Thick Non Reinforced Concrete Block Exterior Wall	7.31	
02 41 19 13-0026 SF Demolish 16" Thick Non Reinforced Concrete Block Exterior Wall	9.15	
02 41 19 13-0027 SF Demolish 4" Thick Reinforced Concrete Block Exterior Wall	5.29	
02 41 19 13-0028 SF Demolish 6" Thick Reinforced Concrete Block Exterior Wall	6.05	
02 41 19 13-0029 SF Demolish 8" Thick Reinforced Concrete Block Exterior Wall	7.31	
02 41 19 13-0030 SF Demolish 10" Thick Reinforced Concrete Block Exterior Wall	8.00	
02 41 19 13-0031 SF Demolish 12" Thick Reinforced Concrete Block Exterior Wall	8.78	
02 41 19 13-0032 SF Demolish 16" Thick Reinforced Concrete Block Exterior Wall	10.98	
02 41 19 13-0033 SF Demolish 4" Thick Brick Exterior Wall	4.47	
<i>For Cleaning and Storage For Reuse, Add</i>	6.71	
02 41 19 13-0034 SF Demolish 6" Thick Brick Exterior Wall	5.04	
<i>For Cleaning and Storage For Reuse, Add</i>	7.56	
02 41 19 13-0035 SF Demolish 8" Thick Brick Exterior Wall	6.10	
<i>For Cleaning and Storage For Reuse, Add</i>	9.15	
02 41 19 13-0036 SF Demolish 10" Thick Brick Exterior Wall	6.66	
<i>For Cleaning and Storage For Reuse, Add</i>	9.99	
02 41 19 13-0037 SF Demolish 12" Thick Brick Exterior Wall	7.31	
<i>For Cleaning and Storage For Reuse, Add</i>	10.97	
02 41 19 13-0038 SF Demolish 16" Thick Brick Exterior Wall	9.15	
<i>For Cleaning and Storage For Reuse, Add</i>	13.73	
02 41 19 13-0039 CF Exterior Brick, Concrete Block Or Composite Removal	13.01	
<i>For Cleaning and Storage For Reuse, Add</i>	19.52	
<i>For Reinforcing, Add</i>	1.95	
02 41 19 13-0040 Lintel Removal <small>(02 41 19 13-0001)</small>		
<small>Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.</small>		
02 41 19 13-0041 LF Demolish Steel Lintel	16.91	
02 41 19 13-0042 LF Demolish Concrete Or Stone Lintel	22.55	
02 41 19 13-0043 LF Demolish Steel Shelf Angle	17.86	
02 41 19 13-0044 Reinstall Lintel <small>(02 41 19 13-0001)</small>		
<small>Note: Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.</small>		
02 41 19 13-0045 LF Clean, Prime And Paint Steel Shelf Angle Or Lintel	10.89	
02 41 19 13-0046 LF Reinstall Existing Concrete Or Stone Lintel	22.55	
02 41 19 13-0047 LF Reinstall Existing Steel Shelf Angle	45.66	
<small>Note: Includes fasteners.</small>		
02 41 19 13-0048 LF Reinstall Existing Steel Lintel	18.79	
02 41 19 13-0049 LF Removal And Replacement Of Steel Shelf Angle Over Window Openings At Cavity Walls	81.39	
02 41 19 13-0050 LF Removal And Replacement Of Steel Lintel Over Window Openings	133.62	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 41 19 13-0051	Exterior Concrete Wall Removal <small>(02 41 19 13)</small>	
02 41 19 13-0052	SF Demolish 4" Thick Reinforced Concrete Exterior Wall	6.18
02 41 19 13-0053	SF Demolish 6" Thick Reinforced Concrete Exterior Wall	11.20
02 41 19 13-0054	SF Demolish 8" Thick Reinforced Concrete Exterior Wall	14.07
02 41 19 13-0055	SF Demolish 10" Thick Reinforced Concrete Exterior Wall	16.61
02 41 19 13-0056	SF Demolish 12" Thick Reinforced Concrete Exterior Wall	19.63

02 41 19 13-0057	Saw Cutting <small>(02 41 19 13)</small>	
	Note: Includes blade wear, water, taping off area, layout, clean-up and mist spray with wet vacuuming for dust control where necessary. For projects where the total saw cutting charge is less than the minimum charge, use task "Saw Cut Minimum Charge" exclusively. Task "Saw Cut Minimum Charge" should not be used in conjunction with any other tasks in this section.	
02 41 19 13-0058	LF Bituminous Paving Up To 4" Depth, Saw Cut	2.14
	For Each Additional Pass (Depth To 3"), Add	0.83
	For >250, Deduct	-0.21
02 41 19 13-0059	LF Brick Masonry Up To 4" Depth, Saw Cut	8.14
	For Each Additional Pass (Depth To 3"), Add	3.23
	For >250, Deduct	-0.81
02 41 19 13-0060	LF Concrete Block Up To 4" Depth, Saw Cut	7.35
	For Each Additional Pass (Depth To 3"), Add	2.91
	For >250, Deduct	-0.73
02 41 19 13-0061	LF Non Reinforced Concrete Slab Or Paving Up To 4" Depth, Saw Cut	2.44
	For Each Additional Pass (Depth To 3"), Add	0.94
	For >250, Deduct	-0.23
02 41 19 13-0062	LF Welded Wire Reinforced Concrete Slab Up To 4" Depth, Saw Cut	3.23
	For Each Additional Pass (Depth To 3"), Add	1.25
	For >250, Deduct	-0.31
02 41 19 13-0063	LF Rod Reinforced Concrete Slab Up To 4" Depth, Saw Cut	5.38
	For Each Additional Pass (Depth To 3"), Add	2.11
	For >250, Deduct	-0.52
02 41 19 13-0064	LF Plain Concrete Walls Up To 4" Depth, Saw Cut	10.41
	For Each Additional Pass (Depth To 3"), Add	4.13
	For >250, Deduct	-1.03
02 41 19 13-0065	LF Saw Cut Rod Reinforced Concrete Walls Up To 4" Depth	13.99
	For Each Additional Pass (Depth To 3"), Add	5.56
	For >250, Deduct	-1.39
02 41 19 13-0066	LF Concrete And Asphalt Up To 4" Depth, Saw Cut In Streets	2.87
	For Each Additional Pass (Depth To 3"), Add	1.03
	For >250, Deduct	-0.25
02 41 19 13-0067	LF Igneous Stone Pavements Up To 4" Depth, Saw Cut	7.37
	For Each Additional Pass (Depth To 3"), Add	2.92
	For >250, Deduct	-0.73
02 41 19 13-0068	LF Sedimentary Stone Pavements Up To 4" Depth, Saw Cut	7.37
	For Each Additional Pass (Depth To 3"), Add	2.92
	For >250, Deduct	-0.73
02 41 19 13-0069	LF Metamorphic Stone Pavements Up To 4" Depth, Saw Cut	7.37
	For Each Additional Pass (Depth To 3"), Add	2.92
	For >250, Deduct	-0.73
02 41 19 13-0070	LF Terrazzo Stone Pavements Up To 4" Depth, Saw Cut	7.37
	For Each Additional Pass (Depth To 3"), Add	2.92
	For >250, Deduct	-0.73
02 41 19 13-0071	EA Saw Cut Minimum Set-up Charge, One Per Project	1,022.31
	Note: For projects where the total saw cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	

02 41 19 13-0072	Torch Cutting <small>(02 41 19 13)</small>	
	Note: Includes grinding edge	
02 41 19 13-0073	LF Up To 1/2", Torch Cut Steel Plate	2.83
02 41 19 13-0074	LF >1/2" To 1" Thick, Torch Cut Steel Plate	5.65
02 41 19 13-0075	LF >1" To 1-1/2" Thick, Torch Cut Steel Plate	8.49
02 41 19 13-0076	LF >1-1/2" To 2" Thick, Torch Cut Steel Plate	11.31
02 41 19 13-0077	LF >2" To 2-1/2" Thick, Torch Cut Steel Plate	14.14
02 41 19 13-0078	LF >2-1/2" To 3" Thick, Torch Cut Steel Plate	16.96
02 41 19 13-0079	EA Torch Cutting Minimum Charge	931.08
	Note: For projects where the total torch cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	

02 41 19 13-0080	Drilling In Existing Materials <small>(02 41 19 13)</small>	
	Note: Includes drill bit wear, water, layout, set-up and clean-up.	
02 41 19 13-0081	Concrete Core Drilling <small>(02 41 19 13-0080)</small>	
02 41 19 13-0082	Up To 4" Thick Concrete Core Drilling <small>(02 41 19 13-0081)</small>	
02 41 19 13-0083	EA Drill 1" Diameter Core In Up To 4" Concrete	39.74
	For Horizontal Cores, Add	7.90
	For Overhead Ceiling Cores (Where Not Accessible From Above), Add	15.81
02 41 19 13-0084	EA Drill 1-1/2" Diameter Core In Up To 4" Concrete	44.12
	For Horizontal Cores, Add	8.78
	For Overhead Ceiling Cores (Where Not Accessible From Above), Add	17.56



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0085 EA Drill 2" Diameter Core In Up To 4" Concrete.....	49.01	
<i>For Horizontal Cores, Add</i>	9.76	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	19.52	
02 41 19 13-0086 EA Drill 3" Diameter Core In Up To 4" Concrete.....	70.00	
<i>For Horizontal Cores, Add</i>	13.94	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	27.88	
02 41 19 13-0087 EA Drill 4" Diameter Core In Up To 4" Concrete.....	93.79	
<i>For Horizontal Cores, Add</i>	18.68	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	37.36	
02 41 19 13-0088 EA Drill 6" Diameter Core In Up To 4" Concrete.....	105.05	
<i>For Horizontal Cores, Add</i>	20.91	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	41.82	
02 41 19 13-0089 EA Drill 8" Diameter Core In Up To 4" Concrete.....	167.97	
<i>For Horizontal Cores, Add</i>	33.46	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	66.92	
02 41 19 13-0090 EA Drill 10" Diameter Core In Up To 4" Concrete.....	210.04	
<i>For Horizontal Cores, Add</i>	41.82	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	83.65	
02 41 19 13-0091 EA Drill 12" Diameter Core In Up To 4" Concrete.....	245.08	
<i>For Horizontal Cores, Add</i>	48.80	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	97.59	
02 41 19 13-0092 EA Drill 14" Diameter Core In Up To 4" Concrete.....	280.11	
<i>For Horizontal Cores, Add</i>	55.76	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	111.52	
02 41 19 13-0093 EA Drill 18" Diameter Core In Up To 4" Concrete.....	315.32	
<i>For Horizontal Cores, Add</i>	62.73	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	125.46	
02 41 19 13-0094 >4" To 6" Thick Concrete Core Drilling (02 41 19 13-0081)		
02 41 19 13-0095 EA Drill 1" Diameter Core In >4" To 6" Concrete.....	56.78	
<i>For Horizontal Cores, Add</i>	11.29	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	22.58	
02 41 19 13-0096 EA Drill 1-1/2" Diameter Core In >4" To 6" Concrete.....	63.05	
<i>For Horizontal Cores, Add</i>	12.54	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	25.09	
02 41 19 13-0097 EA Drill 2" Diameter Core In >4" To 6" Concrete.....	70.02	
<i>For Horizontal Cores, Add</i>	13.94	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	27.88	
02 41 19 13-0098 EA Drill 3" Diameter Core In >4" To 6" Concrete.....	84.09	
<i>For Horizontal Cores, Add</i>	16.73	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	33.46	
02 41 19 13-0099 EA Drill 4" Diameter Core In >4" To 6" Concrete.....	105.16	
<i>For Horizontal Cores, Add</i>	20.91	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	41.82	
02 41 19 13-0100 EA Drill 6" Diameter Core In >4" To 6" Concrete.....	140.16	
<i>For Horizontal Cores, Add</i>	27.88	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	55.76	
02 41 19 13-0101 EA Drill 8" Diameter Core In >4" To 6" Concrete.....	210.14	
<i>For Horizontal Cores, Add</i>	41.82	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	83.65	
02 41 19 13-0102 EA Drill 10" Diameter Core In >4" To 6" Concrete.....	245.36	
<i>For Horizontal Cores, Add</i>	48.80	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	97.59	
02 41 19 13-0103 EA Drill 12" Diameter Core In >4" To 6" Concrete.....	280.45	
<i>For Horizontal Cores, Add</i>	55.76	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	111.52	
02 41 19 13-0104 EA Drill 14" Diameter Core In >4" To 6" Concrete.....	315.64	
<i>For Horizontal Cores, Add</i>	62.73	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	125.46	
02 41 19 13-0105 EA Drill 18" Diameter Core In >4" To 6" Concrete.....	351.11	
<i>For Horizontal Cores, Add</i>	69.70	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	139.40	
02 41 19 13-0106 >6" To 8" Thick Concrete Core Drilling (02 41 19 13-0081)		
02 41 19 13-0107 EA Drill 1" Diameter Core In >6" To 8" Concrete.....	62.55	
<i>For Horizontal Cores, Add</i>	12.42	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	24.84	
02 41 19 13-0108 EA Drill 1-1/2" Diameter Core In >6" To 8" Concrete.....	69.46	
<i>For Horizontal Cores, Add</i>	13.80	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	27.60	
02 41 19 13-0109 EA Drill 2" Diameter Core In >6" To 8" Concrete.....	77.12	
<i>For Horizontal Cores, Add</i>	15.33	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	30.67	
02 41 19 13-0110 EA Drill 3" Diameter Core In >6" To 8" Concrete.....	91.24	
<i>For Horizontal Cores, Add</i>	18.12	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	36.25	
02 41 19 13-0111 EA Drill 4" Diameter Core In >6" To 8" Concrete.....	119.30	
<i>For Horizontal Cores, Add</i>	23.70	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	47.40	
02 41 19 13-0112 EA Drill 6" Diameter Core In >6" To 8" Concrete.....	168.30	
<i>For Horizontal Cores, Add</i>	33.46	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	66.92	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0113	EA		Drill 8" Diameter Core In >6" To 8" Concrete	280.17	
			<i>For Horizontal Cores, Add</i>	55.76	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	111.52	
02 41 19 13-0114	EA		Drill 10" Diameter Core In >6" To 8" Concrete	315.47	
			<i>For Horizontal Cores, Add</i>	62.73	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	125.46	
02 41 19 13-0115	EA		Drill 12" Diameter Core In >6" To 8" Concrete	350.70	
			<i>For Horizontal Cores, Add</i>	69.70	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	139.40	
02 41 19 13-0116	EA		Drill 14" Diameter Core In >6" To 8" Concrete	385.99	
			<i>For Horizontal Cores, Add</i>	76.66	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	153.32	
02 41 19 13-0117	EA		Drill 18" Diameter Core In >6" To 8" Concrete	421.74	
			<i>For Horizontal Cores, Add</i>	83.65	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	167.29	
02 41 19 13-0118			>8" To 10" Thick Concrete Core Drilling (02 41 19 13-0081)		
02 41 19 13-0119	EA		Drill 1" Diameter Core In >8" To 10" Concrete	73.97	
			<i>For Horizontal Cores, Add</i>	14.68	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	29.36	
02 41 19 13-0120	EA		Drill 1-1/2" Diameter Core In >8" To 10" Concrete	82.12	
			<i>For Horizontal Cores, Add</i>	16.31	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	32.62	
02 41 19 13-0121	EA		Drill 2" Diameter Core In >8" To 10" Concrete	91.18	
			<i>For Horizontal Cores, Add</i>	18.12	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	36.24	
02 41 19 13-0122	EA		Drill 3" Diameter Core In >8" To 10" Concrete	105.34	
			<i>For Horizontal Cores, Add</i>	20.91	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	41.82	
02 41 19 13-0123	EA		Drill 4" Diameter Core In >8" To 10" Concrete	119.51	
			<i>For Horizontal Cores, Add</i>	23.70	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	47.40	
02 41 19 13-0124	EA		Drill 6" Diameter Core In >8" To 10" Concrete	168.56	
			<i>For Horizontal Cores, Add</i>	33.46	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	66.92	
02 41 19 13-0125	EA		Drill 8" Diameter Core In >8" To 10" Concrete	280.51	
			<i>For Horizontal Cores, Add</i>	55.76	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	111.52	
02 41 19 13-0126	EA		Drill 10" Diameter Core In >8" To 10" Concrete	315.93	
			<i>For Horizontal Cores, Add</i>	62.73	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	125.46	
02 41 19 13-0127	EA		Drill 12" Diameter Core In >8" To 10" Concrete	351.18	
			<i>For Horizontal Cores, Add</i>	69.69	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	139.38	
02 41 19 13-0128	EA		Drill 14" Diameter Core In >8" To 10" Concrete	386.68	
			<i>For Horizontal Cores, Add</i>	76.66	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	153.32	
02 41 19 13-0129	EA		Drill 18" Diameter Core In >8" To 10" Concrete	422.55	
			<i>For Horizontal Cores, Add</i>	83.63	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	167.25	
02 41 19 13-0130			>10" To 12" Thick Concrete Core Drilling (02 41 19 13-0081)		
02 41 19 13-0131	EA		Drill 1" Diameter Core In >10" To 12" Concrete	79.74	
			<i>For Horizontal Cores, Add</i>	15.81	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	31.62	
02 41 19 13-0132	EA		Drill 1-1/2" Diameter Core In >10" To 12" Concrete	88.52	
			<i>For Horizontal Cores, Add</i>	17.57	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	35.13	
02 41 19 13-0133	EA		Drill 2" Diameter Core In >10" To 12" Concrete	98.28	
			<i>For Horizontal Cores, Add</i>	19.52	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	39.04	
02 41 19 13-0134	EA		Drill 3" Diameter Core In >10" To 12" Concrete	105.51	
			<i>For Horizontal Cores, Add</i>	20.91	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	41.82	
02 41 19 13-0135	EA		Drill 4" Diameter Core In >10" To 12" Concrete	140.64	
			<i>For Horizontal Cores, Add</i>	27.88	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	55.76	
02 41 19 13-0136	EA		Drill 6" Diameter Core In >10" To 12" Concrete	182.75	
			<i>For Horizontal Cores, Add</i>	36.25	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	72.50	
02 41 19 13-0137	EA		Drill 8" Diameter Core In >10" To 12" Concrete	294.82	
			<i>For Horizontal Cores, Add</i>	58.55	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	117.10	
02 41 19 13-0138	EA		Drill 10" Diameter Core In >10" To 12" Concrete	316.38	
			<i>For Horizontal Cores, Add</i>	62.73	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	125.46	
02 41 19 13-0139	EA		Drill 12" Diameter Core In >10" To 12" Concrete	365.78	
			<i>For Horizontal Cores, Add</i>	72.50	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	145.00	
02 41 19 13-0140			>12" Thick Concrete Core Drilling (02 41 19 13-0081)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0141 IN Drill 1" Diameter Core In >12" Concrete	9.72	
<i>For Horizontal Cores, Add</i>	1.93	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	3.86	
02 41 19 13-0142 IN Drill 1-1/2" Diameter Core In >12" Concrete	10.80	
<i>For Horizontal Cores, Add</i>	2.15	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.30	
02 41 19 13-0143 IN Drill 2" Diameter Core In >12" Concrete	11.99	
<i>For Horizontal Cores, Add</i>	2.39	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.77	
02 41 19 13-0144 IN Drill 3" Diameter Core In >12" Concrete	13.14	
<i>For Horizontal Cores, Add</i>	2.61	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	5.22	
02 41 19 13-0145 IN Drill 4" Diameter Core In >12" Concrete	17.51	
<i>For Horizontal Cores, Add</i>	3.48	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	6.96	
02 41 19 13-0146 IN Drill 6" Diameter Core In >12" Concrete	22.80	
<i>For Horizontal Cores, Add</i>	4.53	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	9.07	
02 41 19 13-0147 IN Drill 8" Diameter Core In >12" Concrete	36.80	
<i>For Horizontal Cores, Add</i>	7.33	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	14.65	
02 41 19 13-0148 IN Drill 10" Diameter Core In >12" Concrete	39.60	
<i>For Horizontal Cores, Add</i>	7.87	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	15.75	
02 41 19 13-0149 IN Drill 12" Diameter Core In >12" Concrete	45.61	
<i>For Horizontal Cores, Add</i>	9.07	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	18.14	
02 41 19 13-0150 Brick/Concrete Block Core Drilling (02 41 19 13-0080)		
02 41 19 13-0151 Up To 4" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0152 EA Drill 1" Diameter Core In Up To 4" Brick/Concrete Block	31.84	
<i>For Horizontal Cores, Add</i>	6.32	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	12.65	
02 41 19 13-0153 EA Drill 1-1/2" Diameter Core In Up To 4" Brick/Concrete Block	35.34	
<i>For Horizontal Cores, Add</i>	7.02	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	14.05	
02 41 19 13-0154 EA Drill 2" Diameter Core In Up To 4" Brick/Concrete Block	39.25	
<i>For Horizontal Cores, Add</i>	7.81	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	15.61	
02 41 19 13-0155 EA Drill 3" Diameter Core In Up To 4" Brick/Concrete Block	56.06	
<i>For Horizontal Cores, Add</i>	11.15	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	22.31	
02 41 19 13-0156 EA Drill 4" Diameter Core In Up To 4" Brick/Concrete Block	75.11	
<i>For Horizontal Cores, Add</i>	14.94	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	29.89	
02 41 19 13-0157 EA Drill 6" Diameter Core In Up To 4" Brick/Concrete Block	84.13	
<i>For Horizontal Cores, Add</i>	16.73	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	33.46	
02 41 19 13-0158 EA Drill 8" Diameter Core In Up To 4" Brick/Concrete Block	134.51	
<i>For Horizontal Cores, Add</i>	26.77	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	53.54	
02 41 19 13-0159 EA Drill 10" Diameter Core In Up To 4" Brick/Concrete Block	168.21	
<i>For Horizontal Cores, Add</i>	33.46	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	66.92	
02 41 19 13-0160 EA Drill 12" Diameter Core In Up To 4" Brick/Concrete Block	196.28	
<i>For Horizontal Cores, Add</i>	39.04	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	78.07	
02 41 19 13-0161 EA Drill 14" Diameter Core In Up To 4" Brick/Concrete Block	224.35	
<i>For Horizontal Cores, Add</i>	44.61	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	89.22	
02 41 19 13-0162 EA Drill 18" Diameter Core In Up To 4" Brick/Concrete Block	252.59	
<i>For Horizontal Cores, Add</i>	50.18	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	100.36	
02 41 19 13-0163 >4" To 6" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0164 EA Drill 1" Diameter Core In >4" To 6" Brick/Concrete Block	45.49	
<i>For Horizontal Cores, Add</i>	9.03	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	18.06	
02 41 19 13-0165 EA Drill 1-1/2" Diameter Core In >4" To 6" Brick/Concrete Block	50.50	
<i>For Horizontal Cores, Add</i>	10.03	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	20.07	
02 41 19 13-0166 EA Drill 2" Diameter Core In >4" To 6" Brick/Concrete Block	56.09	
<i>For Horizontal Cores, Add</i>	11.15	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	22.30	
02 41 19 13-0167 EA Drill 3" Diameter Core In >4" To 6" Brick/Concrete Block	67.36	
<i>For Horizontal Cores, Add</i>	13.38	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	26.76	
02 41 19 13-0168 EA Drill 4" Diameter Core In >4" To 6" Brick/Concrete Block	84.24	
<i>For Horizontal Cores, Add</i>	16.73	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	33.46	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0169 EA Drill 6" Diameter Core In >4" To 6" Brick/Concrete Block	112.28	
For Horizontal Cores, Add	22.31	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	44.61	
02 41 19 13-0170 EA Drill 8" Diameter Core In >4" To 6" Brick/Concrete Block	168.31	
For Horizontal Cores, Add	33.46	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	66.92	
02 41 19 13-0171 EA Drill 10" Diameter Core In >4" To 6" Brick/Concrete Block	196.56	
For Horizontal Cores, Add	39.04	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	78.07	
02 41 19 13-0172 EA Drill 12" Diameter Core In >4" To 6" Brick/Concrete Block	224.69	
For Horizontal Cores, Add	44.61	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	89.22	
02 41 19 13-0173 EA Drill 14" Diameter Core In >4" To 6" Brick/Concrete Block	252.91	
For Horizontal Cores, Add	50.18	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	100.36	
02 41 19 13-0174 EA Drill 18" Diameter Core In >4" To 6" Brick/Concrete Block	281.41	
For Horizontal Cores, Add	55.76	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	111.52	
02 41 19 13-0175 >6" To 8" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0176 EA Drill 1" Diameter Core In >6" To 8" Brick/Concrete Block	50.14	
For Horizontal Cores, Add	9.94	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	19.88	
02 41 19 13-0177 EA Drill 1-1/2" Diameter Core In >6" To 8" Brick/Concrete Block	55.66	
For Horizontal Cores, Add	11.04	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	22.08	
02 41 19 13-0178 EA Drill 2" Diameter Core In >6" To 8" Brick/Concrete Block	61.79	
For Horizontal Cores, Add	12.27	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	24.54	
02 41 19 13-0179 EA Drill 3" Diameter Core In >6" To 8" Brick/Concrete Block	73.12	
For Horizontal Cores, Add	14.50	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	29.00	
02 41 19 13-0180 EA Drill 4" Diameter Core In >6" To 8" Brick/Concrete Block	95.61	
For Horizontal Cores, Add	18.96	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	37.92	
02 41 19 13-0181 EA Drill 6" Diameter Core In >6" To 8" Brick/Concrete Block	134.84	
For Horizontal Cores, Add	26.77	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	53.54	
02 41 19 13-0182 EA Drill 8" Diameter Core In >6" To 8" Brick/Concrete Block	224.41	
For Horizontal Cores, Add	44.61	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	89.22	
02 41 19 13-0183 EA Drill 10" Diameter Core In >6" To 8" Brick/Concrete Block	252.74	
For Horizontal Cores, Add	50.18	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	100.36	
02 41 19 13-0184 EA Drill 12" Diameter Core In >6" To 8" Brick/Concrete Block	281.00	
For Horizontal Cores, Add	55.76	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	111.52	
02 41 19 13-0185 EA Drill 14" Diameter Core In >6" To 8" Brick/Concrete Block	309.33	
For Horizontal Cores, Add	61.33	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	122.65	
02 41 19 13-0186 EA Drill 18" Diameter Core In >6" To 8" Brick/Concrete Block	338.09	
For Horizontal Cores, Add	66.92	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	133.83	
02 41 19 13-0187 >8" To 10" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0188 EA Drill 1" Diameter Core In >8" To 10" Brick/Concrete Block	59.28	
For Horizontal Cores, Add	11.74	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	23.48	
02 41 19 13-0189 EA Drill 1-1/2" Diameter Core In >8" To 10" Brick/Concrete Block	65.81	
For Horizontal Cores, Add	13.05	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.10	
02 41 19 13-0190 EA Drill 2" Diameter Core In >8" To 10" Brick/Concrete Block	73.06	
For Horizontal Cores, Add	14.50	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	29.00	
02 41 19 13-0191 EA Drill 3" Diameter Core In >8" To 10" Brick/Concrete Block	84.42	
For Horizontal Cores, Add	16.73	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	33.46	
02 41 19 13-0192 EA Drill 4" Diameter Core In >8" To 10" Brick/Concrete Block	95.82	
For Horizontal Cores, Add	18.96	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	37.92	
02 41 19 13-0193 EA Drill 6" Diameter Core In >8" To 10" Brick/Concrete Block	135.10	
For Horizontal Cores, Add	26.77	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	53.54	
02 41 19 13-0194 EA Drill 8" Diameter Core In >8" To 10" Brick/Concrete Block	224.75	
For Horizontal Cores, Add	44.61	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	89.22	
02 41 19 13-0195 EA Drill 10" Diameter Core In >8" To 10" Brick/Concrete Block	253.20	
For Horizontal Cores, Add	50.18	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	100.36	
02 41 19 13-0196 EA Drill 12" Diameter Core In >8" To 10" Brick/Concrete Block	281.50	
For Horizontal Cores, Add	55.75	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	111.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0197 EA Drill 14" Diameter Core In >8" To 10" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	310.02 61.33 122.65	
02 41 19 13-0198 EA Drill 18" Diameter Core In >8" To 10" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	338.92 66.90 133.80	
02 41 19 13-0199 >10" To 12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0200 EA Drill 1" Diameter Core In >10" To 12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	63.92 12.65 25.29	
02 41 19 13-0201 EA Drill 1-1/2" Diameter Core In >10" To 12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	70.95 14.05 28.10	
02 41 19 13-0202 EA Drill 2" Diameter Core In >10" To 12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	78.76 15.61 31.23	
02 41 19 13-0203 EA Drill 3" Diameter Core In >10" To 12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	84.59 16.73 33.46	
02 41 19 13-0204 EA Drill 4" Diameter Core In >10" To 12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	112.76 22.31 44.61	
02 41 19 13-0205 EA Drill 6" Diameter Core In >10" To 12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	146.51 29.00 58.00	
02 41 19 13-0206 EA Drill 8" Diameter Core In >10" To 12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	236.26 46.84 93.68	
02 41 19 13-0207 EA Drill 10" Diameter Core In >10" To 12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	253.65 50.18 100.36	
02 41 19 13-0208 EA Drill 12" Diameter Core In >10" To 12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	293.28 58.00 116.00	
02 41 19 13-0209 >12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0210 IN Drill 1" Diameter Core In >12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	7.79 1.55 3.09	
02 41 19 13-0211 IN Drill 1-1/2" Diameter Core In >12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	8.65 1.72 3.44	
02 41 19 13-0212 IN Drill 2" Diameter Core In >12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	9.60 1.91 3.82	
02 41 19 13-0213 IN Drill 3" Diameter Core In >12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	10.53 2.09 4.18	
02 41 19 13-0214 IN Drill 4" Diameter Core In >12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	14.04 2.79 5.58	
02 41 19 13-0215 IN Drill 6" Diameter Core In >12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	18.27 3.63 7.26	
02 41 19 13-0216 IN Drill 8" Diameter Core In >12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	29.48 5.86 11.72	
02 41 19 13-0217 IN Drill 10" Diameter Core In >12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	31.73 6.30 12.60	
02 41 19 13-0218 IN Drill 12" Diameter Core In >12" Brick/Concrete Block <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	36.54 7.25 14.51	
02 41 19 13-0219 Asphalt Core Drilling (02 41 19 13-0080)		
02 41 19 13-0220 Up To 2" Thick Asphalt Core Drilling (02 41 19 13-0219)		
02 41 19 13-0221 EA Drill 1" Diameter Core In Up To 2" Asphalt 02 41 19 13-0222 EA Drill 1-1/2" Diameter Core In Up To 2" Asphalt 02 41 19 13-0223 EA Drill 2" Diameter Core In Up To 2" Asphalt 02 41 19 13-0224 EA Drill 3" Diameter Core In Up To 2" Asphalt 02 41 19 13-0225 EA Drill 4" Diameter Core In Up To 2" Asphalt 02 41 19 13-0226 EA Drill 6" Diameter Core In Up To 2" Asphalt 02 41 19 13-0227 EA Drill 8" Diameter Core In Up To 2" Asphalt 02 41 19 13-0228 EA Drill 10" Diameter Core In Up To 2" Asphalt 02 41 19 13-0229 EA Drill 12" Diameter Core In Up To 2" Asphalt	19.13 23.91 29.90 37.08 46.65 58.61 72.98 90.91 113.62	
02 41 19 13-0230 >2" To 3" Thick Asphalt Core Drilling (02 41 19 13-0219)		
02 41 19 13-0231 EA Drill 1" Diameter Core In >2" To 3" Asphalt	23.91	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 41 19 13-0232	EA	Drill 1-1/2" Diameter Core In >2" To 3" Asphalt	31.08
02 41 19 13-0233	EA	Drill 2" Diameter Core In >2" To 3" Asphalt.....	38.26
02 41 19 13-0234	EA	Drill 3" Diameter Core In >2" To 3" Asphalt.....	47.82
02 41 19 13-0235	EA	Drill 4" Diameter Core In >2" To 3" Asphalt.....	59.79
02 41 19 13-0236	EA	Drill 6" Diameter Core In >2" To 3" Asphalt.....	75.33
02 41 19 13-0237	EA	Drill 8" Diameter Core In >2" To 3" Asphalt.....	93.30
02 41 19 13-0238	EA	Drill 10" Diameter Core In >2" To 3" Asphalt.....	117.19
02 41 19 13-0239	EA	Drill 12" Diameter Core In >2" To 3" Asphalt.....	145.88
02 41 19 13-0240		>3" To 4" Thick Asphalt Core Drilling (02 41 19 13-0219)	
02 41 19 13-0241	EA	Drill 1" Diameter Core In >3" To 4" Asphalt.....	31.09
02 41 19 13-0242	EA	Drill 1-1/2" Diameter Core In >3" To 4" Asphalt	39.46
02 41 19 13-0243	EA	Drill 2" Diameter Core In >3" To 4" Asphalt.....	49.03
02 41 19 13-0244	EA	Drill 3" Diameter Core In >3" To 4" Asphalt.....	61.00
02 41 19 13-0245	EA	Drill 4" Diameter Core In >3" To 4" Asphalt.....	76.56
02 41 19 13-0246	EA	Drill 6" Diameter Core In >3" To 4" Asphalt.....	95.70
02 41 19 13-0247	EA	Drill 8" Diameter Core In >3" To 4" Asphalt.....	119.65
02 41 19 13-0248	EA	Drill 10" Diameter Core In >3" To 4" Asphalt.....	149.52
02 41 19 13-0249	EA	Drill 12" Diameter Core In >3" To 4" Asphalt.....	186.59
02 41 19 13-0250		>4" To 6" Thick Asphalt Core Drilling (02 41 19 13-0219)	
02 41 19 13-0251	EA	Drill 1" Diameter Core In >4" To 6" Asphalt.....	40.66
02 41 19 13-0252	EA	Drill 1-1/2" Diameter Core In >4" To 6" Asphalt	50.25
02 41 19 13-0253	EA	Drill 2" Diameter Core In >4" To 6" Asphalt.....	62.20
02 41 19 13-0254	EA	Drill 3" Diameter Core In >4" To 6" Asphalt.....	78.97
02 41 19 13-0255	EA	Drill 4" Diameter Core In >4" To 6" Asphalt.....	98.13
02 41 19 13-0256	EA	Drill 6" Diameter Core In >4" To 6" Asphalt.....	122.06
02 41 19 13-0257	EA	Drill 8" Diameter Core In >4" To 6" Asphalt.....	153.22
02 41 19 13-0258	EA	Drill 10" Diameter Core In >4" To 6" Asphalt.....	191.48
02 41 19 13-0259	EA	Drill 12" Diameter Core In >4" To 6" Asphalt.....	239.32
02 41 19 13-0260		Manhole Core Drilling (02 41 19 13-0080)	
02 41 19 13-0261	EA	Drill 4" Diameter Core In 6" Brick Manhole	209.53
02 41 19 13-0262	EA	Drill 5" Diameter Core In 6" Brick Manhole	239.45
02 41 19 13-0263	EA	Drill 6" Diameter Core In 6" Brick Manhole	279.30
02 41 19 13-0264	EA	Drill 8" Diameter Core In 6" Brick Manhole	418.91
02 41 19 13-0265	EA	Drill 2" Diameter Core In 8" Concrete Manhole.....	280.82
02 41 19 13-0266	EA	Drill 3" Diameter Core In 8" Concrete Manhole.....	298.89
02 41 19 13-0267	EA	Drill 4" Diameter Core In 8" Concrete Manhole.....	328.90
02 41 19 13-0268	EA	Drill 5" Diameter Core In 8" Concrete Manhole.....	352.86
02 41 19 13-0269	EA	Drill 6" Diameter Core In 8" Concrete Manhole.....	418.57
02 41 19 13-0270	EA	Drill 8" Diameter Core In 8" Concrete Manhole.....	597.90
02 41 19 13-0271	EA	Drill 2" Diameter Core In Fiberglass Manhole.....	27.89
02 41 19 13-0272	EA	Drill 3" Diameter Core In Fiberglass Manhole.....	32.19
02 41 19 13-0273	EA	Drill 4" Diameter Core In Fiberglass Manhole.....	34.87
02 41 19 13-0274	EA	Drill 5" Diameter Core In Fiberglass Manhole.....	38.04
02 41 19 13-0275	EA	Drill 6" Diameter Core In Fiberglass Manhole.....	41.85
02 41 19 13-0276	EA	Drill 8" Diameter Core In Fiberglass Manhole.....	46.50
02 41 19 13-0277		Drilling In Concrete Per Inch Of Depth (02 41 19 13-0080)	
Note: Includes layout.			
02 41 19 13-0278	IN	1/4" Diameter Drilling In Concrete Per Inch Of Depth	2.04
02 41 19 13-0279	IN	3/8" Diameter Drilling In Concrete Per Inch Of Depth	2.14
02 41 19 13-0280	IN	1/2" Diameter Drilling In Concrete Per Inch Of Depth	2.29
02 41 19 13-0281	IN	5/8" Diameter Drilling In Concrete Per Inch Of Depth	2.44
02 41 19 13-0282	IN	3/4" Diameter Drilling In Concrete Per Inch Of Depth	2.68
02 41 19 13-0283	IN	7/8" Diameter Drilling In Concrete Per Inch Of Depth	2.91
02 41 19 13-0284	IN	1" Diameter Drilling In Concrete Per Inch Of Depth	3.05
02 41 19 13-0285	IN	1-1/4" Diameter Drilling In Concrete Per Inch Of Depth	3.37
02 41 19 13-0286	IN	1-1/2" Diameter Drilling In Concrete Per Inch Of Depth	3.83
02 41 19 13-0287		Drilling In Brick/Concrete Block Per Inch Of Depth (02 41 19 13-0080)	
Note: Includes layout.			
02 41 19 13-0288	IN	1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.70
02 41 19 13-0289	IN	3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.78
02 41 19 13-0290	IN	1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.91
02 41 19 13-0291	IN	5/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.04
02 41 19 13-0292	IN	3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.23
02 41 19 13-0293	IN	7/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.43
02 41 19 13-0294	IN	1" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.55
02 41 19 13-0295	IN	1-1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.82
02 41 19 13-0296	IN	1-1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	3.49
02 41 19 13-0297		Drilling In Wood Or Plastic Per Inch Of Depth (02 41 19 13-0080)	
Note: Includes layout.			



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				02 41 19 13-0298 IN 1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.84	
				02 41 19 13-0299 IN 3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.89	
				02 41 19 13-0300 IN 1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.96	
				02 41 19 13-0301 IN 5/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.02	
				02 41 19 13-0302 IN 3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.12	
				02 41 19 13-0303 IN 7/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.21	
				02 41 19 13-0304 IN 1" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.28	
				02 41 19 13-0305 IN 1-1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.40	
				02 41 19 13-0306 IN 1-1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.65	
02 41 19 13-0307				Limestone Core Drilling (02 41 19 13-0080)		
02 41 19 13-0308				10" To 14" Thick Limestone Core Drilling (02 41 19 13-0307)		
			EA	02 41 19 13-0309 Drill 1" Diameter Core In 10" To 14" Limestone.....	59.93	
			EA	02 41 19 13-0310 Drill 1-1/2" Diameter Core In 10" To 14" Limestone.....	71.95	
			EA	02 41 19 13-0311 Drill 2" Diameter Core In 10" To 14" Limestone.....	77.99	
			EA	02 41 19 13-0312 Drill 3" Diameter Core In 10" To 14" Limestone.....	90.10	
			EA	02 41 19 13-0313 Drill 4" Diameter Core In 10" To 14" Limestone.....	102.22	
			EA	02 41 19 13-0314 Drill 6" Diameter Core In 10" To 14" Limestone.....	144.18	
			EA	02 41 19 13-0315 Drill 8" Diameter Core In 10" To 14" Limestone.....	239.98	
02 41 19 13-0316				15" To 18" Thick Limestone Core Drilling (02 41 19 13-0307)		
			EA	02 41 19 13-0317 Drill 1" Diameter Core In 15" To 18" Limestone.....	65.97	
			EA	02 41 19 13-0318 Drill 1-1/2" Diameter Core In 15" To 18" Limestone.....	77.99	
			EA	02 41 19 13-0319 Drill 2" Diameter Core In 15" To 18" Limestone.....	84.06	
			EA	02 41 19 13-0320 Drill 3" Diameter Core In 15" To 18" Limestone.....	90.24	
			EA	02 41 19 13-0321 Drill 4" Diameter Core In 15" To 18" Limestone.....	120.29	
			EA	02 41 19 13-0322 Drill 6" Diameter Core In 15" To 18" Limestone.....	156.28	
			EA	02 41 19 13-0323 Drill 8" Diameter Core In 15" To 18" Limestone.....	252.30	
02 41 19 13-0324				19" To 24" Thick Limestone Core Drilling (02 41 19 13-0307)		
			EA	02 41 19 13-0325 Drill 1" Diameter Core In 19" To 24" Limestone.....	71.97	
			EA	02 41 19 13-0326 Drill 1-1/2" Diameter Core In 19" To 24" Limestone.....	84.02	
			EA	02 41 19 13-0327 Drill 2" Diameter Core In 19" To 24" Limestone.....	90.11	
			EA	02 41 19 13-0328 Drill 3" Diameter Core In 19" To 24" Limestone.....	102.27	
			EA	02 41 19 13-0329 Drill 4" Diameter Core In 19" To 24" Limestone.....	144.30	
			EA	02 41 19 13-0330 Drill 6" Diameter Core In 19" To 24" Limestone.....	180.35	
			EA	02 41 19 13-0331 Drill 8" Diameter Core In 19" To 24" Limestone.....	270.60	
02 41 19 13-0332				Minimum Charge For Core Drilling (02 41 19 13-0080)		
			EA	02 41 19 13-0333 Core Drill Minimum Charge.....	822.25	
				Note: For projects where the total core drilling charge is less than the minimum charge, use task "Minimum Charge For Core Drilling" exclusively. Task "Minimum Charge For Core Drilling" should not be used in conjunction with any other tasks in this section. Does not apply to sections "Drilling In Concrete Per Inch Of Depth" or "Drilling In Brick Or Block Per Inch Of Depth".		
02 41 19 13-0334				Cutouts (02 41 19 13)		
				Note: Includes saw cutting and removal of material. Not to be used for openings greater than 24 SF.		
02 41 19 13-0335				Reinforced Concrete Slab On Grade Cutouts (02 41 19 13-0334)		
			SF	02 41 19 13-0336 4" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	46.10	
			SF	02 41 19 13-0337 6" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	48.90	
			SF	02 41 19 13-0338 8" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	51.69	
			SF	02 41 19 13-0339 10" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	54.49	
			SF	02 41 19 13-0340 12" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	55.88	
02 41 19 13-0341				Reinforced Concrete Elevated Slab Cutouts (02 41 19 13-0334)		
				Note: Includes cutting and removing steel decking.		
			SF	02 41 19 13-0342 4" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	56.19	
			SF	02 41 19 13-0343 6" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	59.59	
			SF	02 41 19 13-0344 8" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	63.00	
			SF	02 41 19 13-0345 10" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	66.40	
			SF	02 41 19 13-0346 12" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	68.11	
02 41 19 13-0347				Reinforced Concrete Wall Cutouts (02 41 19 13-0334)		
			SF	02 41 19 13-0348 4" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	57.63	
			SF	02 41 19 13-0349 6" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	61.12	
			SF	02 41 19 13-0350 8" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	64.61	
			SF	02 41 19 13-0351 10" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	68.11	
			SF	02 41 19 13-0352 12" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	69.86	
02 41 19 13-0353				Brick Wall Cutouts (02 41 19 13-0334)		
				Note: Excludes toothing.		

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 41 19 13-0354	SF	4" Thick Brick Wall Cutouts, <24 SF	17.47
02 41 19 13-0355	SF	6" Thick Brick Wall Cutouts, <24 SF	28.81
02 41 19 13-0356	SF	8" Thick Brick Wall Cutouts, <24 SF	40.13
02 41 19 13-0357	SF	10" Thick Brick Wall Cutouts, <24 SF	48.90
02 41 19 13-0358	SF	12" Thick Brick Wall Cutouts, <24 SF	58.50
02 41 19 13-0359	SF	16" Thick Brick Wall Cutouts, <24 SF	68.99

02 41 19 13-0360 Concrete Block Wall Cutouts (02 41 19 13-0334)
Note: Excludes toothing.

02 41 19 13-0361	SF	4" Thick Concrete Block Wall Cutouts, <24 SF	28.89
02 41 19 13-0362	SF	6" Thick Concrete Block Wall Cutouts, <24 SF	30.59
02 41 19 13-0363	SF	8" Thick Concrete Block Wall Cutouts, <24 SF	32.31
02 41 19 13-0364	SF	10" Thick Concrete Block Wall Cutouts, <24 SF	34.05
02 41 19 13-0365	SF	12" Thick Concrete Block Wall Cutouts, <24 SF	34.92
02 41 19 13-0366	SF	16" Thick Concrete Block Wall Cutouts, <24 SF	36.67

02 41 19 13-0367 Limestone Cutouts (02 41 19 13-0334)

02 41 19 13-0368	SF	2" Thick Limestone Cutouts, <24 SF	48.90
02 41 19 13-0369	SF	4" Thick Limestone Cutouts, <24 SF	59.37
02 41 19 13-0370	SF	6" Thick Limestone Cutouts, <24 SF	62.87
02 41 19 13-0371	SF	8" Thick Limestone Cutouts, <24 SF	66.37
02 41 19 13-0372	SF	10" Thick Limestone Cutouts, <24 SF	69.86
02 41 19 13-0373	SF	12" Thick Limestone Cutouts, <24 SF	73.35

02 41 19 13-0374 Toothing Masonry Cutouts (02 41 19 13-0334)

Note: For use where existing masonry must be removed in a toothing pattern along horizontal and vertical mortar joints. VLF measurement includes all horizontal cutting.

02 41 19 13-0375	VLF	Brick, Soft Old Mortar, Toothing Masonry Cutouts	17.47
02 41 19 13-0376	VLF	Brick, Hard Mortar, Toothing Masonry Cutouts	23.58
02 41 19 13-0377	VLF	Concrete Block, Soft Old Mortar, Toothing Masonry Cutouts	10.47
02 41 19 13-0378	VLF	Concrete Block, Hard Mortar, Toothing Masonry Cutouts	13.98

02 41 19 13-0379 Minimum Charge For Cutouts (02 41 19 13-0334)

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

02 41 19 13-0380	EA	Cutouts Minimum Charge	349.27
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02 43 Structure Moving (02 40)

02 43 13 Structure Relocation (02 43)

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

02 43 13 13 Building Relocation (02 43 13)

02 43 13 13-0001 Move Relocatable Structures (Trailer, Mobile Facilities, etc.), Complete (02 43 13)

Note: Includes disconnect portable from foundation, separate relocatable unit and attachments as needed for transport, secure all relocatable attachments (awnings, steps, ramps, railing, etc.) for transport, transport relocatable and attachments to new location, including permits and police escort, connect to foundation per approved specifications/details, including welding and/or hurricane anchoring as needed.

02 43 13 13-0002	SF	Up To 800 SF, Move Relocatable Metal Frame Building	34.28
02 43 13 13-0003	SF	>800 To 920 SF, Move Relocatable Metal Frame Building	32.39
02 43 13 13-0004	SF	>920 SF, Move Relocatable Metal Frame Building	30.32
02 43 13 13-0005	SF	Up To 800 SF, Move Relocatable Wood Frame Building	27.50
02 43 13 13-0006	SF	>800 To 920 SF, Move Relocatable Wood Frame Building	25.70
02 43 13 13-0007	SF	>920 SF, Move Relocatable Wood Frame Building	22.74
02 43 13 13-0008	SF	Up To 800 SF, Move Relocatable Wood/Metal Frame Building	33.32
02 43 13 13-0009	SF	>800 To 920 SF, Move Relocatable Wood/Metal Frame Building	30.32
02 43 13 13-0010	SF	>920 SF, Move Relocatable Wood/Metal Frame Building	25.70

02 60 Contaminated Site Material Removal (02)

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

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

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

02 61 13 00-0001 Excavation Of Non-Petroleum Contaminated Soil (02 61 13)

See CSI section 02 65 00 00-0001 for testing, 02 65 00 00-0006 for testing, 31 23 16 00-0000 for excavation of non-contaminated soil, 31 23 16 33-0019 for loading non-petroleum contaminated material onto trucks for removal.

02 61 13 00-0002 Excavate Non-Petroleum Contaminated Soil (02 61 13 00-0001)

02 61 13 00-0003	CY	Excavate Non Petroleum Contaminated Soil	8.84
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Note: Includes excavation, making a determination if the soil is reusable or contaminated, and stockpiling as per determination.



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 61 13 00-0004 CY Load Excavated Non-Petroleum Contaminated Soil.....	7.97	
02 61 13 00-0005 CY Disposal Fees Of Non-Petroleum Contaminated Soil.....	41.49	
02 61 13 00-0006 Excavate Petroleum Contaminated Soil (02 61 13)		
02 61 13 00-0007 CY Excavate Petroleum Contaminated Soil Note: Includes excavation, making a determination if the soil is reusable or contaminated, and stockpiling as per determination.	13.25	
02 61 13 00-0008 CY Load Excavated Petroleum Contaminated Soil.....	7.97	
02 61 13 00-0009 CY Disposal Fees Of Petroleum Contaminated Soil.....	66.48	
02 61 13 00-0010 Accessories For Contaminated Soil Stockpile (02 61 13)		
See CSI section 31 25 14 23-0001 for sand bags.		
02 61 13 00-0011 SF 30 Mil Liner For Contaminated Soil Storage Note: 9.93 SF of liner per 1 ton of petroleum contaminated soil.	1.39	
02 61 13 00-0012 SF 10 Mil Liner For Contaminated Soil Storage Note: 9.93 SF of liner per 1 ton of petroleum contaminated soil.	0.83	
02 61 26 Removal and Disposal of Asbestos Contaminated Soils (02 61)		
Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.		
02 61 26 00-0001 Removal and Disposal of Asbestos Contaminated Soils (02 61 26)		
Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.		
02 61 26 00-0002 EA Up To 10 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	912.78 273.83	
02 61 26 00-0003 CF >10 To 100 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	60.51 18.15	
02 61 26 00-0004 CF >100 To 250 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	40.34 12.10	
02 61 26 00-0005 CF >250 To 500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	30.30 9.09	
02 61 26 00-0006 CF >500 To 2,500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	24.20 7.26	
02 61 26 00-0007 CF >2,500 To 10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	20.58 6.17	
02 61 26 00-0008 CF >10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	18.51 5.55	
02 65 Underground Storage Tank Removal (02 60)		
Note: Petroleum gasoline is classified as a hazardous material; fuel oil is considered a non-hazardous material. See CSI section 01 74 19 00-0050 for hauling, 31 20 00 00-0000 for non-contaminated soil excavation, 31 23 16 00-0000 for excavation, 31 41 00 00-0000 for shoring.		
02 65 00 00-0001 Monitoring, Sampling, Testing And Analysis (02 65)		
02 65 00 00-0002 Field Samples For Testing Underground Storage Tank (02 65 00 00-0001)		
02 65 00 00-0003 EA Collection Of Sludge Sample For Underground Storage Tank	24.96	
02 65 00 00-0004 EA Collection Of Pumpable Liquids Sample For Underground Storage Tank.....	24.96	
02 65 00 00-0005 EA Collection Of Contaminated Soil Sample.....	24.96	
02 65 00 00-0006 Lab Tests For Underground Storage Tank Removal (02 65 00 00-0001)		
Note: Includes lab test fees, reports, shipping, handling, chain of custody documents and disposal of sample.		
02 65 00 00-0007 EA Benzene, Toluene, Ethylbenzene, Xylene 8020, Lab Test Note: The cost is for the in-lab test for Benzene, Toluene, Ethylbenzene, And Xylene using procedure 8020 as detailed in EPA SW-846.	187.64	
02 65 00 00-0008 EA Flashpoint, Lab Test Note: The cost is for the in-lab test for the flashpoint using procedure 40CFR 261.21 as detailed in EPA SW-846.	72.97	
02 65 00 00-0009 EA TOX 9020, Lab Test Note: The cost is for the in-lab test for total organic halides using procedure 9020 as detailed in EPA SW-846.	175.54	
02 65 00 00-0010 EA TPH 8015 Modified, Lab Test Note: The cost is for the in-lab test for total petroleum hydrocarbons by gas chromatography using procedure 8015 Mod. as detailed in EPA SW-846.	187.64	
02 65 00 00-0011 EA TRPH 418.1, Lab Test..... Note: The cost is for the in-lab test for total recoverable petroleum hydrocarbons using procedure 418.1 as detailed in EPA SW-846.	145.94	
02 65 00 00-0012 EA VOC, Lab Test..... Note: The cost is for the in-lab test for volatile organics using procedure 8240 as detailed in EPA SW-846.	396.13	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 65 00 00-0013 EA Semi-Volatile Organic, Lab Test .....729.72 Note: The cost is for the in-lab test for semi-volatile organics using procedure 8270 as detailed in EPA SW-846.	729.72	
02 65 00 00-0014 EA Oil And Grease 413.1, Lab Test..... 87.77 Note: The cost is for the in-lab test for oil and grease using procedure 413.1 as detailed in EPA SW-846.	87.77	
02 65 00 00-0015 EA TCLP (Extraction) - Metals, Lab Test.....156.37 Note: The cost is for the in-lab test for toxicity characteristics leaching procedures using procedure 1311 as detailed in EPA SW-846.	156.37	
02 65 00 00-0016 EA TCLP (Extraction) - Semi-Volatile Organic, Lab Test.....208.49 Note: The cost is for the in-lab test for toxicity characteristics leaching procedures using procedure 1311 as detailed in EPA SW-846.	208.49	
02 65 00 00-0017 EA Metals 6010 RCRA, Lab Test .....233.51 Note: The cost is for the in-lab test for metals using procedure 6010 RCRA as detailed in EPA SW-846.	233.51	
02 65 00 00-0018 EA Metals (Arsenic) 7060, Lab Test 31.27 Note: The cost is for the in-lab test for the metal arsenic using procedure 7060 as detailed in EPA SW-846.	31.27	
02 65 00 00-0019 EA Metals (Selenium) 7740, Lab Test .....31.27 Note: The cost is for the in-lab test for the metal selenium (SE) using procedure 7740 as detailed in EPA SW-846.	31.27	
02 65 00 00-0020 EA Metals (Lead) 7421, Lab Test 31.27 Note: The cost is for the in-lab test for the metal lead using procedure 7421 as detailed in EPA SW-846.	31.27	
02 65 00 00-0021 EA Metals (Mercury) 7470, Lab Test .....58.38 Note: The cost is for the in-lab test for the metal mercury using procedure 7470 as detailed in EPA SW-846.	58.38	
02 65 00 00-0022 EA PNA/PAH 8100, Lab Test .....333.58 Note: The cost is for the in-lab test for polynuclear aromatic hydrocarbons using procedure 8100 as detailed in EPA SW-846.	333.58	
02 65 00 00-0023 EA Fuel Id ASTM D3328-78, Lab Test 120.69 Note: The cost is for the in-lab test to determine the constituents of fuel using the procedure as detailed in ASTM D3328-78.	120.69	
02 65 00 00-0024 EA pH, Lab Test 25.02	25.02	
02 65 00 00-0025 EA Lab Test - Polychlorinated Biphenyl (PCB) In Wastewater .....312.74	312.74	
02 65 00 00-0026 EA Methyl Tertiary Butyl Ether (MTBE), Lab Test 187.64	187.64	
02 65 00 00-0027 Tests, Surveys And Maintenance For Underground Storage Tank (02 65 00 00-0001)		
02 65 00 00-0028 EA Site Survey For AST/UST Location By Certified Tank Installer.....1,097.74 Note: Includes testing Pump output both tank and dispenser, Calibrate pump dispenser if needed, Check all sumps both tank and dispenser, check all fitting connections for leaks and check wiring connection for possible malfunction or safety hazard, check seals on caps for fill tube, check overflow performance for safety shutdown, check all hoses and pump handle, check break-away couplings, complete written report on all data found.	1,097.74	
02 65 00 00-0029 EA Check Cathodic Protection - Impressed Current Systems And Sacrificial Anode Systems 187.75 Note: By Certified Technician. Write report of findings for action if needed	187.75	
02 65 00 00-0030 EA Check And Report On Monitor Probes.....43.56 Note: By Certified Technician	43.56	
02 65 00 00-0031 EA Tank Monitoring System: Check System Per Manufacturer's Specification By Certified Technician With Written Report.....308.02 Note: Including pass / fail; paper feed operational paper installed etc.; and status of inspection repairs needed etc.	308.02	
02 65 00 00-0032 EA Removal And Replacement Of Anode On Impressed System.....148.54	148.54	
02 65 00 00-0033 EA Removal And Replacement Of Power Converter On Impressed System On Underground Storage Tank .....213.39	213.39	
02 65 00 00-0034 EA Removal And Replacement Of Monitor Probes On Underground Storage Tank .....308.80	308.80	
02 65 00 00-0035 EA Ultrasonic Test On Underground Storage Tank .....124.76	124.76	
02 65 00 00-0036 Tests And Sampling Labor Hours (02 65 00 00-0001)		
02 65 00 00-0037 HR Certified Tank Installer For Underground Storage Tank .....109.59	109.59	
02 65 00 00-0038 HR Certified Geologist/Environmentalist 120.38	120.38	
02 65 00 00-0039 HR Hourly Office Work For Reports Required For EPA On Underground Storage Tank .....128.46 Note: Includes title searches, well survey data, site drawings, submitting preliminary work, etc. Hours not to be used in association with other tasks performed.	128.46	
02 65 00 00-0040 Remove Tank Contents (02 65)		
02 65 00 00-0041 Transfer Liquid (02 65 00 00-0040) Note: For use to transfer liquids from one tank to another.		
02 65 00 00-0042 GAL Transfer Reusable Liquid To Different Tank .....0.76 Note: Per gallon of material transferred.	0.76	
02 65 00 00-0043 Pump Contaminated Liquids And Rinse Material (02 65 00 00-0040)		
02 65 00 00-0044 GAL Removal and Disposal Of Hazardous Liquids From Tank 1.73	1.73	
02 65 00 00-0045 GAL Removal and Disposal Of Non Hazardous Liquid From Tank.....0.76	0.76	
02 65 00 00-0046 Sludge (02 65 00 00-0040) Note: Includes scraping and solidifying agent.		
02 65 00 00-0047 GAL Removal and Disposal Of Hazardous Solids Or Sludge From Tank .....6.01	6.01	
02 65 00 00-0048 GAL Removal and Disposal Of Non Hazardous Solids Or Sludge From Tank 1.36	1.36	
02 65 00 00-0049 Purge Vapors, Open And Clean Tank (02 65)		
02 65 00 00-0050 Purge Vapors (02 65 00 00-0049)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 65 00 00-0051	LB			Purge Tank Using Dry Ice..... Note: Approximately 1.5 To 3.0 LBS of dry ice per 100 Gals of tank volume.	4.20	
02 65 00 00-0052				High Pressure Water Wash And Rinse Of Tank Interior (02 65 00 00-0049) Note: Includes removal and disposal of rinse water.		
02 65 00 00-0053	EA			Up To 275 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	330.96	
02 65 00 00-0054	EA			>275 To 550 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	433.58	
02 65 00 00-0055	EA			>550 To 1,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	561.66	
02 65 00 00-0056	EA			>1,000 To 2,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	757.97	
02 65 00 00-0057	EA			>2,000 To 5,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	1,465.65	
02 65 00 00-0058	EA			>5,000 To 6,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	1,762.43	
02 65 00 00-0059	EA			>6,000 To 8,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	2,018.06	
02 65 00 00-0060	EA			>8,000 To 10,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	2,438.09	
02 65 00 00-0061	EA			>10,000 To 15,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	3,136.53	
02 65 00 00-0062	EA			>15,000 To 20,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	3,771.15	
02 65 00 00-0063	EA			>20,000 To 30,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	4,775.50	
02 65 00 00-0064	EA			>30,000 To 40,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	5,887.75	
02 65 00 00-0065	EA			>40,000 To 50,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	7,215.10	
02 65 00 00-0066				Scrape Clean Tank Exterior (02 65 00 00-0049)		
02 65 00 00-0067	EA			Up To 275 Gallon Tank, Scrape Clean Tank Exterior.....	223.32	
02 65 00 00-0068	EA			>275 To 550 Gallon Tank, Scrape Clean Tank Exterior.....	297.38	
02 65 00 00-0069	EA			>550 To 1,000 Gallon Tank, Scrape Clean Tank Exterior.....	389.66	
02 65 00 00-0070	EA			>1,000 To 2,000 Gallon Tank, Scrape Clean Tank Exterior.....	539.62	
02 65 00 00-0071	EA			>2,000 To 5,000 Gallon Tank, Scrape Clean Tank Exterior.....	1,194.99	
02 65 00 00-0072	EA			>5,000 To 6,000 Gallon Tank, Scrape Clean Tank Exterior.....	1,513.10	
02 65 00 00-0073	EA			>6,000 To 8,000 Gallon Tank, Scrape Clean Tank Exterior.....	1,770.60	
02 65 00 00-0074	EA			>8,000 To 10,000 Gallon Tank, Scrape Clean Tank Exterior.....	2,225.90	
02 65 00 00-0075	EA			>10,000 To 15,000 Gallon Tank, Scrape Clean Tank Exterior.....	2,893.11	
02 65 00 00-0076	EA			>15,000 To 20,000 Gallon Tank, Scrape Clean Tank Exterior.....	3,631.44	
02 65 00 00-0077	EA			>20,000 To 30,000 Gallon Tank, Scrape Clean Tank Exterior.....	4,728.44	
02 65 00 00-0078	EA			>30,000 To 40,000 Gallon Tank, Scrape Clean Tank Exterior.....	5,674.12	
02 65 00 00-0079	EA			>40,000 To 50,000 Gallon Tank, Scrape Clean Tank Exterior.....	7,092.65	
02 65 00 00-0080				Tank And Piping Removal (02 65) Note: Excludes excavation. See CSI section 02 61 13 00-0001 for excavation.		
02 65 00 00-0081				Removal And Disposal Of Piping (02 65 00 00-0080) Note: Includes removal, inspection, loading, transporting pipe to disposal facility or transfer station within 15 miles and disposal fees.		
02 65 00 00-0082	LF			Up To 4", Removal And Disposal Of Piping.....	18.18	
02 65 00 00-0083	LF			>4" To 8", Removal And Disposal Of Piping.....	24.24	
02 65 00 00-0084				Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement (02 65 00 00-0080) Note: Excludes excavation or backfill.		
02 65 00 00-0085	EA			Up To 275 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	626.12	
02 65 00 00-0086	EA			>275 To 550 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	760.27	
02 65 00 00-0087	EA			>550 To 1,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	894.45	
02 65 00 00-0088	EA			>1,000 To 2,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	1,118.07	
02 65 00 00-0089	EA			>2,000 To 5,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	1,565.28	
02 65 00 00-0090	EA			>5,000 To 6,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	1,967.79	
02 65 00 00-0091	EA			>6,000 To 8,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	2,236.12	
02 65 00 00-0092	EA			>8,000 To 10,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	2,683.35	
02 65 00 00-0093	EA			>10,000 To 15,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	3,577.79	
02 65 00 00-0094	EA			>15,000 To 20,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	4,288.97	
02 65 00 00-0095	EA			>20,000 To 30,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	5,025.80	
02 65 00 00-0096	EA			>30,000 To 40,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	5,879.75	
02 65 00 00-0097	EA			>40,000 To 50,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement.....	7,349.69	
02 65 00 00-0098				Cut Tank Into Sections That Can Easily Be Transported And Disposed Of When Necessary (02 65 00 00-0080) Note: Includes 1 lengthwise at every 4' on-center height wise.		
02 65 00 00-0099	EA			>1,000 To 2,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of.....	799.35	
02 65 00 00-0100	EA			>2,000 To 5,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of.....	1,490.68	
02 65 00 00-0101	EA			>5,000 To 6,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of.....	1,793.14	
02 65 00 00-0102	EA			>6,000 To 8,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of.....	1,998.37	
02 65 00 00-0103	EA			>8,000 To 10,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of.....	2,398.05	
02 65 00 00-0104	EA			>10,000 To 15,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of.....	2,981.35	
02 65 00 00-0105	EA			>15,000 To 20,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of.....	3,586.27	
02 65 00 00-0106	EA			>20,000 To 30,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of.....	4,482.83	
02 65 00 00-0107	EA			>30,000 To 40,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of.....	5,603.55	
02 65 00 00-0108	EA			>40,000 To 50,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of.....	7,004.42	

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 65 00 00-0109	Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station (02 65 00 00-0080) Note: Includes disposal fee.		
02 65 00 00-0110	EA Up To 275 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	279.45	
	For Each Additional Mile >15 Miles, Add	4.31	
02 65 00 00-0111	EA >275 To 550 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	378.34	
	For Each Additional Mile >15 Miles, Add	5.44	
02 65 00 00-0112	EA >550 To 1,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	594.28	
	For Each Additional Mile >15 Miles, Add	8.16	
02 65 00 00-0113	EA >1,000 To 2,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	916.42	
	For Each Additional Mile >15 Miles, Add	9.53	
02 65 00 00-0114	EA >2,000 To 5,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	1,617.21	
	For Each Additional Mile >15 Miles, Add	16.78	
02 65 00 00-0115	EA >5,000 To 6,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	1,671.63	
	For Each Additional Mile >15 Miles, Add	18.14	
02 65 00 00-0116	EA >6,000 To 8,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	1,762.35	
	For Each Additional Mile >15 Miles, Add	20.41	
02 65 00 00-0117	EA >8,000 To 10,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	2,552.07	
	For Each Additional Mile >15 Miles, Add	27.22	
02 65 00 00-0118	EA >10,000 To 15,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	3,506.87	
	For Each Additional Mile >15 Miles, Add	40.82	
02 65 00 00-0119	EA >15,000 To 20,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	4,098.78	
	For Each Additional Mile >15 Miles, Add	45.36	
02 65 00 00-0120	EA >20,000 To 30,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	5,068.43	
	For Each Additional Mile >15 Miles, Add	54.43	
02 65 00 00-0121	EA >30,000 To 40,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	7,074.43	
	For Each Additional Mile >15 Miles, Add	65.32	
02 65 00 00-0122	EA >40,000 To 50,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station.....	8,537.15	
	For Each Additional Mile >15 Miles, Add	75.11	
02 65 00 00-0123	Other Storage Tank Removals (02 65 00 00-0080)		
02 65 00 00-0124	GAL Removal Of Cement Lining.....	0.53	
02 65 00 00-0125	GAL Sandblast Tank In Prep For Lining Or Welding; Remove Sand, Vacuum Walls And Seams.....	0.19	
02 65 00 00-0126	GAL Install Epoxy For Interior Corrosion Protection	1.09	
02 65 00 00-0127	Tank Closure Report (02 65 00 00-0080) Note: Excludes soils tests. See CSI section 02 65 00 00-0006 for soil tests.		
02 65 00 00-0128	EA Prepare Tank Closure Report.....	3,951.72	
02 65 00 00-0129	Temporary Tanks (02 65)		
02 65 00 00-0130	Temporary Holding Tanks (02 65 00 00-0129)		
02 65 00 00-0131	Above Ground Temporary Holding Tanks, Monthly Rental (02 65 00 00-0130)		
02 65 00 00-0132	MO 550 Gallon, Stainless Steel, DOT Approved, Above Ground Temporary Holding Tanks, Monthly Rental	867.59	
02 65 00 00-0133	MO 630 Gallon, Polyethylene, DOT Approved, Above Ground Temporary Holding Tanks, Monthly Rental	867.59	
02 65 00 00-0134	MO 630 Gallon, Polyethylene, Stackable, Above Ground Temporary Holding Tanks, Monthly Rental	1,735.18	
02 65 00 00-0135	MO 4,000 Gallon, Polyethylene, Stackable, Above Ground Temporary Holding Tanks, Monthly Rental	1,301.39	
02 65 00 00-0136	MO 4,000 Gallon, Polyethylene, Trailer Mounted, Above Ground Temporary Holding Tanks, Monthly Rental	3,036.57	
02 65 00 00-0137	MO 6,000 Gallon, Polyethylene, Total Drain, Above Ground Temporary Holding Tanks, Monthly Rental.....	2,168.98	
02 65 00 00-0138	MO 21,000 Gallon (500 BBL), Steel, Open, Stationary, Above Ground Temporary Holding Tanks, Monthly Rental.....	4,932.15	
02 65 00 00-0139	MO 21,000 Gallon (500 BBL), Steel, Closed, Stationary, Above Ground Temporary Holding Tanks, Monthly Rental	5,910.75	
02 65 00 00-0140	MO 21,000 Gallon (500 BBL), Steel, Vapor Proof, Above Ground Temporary Holding Tanks, Monthly Rental	9,981.72	
02 65 00 00-0141	Secondary Containment Berm (02 65 00 00-0129)		
02 65 00 00-0142	MO Secondary Containment Berm Monthly Rental	1,879.78	
02 80	Facility Remediation (02)		
02 81	Transportation and Disposal of Hazardous Materials (02 80)		
02 81 00 00-0001	Hazardous Material Disposal (02 81)		
02 81 00 00-0002	EA RCRA (Direct Landfill) Drums	459.99	
	Note: Excludes stabilization. See CSI section 02 81 00 00-0003 for Stabilization (>5 ppm).		
02 81 00 00-0003	EA Stabilization (>5 ppm)	612.94	
02 81 00 00-0004	TON Bulk Hazardous Material Landfill Cost.....	388.04	
02 81 00 00-0005	Equipment Oil Drain And Disposal (02 81)		
02 81 00 00-0006	TRIP Drain Oil Filled Equipment, Place In Approved Container And Transport To Disposal Site.....	610.44	
	Note: Excludes Disposal Cost.		
02 81 00 00-0007	DRM Disposal Of Non-Polychlorinated Biphenyl (PCB) Oil In Normal Landfill, Per Partial Or Full 55-Gallon Drum.....	95.93	
	Note: Excludes draining, placing in approved container, and transporting to disposal site.		
02 81 00 00-0008	DRM Disposal Of Non-Toxic Polychlorinated Biphenyl (PCB) Oil Into A Lined Landfill, Per Partial Or Full 55-Gallon Drum.....	436.02	
	Note: Excludes draining, placing in approved container, and transporting to disposal site.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 81 00 00-0009 DRM Disposal of Toxic Polychlorinated Biphenyl (PCB) Oil By Incineration, Per Partial Or Full 55-Gallon Drum.....	784.84	
Note: Excludes draining, placing in approved container, and transporting to disposal site.		
02 81 00 00-0010 CF Hazardous Polychlorinated Biphenyl (PCB) Oil Filled Equipment Disposal At Approved Site.....	104.48	
Note: Includes handling of equipment and disposal at approved site. Excludes draining of PCB contaminated oil prior to disposal.		

02 82 Asbestos Remediation (02 80)

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

02 82 13 Asbestos Abatement (02 82)

02 82 13 00-0001 Air Monitoring And Bulk Sampling, Asbestos Testing (02 82 13)
 Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Polarizing Light Microscope (PLM), Phase Contrast Microscope (PCM), and Transmission Electron Microscope (TEM). Excludes sampling time.

02 82 13 00-0002 HR Certified Asbestos Air Sampling Technician For Bulk Sampling Or Air Monitoring.....	72.94
02 82 13 00-0003 EA 48 Hours Or Longer Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing.....	56.68
02 82 13 00-0004 EA Next Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing.....	66.45
02 82 13 00-0005 EA Same Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing.....	105.54
02 82 13 00-0006 EA 48 Hours Or Longer Turnaround, (Bulk) TEM Test, Asbestos Testing.....	181.76
02 82 13 00-0007 EA Next Day Turnaround, (Bulk) TEM Test, Asbestos Testing.....	220.85
02 82 13 00-0008 EA 48 Hours Or Longer Turnaround, (Air) PCM Test, Asbestos Testing.....	44.95
02 82 13 00-0009 EA Next Day Turnaround, (Air) PCM Test, Asbestos Testing.....	54.72
02 82 13 00-0010 EA Same Day Turnaround, (Air) PCM Test, Asbestos Testing.....	74.27
02 82 13 00-0011 EA 48 Hours Or Longer Turnaround, (Air Point Counting) PLM Test.....	56.68
02 82 13 00-0012 EA Next Day Turnaround, (Air Point Counting) PLM Test.....	66.45
02 82 13 00-0013 EA Same Day Turnaround, (Air Point Counting) PLM Test.....	105.54
02 82 13 00-0014 EA 48 Hours Or Longer Turnaround, (Air) TEM Test, Asbestos Testing.....	181.76
02 82 13 00-0015 EA Next Day Turnaround, (Air) TEM Test, Asbestos Testing.....	209.12
02 82 13 00-0016 EA Same Day Turnaround, (Air) TEM Test, Asbestos Testing.....	291.21

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

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

02 82 16 00-0002 SF Asbestos Encapsulant Spray Adhesive (Lock-Down), Per Coat.....	1.50
02 82 16 00-0003 SF Asbestos Binding Compound Encapsulant/Sealant, Per Coat Required (Fiberlock® ABC® Asbestos Binding Compound).....	2.06
02 82 16 00-0004 SF Asbestos Fiberspray Encapsulation (Fiberlock® ABC Fiberspray®).....	2.25
02 82 16 00-0005 SF Asbestos Acrylic Encasement/Encapsulation (Fiberlock® Lag-Kote®).....	2.43
02 82 16 00-0006 SF Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kwik®).....	7.60
02 82 16 00-0007 SF Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kloth®).....	8.63

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

Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, lockdown encapsulant applied to surfaces, bagging, clean-up, vacuuming, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 10 LF or SF (10 LF to 20 LF for ACM pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project. This does not apply to glove bag projects.

02 82 33 00-0001 Pipe And Pipe Fittings Insulation, Asbestos Abatement And Disposal (02 82 33)

02 82 33 00-0002 Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0001)
 Note: Diameter is outer size of insulation. Treat fittings as additional linear feet of insulation.

02 82 33 00-0003 Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)
 See CSI section 02 82 33 00-0017 for projects with less than 10 LF.

02 82 33 00-0004 SET Up To 20 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	928.15
For Work In Restricted Working Space, Add	273.83
02 82 33 00-0005 LF >20 To 250 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	31.89
For Work In Restricted Working Space, Add	9.34
02 82 33 00-0006 LF >250 To 500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	24.11
For Work In Restricted Working Space, Add	7.00
02 82 33 00-0007 LF >500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	18.27
For Work In Restricted Working Space, Add	5.25
02 82 33 00-0008 LF >2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	13.90
For Work In Restricted Working Space, Add	3.94
02 82 33 00-0009 LF >10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	12.19
For Work In Restricted Working Space, Add	3.43

02 82 33 00-0010 >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)
 See CSI section 02 82 33 00-0017 for projects with less than 10 LF.

02 82 33 00-0011 SET Up To 20 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	943.52
For Work In Restricted Working Space, Add	273.83
02 82 33 00-0012 LF >20 To 250 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	37.33
For Work In Restricted Working Space, Add	10.74

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0013	LF		>250 To 500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	28.38	
			<i>For Work In Restricted Working Space, Add</i>	8.05	
02 82 33 00-0014	LF		>500 To 2,500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	21.67	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
02 82 33 00-0015	LF		>2,500 To 10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	16.63	
			<i>For Work In Restricted Working Space, Add</i>	4.53	
02 82 33 00-0016	LF		>10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	14.67	
			<i>For Work In Restricted Working Space, Add</i>	3.94	
02 82 33 00-0017			Glove Bag Method, Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-002)		
			Note: Solid isolation barriers and plastic sheeting for containment construction (except on floor) are not required for glove bag projects unless required by local codes.		
02 82 33 00-0018	SET		Glove Bag For First 3 LF Pipe Insulation, Asbestos Abatement And Disposal.....	588.13	
			<i>For Work In Restricted Working Space, Add</i>	175.06	
02 82 33 00-0019	LF		>3 To 20 LF Additional Glove Bag Work for Pipe Insulation.....	98.79	
			<i>For Work In Restricted Working Space, Add</i>	29.18	
02 82 33 00-0020	LF		>20 To 250 LF Additional Glove Bag Work for Pipe Insulation.....	39.29	
			<i>For Work In Restricted Working Space, Add</i>	11.33	
02 82 33 00-0021	LF		>250 To 500 LF Additional Glove Bag Work for Pipe Insulation.....	29.85	
			<i>For Work In Restricted Working Space, Add</i>	8.49	
02 82 33 00-0022	LF		>500 LF Additional Glove Bag Work for Pipe Insulation.....	22.77	
			<i>For Work In Restricted Working Space, Add</i>	6.37	
02 82 33 00-0023			Thermal Insulation, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0024			Calcium Block Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)		
02 82 33 00-0025	SET		Up To 10 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	920.46	
02 82 33 00-0026	SF		>10 To 500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	37.96	
02 82 33 00-0027	SF		>500 To 2,500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	31.36	
02 82 33 00-0028	SF		>2,500 To 10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	25.21	
02 82 33 00-0029	SF		>10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	20.63	
02 82 33 00-0030			Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)		
02 82 33 00-0031	SET		Up To 10 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	916.62	
02 82 33 00-0032	SF		>10 To 500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	33.32	
02 82 33 00-0033	SF		>500 To 2,500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	26.72	
02 82 33 00-0034	SF		>2,500 To 10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	20.58	
02 82 33 00-0035	SF		>10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	15.99	
02 82 33 00-0036			Fibrous Glass Board Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)		
02 82 33 00-0037	SET		Up To 10 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	915.34	
02 82 33 00-0038	SF		>10 To 500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	29.55	
02 82 33 00-0039	SF		>500 To 2,500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	22.94	
02 82 33 00-0040	SF		>2,500 To 10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	16.81	
02 82 33 00-0041	SF		>10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	12.21	
02 82 33 00-0042			Other Thermal Insulation, Up To 3" Thickness, Asbestos Abatement And Disposal (02 82 33 00-0023)		
			Note: e.g., duct, boiler, tank, etc.		
02 82 33 00-0043	SET		Up To 25 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	922.39	
02 82 33 00-0044	SF		>25 To 500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	31.50	
02 82 33 00-0045	SF		>500 To 2,500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	24.89	
02 82 33 00-0046	SF		>2,500 To 10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	18.76	
02 82 33 00-0047	SF		>10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	14.16	
02 82 33 00-0048			Surfacing Material, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0049			Fireproofing For Small Areas, Asbestos Abatement And Disposal (02 82 33 00-0048)		
			Note: For asbestos abatement for up to 1 SF sections to expose area for attachments. See CSI section 02 82 33 00-0051 for areas > 1 SF see CSI section.		
02 82 33 00-0050	EA		Up To 1 SF, Fireproofing For Small Areas, Asbestos Abatement And Disposal.....	152.51	
			Note: For asbestos abatement for up to 1 SF sections to expose steel area for welding attachments.		
02 82 33 00-0051			Fireproofing, Asbestos Abatement And Disposal (02 82 33 00-0048)		
			Note: Exposed surface area, includes associated overspray.		
02 82 33 00-0052	SET		Up To 25 SF, Fireproofing, Asbestos Abatement And Disposal.....	922.39	
02 82 33 00-0053	SF		>25 To 500 SF, Fireproofing, Asbestos Abatement And Disposal.....	37.71	
02 82 33 00-0054	SF		>500 To 2,500 SF, Fireproofing, Asbestos Abatement And Disposal.....	28.37	
02 82 33 00-0055	SF		>2,500 To 10,000 SF, Fireproofing, Asbestos Abatement And Disposal.....	21.37	
02 82 33 00-0056	SF		>10,000 SF, Fireproofing, Asbestos Abatement And Disposal.....	16.12	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0057 Acoustical Plaster, Asbestos Abatement And Disposal <small>(02 82 33 00-0048)</small>		
<small>Note: Remove surface coat from brown coat or remove entire assembly, including lathe and finish materials.</small>		
02 82 33 00-0058 SET Up To 25 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	919.18	
02 82 33 00-0059 SF >25 To 500 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	15.86	
02 82 33 00-0060 SF >500 To 2,500 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	12.05	
02 82 33 00-0061 SF >2,500 To 10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	9.01	
02 82 33 00-0062 SF >10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	6.73	
02 82 33 00-0063 Plywood, Asbestos Abatement And Disposal <small>(02 82 33 00-0048)</small>		
02 82 33 00-0064 SET Up To 40 SF, Plywood, Asbestos Abatement And Disposal.....	923.03	
02 82 33 00-0065 SF >50 To 500 SF, Plywood, Asbestos Abatement And Disposal.....	13.19	
02 82 33 00-0066 SF >500 To 2,500 SF, Plywood, Asbestos Abatement And Disposal.....	6.48	
02 82 33 00-0067 SF >2,500 To 10,000 SF, Plywood, Asbestos Abatement And Disposal.....	4.46	
02 82 33 00-0068 SF >10,000 SF, Plywood, Asbestos Abatement And Disposal.....	3.83	
02 82 33 00-0069 Asbestos-Cement Products, Asbestos Abatement And Disposal <small>(02 82 33)</small>		
02 82 33 00-0070 Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal <small>(02 82 33 00-0069)</small>		
02 82 33 00-0071 SET Up To 100 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	925.58	
02 82 33 00-0072 SF >100 To 500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	5.53	
02 82 33 00-0073 SF >500 To 2,500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	2.90	
02 82 33 00-0074 SF >2,500 To 10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	2.34	
02 82 33 00-0075 SF >10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	2.06	
02 82 33 00-0076 Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal <small>(02 82 33 00-0069)</small>		
02 82 33 00-0077 SET Up To 10 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	776.02	
02 82 33 00-0078 LF >10 To 100 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	32.66	
02 82 33 00-0079 LF >100 To 250 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	24.88	
02 82 33 00-0080 LF >250 To 500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	19.04	
02 82 33 00-0081 LF >500 To 2,500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	14.67	
02 82 33 00-0082 LF >2,500 To 10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	11.39	
02 82 33 00-0083 LF >10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	11.16	
02 82 33 00-0084 Exterior Transite Siding, Asbestos Abatement And Disposal <small>(02 82 33 00-0069)</small>		
02 82 33 00-0085 SET Up To 125 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	934.49	
<small>Note: Single or first of multiple layers.</small>		
02 82 33 00-0086 SF >125 To 1,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	4.99	
<small>Note: Single or first of multiple layers.</small>		
02 82 33 00-0087 SF >1,000 To 5,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	4.02	
<small>Note: Single or first of multiple layers.</small>		
02 82 33 00-0088 SF >5,000 To 10,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	3.25	
<small>Note: Single or first of multiple layers.</small>		
02 82 33 00-0089 SF >10,000 To 20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	2.46	
<small>Note: Single or first of multiple layers.</small>		
02 82 33 00-0090 SF >20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	1.88	
<small>Note: Single or first of multiple layers.</small>		
02 82 33 00-0091 Asbestos Contaminated Debris, Asbestos Abatement And Disposal <small>(02 82 33)</small>		
02 82 33 00-0092 Asbestos Contaminated Debris, Asbestos Abatement And Disposal <small>(02 82 33 00-0091)</small>		
02 82 33 00-0093 SET Up To 10 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	623.89	
<small>For Work In Restricted Working Space, Add</small>		
02 82 33 00-0094 CF >10 To 100 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	182.56	
<small>For Work In Restricted Working Space, Add</small>		
02 82 33 00-0095 CF >100 To 250 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	18.15	
<small>For Work In Restricted Working Space, Add</small>		
02 82 33 00-0096 CF >250 To 500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	41.88	
<small>For Work In Restricted Working Space, Add</small>		
02 82 33 00-0097 CF >500 To 2,500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	12.10	
<small>For Work In Restricted Working Space, Add</small>		
02 82 33 00-0098 CF >2,500 To 10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	31.84	
<small>For Work In Restricted Working Space, Add</small>		
02 82 33 00-0099 CF >10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	9.09	
<small>For Work In Restricted Working Space, Add</small>		
02 82 33 00-0100 CF >500 To 2,500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	25.74	
<small>For Work In Restricted Working Space, Add</small>		
02 82 33 00-0101 CF >2,500 To 10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	7.26	
<small>For Work In Restricted Working Space, Add</small>		
02 82 33 00-0102 CF >10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	22.12	
<small>For Work In Restricted Working Space, Add</small>		
02 82 33 00-0103 CF >20,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	6.17	
<small>For Work In Restricted Working Space, Add</small>		
02 82 33 00-0104 CF >50,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	20.05	
<small>For Work In Restricted Working Space, Add</small>		
02 82 33 00-0105 CF >100,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	5.55	
02 82 33 00-0100 Other Asbestos Containing Materials, Asbestos Abatement And Disposal <small>(02 82 33)</small>		
02 82 33 00-0101 30" To 36" Fire Door, Asbestos Abatement And Disposal <small>(02 82 33 00-0100)</small>		
02 82 33 00-0102 SET Up To 1 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal.....	311.18	
02 82 33 00-0103 EA >1 To 20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal.....	116.46	
02 82 33 00-0104 EA >20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal.....	105.50	

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

02 82 33 00-0105	Grout, Asbestos Abatement And Disposal (02 82 33 00-0100)	
	Note: e.g. flue grout.	
02 82 33 00-0106	SET Up To 10 LF, Grout, Asbestos Abatement And Disposal.....	304.47
02 82 33 00-0107	LF >10 To 50 LF, Grout, Asbestos Abatement And Disposal.....	12.00
02 82 33 00-0108	LF >50 To 100 LF, Grout, Asbestos Abatement And Disposal.....	8.27
02 82 33 00-0109	LF >100 To 250 LF, Grout, Asbestos Abatement And Disposal.....	7.08
02 82 33 00-0110	LF >250 To 1,000 LF, Grout, Asbestos Abatement And Disposal.....	6.09
02 82 33 00-0111	LF >1,000 To 2,500 LF, Grout, Asbestos Abatement And Disposal.....	5.25
02 82 33 00-0112	LF >2,500 LF, Grout, Asbestos Abatement And Disposal.....	4.50
02 82 33 00-0113	Gaskets, Asbestos Abatement And Disposal (02 82 33 00-0100)	
	Note: e.g. rope, web cloth, flat.	
02 82 33 00-0114	SET Up To 10 LF, Gaskets, Asbestos Abatement And Disposal.....	304.58
02 82 33 00-0115	LF >10 To 50 LF, Gaskets, Asbestos Abatement And Disposal.....	16.16
02 82 33 00-0116	LF >50 To 250 LF, Gaskets, Asbestos Abatement And Disposal.....	12.13
02 82 33 00-0117	LF >250 To 500 LF, Gaskets, Asbestos Abatement And Disposal.....	10.33
02 82 33 00-0118	LF >500 To 1,500 LF, Gaskets, Asbestos Abatement And Disposal.....	9.31
02 82 33 00-0119	LF >1,500 To 2,500 LF, Gaskets, Asbestos Abatement And Disposal.....	8.36
02 82 33 00-0120	LF >2,500 LF, Gaskets, Asbestos Abatement And Disposal.....	7.96
02 82 33 00-0121	Caulking, Asbestos Abatement And Disposal (02 82 33 00-0100)	
02 82 33 00-0122	Non Friable Caulking, Asbestos Abatement And Disposal (02 82 33 00-0121)	
02 82 33 00-0123	SET Up To 10 LF, Non Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal.....	304.47
02 82 33 00-0124	LF >10 To 50 LF, Non Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal.....	9.00
02 82 33 00-0125	LF >50 To 100 LF, Non Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal.....	6.35
02 82 33 00-0126	LF >100 To 250 LF, Non Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal.....	4.73
02 82 33 00-0127	LF >250 To 1,000 LF, Non Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal.....	3.56
02 82 33 00-0128	LF >1,000 To 2,500 LF, Non Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal.....	2.82
02 82 33 00-0129	LF >2,500 LF, Non Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal.....	2.45
02 82 33 00-0130	Window Putty, Asbestos Abatement And Disposal (02 82 33 00-0100)	
02 82 33 00-0131	SET Up To 10 LF, Window Putty, Asbestos Abatement And Disposal.....	304.47
02 82 33 00-0132	LF >10 To 50 LF, Window Putty, Asbestos Abatement And Disposal.....	12.00
02 82 33 00-0133	LF >50 To 100 LF, Window Putty, Asbestos Abatement And Disposal.....	8.27
02 82 33 00-0134	LF >100 To 250 LF, Window Putty, Asbestos Abatement And Disposal.....	7.08
02 82 33 00-0135	LF >250 To 1,000 LF, Window Putty, Asbestos Abatement And Disposal.....	6.09
02 82 33 00-0136	LF >1,000 LF, Window Putty, Asbestos Abatement And Disposal.....	5.25
02 82 33 00-0137	Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal (02 82 33 00-0100)	
02 82 33 00-0138	SET Up To 4 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	638.03
02 82 33 00-0139	EA >4 To 40 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	61.83
02 82 33 00-0140	EA >40 To 60 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	43.69
02 82 33 00-0141	EA >60 To 125 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	34.65
02 82 33 00-0142	EA >125 To 625 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	29.17
02 82 33 00-0143	EA >625 To 1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	25.90
02 82 33 00-0144	EA >1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	24.04

02 83 Lead Remediation (02 80)

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

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

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

02 83 19 13-0001	Minimum Charge For Lead-Based Paint Remediation (02 83 19 13)	
02 83 19 13-0002	EA Lead-Based Paint Remediation Minimum Show Up Charge.....	1,121.38
	Note: For projects where the total lead-based paint remediation charge is less than the minimum charge, use task "Minimum Charge For Lead-Based Paint Remediation" exclusively. Task "Minimum Charge For Lead-Based Paint Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring.	
02 83 19 13-0003	Lead Sampling And Testing (02 83 19 13)	
	Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Excludes sampling time.	
02 83 19 13-0004	HR Certified Lead Sampling Technician For Bulk Sampling Or Air Monitoring.....	81.50
02 83 19 13-0005	EA X-Ray Fluorescence (XRF) Lead Testing.....	67.37
	Note: Including Technician, 3 Readings Per Surface And Lab Fee	



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0006	EA	5 Day Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	64.50	
02 83 19 13-0007	EA	48 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	97.72	
02 83 19 13-0008	EA	24 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	136.81	
02 83 19 13-0009	EA	5 Day Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee	25.41	
02 83 19 13-0010	EA	24 Hour Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee	39.09	
02 83 19 13-0011	EA	8 Hour Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee	48.86	
02 83 19 13-0012	EA	5 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee	64.50	
02 83 19 13-0013	EA	3 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee	97.72	
02 83 19 13-0014	EA	5 Day Turnaround Lead Wipe Samples And Lab Fee	10.75	
02 83 19 13-0015	EA	24 Hour Turnaround Lead Wipe Samples And Lab Fee	14.66	
02 83 19 13-0016	EA	8 Hour Turnaround Lead Wipe Samples And Lab Fee	21.50	
02 83 19 13-0017	EA	5 Day Turnaround Lead Air Samples And Lab Fee	10.75	
02 83 19 13-0018	EA	24 Hour Turnaround Lead Air Samples And Lab Fee	14.66	
02 83 19 13-0019	EA	8 Hour Turnaround Lead Air Samples And Lab Fee	21.50	
02 83 19 13-0020	EA	5 Day Turnaround Lead Water Test and Lab Fee	39.09	
02 83 19 13-0021	EA	24 Hour Turnaround Lead Water Test and Lab Fee	58.63	
02 83 19 13-0022	EA	8 Hour Turnaround Lead Water Test and Lab Fee	78.18	
02 83 19 13-0023	EA	5 Day Turnaround Lead Paint Chip Test and Lab Fee	40.42	
02 83 19 13-0024	EA	5 Day Turnaround Lead Soil Test and Lab Fee	80.85	
02 83 19 13-0025		Chemical Stripping Of Lead Contaminated Material <small>(02 83 19 13)</small>		
		Note: Per 0.02" (20 mils) application. Manufacture recommended operating temperatures not to be below 50 degrees. Includes heat gun (where required) for follow up, waste handling, packing and all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not be limited to, chromium, cadmium and mercury.		
02 83 19 13-0026	SF	Balustrades, Chemical Stripping Of Lead Contaminated Material	31.27	
		For 0.025" (25 mil) Application, Add	1.78	
		For 0.03" (30 mil) Application, Add	2.81	
02 83 19 13-0027	SF	Balustrades, Ornate, Chemical Stripping Of Lead Contaminated Material	46.36	
		For 0.025" (25 mil) Application, Add	2.54	
		For 0.03" (30 mil) Application, Add	3.94	
02 83 19 13-0028	SF	Wood Floors, Chemical Stripping Of Lead Contaminated Material	7.45	
		For 0.025" (25 mil) Application, Add	0.55	
		For 0.03" (30 mil) Application, Add	0.93	
02 83 19 13-0029	SF	HVAC Grilles, Chemical Stripping Of Lead Contaminated Material	27.94	
		For 0.025" (25 mil) Application, Add	1.57	
		For 0.03" (30 mil) Application, Add	2.47	
02 83 19 13-0030	SF	HVAC Grilles, Ornate, Chemical Stripping Of Lead Contaminated Material	33.32	
		For 0.025" (25 mil) Application, Add	1.84	
		For 0.03" (30 mil) Application, Add	2.87	
02 83 19 13-0031	EA	Up To 6" Diameter Hangers, Chemical Stripping Of Lead Contaminated Material	21.58	
		For 0.025" (25 mil) Application, Add	1.34	
		For 0.03" (30 mil) Application, Add	2.18	
		For 0.125" (125 mil) Application, Add	13.26	
02 83 19 13-0032	LF	>2" To 4" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	9.68	
		For 0.025" (25 mil) Application, Add	0.62	
		For 0.03" (30 mil) Application, Add	1.01	
		For 0.125" (125 mil) Application, Add	6.38	
02 83 19 13-0033	LF	>4" To 8" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	17.31	
		For 0.025" (25 mil) Application, Add	1.08	
		For 0.03" (30 mil) Application, Add	1.76	
		For 0.125" (125 mil) Application, Add	10.87	
02 83 19 13-0034	LF	>8" To 12" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	23.72	
		For 0.025" (25 mil) Application, Add	1.45	
		For 0.03" (30 mil) Application, Add	2.34	
		For 0.125" (125 mil) Application, Add	13.79	
02 83 19 13-0035	LF	>12" To 16" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	42.52	
		For 0.025" (25 mil) Application, Add	2.52	
		For 0.03" (30 mil) Application, Add	4.03	
		For 0.125" (125 mil) Application, Add	22.45	
02 83 19 13-0036	SF	>16" Diameter Pipes, Chemical Stripping Of Lead Contaminated Material, SF Of Surface Area	12.70	
		For 0.025" (25 mil) Application, Add	0.73	
		For 0.03" (30 mil) Application, Add	1.15	
		For 0.125" (125 mil) Application, Add	6.00	
02 83 19 13-0037	EA	Up To 12 SF Radiators, Chemical Stripping Of Lead Contaminated Material	252.36	
		For 0.025" (25 mil) Application, Add	13.89	
		For 0.03" (30 mil) Application, Add	21.62	
02 83 19 13-0038	SF	Flat Steel Surfaces, Chemical Stripping Of Lead Contaminated Material	9.75	
		For 0.025" (25 mil) Application, Add	0.66	
		For 0.03" (30 mil) Application, Add	1.11	
		For 0.125" (125 mil) Application, Add	7.72	
02 83 19 13-0039	SF	Corrugated Steel, Chemical Stripping Of Lead Contaminated Material	11.06	
		For 0.025" (25 mil) Application, Add	0.73	
		For 0.03" (30 mil) Application, Add	1.20	
		For 0.125" (125 mil) Application, Add	8.05	
02 83 19 13-0040	SF	Steel Beams and Columns, Chemical Stripping Of Lead Contaminated Material	11.03	
		For 0.025" (25 mil) Application, Add	0.73	
		For 0.03" (30 mil) Application, Add	1.20	
		For 0.125" (125 mil) Application, Add	8.04	
02 83 19 13-0041	SF	Metal Stairs, Chemical Stripping Of Lead Contaminated Material	50.66	
		For 0.025" (25 mil) Application, Add	2.88	
		For 0.03" (30 mil) Application, Add	4.54	
		For 0.125" (125 mil) Application, Add	23.17	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0042	LF		Metal Single Hand Rail, Chemical Stripping Of Lead Contaminated Material.....	8.81	
			For 0.025" (25 mil) Application, Add	0.57	
			For 0.03" (30 mil) Application, Add	0.94	
			For 0.125" (125 mil) Application, Add	6.16	
02 83 19 13-0043	SF		Metal Railing And Posts, Chemical Stripping Of Lead Contaminated Material.....	25.76	
			Note: The unit of measure "SF" is measured for 'Length x Height'. Work includes both sides of railing.		
			For 0.025" (25 mil) Application, Add	1.55	
			For 0.03" (30 mil) Application, Add	2.49	
			For 0.125" (125 mil) Application, Add	14.30	
02 83 19 13-0044	SF		Metal Picket Fence, Chemical Stripping Of Lead Contaminated Material.....	28.15	
			For 0.025" (25 mil) Application, Add	1.63	
			For 0.03" (30 mil) Application, Add	2.57	
			For 0.125" (125 mil) Application, Add	13.58	
02 83 19 13-0045			Demolish Lead Contaminated Material (02 83 19 13)		
			Note: Includes waste handling, packing, all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not be limited to, chromium, cadmium and mercury.		
02 83 19 13-0046	SF		Demolish Brick, Lead Contaminated Material.....	3.87	
02 83 19 13-0047	SF		Demolish Concrete Block, Lead Contaminated Material.....	4.99	
02 83 19 13-0048	SF		Demolish Up To 6" Concrete, Lead Contaminated Material.....	5.66	
02 83 19 13-0049	IN		Drilling, Up To 1/2" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth.....	4.41	
02 83 19 13-0050	IN		Drilling, >1/2" To 1" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth.....	5.88	
02 83 19 13-0051	LF		Demolish Wood Balustrades And Railings, Lead Contaminated Material.....	6.43	
02 83 19 13-0052	SF		Demolish Concrete, Lead Contaminated Material.....	12.80	
02 83 19 13-0053	LF		Demolish Cabinets, Lead Contaminated Material.....	29.81	
02 83 19 13-0054	SF		Demolish Grilles, Lead Contaminated Material.....	3.60	
02 83 19 13-0055	EA		Demolish Up To 6" Diameter Hangers, Lead Contaminated Material.....	15.50	
02 83 19 13-0056	LF		Demolish Up To 2" Diameter Pipes, Lead Contaminated Material.....	6.36	
02 83 19 13-0057	LF		Demolish >2" To 4" Diameter Pipes, Lead Contaminated Material.....	9.27	
02 83 19 13-0058	LF		Demolish >4" To 8" Diameter Pipes, Lead Contaminated Material.....	14.01	
02 83 19 13-0059	LF		Demolish >8" To 12" Diameter Pipes, Lead Contaminated Material.....	25.85	
02 83 19 13-0060	EA		Demolish Radiators, Lead Contaminated Material.....	111.65	
02 83 19 13-0061	SF		Demolish Siding, Lead Contaminated Material.....	1.72	
02 83 19 13-0062	SF		Demolish Flat Steel Surfaces, Lead Contaminated Material.....	4.02	
02 83 19 13-0063	SF		Demolish Steel Beams, Lead Contaminated Material.....	4.74	
02 83 19 13-0064	SF		Demolish Trusses, Lead Contaminated Material.....	6.21	
02 83 19 13-0065	SF		Demolish Metal Stair, Lead Contaminated Material.....	7.39	
02 83 19 13-0066	LF		Demolish Single Metal Hand Rail, Lead Contaminated Material.....	5.44	
02 83 19 13-0067	LF		Demolish Metal Railing And Posts, Lead Contaminated Material.....	8.87	
02 83 19 13-0068	SF		Demolish Metal Picket Fence, Lead Contaminated Material.....	2.44	
02 83 19 13-0069	SF		Demolish Plywood, Lead Contaminated Material.....	6.67	
02 83 19 13-0070	SF		Demolish Planks (Various Sizes), Lead Contaminated Material.....	3.26	
02 83 19 13-0071	EA		Demolish Metal Brackets Or Other Small Metal Shapes, Lead Contaminated Material.....	20.38	
02 83 19 13-0072	LF		Demolish Metal Guard Rails, Lead Contaminated Material.....	12.23	
02 83 19 13-0073			Wet Sanding/Scraping Of Lead Contaminated Material (02 83 19 13)		
			Note: Remove loose, flaking lead-based paint to prepare for painting		
02 83 19 13-0074	SF		Wet Sand/Scrape Of Lead Contaminated Material To Prepare For Painting.....	3.11	
02 83 19 13-0075			Lead Abatement Encapsulation (02 83 19 13)		
			Note: Can also be used for asbestos contaminated encapsulation. Spray applied application unless task described otherwise.		
02 83 19 13-0076	SF		Balustrades, Lead Abatement Encapsulation.....	5.68	
02 83 19 13-0077	SF		Brick, Concrete Block, Concrete, Lead Abatement Encapsulation.....	3.66	
02 83 19 13-0078	SF		Columns, Lead Abatement Encapsulation.....	4.43	
02 83 19 13-0079	SF		Picket Fence (Brush), Lead Abatement Encapsulation.....	2.66	
02 83 19 13-0080	SF		Wood Floors (Roller), Lead Abatement Encapsulation.....	2.24	
02 83 19 13-0081	SF		Grilles, Vents, Lead Abatement Encapsulation.....	6.13	
02 83 19 13-0082	EA		Hangers, Lead Abatement Encapsulation.....	48.01	
02 83 19 13-0083	LF		Up To 4" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	3.44	
02 83 19 13-0084	LF		>4" To 8" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	5.00	
02 83 19 13-0085	LF		>8" To 12" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	7.76	
02 83 19 13-0086	LF		>12" To 16" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	11.45	
02 83 19 13-0087	SF		Siding, Lead Abatement Encapsulation.....	3.17	
02 83 19 13-0088	SF		Steel, Flat Surfaces And Tanks Up To 12', Lead Abatement Encapsulation.....	3.66	
02 83 19 13-0089	SF		Steel Beams And Metal Decks, Lead Abatement Encapsulation.....	4.78	
02 83 19 13-0090	SF		Trusses, Lead Abatement Encapsulation.....	4.78	
02 83 33			Removal and Disposal of Material Containing Lead (02 83)		
02 83 33 13			Lead-Based Paint Removal and Disposal (02 83 33)		
02 83 33 13-0001			Remove Loose Dirt And Debris Containing Lead (02 83 33 13)		
02 83 33 13-0002	SF		High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Mild Detergent.....	0.26	
02 83 33 13-0003	SF		High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Tri-Sodium Phosphate.....	0.26	
02 83 33 13-0004	SF		High Efficiency Particulate Air (HEPA) Vacuum And Shampoo Cleaning Of Lead Contaminated Carpeting.....	1.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 86 Hazardous Waste Drum Handling (02 80)

02 86 00 00-0001 Hazardous Waste Packaging (02 86)

02 86 00 00-0002 Overpacks (02 86 00 00-0001)

02 86 00 00-0003 Steel Salvage Drums, 16 Gauge (02 86 00 00-0002)

02 86 00 00-0004	EA	110 Gallon, 30" Diameter X 41" High.....	483.43
02 86 00 00-0005	EA	85 Gallon, 26" Diameter X 38" High.....	275.18
02 86 00 00-0006	EA	83 Gallon, 26" Diameter X 36" High.....	265.59
02 86 00 00-0007	EA	55 Gallon, DOT 17C, 18" Diameter X 34" High.....	166.17
02 86 00 00-0008	EA	30 Gallon, DOT 17C, 18" Diameter X 28" High.....	130.90
02 86 00 00-0009	EA	22 Gallon, 16" Diameter X 25" High.....	88.19
02 86 00 00-0010	EA	15 Gallon, DOT 17C, 14" Diameter X 24" High.....	79.74
02 86 00 00-0011	EA	10 Gallon, 13.8" Diameter X 15" High.....	70.26

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

02 86 00 00-0013	EA	95 Gallon, DOT E9618, Twist On Lid 31" Diameter X 41" High.....	546.06
02 86 00 00-0014	EA	20 Gallon, Labpack, Twist On Lid 21" Diameter X 7.5" High.....	100.91
02 86 00 00-0015	EA	85 Gallon, DOT E9775, Clamp Ring Lid, 27" Diameter X 41" High.....	494.11

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

02 86 00 00-0017	EA	55 Gal, DOT 17C, Steel Drum Nested With 2-20 Gallon Fiber Drums.....	268.14
02 86 00 00-0018	EA	55 Gal, DOT 17C, Steel Drum Nested With 4-10 Gallon Fiber Drums.....	367.95
02 86 00 00-0019	EA	85 Gal, 16 Gauge Salvage Drum Nested With 3-20 Gallon Fiber Drums.....	499.09

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

02 86 00 00-0021	EA	32 Oz Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168.....	37.90
02 86 00 00-0022	EA	950 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168.....	39.98
02 86 00 00-0023	EA	500 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168.....	39.09
02 86 00 00-0024	EA	250 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168.....	19.35
02 86 00 00-0025	EA	Can, Carton, Insert, Tape - Corrosive And Flammable - UPS.....	14.37
02 86 00 00-0026	EA	16 Oz Bottle, Carton, Insert And Tape, Sludge/Viscous, UPS.....	6.59
02 86 00 00-0027	EA	32 Oz Bottle, Carton, Insert And Tape, Sludge/Viscous, UPS.....	8.57

02 86 00 00-0028 Steel Drums (02 86 00 00-0001)

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

02 86 00 00-0030	EA	UN 1A2/X 320/S 55 Gallon, Open, 16 Gauge, Steel Drum.....	110.33
02 86 00 00-0031	EA	55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (25-49).....	986.08
02 86 00 00-0032	EA	8 Gallon, 17C, Open, Steel Drum.....	90.03
02 86 00 00-0033	EA	55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (10-24).....	795.71
02 86 00 00-0034	EA	55 Gallon Reconditioned Steel 17h Drum (50+).....	88.07
02 86 00 00-0035	EA	55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (25-49).....	780.74
02 86 00 00-0036	EA	55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (10-24).....	1,142.23
02 86 00 00-0037	EA	55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (50+).....	934.75
02 86 00 00-0038	EA	UN 1A2/X 320/S 55 Gallon, Closed, 16 Gauge, Steel Drum.....	104.28
02 86 00 00-0039	EA	UN 1A2/Y 1.4/100 55 Gallon, Open, 16 Gauge, Steel Drum.....	84.56
02 86 00 00-0040	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (1-9).....	1,033.14
02 86 00 00-0041	EA	55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (25-49).....	1,120.84
02 86 00 00-0042	EA	55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (50+).....	703.73
02 86 00 00-0043	EA	55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (50+).....	1,009.61
02 86 00 00-0044	EA	UN 1A2/Y 1.4/100 55 Gallon, Closed, 16 Gauge, Steel Drum.....	66.64
02 86 00 00-0045	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (10-24).....	1,013.89
02 86 00 00-0046	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (1-9).....	663.09
02 86 00 00-0047	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (10-24).....	637.42
02 86 00 00-0048	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (1-9).....	1,078.06
02 86 00 00-0049	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (25-49).....	913.36
02 86 00 00-0050	EA	UN 1A2/X 160/S 30 Gallon, Open, 18 Gauge, Steel Drum.....	77.25
02 86 00 00-0051	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (50+).....	866.30
02 86 00 00-0052	EA	UN 1A2/Y 1.4/100 30 Gallon, Open, 18 Gauge, Steel Drum.....	65.66
02 86 00 00-0053	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (10-24).....	1,052.39
02 86 00 00-0054	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (25-49).....	609.62
02 86 00 00-0055	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (50+).....	588.23
02 86 00 00-0056	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (25-49).....	1,033.14
02 86 00 00-0057	EA	30 Gallon, 17E, Open, Steel Drum.....	47.64
02 86 00 00-0058	EA	55 Gallon Reconditioned Steel 17h Drum (1-9).....	129.18
02 86 00 00-0059	EA	20 Gallon, 17C, Open, Steel Drum.....	66.95
02 86 00 00-0060	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (50+).....	930.47
02 86 00 00-0061	EA	55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (1-9).....	1,114.42
02 86 00 00-0062	EA	55 Gallon Reconditioned Steel 17h Drum (10-24).....	114.50
02 86 00 00-0063	EA	55 Gallon Reconditioned Steel 17h Drum (25-49).....	99.82
02 86 00 00-0064	EA	55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (1-9).....	814.96
02 86 00 00-0065	EA	55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (10-24).....	1,093.03
02 86 00 00-0066	EA	20 Gallon, 17E, Open, Steel Drum.....	45.06

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 86 00 00-0067 Plastic Drums <small>(02 86 00 00-0001)</small>		
02 86 00 00-0068 Polyethylene Closed Head Drums <small>(02 86 00 00-0067)</small>		
Note: Closed head drums have standard NPS (National Pipe Standard) plug and drain vents. Primarily for liquids.		
02 86 00 00-0069 EA 55 Gallon Polyethylene Closed Head Drums	69.26	
02 86 00 00-0070 EA 35 Gallon Polyethylene Closed Head Drums	53.17	
02 86 00 00-0071 EA 30 Gallon Polyethylene Closed Head Drums	48.28	
02 86 00 00-0072 EA 20 Gallon Polyethylene Closed Head Drums	33.73	
02 86 00 00-0073 EA 15 Gallon Polyethylene Closed Head Drums	33.09	
02 86 00 00-0074 Polyethylene Open Head Drums <small>(02 86 00 00-0067)</small>		
Note: Open head drums are primarily used for solids and sludge.		
02 86 00 00-0075 EA 55 Gallon Polyethylene Open Head Drums	87.55	
02 86 00 00-0076 EA 35 Gallon Polyethylene Open Head Drums	64.37	
02 86 00 00-0077 EA 30 Gallon Polyethylene Open Head Drums	61.15	
02 86 00 00-0078 EA 20 Gallon Polyethylene Open Head Drums	45.06	
02 86 00 00-0079 EA 15 Gallon Polyethylene Open Head Drums	38.62	
02 86 00 00-0080 Fiber Drums <small>(02 86 00 00-0001)</small>		
02 86 00 00-0081 Steel Top/Fiber Bottom Drums, Hazardous <small>(02 86 00 00-0080)</small>		
Note: Waste fiber drums have tubular rubber gaskets and caulked bottom seams.		
02 86 00 00-0082 EA 30 Gallon Fiber Drum DOT-21C (1-9)	53.04	
02 86 00 00-0083 EA 30 Gallon Fiber Drum DOT-21C (10-24)	49.69	
02 86 00 00-0084 EA 30 Gallon Fiber Drum DOT-21C (25-49)	45.32	
02 86 00 00-0085 EA 30 Gallon Fiber Drum DOT-21C (50+)	44.80	
02 86 00 00-0086 EA 55 Gallon Fiber Drum DOT-21C (1-9)	54.59	
02 86 00 00-0087 EA 55 Gallon Fiber Drum DOT-21C (10-24)	51.50	
02 86 00 00-0088 EA 55 Gallon Fiber Drum DOT-21C (25-49)	47.64	
02 86 00 00-0089 EA 55 Gallon Fiber Drum DOT-21C (50-99)	46.09	
02 86 00 00-0090 EA 55 Gallon Fiber Drum DOT-21C (100+)	39.91	
02 86 00 00-0091 EA 10 Gallon, 20" Diameter, DOT 21C-250 Polyethylene/Polyester Lined	33.99	
02 86 00 00-0092 EA 20 Gallon, 20" Diameter, DOT 21C-250 Polyethylene/Polyester Lined	37.08	
02 86 00 00-0093 EA 20 Gallon, 23" Diameter, DOT 21C-250 Polyethylene/Polyester Lined	43.26	
02 86 00 00-0094 Loading Hazardous Waste For Shipment <small>(02 86 00 00-0001)</small>		
02 86 00 00-0095 EA Load Drums On Disposal Truck	10.78	
02 86 00 00-0096 EA Load Liquid Or Sludge Into 5,000 Gallon Bulk Tank Truck	1,165.07	
02 86 00 00-0097 Transport Drums To Landfill <small>(02 86 00 00-0001)</small>		
Note: Includes transportation for up to 25 miles.		
02 86 00 00-0098 EA Transport Drum To Landfill	91.94	
Note: Includes transportation for up to 25 miles.		
02 87 Bio-Hazard Material Remediation <small>(02 80)</small>		
02 87 13 Mold Remediation <small>(02 87)</small>		
Note: All unit pricing in this section includes: materials, equipment, mobilization, preparation, removal, clean-up, vacuuming, transportation for up to 25 miles, disposal, monitoring (personnel and air), sampling/testing, fees, documentation and other associated costs necessary for the complete removal and disposal of mold in accordance with EPA, OSHA, IICRC standards and local regulations. Where types of Mold are listed by quantity, the quantity of the entire project, not a particular work area of building, is to be used in determining which tasks apply. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 100 LF or SF (Up to 25 LF for Mold Abatement pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project. See CSI section 01 56 16 00-0033 for temporary stud walls, 01 74 19 00-0050 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0002 for plastic sheeting for containment construction, 02 89 00 00-0009 for decontamination chambers.		
02 87 13 33 Removal and Disposal of Materials with Mold <small>(02 87 13)</small>		
02 87 13 33-0001 Pipe And Pipe Fittings Insulation, Mold Abatement And Disposal <small>(02 87 13 33)</small>		
Note: Treat fittings as additional lf of insulation.		
02 87 13 33-0002 Pipe Insulation, Mold Abatement And Disposal <small>(02 87 13 33-0001)</small>		
Note: Diameter is outer size of insulation.		
02 87 13 33-0003 Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal <small>(02 87 13 33-0002)</small>		
Note: Excludes encased fittings.		
02 87 13 33-0004 SET Up To 20 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	616.20	
02 87 13 33-0005 LF >20 To 250 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	23.91	
02 87 13 33-0006 LF >250 To 500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	18.03	
02 87 13 33-0007 LF >500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	13.61	
02 87 13 33-0008 LF >2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	10.30	
02 87 13 33-0009 LF >10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	9.01	
02 87 13 33-0010 >6" Diameter Pipe Insulation, Mold Abatement And Disposal <small>(02 87 13 33-0002)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0011 SET Up To 20 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	639.26	
02 87 13 33-0012 LF >20 To 250 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	28.60	
02 87 13 33-0013 LF >250 To 500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	21.83	
02 87 13 33-0014 LF >500 To 2,500 LF, > 6" Diameter Pipe Insulation, Mold Abatement And Disposal	16.76	
02 87 13 33-0015 LF >2,500 To 10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	12.96	
02 87 13 33-0016 LF >10,000 LF, > 6" Diameter Pipe Insulation, Mold Abatement And Disposal	11.46	
02 87 13 33-0017 Thermal Insulation, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0018 Other Thermal Insulation, Up To 3" Thick, Mold Abatement And Disposal (02 87 13 33-0017)		
02 87 13 33-0019 SET Up To 50 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	627.73	
02 87 13 33-0020 SF >50 To 500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	13.90	
02 87 13 33-0021 SF >500 To 2,500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	10.52	
02 87 13 33-0022 SF >2,500 To 10,000 SF, Up To 3" Thick Other Thermal Insulation, Mold Abatement And Disposal	7.98	
02 87 13 33-0023 SF >10,000 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	6.21	
02 87 13 33-0024 Surfacing Material, Mold Abatement And Disposal (02 87 13 33)		
Note: e.g. fireproofing, acoustical plaster, etc.		
02 87 13 33-0025 Stucco, Mold Abatement And Disposal (02 87 13 33-0024)		
Note: Remove surface coat from brown coat or remove entire assembly, including lath.		
02 87 13 33-0026 SET Up To 50 SF, Stucco, Mold Abatement And Disposal	621.33	
02 87 13 33-0027 SF >50 To 500 SF, Stucco, Mold Abatement And Disposal	13.78	
02 87 13 33-0028 SF >500 To 2,500 SF, Stucco, Mold Abatement And Disposal	10.40	
02 87 13 33-0029 SF >2,500 To 10,000 SF, Stucco, Mold Abatement And Disposal	7.86	
02 87 13 33-0030 SF >10,000 SF, Stucco, Mold Abatement And Disposal	5.98	
02 87 13 33-0031 Fireproofing, Mold Abatement And Disposal (02 87 13 33-0024)		
Note: Exposed surface area, includes associated overspray.		
02 87 13 33-0032 SET Up To 50 SF, Fireproofing, Mold Abatement And Disposal	627.73	
02 87 13 33-0033 SF >50 To 500 SF, Fireproofing, Mold Abatement And Disposal	19.02	
02 87 13 33-0034 SF >500 To 2,500 SF, Fireproofing, Mold Abatement And Disposal	14.38	
02 87 13 33-0035 SF >2,500 To 10,000 SF, Fireproofing, Mold Abatement And Disposal	10.88	
02 87 13 33-0036 SF >10,000 SF, Fireproofing, Mold Abatement And Disposal	8.26	
02 87 13 33-0037 Siding, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0038 Exterior Siding, Mold Abatement And Disposal (02 87 13 33-0037)		
02 87 13 33-0039 SET Up To 100 SF, Exterior Siding Board, Mold Abatement And Disposal	634.14	
02 87 13 33-0040 SF >100 To 500 SF, Exterior Siding Board, Mold Abatement And Disposal	5.70	
02 87 13 33-0041 SF >500 To 2,500 SF, Exterior Siding Board, Mold Abatement And Disposal	3.97	
02 87 13 33-0042 SF >2,500 To 10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	2.69	
02 87 13 33-0043 SF >10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	2.44	
02 87 13 33-0044 Contaminated Debris, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0045 Contaminated Debris, Mold Abatement And Disposal (02 87 13 33-0044)		
02 87 13 33-0046 SET Up To 20 CF, Contaminated Debris, Mold Abatement And Disposal	639.26	
02 87 13 33-0047 CF >20 To 100 CF, Contaminated Debris, Mold Abatement And Disposal	22.59	
02 87 13 33-0048 CF >100 To 250 CF, Contaminated Debris, Mold Abatement And Disposal	15.57	
02 87 13 33-0049 CF >250 To 500 CF, Contaminated Debris, Mold Abatement And Disposal	12.06	
02 87 13 33-0050 CF >500 To 2,500 CF, Contaminated Debris, Mold Abatement And Disposal	9.96	
02 87 13 33-0051 CF >2,500 To 10,000 CF, Contaminated Debris, Mold Abatement And Disposal	6.14	
02 87 13 33-0052 CF >10,000 CF, Contaminated Debris, Mold Abatement And Disposal	5.67	
02 87 13 33-0053 Other Mold Containing Materials, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0054 Caulking, Mold Abatement And Disposal (02 87 13 33-0053)		
02 87 13 33-0055 SET Up To 20 LF, Caulking, Mold Abatement And Disposal	152.55	
02 87 13 33-0056 LF >20 To 50 LF, Caulking, Mold Abatement And Disposal	3.06	
02 87 13 33-0057 LF >50 To 100 LF, Caulking, Mold Abatement And Disposal	2.20	
02 87 13 33-0058 LF >100 To 250 LF, Caulking, Mold Abatement And Disposal	1.66	
02 87 13 33-0059 LF >250 To 1,000 LF, Caulking, Mold Abatement And Disposal	1.24	
02 87 13 33-0060 LF >1,000 To 2,500 LF, Caulking, Mold Abatement And Disposal	1.00	
02 87 13 33-0061 LF >2,500 LF, Caulking, Mold Abatement And Disposal	0.87	
02 87 13 33-0062 Wipe Down Walls, Ceilings And Floors (02 87 13 33-0053)		
02 87 13 33-0063 CSF Wipe Down Floors With Mild Bleach Solution	16.93	
For >25 To 50, Deduct	-1.69	
For >50 To 200, Deduct	-4.23	
For >200, Deduct	-6.76	
02 87 13 33-0064 CSF Wipe Down Walls With Mild Bleach Solution	19.91	
For >25 To 50, Deduct	-1.99	
For >50 To 200, Deduct	-4.97	
For >200, Deduct	-7.96	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0065	CSF		Wipe Down Ceilings With Mild Bleach Solution	22.64	
			<i>For >25 To 50, Deduct</i>	-2.26	
			<i>For >50 To 200, Deduct</i>	-5.66	
			<i>For >200, Deduct</i>	-9.05	
02 87 13 33-0066	CSF		Wipe Down Countertops With Mild Bleach Solution.....	18.46	
			<i>For >25 To 50, Deduct</i>	-1.84	
02 87 13 33-0067	CSF		Wipe Down Other Surfaces With Mild Bleach Solution.....	23.43	
			<i>For >25 To 50, Deduct</i>	-2.34	
			<i>For >50 To 200, Deduct</i>	-5.85	
			<i>For >200, Deduct</i>	-9.36	
02 87 16 Excrement Removal (02 87)					
Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, vacuuming, disposal, personnel health monitoring, documentation and other associated costs necessary for the complete removal and disposal of the contaminated material in accordance with EPA and local regulations. The quantity of the entire project, not a particular work area, is to be used in determining which tasks apply. There is a task with a unit of measure of EA for a quantity of less than 10 SF, followed by a series of tasks for additional quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus each additional task in sequence to arrive at the total quantity for the entire project, not a particular work area.					
02 87 16 13 Bird Excrement Removal (02 87 16)					
02 87 16 13-0001 Bird Waste Removal (02 87 16 13)					
Note: In addition to items listed the Bio-Hazard Material Remediation note above, includes wetting agents and disinfection of contaminated surfaces.					
02 87 16 13-0002	EA		Up To 10 SF Bird Waste Removal, Up To 3" Thickness.....	608.52	
			<i>For Work In Restricted Working Space, Add</i>	182.56	
02 87 16 13-0003	SF		>10 To 500 SF Bird Waste Removal, Up To 3" Thickness	10.14	
			<i>For Work In Restricted Working Space, Add</i>	3.04	
02 87 16 13-0004	SF		>500 To 2,500 SF Bird Waste Removal, Up To 3" Thickness.....	9.22	
			<i>For Work In Restricted Working Space, Add</i>	2.77	
02 87 16 13-0005	SF		>2,500 To 10,000 SF Bird Waste Removal, Up To 3" Thickness.....	8.38	
			<i>For Work In Restricted Working Space, Add</i>	2.51	
02 87 16 13-0006	SF		>10,000 SF Bird Waste Removal, Up To 3" Thickness.....	7.62	
			<i>For Work In Restricted Working Space, Add</i>	2.29	
02 89 Hazmat Ancillary Tasks and Support (02 89)					
02 89 00 00-0001 Barriers And Protection (02 89)					
Note: Includes removal and disposal after use.					
02 89 00 00-0002 Hazmat Containment Construction Plastic Sheeting (02 89 00 00-0001)					
02 89 00 00-0003	SF		6 Mil Plastic Sheeting, Applied To Floors, Hazmat Containment Construction.....	0.38	
02 89 00 00-0004	SF		6 Mil Plastic Sheeting, Applied To Walls, Hazmat Containment Construction	0.50	
02 89 00 00-0005	SF		6 Mil Plastic Sheeting, Applied To Ceilings, Hazmat Containment Construction	0.66	
02 89 00 00-0006	SF		6 Mil Plastic Fire Retardant, Anti Static Sheeting, Applied To Floors, Hazmat Containment Construction	0.65	
02 89 00 00-0007	SF		6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Walls, Hazmat Containment Construction.....	0.82	
02 89 00 00-0008	SF		6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Ceilings, Hazmat Containment Construction	1.07	
02 89 00 00-0009 Decontamination Chambers (02 89)					
Note: Includes removal after use.					
02 89 00 00-0010	EA		3 Stage Portable Personnel Decontamination Wash Facility	938.91	
			Note: Includes connection to negative air system.		
02 89 00 00-0011	EA		5 Stage Portable Personnel Decontamination Wash Facility.....	1,106.65	
			Note: Includes connection to negative air system.		
02 89 00 00-0012	EA		Portable Waste Decontamination Unit.....	573.51	
			Note: Includes connection to negative air system.		
			<i>For Dismantling And Relocation To A Different Area, Add</i>	366.30	

END OF SECTION 02



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

03 01 Maintenance of Concrete (03)

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

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

03 01 30 51-0001	Abrasive Blasting <small>(03 01 30 51)</small> Note: Includes containment and clean-up of all material. Includes steel ball media.	
03 01 30 51-0002	SF Concrete Floors, Abrasive Shot (Bead) Blasting.....	3.39
	<i>For Up To 100, Add</i>	2.92
	<i>For >100 To 250, Add</i>	0.73
	<i>For >250 To 500, Add</i>	0.37
	<i>For >5,000 To 10,000, Deduct</i>	-0.07
	<i>For >10,000, Deduct</i>	-0.15
03 01 30 51-0003	SF Concrete Walls, Abrasive Shot (Bead) Blasting.....	4.83
	<i>For Up To 100, Add</i>	5.80
	<i>For >100 To 250, Add</i>	1.45
	<i>For >250 To 500, Add</i>	0.73
	<i>For >5,000 To 10,000, Deduct</i>	-0.15
	<i>For >10,000, Deduct</i>	-0.29

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

03 01 30 71-0001	Concrete Resurfacing/Repair <small>(03 01 30 71)</small> See CSI section 09 01 90 52-0002 for surface preparation as required.	
03 01 30 71-0002	Concrete Repair <small>(03 01 30 71-0001)</small>	
03 01 30 71-0003	Decks Or Floors <small>(03 01 30 71-0002)</small> Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.	
03 01 30 71-0004	SF Patch Decks Or Floors With 1/8" To 1/4" Thick Cementitious Mortar.....	6.34
03 01 30 71-0005	SF Patch Decks Or Floors With 1/8" To 1/4" Thick Epoxy Cementitious Mortar	20.76
03 01 30 71-0006	SF Patch Decks Or Floors With White Aluminum Oxide Grit (Non Slip Aggregate)	0.58
03 01 30 71-0007	Concrete Grinding <small>(03 01 30 71-0002)</small>	
03 01 30 71-0008	SF Grinding Cured, Warped, Or Rough Concrete Slabs	1.02
	Note: Up to 1/8" of material per pass	
03 01 30 71-0009	Verticals Or Overheads <small>(03 01 30 71-0002)</small> Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.	
03 01 30 71-0010	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Cementitious Mortar	9.45
03 01 30 71-0011	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Epoxy Cementitious Mortar	27.94
03 01 30 71-0012	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Latex Cementitious Mortar	31.59
03 01 30 71-0013	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Elastomeric Compound	8.34
03 01 30 71-0014	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Copolymer Cementitious Compound.....	14.79
	Note: Rapid Set - WunderFixx	
03 01 30 71-0015	Bridge Deck Treatment <small>(03 01 30 71-0002)</small>	
03 01 30 71-0016	SF Sweep Bridge Deck	0.02
03 01 30 71-0017	SF Clean Bridge Deck	0.03
03 01 30 71-0018	SF Treat Bridge Deck With Methacrylate Resin Sealant	2.08
03 01 30 71-0019	Concrete Finishes <small>(03 01 30 71-0001)</small>	
03 01 30 71-0020	Concrete Patching <small>(03 01 30 71-0019)</small>	
03 01 30 71-0021	Walls <small>(03 01 30 71-0020)</small>	
03 01 30 71-0022	BAG Sika Top 111 Plus.....	161.41
	Note: SikaTop 111 PLUS is a two-component, polymer-modified, portland-cement, fast-setting, screed mortar. Yield: Approximately 0.5 cu. ft./unit. Approximately 0.75 cu. ft./unit (SikaTop 111 + 42 lbs. of 3/8" pea gravel).	
	<i>For Up To 10, Add</i>	59.15
	<i>For >10 To 25, Add</i>	35.49
	<i>For >25 To 50, Add</i>	23.66
	<i>For >50 To 75, Add</i>	11.83
03 01 30 71-0023	BAG Sika Grout 212, 50 LB Bag.....	110.89
	Note: SikaGrout 212 is a non-shrink, cementitious grout with a unique 2-stage shrinkage compensating mechanism. It is non-metallic and contains no chloride. Coverage: Approximately 0.44 cu. ft./bag at high flow.	
	<i>For Up To 10, Add</i>	37.48
	<i>For >10 To 25, Add</i>	22.49
	<i>For >25 To 50, Add</i>	14.99
	<i>For >50 To 75, Add</i>	7.50
03 01 30 71-0024	EA Sika Flex 1A, 10.3 Ounce Tube.....	37.48
	Note: Sikaflex-1a is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant. Coverage: 10.3 fl. oz. cartridge seals 12.4 lineal ft. of 1/2 x 1/4 in. joint. 20 fl. oz. uni-pac sausage seals 24 lineal ft. of 1/2 x 1/4 in. joint.	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 01 30 71-0025 BAG Pea Gravel.....	28.44	
03 01 30 71-0026 Crack Repair For Concrete (03 01 30 71-0001)		
03 01 30 71-0027 Non Structural Crack Repair For Concrete (03 01 30 71-0026)		
03 01 30 71-0028 Surface Applied, Non Structural Crack Repair For Concrete (03 01 30 71-0027) Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing sealer with caulk gun, cartridge gun, squeeze bottle, etc. Excludes backer rod and sanding.		
03 01 30 71-0029 LF Up To 1/4" Wide, Latex Emulsion, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	5.74	
For V-Grooving Crack With Grinder, Add	4.57	
03 01 30 71-0030 LF >1/4" To 1/2" Wide, Latex Emulsion, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	7.52	
For V-Grooving Crack With Grinder, Add	4.46	
03 01 30 71-0031 LF Up To 1/4" Wide, Sanded Acrylic Latex, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	5.87	
For V-Grooving Crack With Grinder, Add	4.57	
03 01 30 71-0032 LF >1/4" To 1/2" Wide, Sanded Acrylic Latex, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	7.77	
For V-Grooving Crack With Grinder, Add	4.46	
03 01 30 71-0033 LF Up To 1/4" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	6.34	
For V-Grooving Crack With Grinder, Add	4.57	
03 01 30 71-0034 LF >1/4" To 1/2" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	8.71	
For V-Grooving Crack With Grinder, Add	4.46	
03 01 30 71-0035 LF Up To 1/4" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	6.68	
For V-Grooving Crack With Grinder, Add	4.57	
03 01 30 71-0036 LF >1/4" To 1/2" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	9.40	
For V-Grooving Crack With Grinder, Add	4.46	
03 01 30 71-0037 Pressure Injected, Non Structural Crack Repair For Concrete (03 01 30 71-0027) Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with polyurethane and restoring the sealed surface to flush conditions. Excludes disposal.		
03 01 30 71-0038 LF Up To 1/4" Wide, Water Activated Polyurethane Foam Grout, Non Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (SealBoss 1570).....	27.14	
For Cracks Accessible From Both Sides, Add	5.53	
03 01 30 71-0039 Structural Crack Repair For Concrete (03 01 30 71-0026)		
03 01 30 71-0040 Surface Applied, Structural Crack Repair For Concrete (03 01 30 71-0039) Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Excludes disposal.		
03 01 30 71-0041 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	6.77	
For V-Grooving Crack With Grinder, Add	4.57	
03 01 30 71-0042 LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	9.57	
For V-Grooving Crack With Grinder, Add	4.46	
03 01 30 71-0043 LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied Trowel (Sikadur® 52).....	6.58	
For V-Grooving Crack With Grinder, Add	4.57	
03 01 30 71-0044 LF >1/4" To 1/2" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 52).....	9.21	
For V-Grooving Crack With Grinder, Add	4.46	
03 01 30 71-0045 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	8.11	
For V-Grooving Crack With Grinder, Add	4.57	
03 01 30 71-0046 LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	12.27	
For V-Grooving Crack With Grinder, Add	4.46	
03 01 30 71-0047 Pressure Injected, Structural Crack Repair For Concrete (03 01 30 71-0039) Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with epoxy and restoring the sealed surface to flush conditions. Excludes disposal.		
03 01 30 71-0048 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 35).....	23.48	
For Cracks Accessible From Both Sides, Add	5.53	
03 01 30 71-0049 LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 52).....	23.29	
For Cracks Accessible From Both Sides, Add	5.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 01 30 71-0050	Carbon Fiber Strengthening System (03 01 30 71-0001) <small>Note: Includes preparing surface, dust and debris removal by hand, clean and protect adjacent area, fill voids, primer, fabric substrate layers, final coat of epoxy and finish. Excludes disposal.</small>	
03 01 30 71-0051	SF Carbon Fiber Strengthening System For Concrete Beams, Per Layer <small>Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.</small>	79.00
03 01 30 71-0052	SF Carbon Fiber Strengthening System For Concrete Columns, Per Layer <small>Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.</small>	70.05
03 01 30 71-0053	SF Carbon Fiber Strengthening System For Concrete Ceiling Slabs, Per Layer..... <small>Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.</small>	65.02
03 01 30 71-0054	SF Carbon Fiber Strengthening System For Walls, Per Layer <small>Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.</small>	62.23

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

03 01 30 72-0001	Concrete Surface Repairs (03 01 30 72)	
03 01 30 72-0002	SF Sound The Concrete Surface To Locate Delaminated Areas	0.35

03 05 Common Work Results For Concrete (03)

03 05 13 Concrete Admixtures (03 05)

03 05 13 00-0001	Concrete Admixtures (03 05 13)	
03 05 13 00-0002	CY Low Range Water Reducing (LRWR), Type A Concrete Admixture	6.24
03 05 13 00-0003	CY Set Retarding, Type B Concrete Admixture	4.32
03 05 13 00-0004	CY 1% Calcium Chloride Accelerating, Type C Concrete Admixture.....	6.72
03 05 13 00-0005	CY 2% Calcium Chloride Accelerating, Type C Concrete Admixture.....	13.44
03 05 13 00-0006	CY 1% Non-Chloride Accelerating, Type C Concrete Admixture.....	12.00
03 05 13 00-0007	CY 2% Non-Chloride Accelerating, Type C Concrete Admixture	23.99
03 05 13 00-0008	CY Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture	5.18
03 05 13 00-0009	CY 1% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	7.20
03 05 13 00-0010	CY 2% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	14.40
03 05 13 00-0011	CY Mid Range Water Reducing (MRWR) Superplasticizer, Type A Or E Concrete Admixture	5.89
03 05 13 00-0012	CY High Range Water Reducing (HRWR) Superplasticizer, Type F Concrete Admixture	11.52
03 05 13 00-0013	CY 1-1/2 LB/CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture	15.36
03 05 13 00-0014	CY 25 LB/CY Steel Fibers, Concrete Admixture.....	37.71
03 05 13 00-0015	CY 10% Microsilica (Silica Fume), Concrete Admixture	76.78
03 05 13 00-0016	CY Corrosion Inhibiting Concrete Admixture	28.79
03 05 13 00-0017	CY Winter Service Or Heat, Concrete Add	6.72
03 05 13 00-0018	CY Chilled Water, Concrete Add	6.72
03 05 13 00-0019	CY Subtle Color (See Davis Colors Color Card), Concrete Admixture	38.87
03 05 13 00-0020	CY Standard Color (See Davis Colors Color Card), Concrete Admixture	64.78
03 05 13 00-0021	CY Premium Color (See Davis Colors Color Card), Concrete Admixture	124.38
03 05 13 00-0022	CY Ultra Premium Color (See Davis Colors Color Card), Concrete Admixture	172.75

03 10 Concrete Forming and Accessories (03)

03 11 Concrete Forming (03 10)

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

Note: Per square foot of formwork.

03 11 13 00-0001	Wood Formwork (03 11 13) <small>Note: For job built wood and/or plywood form systems where metal framed formwork cannot be used. Includes erecting, stripping, stacking, plywood, framing lumber, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.</small>	
03 11 13 00-0002	Foundation Wood Formwork (03 11 13 00-0001) <small>Note: For foundation work below or at grade.</small>	
03 11 13 00-0003	SF Continuous Footings Foundation Wood Formwork..... <small>For <1,000, Add</small>	8.88 1.57
	<small>For Foundations >8' Below Grade, Add</small>	1.47
	<small>For Curved Formwork, Add</small>	2.94
03 11 13 00-0004	SF Pile Cap, Pier Or Spread Footings Foundation Wood Formwork..... <small>For <1,000, Add</small>	10.42 1.87
	<small>For Foundations >8' Below Grade, Add</small>	1.77
	<small>For Curved Formwork, Add</small>	3.53
03 11 13 00-0005	SF Mat Foundation Wood Formwork..... <small>For <1,000, Add</small>	11.96 2.18
	<small>For Foundations >8' Below Grade, Add</small>	2.08
	<small>For Curved Formwork, Add</small>	4.15
03 11 13 00-0006	SF Grade Beams Or Duct Bank Foundation Wood Formwork..... <small>For <1,000, Add</small>	10.17 1.82
	<small>For Foundations >8' Below Grade, Add</small>	1.72
	<small>For Curved Formwork, Add</small>	3.44
03 11 13 00-0007	SF Below Grade Walls Foundation Wood Formwork	14.45
	<small>Note: Excludes footing</small>	
	<small>For <1,000, Add</small>	2.59
	<small>For Foundations >8' Below Grade, Add</small>	2.43
	<small>For Curved Formwork, Add</small>	4.87

03 Concrete**03 10 Concrete Forming and Accessories****03 11 Concrete Forming**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

03 11 13 00-0008	Slab Edge And Block-Out Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0009	LF Up To 6" High Slab Edge and Block-Out Wood Formwork	6.60	
	For Foundations >8' Below Grade, Add	1.16	
	For Curved Formwork, Add	2.32	
	For Up To 250, Add	1.21	
03 11 13 00-0010	LF >6" To 12" High Slab Edge and Block-Out Wood Formwork	9.76	
	For Foundations >8' Below Grade, Add	1.63	
	For Curved Formwork, Add	3.27	
	For Up To 250, Add	1.74	
03 11 13 00-0011	SF >12" High Slab Edge and Block-Out Wood Formwork	12.59	
	For Foundations >8' Below Grade, Add	2.12	
	For Curved Formwork, Add	4.23	
	For <1,000, Add	2.25	
03 11 13 00-0012	Column Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0013	LF Up To 8" Square Column Wood Formwork	52.79	
03 11 13 00-0014	LF >8" To 12" Square Column Wood Formwork	78.69	
03 11 13 00-0015	LF >12" To 18" Square Column Wood Formwork	97.72	
03 11 13 00-0016	LF >18" To 24" Square Column Wood Formwork	137.27	
03 11 13 00-0017	LF >24" To 36" Square Column Wood Formwork	196.14	
03 11 13 00-0018	LF >36" To 48" Square Column Wood Formwork	256.66	
03 11 13 00-0019	Above Grade Wall Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0020	SF Up To 8' High Above Grade Wall Wood Formwork	15.96	
	For Curved Formwork, Add	5.47	
	For <1,000, Add	2.89	
03 11 13 00-0021	SF >8' High Above Grade Wall Wood Formwork	18.85	
	For Curved Formwork, Add	6.48	
	For <1,000, Add	3.42	
03 11 13 00-0022	Elevated Beam Wood Formwork (03 11 13 00-0001)		
	Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.		
03 11 13 00-0023	SF Bottom of Elevated Beam Wood Formwork	20.24	
	For Curved Formwork, Add	7.07	
	For <1,000, Add	3.71	
03 11 13 00-0024	SF Vertical Sides of Elevated Beam Wood Formwork	13.21	
	For Curved Formwork, Add	4.55	
	For <1,000, Add	2.40	
03 11 13 00-0025	Elevated Slab Wood Formwork (03 11 13 00-0001)		
	Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.		
03 11 13 00-0026	SF Elevated Slab Wood Formwork	12.51	
	For <1,000, Add	2.18	
03 11 13 00-0027	Metal Framed Formwork (03 11 13)		
	Note: For all metal framed and metal form systems. Includes erecting, stripping, stacking, oiling, studs/walers, strongbacks, deadmen, supporting braces, tumbuckles, ties, and clips.		
03 11 13 00-0028	Foundation Metal Framed Formwork (03 11 13 00-0027)		
	Note: For foundation work below or at grade.		
03 11 13 00-0029	SF Continuous Footings Foundation Metal Framed Formwork	7.14	
	For <1,000, Add	1.33	
	For Foundations >8' Below Grade, Add	1.28	
	For Curved Formwork, Add	2.55	
03 11 13 00-0030	SF Pile Cap, Pier Or Spread Footings Foundation Metal Framed Formwork	7.93	
	For <1,000, Add	1.48	
	For Foundations >8' Below Grade, Add	1.43	
	For Curved Formwork, Add	2.86	
03 11 13 00-0031	SF Mat Foundation Metal Framed Formwork	8.86	
	For <1,000, Add	1.64	
	For Foundations >8' Below Grade, Add	1.58	
	For Curved Formwork, Add	3.16	
03 11 13 00-0032	SF Grade Beams Or Duct Bank Foundation Metal Framed Formwork	7.48	
	For <1,000, Add	1.38	
	For Foundations >8' Below Grade, Add	1.33	
	For Curved Formwork, Add	2.66	
03 11 13 00-0033	SF Below Grade Walls Foundation Metal Framed Formwork	11.43	
	Note: Excludes footing.		
	For <1,000, Add	2.15	
	For Foundations >8' Below Grade, Add	2.08	
	For Curved Formwork, Add	4.16	
03 11 13 00-0034	Slab Edge And Block-Out Metal Framed Formwork (03 11 13 00-0027)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11	13 00-0035	LF		Up To 6" High Slab Edge and Block-Out Metal Framed Formwork 5.20 <i>For Foundations >8' Below Grade, Add</i> 1.02 <i>For Curved Formwork, Add</i> 2.03 <i>For <250, Add</i> 1.02		
03 11	13 00-0036	LF		>6" To 12" High Slab Edge and Block-Out Metal Framed Formwork 6.50 <i>For Foundations >8' Below Grade, Add</i> 1.26 <i>For Curved Formwork, Add</i> 2.53 <i>For <250, Add</i> 1.28		
03 11	13 00-0037	SF		>12" High Slab Edge and Block-Out Metal Framed Formwork 7.19 <i>For Foundations >8' Below Grade, Add</i> 1.39 <i>For Curved Formwork, Add</i> 2.79 <i>For <1,000, Add</i> 1.41		
03 11 13 00-0038 Column Metal Framed Formwork (03 11 13 00-0027)						
03 11 13 00-0039 Square Columns (03 11 13 00-0038)						
03 11	13 00-0040	LF		Up To 12" Square Column Metal Framed Formwork 43.39		
03 11	13 00-0041	LF		>12" To 16" Square Column Metal Framed Formwork 52.37		
03 11	13 00-0042	LF		>16" To 20" Square Column Metal Framed Formwork 61.37		
03 11	13 00-0043	LF		>20" To 24" Square Column Metal Framed Formwork 73.37		
03 11	13 00-0044	LF		>24" To 30" Square Column Metal Framed Formwork 88.35		
03 11	13 00-0045	LF		>30" To 36" Square Column Metal Framed Formwork 106.02		
03 11	13 00-0046	LF		>36" To 48" Square Column Metal Framed Formwork 135.99		
03 11	13 00-0047	LF		>48" To 60" Square Column Metal Framed Formwork 167.63		
03 11 13 00-0048 Round Columns (03 11 13 00-0038)						
03 11	13 00-0049	LF		Up To 12" Diameter Column Metal Formwork 40.62		
03 11	13 00-0050	LF		>12" To 16" Diameter Column Metal Formwork 45.34		
03 11	13 00-0051	LF		>16" To 20" Diameter Column Metal Formwork 52.23		
03 11	13 00-0052	LF		>20" To 24" Diameter Column Metal Formwork 61.19		
03 11	13 00-0053	LF		>24" To 30" Diameter Column Metal Formwork 72.46		
03 11	13 00-0054	LF		>30" To 36" Diameter Column Metal Formwork 83.14		
03 11	13 00-0055	LF		>36" To 48" Diameter Column Metal Formwork 107.01		
03 11	13 00-0056	LF		>48" To 60" Diameter Column Metal Formwork 137.73		
03 11 13 00-0057 Above Grade Wall Metal Framed Formwork (03 11 13 00-0027)						
03 11	13 00-0058	SF		Up to 8' High Above Grade Wall Metal Framed Formwork 6.94 <i>For Curved Formwork, Add</i> 2.36 <i>For <1,000, Add</i> 1.25		
03 11	13 00-0059	SF		>8' High Above Grade Wall Metal Framed Formwork 8.45 <i>For Curved Formwork, Add</i> 2.84 <i>For <1,000, Add</i> 1.51		
03 11 13 00-0060 Elevated Beam Metal Framed Formwork (03 11 13 00-0027)						
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.						
03 11	13 00-0061	SF		Bottom of Elevated Beam Metal Framed Formwork 7.02 <i>For Curved Formwork, Add</i> 2.21 <i>For <1,000, Add</i> 1.21		
03 11	13 00-0062	SF		Vertical Sides of Elevated Beam Metal Framed Formwork 5.16 <i>For Curved Formwork, Add</i> 1.73 <i>For <1,000, Add</i> 0.92		
03 11 13 00-0063 Elevated Slab Metal Framed Formwork (03 11 13 00-0027)						
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.						
03 11	13 00-0064	SF		Elevated Slab Metal Framed Formwork 9.78 <i>For <1,000, Add</i> 1.48		
03 11 13 00-0065 Fiber Tube Formwork (03 11 13)						
Note: Includes all supporting braces, erecting, aligning, stripping, turnbuckles, ties and clips.						
03 11 13 00-0066 Round Column Fiber Tube Formwork (03 11 13 00-0065)						
03 11	13 00-0067	LF		6" Diameter Round Fiber Tube Formwork 18.99 <i>For Plastic Lined, Add</i> 0.86 <i>For Columns >12' In Length, Add</i> 1.90		
03 11	13 00-0068	LF		8" Diameter Round Fiber Tube Formwork 20.10 <i>For Plastic Lined, Add</i> 1.01 <i>For Columns >12' In Length, Add</i> 2.01		
03 11	13 00-0069	LF		10" Diameter Round Fiber Tube Formwork 22.23 <i>For Plastic Lined, Add</i> 1.16 <i>For Columns >12' In Length, Add</i> 2.22		
03 11	13 00-0070	LF		12" Diameter Round Fiber Tube Formwork 26.42 <i>For Plastic Lined, Add</i> 1.66 <i>For Columns >12' In Length, Add</i> 2.64		
03 11	13 00-0071	LF		14" Diameter Round Fiber Tube Formwork 30.10 <i>For Plastic Lined, Add</i> 2.25 <i>For Columns >12' In Length, Add</i> 3.01		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0072 LF 16" Diameter Round Fiber Tube Formwork	32.91	
For Plastic Lined, Add	2.85	
For Columns >12' In Length, Add	3.29	
03 11 13 00-0073 LF 18" Diameter Round Fiber Tube Formwork	34.64	
For Plastic Lined, Add	3.10	
For Columns >12' In Length, Add	3.46	
03 11 13 00-0074 LF 20" Diameter Round Fiber Tube Formwork	38.10	
For Plastic Lined, Add	3.87	
For Columns >12' In Length, Add	3.81	
03 11 13 00-0075 LF 22" Diameter Round Fiber Tube Formwork	42.02	
For Plastic Lined, Add	4.67	
For Columns >12' In Length, Add	4.20	
03 11 13 00-0076 LF 24" Diameter Round Fiber Tube Formwork	45.95	
For Plastic Lined, Add	5.47	
For Columns >12' In Length, Add	4.60	
03 11 13 00-0077 LF 26" Diameter Round Fiber Tube Formwork	48.11	
For Plastic Lined, Add	5.96	
For Columns >12' In Length, Add	4.81	
03 11 13 00-0078 LF 28" Diameter Round Fiber Tube Formwork	51.52	
For Plastic Lined, Add	6.83	
For Columns >12' In Length, Add	5.15	
03 11 13 00-0079 LF 30" Diameter Round Fiber Tube Formwork	55.20	
For Plastic Lined, Add	7.79	
For Columns >12' In Length, Add	5.52	
03 11 13 00-0080 LF 36" Diameter Round Fiber Tube Formwork	68.21	
For Plastic Lined, Add	11.15	
For Columns >12' In Length, Add	6.82	
03 11 13 00-0081 LF 42" Diameter Round Fiber Tube Formwork	95.48	
For Plastic Lined, Add	18.93	
For Columns >12' In Length, Add	9.55	
03 11 13 00-0082 LF 48" Diameter Round Fiber Tube Formwork	115.01	
For Plastic Lined, Add	24.40	
For Columns >12' In Length, Add	11.50	
03 11 13 00-0083 LF 54" Diameter Round Fiber Tube Formwork	196.24	
For Plastic Lined, Add	48.13	
For Columns >12' In Length, Add	19.62	
03 11 13 00-0084 LF 60" Diameter Round Fiber Tube Formwork	218.69	
For Plastic Lined, Add	54.38	
For Columns >12' In Length, Add	21.87	
03 11 13 00-0085 Accessories For Formwork (03 11 13)		
03 11 13 00-0086 Keyway Forms, All Materials (03 11 13 00-0085)		
03 11 13 00-0087 LF 2" x 4" To 2" x 6" Keyway Forms for Concrete Formwork, All Materials.....	2.35	
03 11 13 00-0088 Chamfer Strips, All Materials (03 11 13 00-0085)		
03 11 13 00-0089 LF 1/2" Wide Chamfer Strips for Concrete Formwork, All Materials.....	2.48	
03 11 13 00-0090 LF 3/4" Wide Chamfer Strips for Concrete Formwork, All Materials.....	2.91	
03 11 13 00-0091 LF 1" Wide Chamfer Strips for Concrete Formwork, All Materials.....	3.36	
03 11 13 00-0092 Strip Out Reglets For Concrete Formwork (03 11 13 00-0085)		
03 11 13 00-0093 LF 24 To 26 Gauge Galvanized Steel, Strip Out Reglets For Concrete Formwork.....	11.67	
03 11 13 00-0094 Sleeves And Chases, Plastic Or Sheet Metal (03 11 13 00-0085)		
03 11 13 00-0095 EA 2" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	13.22	
03 11 13 00-0096 EA 4" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	15.92	
03 11 13 00-0097 EA 6" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	19.25	
03 11 13 00-0098 EA 8" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	21.75	
03 11 13 00-0099 EA 12" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	27.99	
03 11 13 00-0100 EA 18" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	60.39	
03 11 16 Architectural Cast-In-Place Concrete Forming (03 11)		
03 11 16 13 Concrete Form Liners (03 11 16)		
03 11 16 13-0001 Concrete Form Liners (03 11 16 13)		
03 11 16 13-0002 SF Various Patterns And Textures, 1 Use, Concrete Form Liner, Add To Formwork.....	5.55	
03 11 16 13-0003 SF Beveled Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork	7.26	
03 11 16 13-0004 SF Square Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork.....	9.54	
03 11 23 Permanent Stair Forming (03 11)		
03 11 23 00-0001 Stairway Wood Formwork (03 11 23)		
03 11 23 00-0002 SF Cast On Grade Stairway Wood Formwork.....	19.11	
For Curved Formwork, Add	7.10	
For <1,000, Add	3.64	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	03 11 23 00-0003	SF		Elevated Stairway Wood Formwork Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair. <i>For Curved Formwork, Add</i> <i>For <1,000, Add</i>	38.39 13.94 7.21	
	03 11 23 00-0004			Stairway Metal Framed Formwork (03 11 23)		
	03 11 23 00-0005	SF		Cast On Grade Stairway Metal Framed Formwork <i>For Curved Formwork, Add</i> <i>For <1,000, Add</i>	15.07 5.74 2.92	
	03 11 23 00-0006	SF		Elevated Stairway Metal Framed Formwork Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair. <i>For Curved Formwork, Add</i> <i>For <1,000, Add</i>	28.07 10.68 5.43	
03 15 Concrete Accessories (03 10)						
03 15 13 Waterstops (03 15)						
03 15 13 13 Non-Expanding Waterstops (03 15 13)						
03 15 13 13-0001 Polyvinyl Chloride (PVC) Waterstops (03 15 13 13)						
	03 15 13 13-0002	LF		3/16" Thick x 4" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	8.54	
	03 15 13 13-0003	LF		3/16" Thick x 6" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	9.55	
	03 15 13 13-0004	LF		3/16" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	11.36	
	03 15 13 13-0005	LF		3/8" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	12.40	
	03 15 13 13-0006	LF		1/2" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	18.03	
	03 15 13 13-0007	LF		3/16" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	9.07	
	03 15 13 13-0008	LF		3/8" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	11.45	
	03 15 13 13-0009	LF		3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop	19.58	
	03 15 13 13-0010	LF		3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop With Center Bulb	15.72	
	03 15 13 13-0011			Rubber Waterstops (03 15 13 13)		
	03 15 13 13-0012	LF		3/8" Thick x 6" Wide Rubber Dumbbell Waterstop	9.49	
	03 15 13 13-0013	LF		3/8" Thick x 9" Wide Rubber Dumbbell Waterstop	10.81	
	03 15 13 13-0014	LF		1/4" Thick x 6" Wide Rubber Waterstop, With Center Bulb	9.71	
	03 15 13 13-0015	LF		1/4" Thick x 9" Wide Rubber Waterstop, With Center Bulb	13.06	
	03 15 13 13-0016	LF		3/8" Thick x 6" Wide Rubber Waterstop, With Center Bulb	11.08	
	03 15 13 13-0017	LF		3/8" Thick x 9" Wide Rubber Waterstop, With Center Bulb	13.97	
	03 15 13 16			Expanding Waterstops (03 15 13)		
	03 15 13 16-0001			Bentonite Waterstops (03 15 13 16)		
	03 15 13 16-0002	LF		3/4" x 3/8" Bentonite Waterstop	7.46	
	03 15 13 16-0003	LF		1-1/4" x 1/2" Bentonite Waterstop	11.26	
	03 15 13 16-0004	LF		1" x 3/4" Bentonite Waterstop	12.60	
	03 15 13 16-0005	LF		1" x 1" Bentonite Waterstop	14.18	
03 15 16 Concrete Construction Joints (03 15)						
	03 15 16 00-0001			Poured Expansion Joint (03 15 16)		
	03 15 16 00-0002	LF		1/2" x 1" Plain Asphalt Expansion Joint, Poured	2.76	0.79
				<i>For Installation In Walls, Add</i>	1.33	
	03 15 16 00-0003	LF		1" x 2" Plain Asphalt Expansion Joint, Poured	5.98	0.79
				<i>For Installation In Walls, Add</i>	1.49	
	03 15 16 00-0004	LF		1/2" x 1" Liquid Neoprene Expansion Joint, Poured, Cold Applied	2.67	0.79
				<i>For Installation In Walls, Add</i>	1.33	
	03 15 16 00-0005	LF		1" x 2" Liquid Neoprene Expansion Joint, Poured, Cold Applied	5.62	0.79
				<i>For Installation In Walls, Add</i>	1.49	
	03 15 16 00-0006	LF		1/2" x 1" Polyurethane Expansion Joint, Poured, 2 Parts	3.67	0.79
				<i>For Installation In Walls, Add</i>	1.49	
	03 15 16 00-0007	LF		1" x 2" Polyurethane Expansion Joint, Poured, Poured, 2 Parts	6.56	0.79
				<i>For Installation In Walls, Add</i>	2.42	
	03 15 16 00-0008	LF		1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Or Cold Applied	3.04	0.79
				<i>For Installation In Walls, Add</i>	1.33	
	03 15 16 00-0009	LF		1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	3.70	0.79
				<i>For Installation In Walls, Add</i>	1.33	
	03 15 16 00-0010	LF		1" x 2" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	9.39	0.79
				<i>For Installation In Walls, Add</i>	1.49	
	03 15 16 00-0011			Premolded Expansion Joints (03 15 16)		
	03 15 16 00-0012			Asphalt Saturated Fiber, Premolded Expansion Joints (03 15 16 00-0011)		
	03 15 16 00-0013	LF		1/4" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.39	1.11
	03 15 16 00-0014	LF		1/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	2.72	1.17
	03 15 16 00-0015	LF		1/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	2.92	1.22
	03 15 16 00-0016	LF		1/4" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	3.13	1.28
	03 15 16 00-0017	LF		3/8" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.58	1.11



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 16 00-0018	LF		3/8" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.87	1.17
03 15 16 00-0019	LF		3/8" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.20	1.22
03 15 16 00-0020	LF		3/8" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.67	1.28
03 15 16 00-0021	LF		1/2" x 2" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.35	1.06
03 15 16 00-0022	LF		1/2" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.55	1.11
03 15 16 00-0023	LF		1/2" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.79	1.17
03 15 16 00-0024	LF		1/2" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.99	1.22
03 15 16 00-0025	LF		1/2" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.24	1.28
03 15 16 00-0026	LF		1/2" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.57	1.33
03 15 16 00-0027	LF		1/2" x 10" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.83	1.39
03 15 16 00-0028	LF		1/2" x 12" Asphalt Saturated Fiber, Premolded Expansion Joint.....	4.27	1.44
03 15 16 00-0029	LF		3/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.81	1.17
03 15 16 00-0030	LF		3/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.19	1.22
03 15 16 00-0031	LF		3/4" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.86	1.33
03 15 16 00-0032	SF		1" Asphalt Saturated Fiber, Premolded Expansion Joint.....	6.57	1.83
03 15 16 00-0033			Cork, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0034	LF		1/2" x 4" Cork, Premolded Expansion Joint.....	3.90	1.17
03 15 16 00-0035	LF		1/2" x 6" Cork, Premolded Expansion Joint.....	4.38	1.28
03 15 16 00-0036	LF		1/2" x 8" Cork, Premolded Expansion Joint.....	4.74	1.33
03 15 16 00-0037	LF		1/2" x 10" Cork, Premolded Expansion Joint.....	6.54	1.39
03 15 16 00-0038	LF		1/2" x 12" Cork, Premolded Expansion Joint.....	6.95	1.44
03 15 16 00-0039	SF		1/2" Cork, Premolded Expansion Joint.....	7.72	1.83
03 15 16 00-0040	SF		3/4" Cork, Premolded Expansion Joint.....	8.89	1.83
03 15 16 00-0041	SF		1" Cork, Premolded Expansion Joint.....	9.42	1.83
03 15 16 00-0042			Flexible Polyethylene Foam, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0043	LF		1/4" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.58	1.17
03 15 16 00-0044	LF		1/4" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.70	1.22
03 15 16 00-0045	LF		1/4" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.84	1.28
03 15 16 00-0046	LF		1/4" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint.....	3.26	1.33
03 15 16 00-0047	LF		1/2" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.65	1.17
03 15 16 00-0048	LF		1/2" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.77	1.22
03 15 16 00-0049	LF		1/2" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint.....	2.89	1.28
03 15 16 00-0050	LF		1/2" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint.....	3.15	1.33
03 15 16 00-0051			Zip Strip, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0052	LF		1" Zip Strip, Premolded Expansion Joint.....	2.61	1.17
03 15 16 00-0053	LF		1-1/2" Zip Strip, Premolded Expansion Joint.....	2.84	1.22
03 15 16 00-0054	LF		2" Zip Strip, Premolded Expansion Joint.....	3.15	1.33
03 15 16 00-0055			Sponge Rubber, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0056	LF		1/2" x 4" Sponge Rubber, Premolded Expansion Joint.....	4.24	1.11
03 15 16 00-0057	LF		1/2" x 6" Sponge Rubber, Premolded Expansion Joint.....	5.08	1.11
03 15 16 00-0058			Asphalt Felt Control Joints Or Bond Breaker (03 15 16)		
03 15 16 00-0059	SF		Asphalt Felt Control Joint, 30 LB Felt Bond Breaker.....	1.22	0.84
			>1,250, Deduct	-0.06	
03 15 16 00-0060	SF		Asphalt Felt Control Joint, 15 LB Felt Bond Breaker.....	1.17	0.84
			>1,250, Deduct	-0.06	
03 15 16 00-0061			Keyed Cold Expansion And Control Joints (03 15 16)		
03 15 16 00-0062			24 Gauge Galvanized Steel With Stakes (03 15 16 00-0061)		
03 15 16 00-0063	LF		24 Gauge Galvanized Steel Keyed Joint, 3-1/2" Cold Expansion Or Control Joint.....	6.32	
03 15 16 00-0064	LF		24 Gauge Galvanized Steel Keyed Joint, 4-1/2" Cold Expansion Or Control Joint.....	6.44	
03 15 16 00-0065	LF		24 Gauge Galvanized Steel Keyed Joint, 5-1/2" Cold Expansion Or Control Joint.....	6.69	
03 15 16 00-0066	LF		24 Gauge Galvanized Steel Keyed Joint, 7-1/2" Cold Expansion Or Control Joint.....	7.08	
03 15 16 00-0067	LF		24 Gauge Galvanized Steel Keyed Joint, 9-1/2" Cold Expansion Or Control Joint.....	8.83	
03 15 19			Cast-In Concrete Anchors (03 15)		
03 15 19 00-0001			Cast In Place Anchors (03 15 19)		
			Note: For cast in place installations. Includes nut and washer.		
03 15 19 00-0002			J-Type Anchor Bolts (03 15 19 00-0001)		
			See CSI section 03 11 13 00-0002 for template.		
03 15 19 00-0003			1/2" And 5/8" Diameter (03 15 19 00-0002)		
03 15 19 00-0004	EA		1/2" Diameter x 6" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	9.66	
			For Galvanized, Add	1.68	
			For Stainless Steel, Add	11.73	
			For >10 To 50, Deduct	-0.32	
			For >50 To 100, Deduct	-0.71	
			For >100, Deduct	-1.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0005 EA 1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	11.07	
For Galvanized, Add	2.14	
For Stainless Steel, Add	14.95	
For >10 To 50, Deduct	-0.34	
For >50 To 100, Deduct	-0.79	
For >100, Deduct	-1.57	
03 15 19 00-0006 EA 1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	13.25	
For Galvanized, Add	2.95	
For Stainless Steel, Add	20.62	
For >10 To 50, Deduct	-0.37	
For >50 To 100, Deduct	-0.88	
For >100, Deduct	-1.77	
03 15 19 00-0007 EA 5/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	15.05	
For Galvanized, Add	3.85	
For Stainless Steel, Add	26.92	
For >10 To 50, Deduct	-0.37	
For >50 To 100, Deduct	-0.93	
For >100, Deduct	-1.86	
03 15 19 00-0008 EA 5/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	18.31	
For Galvanized, Add	5.14	
For Stainless Steel, Add	35.95	
For >10 To 50, Deduct	-0.40	
For >50 To 100, Deduct	-1.06	
For >100, Deduct	-2.12	
03 15 19 00-0009 EA 5/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	20.56	
For Galvanized, Add	5.87	
For Stainless Steel, Add	41.06	
For >10 To 50, Deduct	-0.44	
For >50 To 100, Deduct	-1.18	
For >100, Deduct	-2.35	
03 15 19 00-0010 3/4" And 7/8" Diameter <small>(03 15 19 00-0002)</small>		
03 15 19 00-0011 EA 3/4" Diameter x 8" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	20.48	
For Galvanized, Add	5.83	
For Stainless Steel, Add	40.78	
For >10 To 50, Deduct	-0.44	
For >50 To 100, Deduct	-1.17	
For >100, Deduct	-2.35	
03 15 19 00-0012 EA 3/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	23.40	
For Galvanized, Add	6.79	
For Stainless Steel, Add	47.53	
For >10 To 50, Deduct	-0.49	
For >50 To 100, Deduct	-1.32	
For >100, Deduct	-2.64	
03 15 19 00-0013 EA 3/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	28.44	
For Galvanized, Add	8.70	
For Stainless Steel, Add	60.87	
For >10 To 50, Deduct	-0.55	
For >50 To 100, Deduct	-1.54	
For >100, Deduct	-3.08	
03 15 19 00-0014 EA 3/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	34.30	
For Galvanized, Add	10.96	
For Stainless Steel, Add	76.72	
For >10 To 50, Deduct	-0.62	
For >50 To 100, Deduct	-1.79	
For >100, Deduct	-3.57	
03 15 19 00-0015 EA 7/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	26.97	
For Galvanized, Add	7.96	
For Stainless Steel, Add	55.72	
For >10 To 50, Deduct	-0.55	
For >50 To 100, Deduct	-1.50	
For >100, Deduct	-3.01	
03 15 19 00-0016 EA 7/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	31.69	
For Galvanized, Add	9.54	
For Stainless Steel, Add	66.75	
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.74	
For >100, Deduct	-3.48	
03 15 19 00-0017 EA 7/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	40.14	
For Galvanized, Add	12.71	
For Stainless Steel, Add	88.97	
For >10 To 50, Deduct	-0.74	
For >50 To 100, Deduct	-2.11	
For >100, Deduct	-4.22	
03 15 19 00-0018 1" And 1-1/8" Diameter <small>(03 15 19 00-0002)</small>		
03 15 19 00-0019 EA 1" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	33.22	
For Galvanized, Add	10.30	
For Stainless Steel, Add	72.10	
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.78	
For >100, Deduct	-3.55	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0020	EA		1" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	39.51	
			<i>For Galvanized, Add</i>	12.40	
			<i>For Stainless Steel, Add</i>	86.77	
			<i>For >10 To 50, Deduct</i>	-0.74	
			<i>For >50 To 100, Deduct</i>	-2.09	
			<i>For >100, Deduct</i>	-4.18	
03 15 19 00-0021	EA		1" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	48.74	
			<i>For Galvanized, Add</i>	15.54	
			<i>For Stainless Steel, Add</i>	108.75	
			<i>For >10 To 50, Deduct</i>	-0.88	
			<i>For >50 To 100, Deduct</i>	-2.54	
			<i>For >100, Deduct</i>	-5.09	
03 15 19 00-0022	EA		1" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	60.05	
			<i>For Galvanized, Add</i>	18.99	
			<i>For Stainless Steel, Add</i>	132.90	
			<i>For >10 To 50, Deduct</i>	-1.10	
			<i>For >50 To 100, Deduct</i>	-3.16	
			<i>For >100, Deduct</i>	-6.31	
03 15 19 00-0023	EA		1-1/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	39.61	
			<i>For Galvanized, Add</i>	12.88	
			<i>For Stainless Steel, Add</i>	90.13	
			<i>For >10 To 50, Deduct</i>	-0.69	
			<i>For >50 To 100, Deduct</i>	-2.03	
			<i>For >100, Deduct</i>	-4.06	
03 15 19 00-0024	EA		1-1/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	47.15	
			<i>For Galvanized, Add</i>	15.50	
			<i>For Stainless Steel, Add</i>	108.47	
			<i>For >10 To 50, Deduct</i>	-0.81	
			<i>For >50 To 100, Deduct</i>	-2.39	
			<i>For >100, Deduct</i>	-4.78	
03 15 19 00-0025	EA		1-1/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	58.24	
			<i>For Galvanized, Add</i>	19.43	
			<i>For Stainless Steel, Add</i>	135.98	
			<i>For >10 To 50, Deduct</i>	-0.97	
			<i>For >50 To 100, Deduct</i>	-2.91	
			<i>For >100, Deduct</i>	-5.82	
03 15 19 00-0026	EA		1-1/8" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	71.71	
			<i>For Galvanized, Add</i>	23.73	
			<i>For Stainless Steel, Add</i>	166.11	
			<i>For >10 To 50, Deduct</i>	-1.21	
			<i>For >50 To 100, Deduct</i>	-3.61	
			<i>For >100, Deduct</i>	-7.22	
03 15 19 00-0027			1-1/4" And 1-1/2" Diameter <small>(03 15 19 00-0002)</small>		
03 15 19 00-0028	EA		1-1/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	47.54	
			<i>For Galvanized, Add</i>	16.10	
			<i>For Stainless Steel, Add</i>	112.67	
			<i>For >10 To 50, Deduct</i>	-0.77	
			<i>For >50 To 100, Deduct</i>	-2.34	
			<i>For >100, Deduct</i>	-4.68	
03 15 19 00-0029	EA		1-1/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	56.63	
			<i>For Galvanized, Add</i>	19.37	
			<i>For Stainless Steel, Add</i>	135.59	
			<i>For >10 To 50, Deduct</i>	-0.89	
			<i>For >50 To 100, Deduct</i>	-2.76	
			<i>For >100, Deduct</i>	-5.52	
03 15 19 00-0030	EA		1-1/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	70.06	
			<i>For Galvanized, Add</i>	24.29	
			<i>For Stainless Steel, Add</i>	170.00	
			<i>For >10 To 50, Deduct</i>	-1.07	
			<i>For >50 To 100, Deduct</i>	-3.36	
			<i>For >100, Deduct</i>	-6.73	
03 15 19 00-0031	EA		1-1/4" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	86.17	
			<i>For Galvanized, Add</i>	29.66	
			<i>For Stainless Steel, Add</i>	207.62	
			<i>For >10 To 50, Deduct</i>	-1.34	
			<i>For >50 To 100, Deduct</i>	-4.17	
			<i>For >100, Deduct</i>	-8.34	
03 15 19 00-0032	EA		1-1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	57.44	
			<i>For Galvanized, Add</i>	20.12	
			<i>For Stainless Steel, Add</i>	140.81	
			<i>For >10 To 50, Deduct</i>	-0.86	
			<i>For >50 To 100, Deduct</i>	-2.73	
			<i>For >100, Deduct</i>	-5.45	
03 15 19 00-0033	EA		1-1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	68.50	
			<i>For Galvanized, Add</i>	24.21	
			<i>For Stainless Steel, Add</i>	169.47	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-3.22	
			<i>For >100, Deduct</i>	-6.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0034 EA 1-1/2" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	84.82	
For Galvanized, Add	30.36	
For Stainless Steel, Add	212.52	
For >10 To 50, Deduct	-1.21	
For >50 To 100, Deduct	-3.93	
For >100, Deduct	-7.86	
03 15 19 00-0035 EA 1-1/2" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	104.27	
For Galvanized, Add	37.08	
For Stainless Steel, Add	259.56	
For >10 To 50, Deduct	-1.51	
For >50 To 100, Deduct	-4.87	
For >100, Deduct	-9.73	
03 15 19 00-0036 L-Type Anchor Bolts <small>(03 15 19 00-0001)</small>		
See CSI section 03 11 13 00-0002 for template.		
03 15 19 00-0037 3/4" And 7/8" Diameter <small>(03 15 19 00-0036)</small>		
03 15 19 00-0038 EA 3/4" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	18.73	
For Galvanized, Add	4.46	
For Stainless Steel, Add	31.19	
For >10 To 50, Deduct	-0.49	
For >50 To 100, Deduct	-1.20	
For >100, Deduct	-2.41	
03 15 19 00-0039 EA 3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	22.05	
For Galvanized, Add	5.50	
For Stainless Steel, Add	38.50	
For >10 To 50, Deduct	-0.55	
For >50 To 100, Deduct	-1.38	
For >100, Deduct	-2.76	
03 15 19 00-0040 EA 3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	25.23	
For Galvanized, Add	6.31	
For Stainless Steel, Add	44.14	
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.58	
For >100, Deduct	-3.15	
03 15 19 00-0041 EA 3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	27.82	
For Galvanized, Add	6.55	
For Stainless Steel, Add	45.85	
For >10 To 50, Deduct	-0.74	
For >50 To 100, Deduct	-1.80	
For >100, Deduct	-3.60	
03 15 19 00-0042 EA 3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	31.42	
For Galvanized, Add	6.88	
For Stainless Steel, Add	48.13	
For >10 To 50, Deduct	-0.88	
For >50 To 100, Deduct	-2.11	
For >100, Deduct	-4.22	
03 15 19 00-0043 EA 7/8" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	22.09	
For Galvanized, Add	5.52	
For Stainless Steel, Add	38.64	
For >10 To 50, Deduct	-0.55	
For >50 To 100, Deduct	-1.38	
For >100, Deduct	-2.76	
03 15 19 00-0044 EA 7/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	25.49	
For Galvanized, Add	6.44	
For Stainless Steel, Add	45.05	
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.58	
For >100, Deduct	-3.17	
03 15 19 00-0045 EA 7/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	29.47	
For Galvanized, Add	7.38	
For Stainless Steel, Add	51.63	
For >10 To 50, Deduct	-0.74	
For >50 To 100, Deduct	-1.84	
For >100, Deduct	-3.68	
03 15 19 00-0046 EA 7/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	32.99	
For Galvanized, Add	7.66	
For Stainless Steel, Add	53.62	
For >10 To 50, Deduct	-0.88	
For >50 To 100, Deduct	-2.15	
For >100, Deduct	-4.30	
03 15 19 00-0047 EA 7/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	38.17	
For Galvanized, Add	8.05	
For Stainless Steel, Add	56.32	
For >10 To 50, Deduct	-1.10	
For >50 To 100, Deduct	-2.61	
For >100, Deduct	-5.22	
03 15 19 00-0048 1" And 1-1/8" Diameter <small>(03 15 19 00-0036)</small>		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0049	EA		1" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	26.78	
			<i>For Galvanized, Add</i>	7.08	
			<i>For Stainless Steel, Add</i>	49.56	
			<i>For >10 To 50, Deduct</i>	-0.63	
			<i>For >50 To 100, Deduct</i>	-1.62	
			<i>For >100, Deduct</i>	-3.23	
03 15 19 00-0050	EA		1" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	30.64	
			<i>For Galvanized, Add</i>	7.96	
			<i>For Stainless Steel, Add</i>	55.72	
			<i>For >10 To 50, Deduct</i>	-0.74	
			<i>For >50 To 100, Deduct</i>	-1.87	
			<i>For >100, Deduct</i>	-3.74	
03 15 19 00-0051	EA		1" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	35.48	
			<i>For Galvanized, Add</i>	8.91	
			<i>For Stainless Steel, Add</i>	62.34	
			<i>For >10 To 50, Deduct</i>	-0.88	
			<i>For >50 To 100, Deduct</i>	-2.21	
			<i>For >100, Deduct</i>	-4.42	
03 15 19 00-0052	EA		1" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	37.85	
			<i>For Galvanized, Add</i>	9.33	
			<i>For Stainless Steel, Add</i>	65.28	
			<i>For >10 To 50, Deduct</i>	-0.96	
			<i>For >50 To 100, Deduct</i>	-2.39	
			<i>For >100, Deduct</i>	-4.77	
03 15 19 00-0053	EA		1" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	41.61	
			<i>For Galvanized, Add</i>	9.77	
			<i>For Stainless Steel, Add</i>	68.36	
			<i>For >10 To 50, Deduct</i>	-1.10	
			<i>For >50 To 100, Deduct</i>	-2.70	
			<i>For >100, Deduct</i>	-5.39	
03 15 19 00-0054	EA		1" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	47.17	
			<i>For Galvanized, Add</i>	11.32	
			<i>For Stainless Steel, Add</i>	79.21	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-3.02	
			<i>For >100, Deduct</i>	-6.04	
03 15 19 00-0055	EA		1" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	55.93	
			<i>For Galvanized, Add</i>	13.25	
			<i>For Stainless Steel, Add</i>	92.72	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.61	
			<i>For >100, Deduct</i>	-7.21	
03 15 19 00-0056	EA		1-1/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	33.35	
			<i>For Galvanized, Add</i>	9.32	
			<i>For Stainless Steel, Add</i>	65.21	
			<i>For >10 To 50, Deduct</i>	-0.74	
			<i>For >50 To 100, Deduct</i>	-1.94	
			<i>For >100, Deduct</i>	-3.88	
03 15 19 00-0057	EA		1-1/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	38.52	
			<i>For Galvanized, Add</i>	10.43	
			<i>For Stainless Steel, Add</i>	72.98	
			<i>For >10 To 50, Deduct</i>	-0.88	
			<i>For >50 To 100, Deduct</i>	-2.29	
			<i>For >100, Deduct</i>	-4.58	
03 15 19 00-0058	EA		1-1/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	41.01	
			<i>For Galvanized, Add</i>	10.91	
			<i>For Stainless Steel, Add</i>	76.34	
			<i>For >10 To 50, Deduct</i>	-0.96	
			<i>For >50 To 100, Deduct</i>	-2.47	
			<i>For >100, Deduct</i>	-4.93	
03 15 19 00-0059			1-1/4" And 1-3/8" Diameter <small>(03 15 19 00-0036)</small>		
03 15 19 00-0060	EA		1-1/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	40.20	
			<i>For Galvanized, Add</i>	11.27	
			<i>For Stainless Steel, Add</i>	78.86	
			<i>For >10 To 50, Deduct</i>	-0.88	
			<i>For >50 To 100, Deduct</i>	-2.33	
			<i>For >100, Deduct</i>	-4.66	
03 15 19 00-0061	EA		1-1/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	48.44	
			<i>For Galvanized, Add</i>	13.18	
			<i>For Stainless Steel, Add</i>	92.26	
			<i>For >10 To 50, Deduct</i>	-1.10	
			<i>For >50 To 100, Deduct</i>	-2.87	
			<i>For >100, Deduct</i>	-5.73	
03 15 19 00-0062	EA		1-1/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	53.11	
			<i>For Galvanized, Add</i>	14.93	
			<i>For Stainless Steel, Add</i>	104.51	
			<i>For >10 To 50, Deduct</i>	-1.16	
			<i>For >50 To 100, Deduct</i>	-3.07	
			<i>For >100, Deduct</i>	-6.14	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	03 15 19 00-0063	EA		1-1/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	58.26	
				<i>For Galvanized, Add</i>	16.86	
				<i>For Stainless Steel, Add</i>	118.02	
				<i>For >10 To 50, Deduct</i>	-1.23	
				<i>For >50 To 100, Deduct</i>	-3.30	
				<i>For >100, Deduct</i>	-6.59	
	03 15 19 00-0064	EA		1-1/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	64.27	
				<i>For Galvanized, Add</i>	18.34	
				<i>For Stainless Steel, Add</i>	128.35	
				<i>For >10 To 50, Deduct</i>	-1.38	
				<i>For >50 To 100, Deduct</i>	-3.68	
				<i>For >100, Deduct</i>	-7.35	
	03 15 19 00-0065	EA		1-1/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	70.82	
				<i>For Galvanized, Add</i>	19.64	
				<i>For Stainless Steel, Add</i>	137.45	
				<i>For >10 To 50, Deduct</i>	-1.58	
				<i>For >50 To 100, Deduct</i>	-4.14	
				<i>For >100, Deduct</i>	-8.27	
	03 15 19 00-0066	EA		1-1/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	78.83	
				<i>For Galvanized, Add</i>	21.02	
				<i>For Stainless Steel, Add</i>	147.11	
				<i>For >10 To 50, Deduct</i>	-1.84	
				<i>For >50 To 100, Deduct</i>	-4.73	
				<i>For >100, Deduct</i>	-9.46	
	03 15 19 00-0067	EA		1-1/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	90.65	
				<i>For Galvanized, Add</i>	23.24	
				<i>For Stainless Steel, Add</i>	162.68	
				<i>For >10 To 50, Deduct</i>	-2.21	
				<i>For >50 To 100, Deduct</i>	-5.58	
				<i>For >100, Deduct</i>	-11.16	
	03 15 19 00-0068	EA		1-3/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	45.83	
				<i>For Galvanized, Add</i>	14.08	
				<i>For Stainless Steel, Add</i>	98.56	
				<i>For >10 To 50, Deduct</i>	-0.88	
				<i>For >50 To 100, Deduct</i>	-2.47	
				<i>For >100, Deduct</i>	-4.94	
	03 15 19 00-0069	EA		1-3/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	55.04	
				<i>For Galvanized, Add</i>	16.48	
				<i>For Stainless Steel, Add</i>	115.36	
				<i>For >10 To 50, Deduct</i>	-1.10	
				<i>For >50 To 100, Deduct</i>	-3.03	
				<i>For >100, Deduct</i>	-6.06	
	03 15 19 00-0070	EA		1-3/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	60.57	
				<i>For Galvanized, Add</i>	18.66	
				<i>For Stainless Steel, Add</i>	130.62	
				<i>For >10 To 50, Deduct</i>	-1.16	
				<i>For >50 To 100, Deduct</i>	-3.26	
				<i>For >100, Deduct</i>	-6.52	
	03 15 19 00-0071	EA		1-3/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	66.68	
				<i>For Galvanized, Add</i>	21.07	
				<i>For Stainless Steel, Add</i>	147.49	
				<i>For >10 To 50, Deduct</i>	-1.23	
				<i>For >50 To 100, Deduct</i>	-3.51	
				<i>For >100, Deduct</i>	-7.02	
	03 15 19 00-0072	EA		1-3/8" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	73.45	
				<i>For Galvanized, Add</i>	22.93	
				<i>For Stainless Steel, Add</i>	160.48	
				<i>For >10 To 50, Deduct</i>	-1.38	
				<i>For >50 To 100, Deduct</i>	-3.91	
				<i>For >100, Deduct</i>	-7.81	
	03 15 19 00-0073	EA		1-3/8" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	80.65	
				<i>For Galvanized, Add</i>	24.55	
				<i>For Stainless Steel, Add</i>	171.85	
				<i>For >10 To 50, Deduct</i>	-1.58	
				<i>For >50 To 100, Deduct</i>	-4.38	
				<i>For >100, Deduct</i>	-8.77	
	03 15 19 00-0074	EA		1-3/8" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	89.77	
				<i>For Galvanized, Add</i>	26.49	
				<i>For Stainless Steel, Add</i>	185.40	
				<i>For >10 To 50, Deduct</i>	-1.84	
				<i>For >50 To 100, Deduct</i>	-5.00	
				<i>For >100, Deduct</i>	-10.01	
	03 15 19 00-0075	EA		1-3/8" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	102.28	
				<i>For Galvanized, Add</i>	29.06	
				<i>For Stainless Steel, Add</i>	203.39	
				<i>For >10 To 50, Deduct</i>	-2.21	
				<i>For >50 To 100, Deduct</i>	-5.87	
				<i>For >100, Deduct</i>	-11.74	

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

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0077	EA		1-1/2" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	59.12	
			<i>For Galvanized, Add</i>	19.52	
			<i>For Stainless Steel, Add</i>	136.64	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.98	
			<i>For >100, Deduct</i>	-5.97	
03 15 19 00-0078	EA		1-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	64.19	
			<i>For Galvanized, Add</i>	20.47	
			<i>For Stainless Steel, Add</i>	143.29	
			<i>For >10 To 50, Deduct</i>	-1.16	
			<i>For >50 To 100, Deduct</i>	-3.35	
			<i>For >100, Deduct</i>	-6.70	
03 15 19 00-0079	EA		1-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	71.03	
			<i>For Galvanized, Add</i>	22.53	
			<i>For Stainless Steel, Add</i>	157.68	
			<i>For >10 To 50, Deduct</i>	-1.30	
			<i>For >50 To 100, Deduct</i>	-3.72	
			<i>For >100, Deduct</i>	-7.45	
03 15 19 00-0080	EA		1-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	76.82	
			<i>For Galvanized, Add</i>	24.61	
			<i>For Stainless Steel, Add</i>	172.27	
			<i>For >10 To 50, Deduct</i>	-1.38	
			<i>For >50 To 100, Deduct</i>	-3.99	
			<i>For >100, Deduct</i>	-7.98	
03 15 19 00-0081	EA		1-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	82.83	
			<i>For Galvanized, Add</i>	26.70	
			<i>For Stainless Steel, Add</i>	186.87	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-4.28	
			<i>For >100, Deduct</i>	-8.56	
03 15 19 00-0082	EA		1-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	91.39	
			<i>For Galvanized, Add</i>	28.71	
			<i>For Stainless Steel, Add</i>	200.94	
			<i>For >10 To 50, Deduct</i>	-1.70	
			<i>For >50 To 100, Deduct</i>	-4.83	
			<i>For >100, Deduct</i>	-9.67	
03 15 19 00-0083	EA		1-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	102.27	
			<i>For Galvanized, Add</i>	31.06	
			<i>For Stainless Steel, Add</i>	217.39	
			<i>For >10 To 50, Deduct</i>	-2.01	
			<i>For >50 To 100, Deduct</i>	-5.57	
			<i>For >100, Deduct</i>	-11.14	
03 15 19 00-0084	EA		1-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	117.96	
			<i>For Galvanized, Add</i>	34.44	
			<i>For Stainless Steel, Add</i>	241.08	
			<i>For >10 To 50, Deduct</i>	-2.45	
			<i>For >50 To 100, Deduct</i>	-6.63	
			<i>For >100, Deduct</i>	-13.26	
03 15 19 00-0085	EA		1-3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	80.81	
			<i>For Galvanized, Add</i>	29.37	
			<i>For Stainless Steel, Add</i>	205.56	
			<i>For >10 To 50, Deduct</i>	-1.10	
			<i>For >50 To 100, Deduct</i>	-3.68	
			<i>For >100, Deduct</i>	-7.35	
03 15 19 00-0086	EA		1-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	84.55	
			<i>For Galvanized, Add</i>	30.01	
			<i>For Stainless Steel, Add</i>	210.04	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-3.95	
			<i>For >100, Deduct</i>	-7.91	
03 15 19 00-0087	EA		1-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	86.96	
			<i>For Galvanized, Add</i>	30.49	
			<i>For Stainless Steel, Add</i>	213.43	
			<i>For >10 To 50, Deduct</i>	-1.30	
			<i>For >50 To 100, Deduct</i>	-4.12	
			<i>For >100, Deduct</i>	-8.25	
03 15 19 00-0088	EA		1-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	98.03	
			<i>For Galvanized, Add</i>	35.22	
			<i>For Stainless Steel, Add</i>	246.51	
			<i>For >10 To 50, Deduct</i>	-1.38	
			<i>For >50 To 100, Deduct</i>	-4.52	
			<i>For >100, Deduct</i>	-9.04	
03 15 19 00-0089	EA		1-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	112.85	
			<i>For Galvanized, Add</i>	40.65	
			<i>For Stainless Steel, Add</i>	284.55	
			<i>For >10 To 50, Deduct</i>	-1.58	
			<i>For >50 To 100, Deduct</i>	-5.19	
			<i>For >100, Deduct</i>	-10.38	
03 15 19 00-0090	EA		1-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	119.17	
			<i>For Galvanized, Add</i>	41.19	
			<i>For Stainless Steel, Add</i>	288.30	
			<i>For >10 To 50, Deduct</i>	-1.84	
			<i>For >50 To 100, Deduct</i>	-5.74	
			<i>For >100, Deduct</i>	-11.48	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0091	EA		1-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	133.12	
			<i>For Galvanized, Add</i>	44.48	
			<i>For Stainless Steel, Add</i>	311.33	
			<i>For >10 To 50, Deduct</i>	-2.21	
			<i>For >50 To 100, Deduct</i>	-6.64	
			<i>For >100, Deduct</i>	-13.28	
03 15 19 00-0092	EA		1-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	151.01	
			<i>For Galvanized, Add</i>	47.90	
			<i>For Stainless Steel, Add</i>	335.30	
			<i>For >10 To 50, Deduct</i>	-2.76	
			<i>For >50 To 100, Deduct</i>	-7.92	
			<i>For >100, Deduct</i>	-15.83	
03 15 19 00-0093	EA		2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	115.39	
			<i>For Galvanized, Add</i>	44.71	
			<i>For Stainless Steel, Add</i>	312.94	
			<i>For >10 To 50, Deduct</i>	-1.30	
			<i>For >50 To 100, Deduct</i>	-4.83	
			<i>For >100, Deduct</i>	-9.67	
03 15 19 00-0094	EA		2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	126.10	
			<i>For Galvanized, Add</i>	48.33	
			<i>For Stainless Steel, Add</i>	338.31	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-5.36	
			<i>For >100, Deduct</i>	-10.72	
03 15 19 00-0095	EA		2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	139.34	
			<i>For Galvanized, Add</i>	52.68	
			<i>For Stainless Steel, Add</i>	368.76	
			<i>For >10 To 50, Deduct</i>	-1.70	
			<i>For >50 To 100, Deduct</i>	-6.03	
			<i>For >100, Deduct</i>	-12.06	
03 15 19 00-0096	EA		2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	151.74	
			<i>For Galvanized, Add</i>	55.79	
			<i>For Stainless Steel, Add</i>	390.53	
			<i>For >10 To 50, Deduct</i>	-2.01	
			<i>For >50 To 100, Deduct</i>	-6.81	
			<i>For >100, Deduct</i>	-13.61	
03 15 19 00-0097	EA		2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	164.07	
			<i>For Galvanized, Add</i>	59.95	
			<i>For Stainless Steel, Add</i>	419.65	
			<i>For >10 To 50, Deduct</i>	-2.21	
			<i>For >50 To 100, Deduct</i>	-7.41	
			<i>For >100, Deduct</i>	-14.83	
03 15 19 00-0098	EA		2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	177.11	
			<i>For Galvanized, Add</i>	64.02	
			<i>For Stainless Steel, Add</i>	448.11	
			<i>For >10 To 50, Deduct</i>	-2.45	
			<i>For >50 To 100, Deduct</i>	-8.11	
			<i>For >100, Deduct</i>	-16.22	
03 15 19 00-0099	EA		2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	200.60	
			<i>For Galvanized, Add</i>	68.75	
			<i>For Stainless Steel, Add</i>	481.25	
			<i>For >10 To 50, Deduct</i>	-3.16	
			<i>For >50 To 100, Deduct</i>	-9.75	
			<i>For >100, Deduct</i>	-19.50	
03 15 19 00-0100	EA		2" Diameter x 66" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	214.26	
			<i>For Galvanized, Add</i>	75.58	
			<i>For Stainless Steel, Add</i>	529.06	
			<i>For >10 To 50, Deduct</i>	-3.16	
			<i>For >50 To 100, Deduct</i>	-10.09	
			<i>For >100, Deduct</i>	-20.18	
03 15 19 00-0101	EA		2" Diameter x 72" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	241.65	
			<i>For Galvanized, Add</i>	84.02	
			<i>For Stainless Steel, Add</i>	588.11	
			<i>For >10 To 50, Deduct</i>	-3.68	
			<i>For >50 To 100, Deduct</i>	-11.56	
			<i>For >100, Deduct</i>	-23.13	
03 15 19 00-0102			2-1/2" And 2-3/4" Diameter <small>(03 15 19 00-0036)</small>		
03 15 19 00-0103	EA		2-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	224.62	
			<i>For Galvanized, Add</i>	99.32	
			<i>For Stainless Steel, Add</i>	695.24	
			<i>For >10 To 50, Deduct</i>	-1.30	
			<i>For >50 To 100, Deduct</i>	-7.56	
			<i>For >100, Deduct</i>	-15.13	
03 15 19 00-0104	EA		2-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	237.07	
			<i>For Galvanized, Add</i>	103.82	
			<i>For Stainless Steel, Add</i>	726.71	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-8.13	
			<i>For >100, Deduct</i>	-16.27	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15	19 00-0105	EA	2-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	259.15	
			For Galvanized, Add	112.59	
			For Stainless Steel, Add	788.10	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-9.03	
			For >100, Deduct	-18.05	
03 15	19 00-0106	EA	2-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	277.46	
			For Galvanized, Add	118.65	
			For Stainless Steel, Add	830.55	
			For >10 To 50, Deduct	-2.01	
			For >50 To 100, Deduct	-9.95	
			For >100, Deduct	-19.90	
03 15	19 00-0107	EA	2-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	294.19	
			For Galvanized, Add	125.01	
			For Stainless Steel, Add	875.07	
			For >10 To 50, Deduct	-2.21	
			For >50 To 100, Deduct	-10.67	
			For >100, Deduct	-21.34	
03 15	19 00-0108	EA	2-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	313.35	
			For Galvanized, Add	132.14	
			For Stainless Steel, Add	924.95	
			For >10 To 50, Deduct	-2.45	
			For >50 To 100, Deduct	-11.51	
			For >100, Deduct	-23.03	
03 15	19 00-0109	EA	2-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	341.96	
			For Galvanized, Add	139.43	
			For Stainless Steel, Add	976.01	
			For >10 To 50, Deduct	-3.16	
			For >50 To 100, Deduct	-13.28	
			For >100, Deduct	-26.56	
03 15	19 00-0110	EA	2-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	252.48	
			For Galvanized, Add	112.44	
			For Stainless Steel, Add	787.08	
			For >10 To 50, Deduct	-1.38	
			For >50 To 100, Deduct	-8.38	
			For >100, Deduct	-16.76	
03 15	19 00-0111	EA	2-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	272.10	
			For Galvanized, Add	120.28	
			For Stainless Steel, Add	841.93	
			For >10 To 50, Deduct	-1.58	
			For >50 To 100, Deduct	-9.17	
			For >100, Deduct	-18.34	
03 15	19 00-0112	EA	2-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	293.17	
			For Galvanized, Add	128.19	
			For Stainless Steel, Add	897.30	
			For >10 To 50, Deduct	-1.84	
			For >50 To 100, Deduct	-10.09	
			For >100, Deduct	-20.18	
03 15	19 00-0113	EA	2-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	314.79	
			For Galvanized, Add	135.31	
			For Stainless Steel, Add	947.17	
			For >10 To 50, Deduct	-2.21	
			For >50 To 100, Deduct	-11.18	
			For >100, Deduct	-22.37	
03 15	19 00-0114	EA	2-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	335.27	
			For Galvanized, Add	143.10	
			For Stainless Steel, Add	1,001.67	
			For >10 To 50, Deduct	-2.45	
			For >50 To 100, Deduct	-12.06	
			For >100, Deduct	-24.13	
03 15	19 00-0115	EA	2-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	363.51	
			For Galvanized, Add	154.15	
			For Stainless Steel, Add	1,079.05	
			For >10 To 50, Deduct	-2.76	
			For >50 To 100, Deduct	-13.23	
			For >100, Deduct	-26.46	
03 15	19 00-0116	EA	2-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	398.87	
			For Galvanized, Add	162.63	
			For Stainless Steel, Add	1,138.38	
			For >10 To 50, Deduct	-3.68	
			For >50 To 100, Deduct	-15.49	
			For >100, Deduct	-30.99	

03 20 Concrete Reinforcing ⁽⁰³⁾

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

03 21 Reinforcement Bars ^(03 20)

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

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

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0002	LF		#3, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	0.64	
03 21 11 00-0003	LF		#4, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	1.07	
03 21 11 00-0004	LF		#5, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	1.61	
03 21 11 00-0005	LF		#6, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	2.22	
03 21 11 00-0006	LF		#3, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	0.66	
03 21 11 00-0007	LF		#4, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	1.10	
03 21 11 00-0008	LF		#5, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	1.64	
03 21 11 00-0009	LF		#6, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	2.27	
03 21 11 00-0010	LF		#3, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	0.68	
03 21 11 00-0011	LF		#4, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	1.13	
03 21 11 00-0012	LF		#5, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	1.70	
03 21 11 00-0013	LF		#6, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	2.35	
03 21 11 00-0014	LF		#7, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	3.03	
03 21 11 00-0015	LF		#8, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	3.77	
03 21 11 00-0016	LF		#9, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	4.61	
03 21 11 00-0017	LF		#10, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	5.63	
03 21 11 00-0018	LF		#11, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	6.69	
03 21 11 00-0019	LF		#14, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	9.26	
03 21 11 00-0020	LF		#18, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	15.77	
03 21 11 00-0021	LF		#6, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	2.42	
03 21 11 00-0022	LF		#7, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	3.13	
03 21 11 00-0023	LF		#8, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	3.90	
03 21 11 00-0024	LF		#9, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	4.79	
03 21 11 00-0025	LF		#10, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	5.85	
03 21 11 00-0026	LF		#11, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	6.96	
03 21 11 00-0027	LF		#14, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	9.64	
03 21 11 00-0028	LF		#18, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	16.46	
03 21 11 00-0029	LF		#3, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	0.69	
03 21 11 00-0030	LF		#4, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	1.16	
03 21 11 00-0031	LF		#5, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	1.74	
03 21 11 00-0032	LF		#6, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	2.40	
03 21 11 00-0033	LF		#7, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	3.11	
03 21 11 00-0034	LF		#8, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	3.87	
03 21 11 00-0035	LF		#9, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	4.74	
03 21 11 00-0036	LF		#10, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	5.80	
03 21 11 00-0037	LF		#11, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	6.89	
03 21 11 00-0038	LF		#14, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	9.55	
03 21 11 00-0039	LF		#18, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	16.29	

03 21 11 00-0040

Columns, Steel Reinforcement Bar (03 21 11)

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

03 21 11 00-0041	LF		#3, Grade 40, Columns, Steel Reinforcement Bar.....	0.66	
03 21 11 00-0042	LF		#4, Grade 40, Columns, Steel Reinforcement Bar.....	1.14	
03 21 11 00-0043	LF		#5, Grade 40, Columns, Steel Reinforcement Bar.....	1.70	
03 21 11 00-0044	LF		#6, Grade 40, Columns, Steel Reinforcement Bar.....	2.33	
03 21 11 00-0045	LF		#3, Grade 50, Columns, Steel Reinforcement Bar.....	0.68	
03 21 11 00-0046	LF		#4, Grade 50, Columns, Steel Reinforcement Bar.....	1.17	
03 21 11 00-0047	LF		#5, Grade 50, Columns, Steel Reinforcement Bar.....	1.73	
03 21 11 00-0048	LF		#6, Grade 50, Columns, Steel Reinforcement Bar.....	2.38	
03 21 11 00-0049	LF		#3, Grade 60, Columns, Steel Reinforcement Bar.....	0.70	
03 21 11 00-0050	LF		#4, Grade 60, Columns, Steel Reinforcement Bar.....	1.20	
03 21 11 00-0051	LF		#5, Grade 60, Columns, Steel Reinforcement Bar.....	1.79	
03 21 11 00-0052	LF		#6, Grade 60, Columns, Steel Reinforcement Bar.....	2.46	
03 21 11 00-0053	LF		#7, Grade 60, Columns, Steel Reinforcement Bar.....	3.18	
03 21 11 00-0054	LF		#8, Grade 60, Columns, Steel Reinforcement Bar.....	3.94	
03 21 11 00-0055	LF		#9, Grade 60, Columns, Steel Reinforcement Bar.....	4.81	
03 21 11 00-0056	LF		#10, Grade 60, Columns, Steel Reinforcement Bar.....	5.86	
03 21 11 00-0057	LF		#11, Grade 60, Columns, Steel Reinforcement Bar.....	6.94	
03 21 11 00-0058	LF		#14, Grade 60, Columns, Steel Reinforcement Bar.....	9.60	
03 21 11 00-0059	LF		#18, Grade 60, Columns, Steel Reinforcement Bar.....	16.31	
03 21 11 00-0060	LF		#6, Grade 75, Columns, Steel Reinforcement Bar.....	2.53	
03 21 11 00-0061	LF		#7, Grade 75, Columns, Steel Reinforcement Bar.....	3.28	
03 21 11 00-0062	LF		#8, Grade 75, Columns, Steel Reinforcement Bar.....	4.07	
03 21 11 00-0063	LF		#9, Grade 75, Columns, Steel Reinforcement Bar.....	4.99	
03 21 11 00-0064	LF		#10, Grade 75, Columns, Steel Reinforcement Bar.....	6.08	
03 21 11 00-0065	LF		#11, Grade 75, Columns, Steel Reinforcement Bar.....	7.21	
03 21 11 00-0066	LF		#14, Grade 75, Columns, Steel Reinforcement Bar.....	9.98	
03 21 11 00-0067	LF		#18, Grade 75, Columns, Steel Reinforcement Bar.....	17.00	
03 21 11 00-0068	LF		#3, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	0.71	
03 21 11 00-0069	LF		#4, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	1.23	
03 21 11 00-0070	LF		#5, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	1.83	
03 21 11 00-0071	LF		#6, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	2.51	
03 21 11 00-0072	LF		#7, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	3.26	
03 21 11 00-0073	LF		#8, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	4.04	
03 21 11 00-0074	LF		#9, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	4.94	
03 21 11 00-0075	LF		#10, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	6.03	
03 21 11 00-0076	LF		#11, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	7.14	
03 21 11 00-0077	LF		#14, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	9.89	
03 21 11 00-0078	LF		#18, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	16.83	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 21 11 00-0079

Footings, Steel Reinforcement Bar ^(03 21 11)

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

03 21 11 00-0080	LF	#3, Grade 40, Footings, Steel Reinforcement Bar	0.58
03 21 11 00-0081	LF	#4, Grade 40, Footings, Steel Reinforcement Bar	0.98
03 21 11 00-0082	LF	#5, Grade 40, Footings, Steel Reinforcement Bar	1.48
03 21 11 00-0083	LF	#6, Grade 40, Footings, Steel Reinforcement Bar	2.04
03 21 11 00-0084	LF	#3, Grade 50, Footings, Steel Reinforcement Bar	0.60
03 21 11 00-0085	LF	#4, Grade 50, Footings, Steel Reinforcement Bar	1.01
03 21 11 00-0086	LF	#5, Grade 50, Footings, Steel Reinforcement Bar	1.51
03 21 11 00-0087	LF	#6, Grade 50, Footings, Steel Reinforcement Bar	2.09
03 21 11 00-0088	LF	#3, Grade 60, Footings, Steel Reinforcement Bar	0.62
03 21 11 00-0089	LF	#4, Grade 60, Footings, Steel Reinforcement Bar	1.04
03 21 11 00-0090	LF	#5, Grade 60, Footings, Steel Reinforcement Bar	1.57
03 21 11 00-0091	LF	#6, Grade 60, Footings, Steel Reinforcement Bar	2.17
03 21 11 00-0092	LF	#7, Grade 60, Footings, Steel Reinforcement Bar	2.81
03 21 11 00-0093	LF	#8, Grade 60, Footings, Steel Reinforcement Bar	3.51
03 21 11 00-0094	LF	#9, Grade 60, Footings, Steel Reinforcement Bar	4.31
03 21 11 00-0095	LF	#10, Grade 60, Footings, Steel Reinforcement Bar	5.28
03 21 11 00-0096	LF	#11, Grade 60, Footings, Steel Reinforcement Bar	6.29
03 21 11 00-0097	LF	#14, Grade 60, Footings, Steel Reinforcement Bar	8.74
03 21 11 00-0098	LF	#18, Grade 60, Footings, Steel Reinforcement Bar	14.95
03 21 11 00-0099	LF	#6, Grade 75, Footings, Steel Reinforcement Bar	2.24
03 21 11 00-0100	LF	#7, Grade 75, Footings, Steel Reinforcement Bar	2.91
03 21 11 00-0101	LF	#8, Grade 75, Footings, Steel Reinforcement Bar	3.64
03 21 11 00-0102	LF	#9, Grade 75, Footings, Steel Reinforcement Bar	4.49
03 21 11 00-0103	LF	#10, Grade 75, Footings, Steel Reinforcement Bar	5.50
03 21 11 00-0104	LF	#11, Grade 75, Footings, Steel Reinforcement Bar	6.56
03 21 11 00-0105	LF	#14, Grade 75, Footings, Steel Reinforcement Bar	9.12
03 21 11 00-0106	LF	#18, Grade 75, Footings, Steel Reinforcement Bar	15.64
03 21 11 00-0107	LF	#3, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	0.63
03 21 11 00-0108	LF	#4, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	1.07
03 21 11 00-0109	LF	#5, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	1.61
03 21 11 00-0110	LF	#6, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	2.22
03 21 11 00-0111	LF	#7, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	2.89
03 21 11 00-0112	LF	#8, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	3.61
03 21 11 00-0113	LF	#9, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	4.44
03 21 11 00-0114	LF	#10, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	5.45
03 21 11 00-0115	LF	#11, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	6.49
03 21 11 00-0116	LF	#14, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	9.03
03 21 11 00-0117	LF	#18, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	15.47

03 21 11 00-0118

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

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

03 21 11 00-0119	LF	#3, Grade 40, Slab On Grade, Steel Reinforcement Bar	0.56
03 21 11 00-0120	LF	#4, Grade 40, Slab On Grade, Steel Reinforcement Bar	0.95
03 21 11 00-0121	LF	#5, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.43
03 21 11 00-0122	LF	#6, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.97
03 21 11 00-0123	LF	#3, Grade 50, Slab On Grade, Steel Reinforcement Bar	0.58
03 21 11 00-0124	LF	#4, Grade 50, Slab On Grade, Steel Reinforcement Bar	0.98
03 21 11 00-0125	LF	#5, Grade 50, Slab On Grade, Steel Reinforcement Bar	1.46
03 21 11 00-0126	LF	#6, Grade 50, Slab On Grade, Steel Reinforcement Bar	2.02
03 21 11 00-0127	LF	#3, Grade 60, Slab On Grade, Steel Reinforcement Bar	0.60
03 21 11 00-0128	LF	#4, Grade 60, Slab On Grade, Steel Reinforcement Bar	1.01
03 21 11 00-0129	LF	#5, Grade 60, Slab On Grade, Steel Reinforcement Bar	1.52
03 21 11 00-0130	LF	#6, Grade 60, Slab On Grade, Steel Reinforcement Bar	2.10
03 21 11 00-0131	LF	#7, Grade 60, Slab On Grade, Steel Reinforcement Bar	2.75
03 21 11 00-0132	LF	#8, Grade 60, Slab On Grade, Steel Reinforcement Bar	3.42
03 21 11 00-0133	LF	#9, Grade 60, Slab On Grade, Steel Reinforcement Bar	4.21
03 21 11 00-0134	LF	#10, Grade 60, Slab On Grade, Steel Reinforcement Bar	5.16
03 21 11 00-0135	LF	#11, Grade 60, Slab On Grade, Steel Reinforcement Bar	6.16
03 21 11 00-0136	LF	#14, Grade 60, Slab On Grade, Steel Reinforcement Bar	8.57
03 21 11 00-0137	LF	#18, Grade 60, Slab On Grade, Steel Reinforcement Bar	14.69
03 21 11 00-0138	LF	#6, Grade 75, Slab On Grade, Steel Reinforcement Bar	2.17
03 21 11 00-0139	LF	#7, Grade 75, Slab On Grade, Steel Reinforcement Bar	2.85
03 21 11 00-0140	LF	#8, Grade 75, Slab On Grade, Steel Reinforcement Bar	3.55
03 21 11 00-0141	LF	#9, Grade 75, Slab On Grade, Steel Reinforcement Bar	4.39
03 21 11 00-0142	LF	#10, Grade 75, Slab On Grade, Steel Reinforcement Bar	5.38
03 21 11 00-0143	LF	#11, Grade 75, Slab On Grade, Steel Reinforcement Bar	6.43
03 21 11 00-0144	LF	#14, Grade 75, Slab On Grade, Steel Reinforcement Bar	8.95
03 21 11 00-0145	LF	#18, Grade 75, Slab On Grade, Steel Reinforcement Bar	15.38
03 21 11 00-0146	LF	#3, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	0.61
03 21 11 00-0147	LF	#4, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	1.04
03 21 11 00-0148	LF	#5, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	1.56
03 21 11 00-0149	LF	#6, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	2.15
03 21 11 00-0150	LF	#7, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	2.83
03 21 11 00-0151	LF	#8, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	3.52
03 21 11 00-0152	LF	#9, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	4.34
03 21 11 00-0153	LF	#10, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	5.33
03 21 11 00-0154	LF	#11, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	6.36
03 21 11 00-0155	LF	#14, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	8.86



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 21	11 00-0156	LF	#18, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar.....	15.21	
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03 21 11 00-0157 Elevated Slabs, Steel Reinforcement Bar (03 21 11)

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

03 21	11 00-0158	LF	#3, Grade 40, Elevated Slabs, Steel Reinforcement Bar.....	0.52	
03 21	11 00-0159	LF	#4, Grade 40, Elevated Slabs, Steel Reinforcement Bar.....	0.88	
03 21	11 00-0160	LF	#5, Grade 40, Elevated Slabs, Steel Reinforcement Bar.....	1.34	
03 21	11 00-0161	LF	#6, Grade 40, Elevated Slabs, Steel Reinforcement Bar.....	1.85	
03 21	11 00-0162	LF	#3, Grade 50, Elevated Slabs, Steel Reinforcement Bar.....	0.54	
03 21	11 00-0163	LF	#4, Grade 50, Elevated Slabs, Steel Reinforcement Bar.....	0.91	
03 21	11 00-0164	LF	#5, Grade 50, Elevated Slabs, Steel Reinforcement Bar.....	1.37	
03 21	11 00-0165	LF	#6, Grade 50, Elevated Slabs, Steel Reinforcement Bar.....	1.90	
03 21	11 00-0166	LF	#3, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	0.56	
03 21	11 00-0167	LF	#4, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	0.94	
03 21	11 00-0168	LF	#5, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	1.43	
03 21	11 00-0169	LF	#6, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	1.98	
03 21	11 00-0170	LF	#7, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	2.60	
03 21	11 00-0171	LF	#8, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	3.25	
03 21	11 00-0172	LF	#9, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	4.01	
03 21	11 00-0173	LF	#10, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	4.93	
03 21	11 00-0174	LF	#11, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	5.90	
03 21	11 00-0175	LF	#14, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	8.23	
03 21	11 00-0176	LF	#18, Grade 60, Elevated Slabs, Steel Reinforcement Bar.....	14.15	
03 21	11 00-0177	LF	#6, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	2.05	
03 21	11 00-0178	LF	#7, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	2.70	
03 21	11 00-0179	LF	#8, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	3.38	
03 21	11 00-0180	LF	#9, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	4.19	
03 21	11 00-0181	LF	#10, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	5.15	
03 21	11 00-0182	LF	#11, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	6.17	
03 21	11 00-0183	LF	#14, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	8.61	
03 21	11 00-0184	LF	#18, Grade 75, Elevated Slabs, Steel Reinforcement Bar.....	14.84	
03 21	11 00-0185	LF	#3, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	0.57	
03 21	11 00-0186	LF	#4, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	0.97	
03 21	11 00-0187	LF	#5, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	1.47	
03 21	11 00-0188	LF	#6, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	2.03	
03 21	11 00-0189	LF	#7, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	2.68	
03 21	11 00-0190	LF	#8, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	3.35	
03 21	11 00-0191	LF	#9, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	4.14	
03 21	11 00-0192	LF	#10, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	5.10	
03 21	11 00-0193	LF	#11, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	6.10	
03 21	11 00-0194	LF	#14, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	8.52	
03 21	11 00-0195	LF	#18, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	14.67	

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

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

03 21	11 00-0197	LF	#3, Grade 40, Walls, Steel Reinforcement Bar.....	0.50	
03 21	11 00-0198	LF	#4, Grade 40, Walls, Steel Reinforcement Bar.....	0.85	
03 21	11 00-0199	LF	#5, Grade 40, Walls, Steel Reinforcement Bar.....	1.29	
03 21	11 00-0200	LF	#6, Grade 40, Walls, Steel Reinforcement Bar.....	1.79	
03 21	11 00-0201	LF	#3, Grade 50, Walls, Steel Reinforcement Bar.....	0.52	
03 21	11 00-0202	LF	#4, Grade 50, Walls, Steel Reinforcement Bar.....	0.88	
03 21	11 00-0203	LF	#5, Grade 50, Walls, Steel Reinforcement Bar.....	1.32	
03 21	11 00-0204	LF	#6, Grade 50, Walls, Steel Reinforcement Bar.....	1.84	
03 21	11 00-0205	LF	#3, Grade 60, Walls, Steel Reinforcement Bar.....	0.54	
03 21	11 00-0206	LF	#4, Grade 60, Walls, Steel Reinforcement Bar.....	0.91	
03 21	11 00-0207	LF	#5, Grade 60, Walls, Steel Reinforcement Bar.....	1.38	
03 21	11 00-0208	LF	#6, Grade 60, Walls, Steel Reinforcement Bar.....	1.92	
03 21	11 00-0209	LF	#7, Grade 60, Walls, Steel Reinforcement Bar.....	2.51	
03 21	11 00-0210	LF	#8, Grade 60, Walls, Steel Reinforcement Bar.....	3.17	
03 21	11 00-0211	LF	#9, Grade 60, Walls, Steel Reinforcement Bar.....	3.91	
03 21	11 00-0212	LF	#10, Grade 60, Walls, Steel Reinforcement Bar.....	4.81	
03 21	11 00-0213	LF	#11, Grade 60, Walls, Steel Reinforcement Bar.....	5.77	
03 21	11 00-0214	LF	#14, Grade 60, Walls, Steel Reinforcement Bar.....	8.06	
03 21	11 00-0215	LF	#18, Grade 60, Walls, Steel Reinforcement Bar.....	13.89	
03 21	11 00-0216	LF	#6, Grade 75, Walls, Steel Reinforcement Bar.....	1.99	
03 21	11 00-0217	LF	#7, Grade 75, Walls, Steel Reinforcement Bar.....	2.61	
03 21	11 00-0218	LF	#8, Grade 75, Walls, Steel Reinforcement Bar.....	3.30	
03 21	11 00-0219	LF	#9, Grade 75, Walls, Steel Reinforcement Bar.....	4.09	
03 21	11 00-0220	LF	#10, Grade 75, Walls, Steel Reinforcement Bar.....	5.03	
03 21	11 00-0221	LF	#11, Grade 75, Walls, Steel Reinforcement Bar.....	6.04	
03 21	11 00-0222	LF	#14, Grade 75, Walls, Steel Reinforcement Bar.....	8.44	
03 21	11 00-0223	LF	#18, Grade 75, Walls, Steel Reinforcement Bar.....	14.58	
03 21	11 00-0224	LF	#3, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	0.55	
03 21	11 00-0225	LF	#4, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	0.94	
03 21	11 00-0226	LF	#5, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	1.42	
03 21	11 00-0227	LF	#6, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	1.97	
03 21	11 00-0228	LF	#7, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	2.59	
03 21	11 00-0229	LF	#8, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	3.27	
03 21	11 00-0230	LF	#9, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	4.04	

03	Concrete
03 20	Concrete Reinforcing
03 21	Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0231	LF		#10, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	4.98	
03 21 11 00-0232	LF		#11, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	5.97	
03 21 11 00-0233	LF		#14, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	8.35	
03 21 11 00-0234	LF		#18, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	14.41	
03 21 11 00-0235			Mechanical Joint Connection (03 21 11)		
03 21 11 00-0236			Thermal Type Mechanical Joint Connection (03 21 11 00-0235)		
03 21 11 00-0237	EA		Thermal Type Mechanical Joint Connection, Add Per Splice	211.10	
03 21 11 00-0238			Screwed Type Mechanical Joint Connection (03 21 11 00-0235)		
03 21 11 00-0239	EA		Screwed Type Mechanical Joint Connection, Add Per Splice.....	115.64	
03 21 11 00-0240			Deformed Straight Dowels (03 21 11)		
			Note: Excludes drilling. See CSI section 02 41 19 13-0277 for drilling in concrete.		
03 21 11 00-0241	EA		3/8" Diameter x 24" Long, Deformed Straight Dowel	2.84	
			For Up To 12" Length, Deduct	-0.36	
			For >12" To <24" Length, Deduct	-0.18	
03 21 11 00-0242	EA		1/2" Diameter x 24" Long, Deformed Straight Dowel	3.41	
			For Up To 12" Length, Deduct	-0.47	
			For >12" To <24" Length, Deduct	-0.24	
03 21 11 00-0243	EA		5/8" Diameter x 24" Long, Deformed Straight Dowel	4.20	
			For Up To 12" Length, Deduct	-0.74	
			For >12" To <24" Length, Deduct	-0.37	
03 21 11 00-0244	EA		3/4" Diameter x 24" Long, Deformed Straight Dowel	5.15	
			For Up To 12" Length, Deduct	-1.07	
			For >12" To <24" Length, Deduct	-0.54	
03 21 11 00-0245	EA		7/8" Diameter x 24" Long, Deformed Straight Dowel	6.13	
			For Up To 12" Length, Deduct	-1.49	
			For >12" To <24" Length, Deduct	-0.75	
03 21 11 00-0246	EA		1" Diameter x 24" Long, Deformed Straight Dowel	7.75	
			For Up To 12" Length, Deduct	-1.92	
			For >12" To <24" Length, Deduct	-0.96	
03 21 11 00-0247	EA		1-1/8" Diameter x 24" Long, Deformed Straight Dowel	9.15	
			For Up To 12" Length, Deduct	-2.36	
			For >12" To <24" Length, Deduct	-1.18	
03 21 11 00-0248	EA		1-1/4" Diameter x 24" Long, Deformed Straight Dowel	11.27	
			For Up To 12" Length, Deduct	-3.09	
			For >12" To <24" Length, Deduct	-1.54	
03 21 11 00-0249	EA		1-3/8" Diameter x 24" Long, Deformed Straight Dowel	13.41	
			For Up To 12" Length, Deduct	-3.81	
			For >12" To <24" Length, Deduct	-1.91	
03 21 11 00-0250			Spirals, Reinforcing Steel (03 21 11)		
03 21 11 00-0251	TON		Up To 15" Diameter, Grade 60, Spirals, Reinforcing Steel	3,502.89	
			For Grade 75, Add	140.68	
03 21 11 00-0252	TON		>15" To 24" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,463.83	
			For Grade 75, Add	140.68	
03 21 11 00-0253	TON		>24" To 36" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,434.05	
			For Grade 75, Add	140.68	
03 21 11 00-0254	TON		>36" To 48" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,385.33	
			For Grade 75, Add	140.68	
03 21 11 00-0255	TON		>48" To 64" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,319.46	
			For Grade 75, Add	140.68	
03 21 11 00-0256	TON		>64" To 84" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,300.44	
			For Grade 75, Add	144.14	
03 21 11 00-0257	TON		>84" To 96" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,245.29	
			For Grade 75, Add	144.14	
03 21 11 00-0258			Accessories For Reinforcing Steel (03 21 11)		
03 21 11 00-0259			Reinforcing Steel Lap-Weld Splice (03 21 11 00-0258)		
03 21 11 00-0260	EA		Up To #6 Reinforcing Steel Lap-Weld Splice.....	56.40	
03 21 11 00-0261	EA		>#6 Reinforcing Steel Lap-Weld Splice.....	89.53	
03 21 11 00-0262			Reinforcing Steel Sleeve And Wedge Splice Joint (03 21 11 00-0258)		
03 21 11 00-0263	EA		Up To #4 Reinforcing Steel, Sleeve And Wedge Splice Joint	30.74	
03 21 11 00-0264	EA		#5 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	46.28	
03 21 11 00-0265	EA		#6 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	68.33	
03 21 13			Galvanized Reinforcement Steel Bars (03 21)		
03 21 13 00-0001			Beams And Girders, Galvanized Steel Reinforcement Bar (03 21 13)		
			Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0002	LF		#3, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	0.78	
03 21 13 00-0003	LF		#4, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	1.30	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 21 13 00-0079	LF	#8, Grade 75, Footings, Galvanized Steel Reinforcement Bar	4.57
03 21 13 00-0080	LF	#9, Grade 75, Footings, Galvanized Steel Reinforcement Bar	5.67
03 21 13 00-0081	LF	#10, Grade 75, Footings, Galvanized Steel Reinforcement Bar	6.99
03 21 13 00-0082	LF	#11, Grade 75, Footings, Galvanized Steel Reinforcement Bar	8.41
03 21 13 00-0083	LF	#14, Grade 75, Footings, Galvanized Steel Reinforcement Bar	11.78
03 21 13 00-0084	LF	#18, Grade 75, Footings, Galvanized Steel Reinforcement Bar	20.36

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

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0086	LF	#3, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	0.70
03 21 13 00-0087	LF	#4, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	1.18
03 21 13 00-0088	LF	#5, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	1.79
03 21 13 00-0089	LF	#6, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	2.49
03 21 13 00-0090	LF	#3, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	0.71
03 21 13 00-0091	LF	#4, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	1.21
03 21 13 00-0092	LF	#5, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	1.82
03 21 13 00-0093	LF	#6, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	2.54
03 21 13 00-0094	LF	#3, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	0.73
03 21 13 00-0095	LF	#4, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	1.24
03 21 13 00-0096	LF	#5, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	1.88
03 21 13 00-0097	LF	#6, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	2.62
03 21 13 00-0098	LF	#7, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	3.46
03 21 13 00-0099	LF	#8, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	4.34
03 21 13 00-0100	LF	#9, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	5.39
03 21 13 00-0101	LF	#10, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	6.66
03 21 13 00-0102	LF	#11, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	8.01
03 21 13 00-0103	LF	#14, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	11.22
03 21 13 00-0104	LF	#18, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	19.41
03 21 13 00-0105	LF	#6, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	2.69
03 21 13 00-0106	LF	#7, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	3.56
03 21 13 00-0107	LF	#8, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	4.48
03 21 13 00-0108	LF	#9, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	5.57
03 21 13 00-0109	LF	#10, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	6.87
03 21 13 00-0110	LF	#11, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	8.28
03 21 13 00-0111	LF	#14, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	11.61
03 21 13 00-0112	LF	#18, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	20.10

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

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0114	LF	#3, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.66
03 21 13 00-0115	LF	#4, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.11
03 21 13 00-0116	LF	#5, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.70
03 21 13 00-0117	LF	#6, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.37
03 21 13 00-0118	LF	#3, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.67
03 21 13 00-0119	LF	#4, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.14
03 21 13 00-0120	LF	#5, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.73
03 21 13 00-0121	LF	#6, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.42
03 21 13 00-0122	LF	#3, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.69
03 21 13 00-0123	LF	#4, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.17
03 21 13 00-0124	LF	#5, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.79
03 21 13 00-0125	LF	#6, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.50
03 21 13 00-0126	LF	#7, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.31
03 21 13 00-0127	LF	#8, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	4.17
03 21 13 00-0128	LF	#9, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	5.19
03 21 13 00-0129	LF	#10, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	6.43
03 21 13 00-0130	LF	#11, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	7.75
03 21 13 00-0131	LF	#14, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	10.88
03 21 13 00-0132	LF	#18, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	18.87
03 21 13 00-0133	LF	#6, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.57
03 21 13 00-0134	LF	#7, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.41
03 21 13 00-0135	LF	#8, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	4.31
03 21 13 00-0136	LF	#9, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	5.37
03 21 13 00-0137	LF	#10, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	6.64
03 21 13 00-0138	LF	#11, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	8.02
03 21 13 00-0139	LF	#14, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	11.27
03 21 13 00-0140	LF	#18, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	19.56

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

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0142	LF	#3, Grade 40, Walls, Galvanized Steel Reinforcement Bar	0.64
03 21 13 00-0143	LF	#4, Grade 40, Walls, Galvanized Steel Reinforcement Bar	1.08
03 21 13 00-0144	LF	#5, Grade 40, Walls, Galvanized Steel Reinforcement Bar	1.65
03 21 13 00-0145	LF	#6, Grade 40, Walls, Galvanized Steel Reinforcement Bar	2.31
03 21 13 00-0146	LF	#3, Grade 50, Walls, Galvanized Steel Reinforcement Bar	0.65
03 21 13 00-0147	LF	#4, Grade 50, Walls, Galvanized Steel Reinforcement Bar	1.11
03 21 13 00-0148	LF	#5, Grade 50, Walls, Galvanized Steel Reinforcement Bar	1.68
03 21 13 00-0149	LF	#6, Grade 50, Walls, Galvanized Steel Reinforcement Bar	2.36
03 21 13 00-0150	LF	#3, Grade 60, Walls, Galvanized Steel Reinforcement Bar	0.67



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	13 00-0151	LF	#4, Grade 60, Walls, Galvanized Steel Reinforcement Bar	1.14	
03 21	13 00-0152	LF	#5, Grade 60, Walls, Galvanized Steel Reinforcement Bar	1.74	
03 21	13 00-0153	LF	#6, Grade 60, Walls, Galvanized Steel Reinforcement Bar	2.44	
03 21	13 00-0154	LF	#7, Grade 60, Walls, Galvanized Steel Reinforcement Bar	3.22	
03 21	13 00-0155	LF	#8, Grade 60, Walls, Galvanized Steel Reinforcement Bar	4.09	
03 21	13 00-0156	LF	#9, Grade 60, Walls, Galvanized Steel Reinforcement Bar	5.09	
03 21	13 00-0157	LF	#10, Grade 60, Walls, Galvanized Steel Reinforcement Bar	6.31	
03 21	13 00-0158	LF	#11, Grade 60, Walls, Galvanized Steel Reinforcement Bar	7.62	
03 21	13 00-0159	LF	#14, Grade 60, Walls, Galvanized Steel Reinforcement Bar	10.71	
03 21	13 00-0160	LF	#18, Grade 60, Walls, Galvanized Steel Reinforcement Bar	18.61	
03 21	13 00-0161	LF	#6, Grade 75, Walls, Galvanized Steel Reinforcement Bar	2.51	
03 21	13 00-0162	LF	#7, Grade 75, Walls, Galvanized Steel Reinforcement Bar	3.32	
03 21	13 00-0163	LF	#8, Grade 75, Walls, Galvanized Steel Reinforcement Bar	4.23	
03 21	13 00-0164	LF	#9, Grade 75, Walls, Galvanized Steel Reinforcement Bar	5.27	
03 21	13 00-0165	LF	#10, Grade 75, Walls, Galvanized Steel Reinforcement Bar	6.52	
03 21	13 00-0166	LF	#11, Grade 75, Walls, Galvanized Steel Reinforcement Bar	7.89	
03 21	13 00-0167	LF	#14, Grade 75, Walls, Galvanized Steel Reinforcement Bar	11.10	
03 21	13 00-0168	LF	#18, Grade 75, Walls, Galvanized Steel Reinforcement Bar	19.30	

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

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

Note: ASTM A-775 Epoxy Coated Steel.

03 21	16 00-0002	LF	#3, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.76	
03 21	16 00-0003	LF	#4, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.28	
03 21	16 00-0004	LF	#5, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.93	
03 21	16 00-0005	LF	#6, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.68	
03 21	16 00-0006	LF	#3, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.77	
03 21	16 00-0007	LF	#4, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.30	
03 21	16 00-0008	LF	#5, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.96	
03 21	16 00-0009	LF	#6, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.73	
03 21	16 00-0010	LF	#3, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.79	
03 21	16 00-0011	LF	#4, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.34	
03 21	16 00-0012	LF	#5, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.02	
03 21	16 00-0013	LF	#6, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.81	
03 21	16 00-0014	LF	#7, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.66	
03 21	16 00-0015	LF	#8, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	4.59	
03 21	16 00-0016	LF	#9, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	5.66	
03 21	16 00-0017	LF	#10, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	6.96	
03 21	16 00-0018	LF	#11, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	8.34	
03 21	16 00-0019	LF	#14, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	11.62	
03 21	16 00-0020	LF	#18, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	19.98	
03 21	16 00-0021	LF	#6, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.89	
03 21	16 00-0022	LF	#7, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.76	
03 21	16 00-0023	LF	#8, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	4.73	
03 21	16 00-0024	LF	#9, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	5.84	
03 21	16 00-0025	LF	#10, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	7.18	
03 21	16 00-0026	LF	#11, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	8.60	
03 21	16 00-0027	LF	#14, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	12.01	
03 21	16 00-0028	LF	#18, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	20.67	

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

Note: ASTM A-775 Epoxy Coated Steel.

03 21	16 00-0030	LF	#3, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	0.78	
03 21	16 00-0031	LF	#4, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	1.35	
03 21	16 00-0032	LF	#5, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	2.02	
03 21	16 00-0033	LF	#6, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	2.79	
03 21	16 00-0034	LF	#3, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	0.79	
03 21	16 00-0035	LF	#4, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	1.37	
03 21	16 00-0036	LF	#5, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	2.05	
03 21	16 00-0037	LF	#6, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	2.84	
03 21	16 00-0038	LF	#3, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	0.81	
03 21	16 00-0039	LF	#4, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	1.41	
03 21	16 00-0040	LF	#5, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	2.11	
03 21	16 00-0041	LF	#6, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	2.92	
03 21	16 00-0042	LF	#7, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	3.81	
03 21	16 00-0043	LF	#8, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	4.76	
03 21	16 00-0044	LF	#9, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	5.86	
03 21	16 00-0045	LF	#10, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	7.19	
03 21	16 00-0046	LF	#11, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	8.59	
03 21	16 00-0047	LF	#14, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	11.96	
03 21	16 00-0048	LF	#18, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	20.52	
03 21	16 00-0049	LF	#6, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	3.00	
03 21	16 00-0050	LF	#7, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	3.91	
03 21	16 00-0051	LF	#8, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	4.90	
03 21	16 00-0052	LF	#9, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	6.04	
03 21	16 00-0053	LF	#10, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	7.41	
03 21	16 00-0054	LF	#11, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	8.85	
03 21	16 00-0055	LF	#14, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	12.35	
03 21	16 00-0056	LF	#18, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	21.21	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 21 16 00-0057	Footings, Epoxy Coated Steel Reinforcement Bar <small>(03 21 16)</small>	
	Note: ASTM A-775 Epoxy Coated Steel.	
03 21 16 00-0058	LF #3, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar.....	0.70
03 21 16 00-0059	LF #4, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar.....	1.19
03 21 16 00-0060	LF #5, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar.....	1.80
03 21 16 00-0061	LF #6, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar.....	2.50
03 21 16 00-0062	LF #3, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar.....	0.71
03 21 16 00-0063	LF #4, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar.....	1.21
03 21 16 00-0064	LF #5, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar.....	1.83
03 21 16 00-0065	LF #6, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar.....	2.55
03 21 16 00-0066	LF #3, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	0.73
03 21 16 00-0067	LF #4, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	1.25
03 21 16 00-0068	LF #5, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	1.89
03 21 16 00-0069	LF #6, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	2.63
03 21 16 00-0070	LF #7, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	3.44
03 21 16 00-0071	LF #8, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	4.33
03 21 16 00-0072	LF #9, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	5.36
03 21 16 00-0073	LF #10, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	6.61
03 21 16 00-0074	LF #11, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	7.94
03 21 16 00-0075	LF #14, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	11.10
03 21 16 00-0076	LF #18, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	19.16
03 21 16 00-0077	LF #6, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	2.71
03 21 16 00-0078	LF #7, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	3.54
03 21 16 00-0079	LF #8, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	4.47
03 21 16 00-0080	LF #9, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	5.54
03 21 16 00-0081	LF #10, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	6.83
03 21 16 00-0082	LF #11, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	8.20
03 21 16 00-0083	LF #14, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	11.49
03 21 16 00-0084	LF #18, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	19.85

03 21 16 00-0085	Slab On Grade, Epoxy Coated Steel Reinforcement Bar <small>(03 21 16)</small>	
	Note: ASTM A-775 Epoxy Coated Steel.	
03 21 16 00-0086	LF #3, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.68
03 21 16 00-0087	LF #4, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.16
03 21 16 00-0088	LF #5, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.75
03 21 16 00-0089	LF #6, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.43
03 21 16 00-0090	LF #3, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.69
03 21 16 00-0091	LF #4, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.18
03 21 16 00-0092	LF #5, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.78
03 21 16 00-0093	LF #6, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.48
03 21 16 00-0094	LF #3, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.71
03 21 16 00-0095	LF #4, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.22
03 21 16 00-0096	LF #5, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.84
03 21 16 00-0097	LF #6, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.56
03 21 16 00-0098	LF #7, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.38
03 21 16 00-0099	LF #8, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	4.24
03 21 16 00-0100	LF #9, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	5.26
03 21 16 00-0101	LF #10, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	6.49
03 21 16 00-0102	LF #11, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	7.81
03 21 16 00-0103	LF #14, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	10.93
03 21 16 00-0104	LF #18, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	18.90
03 21 16 00-0105	LF #6, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.64
03 21 16 00-0106	LF #7, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.48
03 21 16 00-0107	LF #8, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	4.38
03 21 16 00-0108	LF #9, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	5.44
03 21 16 00-0109	LF #10, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	6.71
03 21 16 00-0110	LF #11, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	8.07
03 21 16 00-0111	LF #14, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	11.32
03 21 16 00-0112	LF #18, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	19.59

03 21 16 00-0113	Elevated Slabs, Epoxy Coated Steel Reinforcement Bar <small>(03 21 16)</small>	
	Note: ASTM A-775 Epoxy Coated Steel.	
03 21 16 00-0114	LF #3, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.64
03 21 16 00-0115	LF #4, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.09
03 21 16 00-0116	LF #5, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.66
03 21 16 00-0117	LF #6, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.31
03 21 16 00-0118	LF #3, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.65
03 21 16 00-0119	LF #4, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.11
03 21 16 00-0120	LF #5, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.69
03 21 16 00-0121	LF #6, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.36
03 21 16 00-0122	LF #3, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.67
03 21 16 00-0123	LF #4, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.15
03 21 16 00-0124	LF #5, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.75
03 21 16 00-0125	LF #6, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.44
03 21 16 00-0126	LF #7, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.23
03 21 16 00-0127	LF #8, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	4.07
03 21 16 00-0128	LF #9, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	5.06



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	16 00-0129	LF	#10, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	6.26	
03 21	16 00-0130	LF	#11, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	7.55	
03 21	16 00-0131	LF	#14, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	10.59	
03 21	16 00-0132	LF	#18, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	18.36	
03 21	16 00-0133	LF	#6, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.52	
03 21	16 00-0134	LF	#7, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.33	
03 21	16 00-0135	LF	#8, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	4.21	
03 21	16 00-0136	LF	#9, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	5.24	
03 21	16 00-0137	LF	#10, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	6.48	
03 21	16 00-0138	LF	#11, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	7.81	
03 21	16 00-0139	LF	#14, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	10.98	
03 21	16 00-0140	LF	#18, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	19.05	

03 21 16 00-0141 Walls, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21	16 00-0142	LF	#3, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.62	
03 21	16 00-0143	LF	#4, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.06	
03 21	16 00-0144	LF	#5, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.61	
03 21	16 00-0145	LF	#6, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.25	
03 21	16 00-0146	LF	#3, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.63	
03 21	16 00-0147	LF	#4, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.08	
03 21	16 00-0148	LF	#5, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.64	
03 21	16 00-0149	LF	#6, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.30	
03 21	16 00-0150	LF	#3, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.65	
03 21	16 00-0151	LF	#4, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.12	
03 21	16 00-0152	LF	#5, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.70	
03 21	16 00-0153	LF	#6, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.38	
03 21	16 00-0154	LF	#7, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.14	
03 21	16 00-0155	LF	#8, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.99	
03 21	16 00-0156	LF	#9, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.96	
03 21	16 00-0157	LF	#10, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	6.14	
03 21	16 00-0158	LF	#11, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	7.42	
03 21	16 00-0159	LF	#14, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	10.42	
03 21	16 00-0160	LF	#18, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	18.10	
03 21	16 00-0161	LF	#6, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.46	
03 21	16 00-0162	LF	#7, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.24	
03 21	16 00-0163	LF	#8, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.13	
03 21	16 00-0164	LF	#9, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	5.14	
03 21	16 00-0165	LF	#10, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	6.36	
03 21	16 00-0166	LF	#11, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	7.68	
03 21	16 00-0167	LF	#14, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	10.81	
03 21	16 00-0168	LF	#18, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	18.79	

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

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

03 21	16 00-0170	EA	3/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	4.69	
			For Up To 12" Length, Deduct	-0.50	
			For >12" To <24" Length, Deduct	-0.25	
03 21	16 00-0171	EA	1/2" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	5.56	
			For Up To 12" Length, Deduct	-0.76	
			For >12" To <24" Length, Deduct	-0.38	
03 21	16 00-0172	EA	5/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	6.93	
			For Up To 12" Length, Deduct	-1.13	
			For >12" To <24" Length, Deduct	-0.56	
03 21	16 00-0173	EA	3/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	8.63	
			For Up To 12" Length, Deduct	-1.50	
			For >12" To <24" Length, Deduct	-0.75	
03 21	16 00-0174	EA	7/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	10.44	
			For Up To 12" Length, Deduct	-2.04	
			For >12" To <24" Length, Deduct	-1.02	
03 21	16 00-0175	EA	1" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	12.17	
			For Up To 12" Length, Deduct	-2.52	
			For >12" To <24" Length, Deduct	-1.26	
03 21	16 00-0176	EA	1-1/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	14.39	
			For Up To 12" Length, Deduct	-3.04	
			For >12" To <24" Length, Deduct	-1.52	
03 21	16 00-0177	EA	1-1/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	17.33	
			For Up To 12" Length, Deduct	-3.69	
			For >12" To <24" Length, Deduct	-1.84	

03 22 Fabric and Grid Reinforcing (03 20)

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

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

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

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

03 22	11 00-0002	SF	6" x 6" x #10, 21 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.80	
			For >5 Ton, Deduct	-0.12	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 22 11 00-0003	SF		6" x 6" x #8, 30 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1)	0.93	
			<i>For >5 Ton, Deduct</i>	-0.14	
03 22 11 00-0004	SF		6" x 6" x #6, 42 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9)	1.05	
			<i>For >5 Ton, Deduct</i>	-0.15	
03 22 11 00-0005	SF		6" x 6" x #4, 58 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0)	1.25	
			<i>For >5 Ton, Deduct</i>	-0.18	
03 22 11 00-0006	SF		4" x 4" x #10, 31 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4)	0.97	
			<i>For >5 Ton, Deduct</i>	-0.14	
03 22 11 00-0007	SF		4" x 4" x #8, 44 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1)	1.10	
			<i>For >5 Ton, Deduct</i>	-0.16	
03 22 11 00-0008	SF		4" x 4" x #6, 62 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9)	1.39	
			<i>For >5 Ton, Deduct</i>	-0.19	
03 22 11 00-0009	SF		4" x 4" x #4, 85 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0)	1.63	
			<i>For >5 Ton, Deduct</i>	-0.22	
03 22 11 00-0010	SF		2" x 2" x #12, 37 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W0.9 x W0.9)	1.53	
			<i>For >5 Ton, Deduct</i>	-0.20	
03 22 13 Galvanized Welded Wire Fabric Reinforcing (03 22)					
03 22 13 00-0001 Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 13)					
Note: Includes bar chairs. Under 5 tons.					
03 22 13 00-0002	SF		6" x 6" x #10, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4)	0.90	
			<i>For >5 Ton, Deduct</i>	-0.13	
03 22 13 00-0003	SF		6" x 6" x #8, 29 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1)	1.04	
			<i>For >5 Ton, Deduct</i>	-0.15	
03 22 13 00-0004	SF		6" x 6" x #6, 42 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9)	1.20	
			<i>For >5 Ton, Deduct</i>	-0.17	
03 22 13 00-0005	SF		6" x 6" x #4, 58 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0)	1.46	
			<i>For >5 Ton, Deduct</i>	-0.20	
03 22 13 00-0006	SF		4" x 4" x #10, 31 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4)	1.11	
			<i>For >5 Ton, Deduct</i>	-0.16	
03 22 13 00-0007	SF		4" x 4" x #8, 43 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1)	1.26	
			<i>For >5 Ton, Deduct</i>	-0.17	
03 22 13 00-0008	SF		4" x 4" x #6, 62 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9)	1.66	
			<i>For >5 Ton, Deduct</i>	-0.22	
03 22 13 00-0009	SF		4" x 4" x #4, 85 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0)	1.97	
			<i>For >5 Ton, Deduct</i>	-0.25	
03 22 13 00-0010 Galvanized Welded Wire Reinforcement Wrap Placed In Beams And Columns (03 22 13)					
Note: Includes bar chairs. Under 5 tons.					
03 22 13 00-0011	SF		2" x 2" x #14, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Wrap Placed In Beams And Columns (W0.5 x W0.5)	3.13	
			<i>For >5 Ton, Deduct</i>	-0.48	
03 22 16 Epoxy-Coated Welded Wire Fabric Reinforcing (03 22)					
03 22 16 00-0001 Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 16)					
Note: Includes bar chairs. Under 5 tons.					
03 22 16 00-0002	SF		6" x 6" x #10, 21 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4)	0.89	
			<i>For >5 Ton, Deduct</i>	-0.13	
03 22 16 00-0003	SF		6" x 6" x #8, 29 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1)	1.03	
			<i>For >5 Ton, Deduct</i>	-0.15	
03 22 16 00-0004	SF		6" x 6" x #6, 42 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9)	1.19	
			<i>For >5 Ton, Deduct</i>	-0.17	
03 22 16 00-0005	SF		6" x 6" x #4, 58 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0)	1.44	
			<i>For >5 Ton, Deduct</i>	-0.20	
03 22 16 00-0006	SF		4" x 4" x #10, 31 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4)	1.09	
			<i>For >5 Ton, Deduct</i>	-0.15	
03 22 16 00-0007	SF		4" x 4" x #8, 43 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1)	1.24	
			<i>For >5 Ton, Deduct</i>	-0.17	
03 22 16 00-0008	SF		4" x 4" x #6, 62 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9)	1.63	
			<i>For >5 Ton, Deduct</i>	-0.21	
03 22 16 00-0009	SF		4" x 4" x #4, 85 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0)	1.92	
			<i>For >5 Ton, Deduct</i>	-0.25	

03 30 Cast-In-Place Concrete (03)

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

03 30 53 Miscellaneous Cast-in-Place Concrete (03 30)**03 30 53 00-0001 Place Concrete Thrust Blocks And Backfill (03 30 53)**



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 30 53 00-0002 CY Direct Chute, Place 3,000 PSI Concrete Thrust Blocks	239.88	
For 2,000 PSI Concrete, Deduct	-9.17	
For 2,500 PSI Concrete, Deduct	-4.58	
For 3,500 PSI Concrete, Add	8.49	
For 3,750 PSI Concrete, Add	11.54	
For 4,000 PSI Concrete, Add	14.60	
For 4,500 PSI Concrete, Add	16.98	
For 5,000 PSI Concrete, Add	19.35	
For 6,000 PSI Concrete, Add	45.83	
For 7,500 PSI Concrete, Add	113.82	
For White Cement Concrete, Add	20.37	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
For High Early Strength, Type 3 ASTM C150, Add	16.98	
For Lightweight Aggregate, ASTM C330, Add	50.93	
03 30 53 00-0003 Place Concrete Slurry (03 30 53)		
03 30 53 00-0004 CY Direct Chute, Place Two Sack Cement, Concrete Slurry	185.66	
Note: Two 94# sack cement per CY.		
03 30 53 00-0005 CY Concrete Pump, Place Two Sack Cement, Concrete Slurry	179.48	
Note: Two 94# sack cement per CY. Excludes pumping equipment.		
03 30 53 00-0006 Hand Mix And Place Concrete (03 30 53)		
03 30 53 00-0007 CF Hand Mix And Place Concrete	30.21	
Note: For use where conventional equipment access is limited or when directed by the owner.		
For 2,000 PSI Concrete, Deduct	-0.39	
For 2,500 PSI Concrete, Deduct	-0.20	
For 3,500 PSI Concrete, Add	0.36	
03 31 Structural Concrete (03 30)		
03 31 13 Heavyweight Structural Concrete (03 31)		
Note: Includes delivery, fuel charge and placement of material. See CSI section 02 41 00 00-0000 for demolition, 03 05 13 00-0001 for admixtures, 03 11 00 00-0000 for forming, 03 20 00 00-0000 for reinforcing, 03 31 13 00-0088 for small concrete purchases (short load), 03 35 00 00-0000 for finishing, 03 39 00 00-0000 for curing.		
03 31 13 00-0001 Concrete Slab Assemblies (03 31 13)		
03 31 13 00-0002 3,000 PSI Slab On Grade Concrete Slabs Assemblies (03 31 13 00-0001)		
Note: Includes forms, welded wire reinforcement (where necessary), #3 to #6 reinforcing rods at 12" on center each way with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float, and finish for pedestrian slabs. Excludes excavation, base, earthwork, and expansion joints along existing slab. See CSI section 03 05 13 00-0001 for color additive alternative, 03 37 16 00-0001 for concrete pumping equipment.		
03 31 13 00-0003 SF 4" 3,000 PSI Slab On Grade Concrete Slabs Assembly	7.67	
For 2,000 PSI Concrete, Deduct	-0.22	
For 2,500 PSI Concrete, Deduct	-0.11	
For 3,500 PSI Concrete, Add	0.08	
For 4,000 PSI Concrete, Add	0.26	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
For Up To 500, Add	2.95	
For >500 To 1,000, Add	2.04	
For >1,000 To 2,000, Add	1.12	
For >2,000 To 5,000, Add	0.56	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000 To 35,000, Deduct	-0.40	
For >35,000 To 50,000, Deduct	-0.59	
For >50,000 To 70,000, Deduct	-0.78	
For >70,000, Deduct	-0.97	
03 31 13 00-0004 SF 5" 3,000 PSI Slab On Grade Concrete Slabs Assembly	8.40	
For 2,000 PSI Concrete, Deduct	-0.25	
For 2,500 PSI Concrete, Deduct	-0.13	
For 3,500 PSI Concrete, Add	0.09	
For 4,000 PSI Concrete, Add	0.29	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
For Up To 500, Add	3.17	
For >500 To 1,000, Add	2.19	
For >1,000 To 2,000, Add	1.21	
For >2,000 To 5,000, Add	0.61	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000 To 35,000, Deduct	-0.44	
For >35,000 To 50,000, Deduct	-0.65	
For >50,000 To 70,000, Deduct	-0.86	
For >70,000, Deduct	-1.07	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31	13 00-0005	SF	6" 3,000 PSI Slab On Grade Concrete Slabs Assembly	9.43	
			For 2,000 PSI Concrete, Deduct	-0.30	
			For 2,500 PSI Concrete, Deduct	-0.15	
			For 3,500 PSI Concrete, Add	0.10	
			For 4,000 PSI Concrete, Add	0.34	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	3.47	
			For >500 To 1,000, Add	2.40	
			For >1,000 To 2,000, Add	1.34	
			For >2,000 To 5,000, Add	0.67	
			For >10,000 To 20,000, Deduct	-0.27	
			For >20,000 To 35,000, Deduct	-0.51	
			For >35,000 To 50,000, Deduct	-0.75	
			For >50,000 To 70,000, Deduct	-0.98	
			For >70,000, Deduct	-1.22	
03 31	13 00-0006	SF	7" 3,000 PSI Slab On Grade Concrete Slabs Assembly	10.42	
			For 2,000 PSI Concrete, Deduct	-0.34	
			For 2,500 PSI Concrete, Deduct	-0.17	
			For 3,500 PSI Concrete, Add	0.12	
			For 4,000 PSI Concrete, Add	0.40	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	3.74	
			For >500 To 1,000, Add	2.60	
			For >1,000 To 2,000, Add	1.46	
			For >2,000 To 5,000, Add	0.73	
			For >10,000 To 20,000, Deduct	-0.31	
			For >20,000 To 35,000, Deduct	-0.58	
			For >35,000 To 50,000, Deduct	-0.84	
			For >50,000 To 70,000, Deduct	-1.10	
			For >70,000, Deduct	-1.36	
03 31	13 00-0007	SF	8" 3,000 PSI Slab On Grade Concrete Slabs Assembly	11.26	
			For 2,000 PSI Concrete, Deduct	-0.38	
			For 2,500 PSI Concrete, Deduct	-0.19	
			For 3,500 PSI Concrete, Add	0.13	
			For 4,000 PSI Concrete, Add	0.44	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	3.97	
			For >500 To 1,000, Add	2.76	
			For >1,000 To 2,000, Add	1.56	
			For >2,000 To 5,000, Add	0.78	
			For >10,000 To 20,000, Deduct	-0.35	
			For >20,000 To 35,000, Deduct	-0.63	
			For >35,000 To 50,000, Deduct	-0.91	
			For >50,000 To 70,000, Deduct	-1.19	
			For >70,000, Deduct	-1.47	
03 31	13 00-0008	SF	10" 3,000 PSI Slab On Grade Concrete Slabs Assembly	13.42	
			For 2,000 PSI Concrete, Deduct	-0.48	
			For 2,500 PSI Concrete, Deduct	-0.24	
			For 3,500 PSI Concrete, Add	0.17	
			For 4,000 PSI Concrete, Add	0.55	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	4.53	
			For >500 To 1,000, Add	3.17	
			For >1,000 To 2,000, Add	1.80	
			For >2,000 To 5,000, Add	0.90	
			For >10,000 To 20,000, Deduct	-0.44	
			For >20,000 To 35,000, Deduct	-0.78	
			For >35,000 To 50,000, Deduct	-1.11	
			For >50,000 To 70,000, Deduct	-1.45	
			For >70,000, Deduct	-1.78	
03 31	13 00-0009	SF	12" 3,000 PSI Slab On Grade Concrete Slabs Assembly	15.09	
			For 2,000 PSI Concrete, Deduct	-0.55	
			For 2,500 PSI Concrete, Deduct	-0.27	
			For 3,500 PSI Concrete, Add	0.19	
			For 4,000 PSI Concrete, Add	0.64	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.13	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.40	
			For Up To 500, Add	5.00	
			For >500 To 1,000, Add	3.50	
			For >1,000 To 2,000, Add	2.00	
			For >2,000 To 5,000, Add	1.00	
			For >10,000 To 20,000, Deduct	-0.51	
			For >20,000 To 35,000, Deduct	-0.88	
			For >35,000 To 50,000, Deduct	-1.26	
			For >50,000 To 70,000, Deduct	-1.64	
			For >70,000, Deduct	-2.02	

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

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



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0011 Place Concrete By Method Indicated <small>(03 31 13 00-0010)</small> Note: Tasks for concrete placement "By Concrete Pump" exclude the pumping equipment. See CSI section 03 37 16 00-0001 for concrete pumping equipment.		
03 31 13 00-0012 Place Concrete Pile Caps <small>(03 31 13 00-0011)</small>		
03 31 13 00-0013 CY Crane And Bucket, Place 3,000 PSI Concrete Pile Caps	289.97	
For 2,000 PSI Concrete, Deduct	-9.17	
For 2,500 PSI Concrete, Deduct	-4.58	
For 3,500 PSI Concrete, Add	8.49	
For 3,750 PSI Concrete, Add	11.54	
For 4,000 PSI Concrete, Add	14.60	
For 4,500 PSI Concrete, Add	16.98	
For 5,000 PSI Concrete, Add	19.35	
For 6,000 PSI Concrete, Add	45.83	
For 7,500 PSI Concrete, Add	113.82	
For White Cement Concrete, Add	20.37	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
For High Early Strength, Type 3 ASTM C150, Add	16.98	
For Lightweight Aggregate, ASTM C330, Add	50.93	
For Up To 20, Add	48.09	
For >20 To 50, Add	18.03	
For >100 To 200, Deduct	-5.80	
For >200 To 400, Deduct	-11.60	
For >400, Deduct	-17.40	
03 31 13 00-0014 CY Direct Chute, Place 3,000 PSI Concrete Pile Caps	221.32	
For 2,000 PSI Concrete, Deduct	-9.17	
For 2,500 PSI Concrete, Deduct	-4.58	
For 3,500 PSI Concrete, Add	8.49	
For 3,750 PSI Concrete, Add	11.54	
For 4,000 PSI Concrete, Add	14.60	
For 4,500 PSI Concrete, Add	16.98	
For 5,000 PSI Concrete, Add	19.35	
For 6,000 PSI Concrete, Add	45.83	
For 7,500 PSI Concrete, Add	113.82	
For White Cement Concrete, Add	20.37	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
For High Early Strength, Type 3 ASTM C150, Add	16.98	
For Lightweight Aggregate, ASTM C330, Add	50.93	
For Up To 20, Add	20.63	
For >20 To 50, Add	7.74	
For >100 To 200, Deduct	-4.43	
For >200 To 400, Deduct	-8.85	
For >400, Deduct	-13.28	
03 31 13 00-0015 CY Concrete Pump, Place 3,000 PSI Concrete Pile Caps	233.00	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.93	
For 2,500 PSI Concrete, Deduct	-4.97	
For 3,500 PSI Concrete, Add	9.19	
For 3,750 PSI Concrete, Add	12.50	
For 4,000 PSI Concrete, Add	15.81	
For 4,500 PSI Concrete, Add	18.39	
For 5,000 PSI Concrete, Add	20.96	
For 6,000 PSI Concrete, Add	49.65	
For 7,500 PSI Concrete, Add	123.30	
For White Cement Concrete, Add	22.07	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.91	
For High Early Strength, Type 3 ASTM C150, Add	18.39	
For Lightweight Aggregate, ASTM C330, Add	55.17	
For Up To 20, Add	19.64	
For >20 To 50, Add	7.37	
For >100 To 200, Deduct	-4.66	
For >200 To 400, Deduct	-9.32	
For >400, Deduct	-13.98	
03 31 13 00-0016 Place Concrete Continuous Footings <small>(03 31 13 00-0011)</small>		
03 31 13 00-0017 CY Crane And Bucket, Place 3,000 PSI Concrete Continuous Footings.....	276.61	
For 2,000 PSI Concrete, Deduct	-9.17	
For 2,500 PSI Concrete, Deduct	-4.58	
For 3,500 PSI Concrete, Add	8.49	
For 3,750 PSI Concrete, Add	11.54	
For 4,000 PSI Concrete, Add	14.60	
For 4,500 PSI Concrete, Add	16.98	
For 5,000 PSI Concrete, Add	19.35	
For 6,000 PSI Concrete, Add	45.83	
For 7,500 PSI Concrete, Add	113.82	
For White Cement Concrete, Add	20.37	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
For High Early Strength, Type 3 ASTM C150, Add	16.98	
For Lightweight Aggregate, ASTM C330, Add	50.93	
For Up To 20, Add	42.74	
For >20 To 50, Add	16.03	
For >100 To 200, Deduct	-5.53	
For >200 To 400, Deduct	-11.06	
For >400, Deduct	-16.60	

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0018	CY Direct Chute, Place 3,000 PSI Concrete Continuous Footings.....	215.58
	<i>For 2,000 PSI Concrete, Deduct</i>	-9.17
	<i>For 2,500 PSI Concrete, Deduct</i>	-4.58
	<i>For 3,500 PSI Concrete, Add</i>	8.49
	<i>For 3,750 PSI Concrete, Add</i>	11.54
	<i>For 4,000 PSI Concrete, Add</i>	14.60
	<i>For 4,500 PSI Concrete, Add</i>	16.97
	<i>For 5,000 PSI Concrete, Add</i>	19.35
	<i>For 6,000 PSI Concrete, Add</i>	45.83
	<i>For 7,500 PSI Concrete, Add</i>	113.81
	<i>For White Cement Concrete, Add</i>	20.37
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	22.07
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	16.97
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	50.92
	<i>For Up To 20, Add</i>	18.34
	<i>For >20 To 50, Add</i>	6.88
	<i>For >100 To 200, Deduct</i>	-4.31
	<i>For >200 To 400, Deduct</i>	-8.62
	<i>For >400, Deduct</i>	-12.93
03 31 13 00-0019	CY Concrete Pump, Place 3,000 PSI Concrete Continuous Footings.....	227.54
	Note: Excludes pumping equipment.	
	<i>For 2,000 PSI Concrete, Deduct</i>	-9.93
	<i>For 2,500 PSI Concrete, Deduct</i>	-4.97
	<i>For 3,500 PSI Concrete, Add</i>	9.19
	<i>For 3,750 PSI Concrete, Add</i>	12.50
	<i>For 4,000 PSI Concrete, Add</i>	15.81
	<i>For 4,500 PSI Concrete, Add</i>	18.39
	<i>For 5,000 PSI Concrete, Add</i>	20.96
	<i>For 6,000 PSI Concrete, Add</i>	49.65
	<i>For 7,500 PSI Concrete, Add</i>	123.30
	<i>For White Cement Concrete, Add</i>	22.07
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	23.91
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	18.39
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	55.17
	<i>For Up To 20, Add</i>	17.46
	<i>For >20 To 50, Add</i>	6.55
	<i>For >100 To 200, Deduct</i>	-4.55
	<i>For >200 To 400, Deduct</i>	-9.10
	<i>For >400, Deduct</i>	-13.65

03 31 13 00-0020 Place Concrete Spread Footings (03 31 13 00-0011)

03 31 13 00-0021	CY Crane And Bucket, Place 3,000 PSI Concrete Spread Footings.....	350.08
	<i>For 2,000 PSI Concrete, Deduct</i>	-9.17
	<i>For 2,500 PSI Concrete, Deduct</i>	-4.58
	<i>For 3,500 PSI Concrete, Add</i>	8.49
	<i>For 3,750 PSI Concrete, Add</i>	11.54
	<i>For 4,000 PSI Concrete, Add</i>	14.60
	<i>For 4,500 PSI Concrete, Add</i>	16.97
	<i>For 5,000 PSI Concrete, Add</i>	19.35
	<i>For 6,000 PSI Concrete, Add</i>	45.83
	<i>For 7,500 PSI Concrete, Add</i>	113.81
	<i>For White Cement Concrete, Add</i>	20.37
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	22.07
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	16.97
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	50.92
	<i>For Up To 20, Add</i>	72.14
	<i>For >20 To 50, Add</i>	27.05
	<i>For >100 To 200, Deduct</i>	-7.00
	<i>For >200 To 400, Deduct</i>	-14.00
	<i>For >400, Deduct</i>	-21.00
03 31 13 00-0022	CY Direct Chute, Place 3,000 PSI Concrete Spread Footings.....	247.09
	<i>For 2,000 PSI Concrete, Deduct</i>	-9.17
	<i>For 2,500 PSI Concrete, Deduct</i>	-4.58
	<i>For 3,500 PSI Concrete, Add</i>	8.49
	<i>For 3,750 PSI Concrete, Add</i>	11.54
	<i>For 4,000 PSI Concrete, Add</i>	14.60
	<i>For 4,500 PSI Concrete, Add</i>	16.97
	<i>For 5,000 PSI Concrete, Add</i>	19.35
	<i>For 6,000 PSI Concrete, Add</i>	45.83
	<i>For 7,500 PSI Concrete, Add</i>	113.81
	<i>For White Cement Concrete, Add</i>	20.37
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	22.07
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	16.97
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	50.92
	<i>For Up To 20, Add</i>	30.94
	<i>For >20 To 50, Add</i>	11.60
	<i>For >100 To 200, Deduct</i>	-4.94
	<i>For >200 To 400, Deduct</i>	-9.88
	<i>For >400, Deduct</i>	-14.83



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0023 CY Concrete Pump, Place 3,000 PSI Concrete Spread Footings Note: Excludes pumping equipment.	257.56	
For 2,000 PSI Concrete, Deduct	-9.93	
For 2,500 PSI Concrete, Deduct	-4.97	
For 3,500 PSI Concrete, Add	9.19	
For 3,750 PSI Concrete, Add	12.50	
For 4,000 PSI Concrete, Add	15.81	
For 4,500 PSI Concrete, Add	18.39	
For 5,000 PSI Concrete, Add	20.96	
For 6,000 PSI Concrete, Add	49.65	
For 7,500 PSI Concrete, Add	123.30	
For White Cement Concrete, Add	22.07	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.91	
For High Early Strength, Type 3 ASTM C150, Add	18.39	
For Lightweight Aggregate, ASTM C330, Add	55.17	
For Up To 20, Add	29.47	
For >20 To 50, Add	11.05	
For >100 To 200, Deduct	-5.15	
For >200 To 400, Deduct	-10.30	
For >400, Deduct	-15.45	
03 31 13 00-0024 Place Concrete Mat Foundation (03 31 13 00-0011)		
03 31 13 00-0025 CY Crane And Bucket, Place 3,000 PSI Concrete Mat Foundation.....	201.80	
For 2,000 PSI Concrete, Deduct	-9.17	
For 2,500 PSI Concrete, Deduct	-4.58	
For 3,500 PSI Concrete, Add	8.49	
For 3,750 PSI Concrete, Add	11.54	
For 4,000 PSI Concrete, Add	14.60	
For 4,500 PSI Concrete, Add	16.97	
For 5,000 PSI Concrete, Add	19.35	
For 6,000 PSI Concrete, Add	45.83	
For 7,500 PSI Concrete, Add	113.81	
For White Cement Concrete, Add	20.37	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
For High Early Strength, Type 3 ASTM C150, Add	16.97	
For Lightweight Aggregate, ASTM C330, Add	50.92	
For Up To 20, Add	12.82	
For >20 To 50, Add	4.81	
For >100 To 200, Deduct	-4.04	
For >200 To 400, Deduct	-8.07	
For >400, Deduct	-12.11	
03 31 13 00-0026 CY Direct Chute, Place 3,000 PSI Concrete Mat Foundation.....	183.50	
For 2,000 PSI Concrete, Deduct	-9.17	
For 2,500 PSI Concrete, Deduct	-4.58	
For 3,500 PSI Concrete, Add	8.49	
For 3,750 PSI Concrete, Add	11.54	
For 4,000 PSI Concrete, Add	14.60	
For 4,500 PSI Concrete, Add	16.97	
For 5,000 PSI Concrete, Add	19.35	
For 6,000 PSI Concrete, Add	45.83	
For 7,500 PSI Concrete, Add	113.81	
For White Cement Concrete, Add	20.37	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
For High Early Strength, Type 3 ASTM C150, Add	16.97	
For Lightweight Aggregate, ASTM C330, Add	50.92	
For Up To 20, Add	5.50	
For >20 To 50, Add	2.06	
For >100 To 200, Deduct	-3.67	
For >200 To 400, Deduct	-7.34	
For >400, Deduct	-11.01	
03 31 13 00-0027 CY Concrete Pump, Place 3,000 PSI Concrete Mat Foundation..... Note: Excludes pumping equipment.	195.35	
For 2,000 PSI Concrete, Deduct	-9.93	
For 2,500 PSI Concrete, Deduct	-4.97	
For 3,500 PSI Concrete, Add	9.19	
For 3,750 PSI Concrete, Add	12.50	
For 4,000 PSI Concrete, Add	15.81	
For 4,500 PSI Concrete, Add	18.39	
For 5,000 PSI Concrete, Add	20.96	
For 6,000 PSI Concrete, Add	49.65	
For 7,500 PSI Concrete, Add	123.30	
For White Cement Concrete, Add	22.07	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.91	
For High Early Strength, Type 3 ASTM C150, Add	18.39	
For Lightweight Aggregate, ASTM C330, Add	55.17	
For Up To 20, Add	4.58	
For >20 To 50, Add	1.72	
For >100 To 200, Deduct	-3.91	
For >200 To 400, Deduct	-7.81	
For >400, Deduct	-11.72	
03 31 13 00-0028 Place Concrete Grade Beams (03 31 13 00-0011)		

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0029	CY Crane And Bucket, Place 3,000 PSI Concrete Grade Beams.....	255.24
	For 2,000 PSI Concrete, Deduct	-9.17
	For 2,500 PSI Concrete, Deduct	-4.58
	For 3,500 PSI Concrete, Add	8.49
	For 3,750 PSI Concrete, Add	11.54
	For 4,000 PSI Concrete, Add	14.60
	For 4,500 PSI Concrete, Add	16.98
	For 5,000 PSI Concrete, Add	19.35
	For 6,000 PSI Concrete, Add	45.83
	For 7,500 PSI Concrete, Add	113.82
	For White Cement Concrete, Add	20.37
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07
	For High Early Strength, Type 3 ASTM C150, Add	16.98
	For Lightweight Aggregate, ASTM C330, Add	50.93
	For Up To 20, Add	34.20
	For >20 To 50, Add	12.82
	For >100 To 200, Deduct	-5.10
	For >200 To 400, Deduct	-10.21
	For >400, Deduct	-15.31
03 31 13 00-0030	CY Direct Chute, Place 3,000 PSI Concrete Grade Beams.....	206.41
	For 2,000 PSI Concrete, Deduct	-9.17
	For 2,500 PSI Concrete, Deduct	-4.58
	For 3,500 PSI Concrete, Add	8.49
	For 3,750 PSI Concrete, Add	11.54
	For 4,000 PSI Concrete, Add	14.60
	For 4,500 PSI Concrete, Add	16.97
	For 5,000 PSI Concrete, Add	19.35
	For 6,000 PSI Concrete, Add	45.83
	For 7,500 PSI Concrete, Add	113.81
	For White Cement Concrete, Add	20.37
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07
	For High Early Strength, Type 3 ASTM C150, Add	16.97
	For Lightweight Aggregate, ASTM C330, Add	50.92
	For Up To 20, Add	14.67
	For >20 To 50, Add	5.50
	For >100 To 200, Deduct	-4.13
	For >200 To 400, Deduct	-8.26
	For >400, Deduct	-12.38
03 31 13 00-0031	CY Concrete Pump, Place 3,000 PSI Concrete Grade Beams.....	218.82
	Note: Excludes pumping equipment.	
	For 2,000 PSI Concrete, Deduct	-9.93
	For 2,500 PSI Concrete, Deduct	-4.97
	For 3,500 PSI Concrete, Add	9.19
	For 3,750 PSI Concrete, Add	12.50
	For 4,000 PSI Concrete, Add	15.81
	For 4,500 PSI Concrete, Add	18.39
	For 5,000 PSI Concrete, Add	20.96
	For 6,000 PSI Concrete, Add	49.65
	For 7,500 PSI Concrete, Add	123.30
	For White Cement Concrete, Add	22.07
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.91
	For High Early Strength, Type 3 ASTM C150, Add	18.39
	For Lightweight Aggregate, ASTM C330, Add	55.17
	For Up To 20, Add	13.97
	For >20 To 50, Add	5.24
	For >100 To 200, Deduct	-4.38
	For >200 To 400, Deduct	-8.75
	For >400, Deduct	-13.13
03 31 13 00-0032	Place Concrete Slab On Grade (03 31 13 00-0011)	
03 31 13 00-0033	CY Up To 6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade.....	257.24
	For 2,000 PSI Concrete, Deduct	-9.17
	For 2,500 PSI Concrete, Deduct	-4.58
	For 3,500 PSI Concrete, Add	8.49
	For 3,750 PSI Concrete, Add	11.54
	For 4,000 PSI Concrete, Add	14.60
	For 4,500 PSI Concrete, Add	16.97
	For 5,000 PSI Concrete, Add	19.35
	For 6,000 PSI Concrete, Add	45.83
	For 7,500 PSI Concrete, Add	113.81
	For White Cement Concrete, Add	20.37
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07
	For High Early Strength, Type 3 ASTM C150, Add	16.97
	For Lightweight Aggregate, ASTM C330, Add	50.92
	For Up To 20, Add	35.00
	For >20 To 50, Add	13.13
	For >100 To 200, Deduct	-5.14
	For >200 To 400, Deduct	-10.29
	For >400, Deduct	-15.43



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0034 CY >6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade	236.14	
For 2,000 PSI Concrete, Deduct	-9.17	
For 2,500 PSI Concrete, Deduct	-4.58	
For 3,500 PSI Concrete, Add	8.49	
For 3,750 PSI Concrete, Add	11.54	
For 4,000 PSI Concrete, Add	14.60	
For 4,500 PSI Concrete, Add	16.97	
For 5,000 PSI Concrete, Add	19.35	
For 6,000 PSI Concrete, Add	45.83	
For 7,500 PSI Concrete, Add	113.81	
For White Cement Concrete, Add	20.37	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
For High Early Strength, Type 3 ASTM C150, Add	16.97	
For Lightweight Aggregate, ASTM C330, Add	50.92	
For Up To 20, Add	26.56	
For >20 To 50, Add	9.96	
For >100 To 200, Deduct	-4.72	
For >200 To 400, Deduct	-9.45	
For >400, Deduct	-14.17	
03 31 13 00-0035 CY Up To 6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade	207.28	
For 2,000 PSI Concrete, Deduct	-9.17	
For 2,500 PSI Concrete, Deduct	-4.58	
For 3,500 PSI Concrete, Add	8.49	
For 3,750 PSI Concrete, Add	11.54	
For 4,000 PSI Concrete, Add	14.60	
For 4,500 PSI Concrete, Add	16.97	
For 5,000 PSI Concrete, Add	19.35	
For 6,000 PSI Concrete, Add	45.83	
For 7,500 PSI Concrete, Add	113.81	
For White Cement Concrete, Add	20.37	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
For High Early Strength, Type 3 ASTM C150, Add	16.97	
For Lightweight Aggregate, ASTM C330, Add	50.92	
For Up To 20, Add	15.02	
For >20 To 50, Add	5.63	
For >100 To 200, Deduct	-4.15	
For >200 To 400, Deduct	-8.29	
For >400, Deduct	-12.44	
03 31 13 00-0036 CY >6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade	198.21	
For 2,000 PSI Concrete, Deduct	-9.17	
For 2,500 PSI Concrete, Deduct	-4.58	
For 3,500 PSI Concrete, Add	8.49	
For 3,750 PSI Concrete, Add	11.54	
For 4,000 PSI Concrete, Add	14.60	
For 4,500 PSI Concrete, Add	16.97	
For 5,000 PSI Concrete, Add	19.35	
For 6,000 PSI Concrete, Add	45.83	
For 7,500 PSI Concrete, Add	113.81	
For White Cement Concrete, Add	20.37	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
For High Early Strength, Type 3 ASTM C150, Add	16.97	
For Lightweight Aggregate, ASTM C330, Add	50.92	
For Up To 20, Add	11.39	
For >20 To 50, Add	4.27	
For >100 To 200, Deduct	-3.96	
For >200 To 400, Deduct	-7.93	
For >400, Deduct	-11.89	
03 31 13 00-0037 CY Up To 6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade	215.17	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.93	
For 2,500 PSI Concrete, Deduct	-4.97	
For 3,500 PSI Concrete, Add	9.19	
For 3,750 PSI Concrete, Add	12.50	
For 4,000 PSI Concrete, Add	15.81	
For 4,500 PSI Concrete, Add	18.39	
For 5,000 PSI Concrete, Add	20.96	
For 6,000 PSI Concrete, Add	49.65	
For 7,500 PSI Concrete, Add	123.30	
For White Cement Concrete, Add	22.07	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.91	
For High Early Strength, Type 3 ASTM C150, Add	18.39	
For Lightweight Aggregate, ASTM C330, Add	55.17	
For Up To 20, Add	12.51	
For >20 To 50, Add	4.69	
For >100 To 200, Deduct	-4.30	
For >200 To 400, Deduct	-8.61	
For >400, Deduct	-12.91	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31	13 00-0038	CY	>6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade.....	207.62	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-9.93	
			For 2,500 PSI Concrete, Deduct	-4.97	
			For 3,500 PSI Concrete, Add	9.19	
			For 3,750 PSI Concrete, Add	12.50	
			For 4,000 PSI Concrete, Add	15.81	
			For 4,500 PSI Concrete, Add	18.39	
			For 5,000 PSI Concrete, Add	20.96	
			For 6,000 PSI Concrete, Add	49.65	
			For 7,500 PSI Concrete, Add	123.30	
			For White Cement Concrete, Add	22.07	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.91	
			For High Early Strength, Type 3 ASTM C150, Add	18.39	
			For Lightweight Aggregate, ASTM C330, Add	55.17	
			For Up To 20, Add	9.49	
			For >20 To 50, Add	3.56	
			For >100 To 200, Deduct	-4.15	
			For >200 To 400, Deduct	-8.30	
			For >400, Deduct	-12.46	
03 31	13 00-0039		Place Concrete Duct Bank (03 31 13 00-0011)		
03 31	13 00-0040	CY	Direct Chute, Place 3,000 PSI Concrete Duct Bank	200.80	
			For 2,000 PSI Concrete, Deduct	-9.17	
			For 2,500 PSI Concrete, Deduct	-4.58	
			For 3,500 PSI Concrete, Add	8.49	
			For 3,750 PSI Concrete, Add	11.54	
			For 4,000 PSI Concrete, Add	14.60	
			For 4,500 PSI Concrete, Add	16.97	
			For 5,000 PSI Concrete, Add	19.35	
			For 6,000 PSI Concrete, Add	45.83	
			For 7,500 PSI Concrete, Add	113.81	
			For White Cement Concrete, Add	20.37	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
			For High Early Strength, Type 3 ASTM C150, Add	16.97	
			For Lightweight Aggregate, ASTM C330, Add	50.92	
			For Up To 20, Add	12.42	
			For >20 To 50, Add	4.66	
			For >100 To 200, Deduct	-4.02	
			For >200 To 400, Deduct	-8.03	
			For >400, Deduct	-12.05	
03 31	13 00-0041		Place Concrete Stairs (03 31 13 00-0011)		
03 31	13 00-0042	CY	Crane And Bucket, Place 3,000 PSI On Grade Concrete Stairs.....	563.44	
			For 2,000 PSI Concrete, Deduct	-9.17	
			For 2,500 PSI Concrete, Deduct	-4.58	
			For 3,500 PSI Concrete, Add	8.49	
			For 3,750 PSI Concrete, Add	11.54	
			For 4,000 PSI Concrete, Add	14.60	
			For 4,500 PSI Concrete, Add	16.98	
			For 5,000 PSI Concrete, Add	19.35	
			For 6,000 PSI Concrete, Add	45.83	
			For 7,500 PSI Concrete, Add	113.82	
			For White Cement Concrete, Add	20.37	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
			For High Early Strength, Type 3 ASTM C150, Add	16.98	
			For Lightweight Aggregate, ASTM C330, Add	50.93	
			For Up To 20, Add	157.48	
			For >20 To 50, Add	59.05	
			For >100 To 200, Deduct	-11.27	
			For >200 To 400, Deduct	-22.54	
			For >400, Deduct	-33.81	
03 31	13 00-0043	CY	Direct Chute, Place 3,000 PSI On Grade Concrete Stairs.....	338.64	
			For 2,000 PSI Concrete, Deduct	-9.17	
			For 2,500 PSI Concrete, Deduct	-4.58	
			For 3,500 PSI Concrete, Add	8.49	
			For 3,750 PSI Concrete, Add	11.54	
			For 4,000 PSI Concrete, Add	14.60	
			For 4,500 PSI Concrete, Add	16.97	
			For 5,000 PSI Concrete, Add	19.35	
			For 6,000 PSI Concrete, Add	45.83	
			For 7,500 PSI Concrete, Add	113.81	
			For White Cement Concrete, Add	20.37	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
			For High Early Strength, Type 3 ASTM C150, Add	16.97	
			For Lightweight Aggregate, ASTM C330, Add	50.92	
			For Up To 20, Add	67.56	
			For >20 To 50, Add	25.34	
			For >100 To 200, Deduct	-6.77	
			For >200 To 400, Deduct	-13.55	
			For >400, Deduct	-20.32	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0044 CY Concrete Pump, Place 3,000 PSI On Grade Concrete Stairs.....	324.66	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.93	
For 2,500 PSI Concrete, Deduct	-4.97	
For 3,500 PSI Concrete, Add	9.19	
For 3,750 PSI Concrete, Add	12.50	
For 4,000 PSI Concrete, Add	15.81	
For 4,500 PSI Concrete, Add	18.39	
For 5,000 PSI Concrete, Add	20.96	
For 6,000 PSI Concrete, Add	49.65	
For 7,500 PSI Concrete, Add	123.30	
For White Cement Concrete, Add	22.07	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.91	
For High Early Strength, Type 3 ASTM C150, Add	18.39	
For Lightweight Aggregate, ASTM C330, Add	55.17	
For Up To 20, Add	56.31	
For >20 To 50, Add	21.12	
For >100 To 200, Deduct	-6.49	
For >200 To 400, Deduct	-12.99	
For >400, Deduct	-19.48	
03 31 13 00-0045 Place Concrete Superstructure By Method Indicated (03 31 13 00-0010)		
See CSI section 03 37 16 00-0001 for concrete pump truck.		
03 31 13 00-0046 Place Elevated Concrete Beams (03 31 13 00-0045)		
03 31 13 00-0047 CY Crane And Bucket, Place 3,000 PSI Elevated Concrete Beams.....	383.47	
For 2,000 PSI Concrete, Deduct	-9.17	
For 2,500 PSI Concrete, Deduct	-4.58	
For 3,500 PSI Concrete, Add	8.49	
For 3,750 PSI Concrete, Add	11.54	
For 4,000 PSI Concrete, Add	14.60	
For 4,500 PSI Concrete, Add	16.97	
For 5,000 PSI Concrete, Add	19.35	
For 6,000 PSI Concrete, Add	45.83	
For 7,500 PSI Concrete, Add	113.81	
For White Cement Concrete, Add	20.37	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
For High Early Strength, Type 3 ASTM C150, Add	16.97	
For Lightweight Aggregate, ASTM C330, Add	50.92	
For Up To 20, Add	85.49	
For >20 To 50, Add	32.06	
For >100 To 200, Deduct	-7.67	
For >200 To 400, Deduct	-15.34	
For >400, Deduct	-23.01	
03 31 13 00-0048 CY Concrete Pump, Place 3,000 PSI Elevated Concrete Beams.....	271.20	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.93	
For 2,500 PSI Concrete, Deduct	-4.97	
For 3,500 PSI Concrete, Add	9.19	
For 3,750 PSI Concrete, Add	12.50	
For 4,000 PSI Concrete, Add	15.81	
For 4,500 PSI Concrete, Add	18.39	
For 5,000 PSI Concrete, Add	20.96	
For 6,000 PSI Concrete, Add	49.65	
For 7,500 PSI Concrete, Add	123.30	
For White Cement Concrete, Add	22.07	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.91	
For High Early Strength, Type 3 ASTM C150, Add	18.39	
For Lightweight Aggregate, ASTM C330, Add	55.17	
For Up To 20, Add	34.92	
For >20 To 50, Add	13.10	
For >100 To 200, Deduct	-5.42	
For >200 To 400, Deduct	-10.85	
For >400, Deduct	-16.27	
03 31 13 00-0049 Place Elevated Concrete Slab (03 31 13 00-0045)		
03 31 13 00-0050 CY Up To 6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab	270.36	
For 2,000 PSI Concrete, Deduct	-9.17	
For 2,500 PSI Concrete, Deduct	-4.58	
For 3,500 PSI Concrete, Add	8.49	
For 3,750 PSI Concrete, Add	11.54	
For 4,000 PSI Concrete, Add	14.60	
For 4,500 PSI Concrete, Add	16.97	
For 5,000 PSI Concrete, Add	19.35	
For 6,000 PSI Concrete, Add	45.83	
For 7,500 PSI Concrete, Add	113.81	
For White Cement Concrete, Add	20.37	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
For High Early Strength, Type 3 ASTM C150, Add	16.97	
For Lightweight Aggregate, ASTM C330, Add	50.92	
For Up To 20, Add	40.25	
For >20 To 50, Add	15.09	
For >100 To 200, Deduct	-5.41	
For >200 To 400, Deduct	-10.81	
For >400, Deduct	-16.22	

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0051	CY	>6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab	246.08
		<i>For 2,000 PSI Concrete, Deduct</i>	-9.17
		<i>For 2,500 PSI Concrete, Deduct</i>	-4.58
		<i>For 3,500 PSI Concrete, Add</i>	8.49
		<i>For 3,750 PSI Concrete, Add</i>	11.54
		<i>For 4,000 PSI Concrete, Add</i>	14.60
		<i>For 4,500 PSI Concrete, Add</i>	16.97
		<i>For 5,000 PSI Concrete, Add</i>	19.35
		<i>For 6,000 PSI Concrete, Add</i>	45.83
		<i>For 7,500 PSI Concrete, Add</i>	113.81
		<i>For White Cement Concrete, Add</i>	20.37
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	22.07
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	16.97
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	50.92
		<i>For Up To 20, Add</i>	30.54
		<i>For >20 To 50, Add</i>	11.45
		<i>For >100 To 200, Deduct</i>	-4.92
		<i>For >200 To 400, Deduct</i>	-9.84
		<i>For >400, Deduct</i>	-14.76
03 31 13 00-0052	CY	Up To 6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab	225.00
		Note: Excludes pumping equipment.	
		<i>For 2,000 PSI Concrete, Deduct</i>	-9.93
		<i>For 2,500 PSI Concrete, Deduct</i>	-4.97
		<i>For 3,500 PSI Concrete, Add</i>	9.19
		<i>For 3,750 PSI Concrete, Add</i>	12.50
		<i>For 4,000 PSI Concrete, Add</i>	15.81
		<i>For 4,500 PSI Concrete, Add</i>	18.39
		<i>For 5,000 PSI Concrete, Add</i>	20.96
		<i>For 6,000 PSI Concrete, Add</i>	49.65
		<i>For 7,500 PSI Concrete, Add</i>	123.30
		<i>For White Cement Concrete, Add</i>	22.07
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	23.91
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	18.39
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	55.17
		<i>For Up To 20, Add</i>	16.44
		<i>For >20 To 50, Add</i>	6.17
		<i>For >100 To 200, Deduct</i>	-4.50
		<i>For >200 To 400, Deduct</i>	-9.00
		<i>For >400, Deduct</i>	-13.50
03 31 13 00-0053	CY	>6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab	215.08
		Note: Excludes pumping equipment.	
		<i>For 2,000 PSI Concrete, Deduct</i>	-9.93
		<i>For 2,500 PSI Concrete, Deduct</i>	-4.97
		<i>For 3,500 PSI Concrete, Add</i>	9.19
		<i>For 3,750 PSI Concrete, Add</i>	12.50
		<i>For 4,000 PSI Concrete, Add</i>	15.81
		<i>For 4,500 PSI Concrete, Add</i>	18.39
		<i>For 5,000 PSI Concrete, Add</i>	20.96
		<i>For 6,000 PSI Concrete, Add</i>	49.65
		<i>For 7,500 PSI Concrete, Add</i>	123.30
		<i>For White Cement Concrete, Add</i>	22.07
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	23.91
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	18.39
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	55.17
		<i>For Up To 20, Add</i>	12.48
		<i>For >20 To 50, Add</i>	4.68
		<i>For >100 To 200, Deduct</i>	-4.30
		<i>For >200 To 400, Deduct</i>	-8.60
		<i>For >400, Deduct</i>	-12.90

03 31 13 00-0054 Place Concrete Columns (03 31 13 00-0045)

03 31 13 00-0055	CY	12" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	400.57
		<i>For 2,000 PSI Concrete, Deduct</i>	-9.17
		<i>For 2,500 PSI Concrete, Deduct</i>	-4.58
		<i>For 3,500 PSI Concrete, Add</i>	8.49
		<i>For 3,750 PSI Concrete, Add</i>	11.54
		<i>For 4,000 PSI Concrete, Add</i>	14.60
		<i>For 4,500 PSI Concrete, Add</i>	16.98
		<i>For 5,000 PSI Concrete, Add</i>	19.35
		<i>For 6,000 PSI Concrete, Add</i>	45.83
		<i>For 7,500 PSI Concrete, Add</i>	113.82
		<i>For White Cement Concrete, Add</i>	20.37
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	22.07
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	16.98
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	50.93
		<i>For Up To 20, Add</i>	92.33
		<i>For >20 To 50, Add</i>	34.62
		<i>For >100 To 200, Deduct</i>	-8.01
		<i>For >200 To 400, Deduct</i>	-16.02
		<i>For >400, Deduct</i>	-24.03



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0056 CY 18" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	337.52	
For 2,000 PSI Concrete, Deduct	-9.17	
For 2,500 PSI Concrete, Deduct	-4.58	
For 3,500 PSI Concrete, Add	8.49	
For 3,750 PSI Concrete, Add	11.54	
For 4,000 PSI Concrete, Add	14.60	
For 4,500 PSI Concrete, Add	16.97	
For 5,000 PSI Concrete, Add	19.35	
For 6,000 PSI Concrete, Add	45.83	
For 7,500 PSI Concrete, Add	113.81	
For White Cement Concrete, Add	20.37	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
For High Early Strength, Type 3 ASTM C150, Add	16.97	
For Lightweight Aggregate, ASTM C330, Add	50.92	
For Up To 20, Add	67.11	
For >20 To 50, Add	25.17	
For >100 To 200, Deduct	-6.75	
For >200 To 400, Deduct	-13.50	
For >400, Deduct	-20.25	
03 31 13 00-0057 CY 24" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	292.42	
For 2,000 PSI Concrete, Deduct	-9.17	
For 2,500 PSI Concrete, Deduct	-4.58	
For 3,500 PSI Concrete, Add	8.49	
For 3,750 PSI Concrete, Add	11.54	
For 4,000 PSI Concrete, Add	14.60	
For 4,500 PSI Concrete, Add	16.97	
For 5,000 PSI Concrete, Add	19.35	
For 6,000 PSI Concrete, Add	45.83	
For 7,500 PSI Concrete, Add	113.81	
For White Cement Concrete, Add	20.37	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
For High Early Strength, Type 3 ASTM C150, Add	16.97	
For Lightweight Aggregate, ASTM C330, Add	50.92	
For Up To 20, Add	49.07	
For >20 To 50, Add	18.40	
For >100 To 200, Deduct	-5.85	
For >200 To 400, Deduct	-11.70	
For >400, Deduct	-17.55	
03 31 13 00-0058 CY 36" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	272.34	
For 2,000 PSI Concrete, Deduct	-9.17	
For 2,500 PSI Concrete, Deduct	-4.58	
For 3,500 PSI Concrete, Add	8.49	
For 3,750 PSI Concrete, Add	11.54	
For 4,000 PSI Concrete, Add	14.60	
For 4,500 PSI Concrete, Add	16.98	
For 5,000 PSI Concrete, Add	19.35	
For 6,000 PSI Concrete, Add	45.83	
For 7,500 PSI Concrete, Add	113.82	
For White Cement Concrete, Add	20.37	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
For High Early Strength, Type 3 ASTM C150, Add	16.98	
For Lightweight Aggregate, ASTM C330, Add	50.93	
For Up To 20, Add	41.04	
For >20 To 50, Add	15.39	
For >100 To 200, Deduct	-5.45	
For >200 To 400, Deduct	-10.89	
For >400, Deduct	-16.34	
03 31 13 00-0059 CY 12" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	278.19	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.93	
For 2,500 PSI Concrete, Deduct	-4.97	
For 3,500 PSI Concrete, Add	9.19	
For 3,750 PSI Concrete, Add	12.50	
For 4,000 PSI Concrete, Add	15.81	
For 4,500 PSI Concrete, Add	18.39	
For 5,000 PSI Concrete, Add	20.96	
For 6,000 PSI Concrete, Add	49.65	
For 7,500 PSI Concrete, Add	123.30	
For White Cement Concrete, Add	22.07	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.91	
For High Early Strength, Type 3 ASTM C150, Add	18.39	
For Lightweight Aggregate, ASTM C330, Add	55.17	
For Up To 20, Add	37.72	
For >20 To 50, Add	14.15	
For >100 To 200, Deduct	-5.56	
For >200 To 400, Deduct	-11.13	
For >400, Deduct	-16.69	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 31 13 00-0060	CY		18" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	252.44	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-9.93	
			For 2,500 PSI Concrete, Deduct	-4.97	
			For 3,500 PSI Concrete, Add	9.19	
			For 3,750 PSI Concrete, Add	12.50	
			For 4,000 PSI Concrete, Add	15.81	
			For 4,500 PSI Concrete, Add	18.39	
			For 5,000 PSI Concrete, Add	20.96	
			For 6,000 PSI Concrete, Add	49.65	
			For 7,500 PSI Concrete, Add	123.30	
			For White Cement Concrete, Add	22.07	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.91	
			For High Early Strength, Type 3 ASTM C150, Add	18.39	
			For Lightweight Aggregate, ASTM C330, Add	55.17	
			For Up To 20, Add	27.42	
			For >20 To 50, Add	10.28	
			For >100 To 200, Deduct	-5.05	
			For >200 To 400, Deduct	-10.10	
			For >400, Deduct	-15.15	
03 31 13 00-0061	CY		24" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	234.01	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-9.93	
			For 2,500 PSI Concrete, Deduct	-4.97	
			For 3,500 PSI Concrete, Add	9.19	
			For 3,750 PSI Concrete, Add	12.50	
			For 4,000 PSI Concrete, Add	15.81	
			For 4,500 PSI Concrete, Add	18.39	
			For 5,000 PSI Concrete, Add	20.96	
			For 6,000 PSI Concrete, Add	49.65	
			For 7,500 PSI Concrete, Add	123.30	
			For White Cement Concrete, Add	22.07	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.91	
			For High Early Strength, Type 3 ASTM C150, Add	18.39	
			For Lightweight Aggregate, ASTM C330, Add	55.17	
			For Up To 20, Add	20.05	
			For >20 To 50, Add	7.52	
			For >100 To 200, Deduct	-4.68	
			For >200 To 400, Deduct	-9.36	
			For >400, Deduct	-14.04	
03 31 13 00-0062	CY		36" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	225.79	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-9.93	
			For 2,500 PSI Concrete, Deduct	-4.97	
			For 3,500 PSI Concrete, Add	9.19	
			For 3,750 PSI Concrete, Add	12.50	
			For 4,000 PSI Concrete, Add	15.81	
			For 4,500 PSI Concrete, Add	18.39	
			For 5,000 PSI Concrete, Add	20.96	
			For 6,000 PSI Concrete, Add	49.65	
			For 7,500 PSI Concrete, Add	123.30	
			For White Cement Concrete, Add	22.07	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.91	
			For High Early Strength, Type 3 ASTM C150, Add	18.39	
			For Lightweight Aggregate, ASTM C330, Add	55.17	
			For Up To 20, Add	16.76	
			For >20 To 50, Add	6.29	
			For >100 To 200, Deduct	-4.52	
			For >200 To 400, Deduct	-9.03	
			For >400, Deduct	-13.55	

03 31 13 00-0063 Place Concrete Walls (03 31 13 00-0045)

03 31 13 00-0064	CY		Up To 8" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	386.14	
			For 2,000 PSI Concrete, Deduct	-9.17	
			For 2,500 PSI Concrete, Deduct	-4.58	
			For 3,500 PSI Concrete, Add	8.49	
			For 3,750 PSI Concrete, Add	11.54	
			For 4,000 PSI Concrete, Add	14.60	
			For 4,500 PSI Concrete, Add	16.97	
			For 5,000 PSI Concrete, Add	19.35	
			For 6,000 PSI Concrete, Add	45.83	
			For 7,500 PSI Concrete, Add	113.81	
			For White Cement Concrete, Add	20.37	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
			For High Early Strength, Type 3 ASTM C150, Add	16.97	
			For Lightweight Aggregate, ASTM C330, Add	50.92	
			For Up To 20, Add	86.56	
			For >20 To 50, Add	32.46	
			For >100 To 200, Deduct	-7.72	
			For >200 To 400, Deduct	-15.45	
			For >400, Deduct	-23.17	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0065 CY 12" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls.....	368.20	
For 2,000 PSI Concrete, Deduct	-9.17	
For 2,500 PSI Concrete, Deduct	-4.58	
For 3,500 PSI Concrete, Add	8.49	
For 3,750 PSI Concrete, Add	11.54	
For 4,000 PSI Concrete, Add	14.60	
For 4,500 PSI Concrete, Add	16.97	
For 5,000 PSI Concrete, Add	19.35	
For 6,000 PSI Concrete, Add	45.83	
For 7,500 PSI Concrete, Add	113.81	
For White Cement Concrete, Add	20.37	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
For High Early Strength, Type 3 ASTM C150, Add	16.97	
For Lightweight Aggregate, ASTM C330, Add	50.92	
For Up To 20, Add	79.38	
For >20 To 50, Add	29.77	
For >100 To 200, Deduct	-7.36	
For >200 To 400, Deduct	-14.73	
For >400, Deduct	-22.09	
03 31 13 00-0066 CY 15" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls.....	321.22	
For 2,000 PSI Concrete, Deduct	-9.17	
For 2,500 PSI Concrete, Deduct	-4.58	
For 3,500 PSI Concrete, Add	8.49	
For 3,750 PSI Concrete, Add	11.54	
For 4,000 PSI Concrete, Add	14.60	
For 4,500 PSI Concrete, Add	16.97	
For 5,000 PSI Concrete, Add	19.35	
For 6,000 PSI Concrete, Add	45.83	
For 7,500 PSI Concrete, Add	113.81	
For White Cement Concrete, Add	20.37	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
For High Early Strength, Type 3 ASTM C150, Add	16.97	
For Lightweight Aggregate, ASTM C330, Add	50.92	
For Up To 20, Add	60.59	
For >20 To 50, Add	22.72	
For >100 To 200, Deduct	-6.42	
For >200 To 400, Deduct	-12.85	
For >400, Deduct	-19.27	
03 31 13 00-0067 CY Up To 8" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls.....	262.57	
For 2,000 PSI Concrete, Deduct	-9.17	
For 2,500 PSI Concrete, Deduct	-4.58	
For 3,500 PSI Concrete, Add	8.49	
For 3,750 PSI Concrete, Add	11.54	
For 4,000 PSI Concrete, Add	14.60	
For 4,500 PSI Concrete, Add	16.97	
For 5,000 PSI Concrete, Add	19.35	
For 6,000 PSI Concrete, Add	45.83	
For 7,500 PSI Concrete, Add	113.81	
For White Cement Concrete, Add	20.37	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
For High Early Strength, Type 3 ASTM C150, Add	16.97	
For Lightweight Aggregate, ASTM C330, Add	50.92	
For Up To 20, Add	37.13	
For >20 To 50, Add	13.92	
For >100 To 200, Deduct	-5.25	
For >200 To 400, Deduct	-10.50	
For >400, Deduct	-15.75	
03 31 13 00-0068 CY 12" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls.....	244.00	
For 2,000 PSI Concrete, Deduct	-9.17	
For 2,500 PSI Concrete, Deduct	-4.58	
For 3,500 PSI Concrete, Add	8.49	
For 3,750 PSI Concrete, Add	11.54	
For 4,000 PSI Concrete, Add	14.60	
For 4,500 PSI Concrete, Add	16.97	
For 5,000 PSI Concrete, Add	19.35	
For 6,000 PSI Concrete, Add	45.83	
For 7,500 PSI Concrete, Add	113.81	
For White Cement Concrete, Add	20.37	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
For High Early Strength, Type 3 ASTM C150, Add	16.97	
For Lightweight Aggregate, ASTM C330, Add	50.92	
For Up To 20, Add	29.70	
For >20 To 50, Add	11.14	
For >100 To 200, Deduct	-4.88	
For >200 To 400, Deduct	-9.76	
For >400, Deduct	-14.64	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 31 13 00-0069	CY		15" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	234.71	
			<i>For 2,000 PSI Concrete, Deduct</i>	-9.17	
			<i>For 2,500 PSI Concrete, Deduct</i>	-4.58	
			<i>For 3,500 PSI Concrete, Add</i>	8.49	
			<i>For 3,750 PSI Concrete, Add</i>	11.54	
			<i>For 4,000 PSI Concrete, Add</i>	14.60	
			<i>For 4,500 PSI Concrete, Add</i>	16.97	
			<i>For 5,000 PSI Concrete, Add</i>	19.35	
			<i>For 6,000 PSI Concrete, Add</i>	45.83	
			<i>For 7,500 PSI Concrete, Add</i>	113.81	
			<i>For White Cement Concrete, Add</i>	20.37	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	22.07	
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>	16.97	
			<i>For Lightweight Aggregate, ASTM C330, Add</i>	50.92	
			<i>For Up To 20, Add</i>	25.99	
			<i>For >20 To 50, Add</i>	9.75	
			<i>For >100 To 200, Deduct</i>	-4.69	
			<i>For >200 To 400, Deduct</i>	-9.39	
			<i>For >400, Deduct</i>	-14.08	
03 31 13 00-0070	CY		Up To 8" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	272.29	
			Note: Excludes pumping equipment.		
			<i>For 2,000 PSI Concrete, Deduct</i>	-9.93	
			<i>For 2,500 PSI Concrete, Deduct</i>	-4.97	
			<i>For 3,500 PSI Concrete, Add</i>	9.19	
			<i>For 3,750 PSI Concrete, Add</i>	12.50	
			<i>For 4,000 PSI Concrete, Add</i>	15.81	
			<i>For 4,500 PSI Concrete, Add</i>	18.39	
			<i>For 5,000 PSI Concrete, Add</i>	20.96	
			<i>For 6,000 PSI Concrete, Add</i>	49.65	
			<i>For 7,500 PSI Concrete, Add</i>	123.30	
			<i>For White Cement Concrete, Add</i>	22.07	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	23.91	
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>	18.39	
			<i>For Lightweight Aggregate, ASTM C330, Add</i>	55.17	
			<i>For Up To 20, Add</i>	35.36	
			<i>For >20 To 50, Add</i>	13.26	
			<i>For >100 To 200, Deduct</i>	-5.45	
			<i>For >200 To 400, Deduct</i>	-10.89	
			<i>For >400, Deduct</i>	-16.34	
03 31 13 00-0071	CY		12" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	254.61	
			Note: Excludes pumping equipment.		
			<i>For 2,000 PSI Concrete, Deduct</i>	-9.93	
			<i>For 2,500 PSI Concrete, Deduct</i>	-4.97	
			<i>For 3,500 PSI Concrete, Add</i>	9.19	
			<i>For 3,750 PSI Concrete, Add</i>	12.50	
			<i>For 4,000 PSI Concrete, Add</i>	15.81	
			<i>For 4,500 PSI Concrete, Add</i>	18.39	
			<i>For 5,000 PSI Concrete, Add</i>	20.96	
			<i>For 6,000 PSI Concrete, Add</i>	49.65	
			<i>For 7,500 PSI Concrete, Add</i>	123.30	
			<i>For White Cement Concrete, Add</i>	22.07	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	23.91	
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>	18.39	
			<i>For Lightweight Aggregate, ASTM C330, Add</i>	55.17	
			<i>For Up To 20, Add</i>	28.29	
			<i>For >20 To 50, Add</i>	10.61	
			<i>For >100 To 200, Deduct</i>	-5.09	
			<i>For >200 To 400, Deduct</i>	-10.18	
			<i>For >400, Deduct</i>	-15.28	
03 31 13 00-0072	CY		15" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	245.77	
			Note: Excludes pumping equipment.		
			<i>For 2,000 PSI Concrete, Deduct</i>	-9.93	
			<i>For 2,500 PSI Concrete, Deduct</i>	-4.97	
			<i>For 3,500 PSI Concrete, Add</i>	9.19	
			<i>For 3,750 PSI Concrete, Add</i>	12.50	
			<i>For 4,000 PSI Concrete, Add</i>	15.81	
			<i>For 4,500 PSI Concrete, Add</i>	18.39	
			<i>For 5,000 PSI Concrete, Add</i>	20.96	
			<i>For 6,000 PSI Concrete, Add</i>	49.65	
			<i>For 7,500 PSI Concrete, Add</i>	123.30	
			<i>For White Cement Concrete, Add</i>	22.07	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	23.91	
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>	18.39	
			<i>For Lightweight Aggregate, ASTM C330, Add</i>	55.17	
			<i>For Up To 20, Add</i>	24.75	
			<i>For >20 To 50, Add</i>	9.28	
			<i>For >100 To 200, Deduct</i>	-4.92	
			<i>For >200 To 400, Deduct</i>	-9.83	
			<i>For >400, Deduct</i>	-14.75	

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



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0074 CY Crane And Bucket, Place 3,000 PSI Elevated Concrete Stairs	607.22	
For 2,000 PSI Concrete, Deduct	-9.17	
For 2,500 PSI Concrete, Deduct	-4.58	
For 3,500 PSI Concrete, Add	8.49	
For 3,750 PSI Concrete, Add	11.54	
For 4,000 PSI Concrete, Add	14.60	
For 4,500 PSI Concrete, Add	16.97	
For 5,000 PSI Concrete, Add	19.35	
For 6,000 PSI Concrete, Add	45.83	
For 7,500 PSI Concrete, Add	113.81	
For White Cement Concrete, Add	20.37	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
For High Early Strength, Type 3 ASTM C150, Add	16.97	
For Lightweight Aggregate, ASTM C330, Add	50.92	
For Up To 20, Add	174.99	
For >20 To 50, Add	65.62	
For >100 To 200, Deduct	-12.14	
For >200 To 400, Deduct	-24.29	
For >400, Deduct	-36.43	
03 31 13 00-0075 CY Direct Chute, Place 3,000 PSI Elevated Concrete Stairs.....	357.41	
For 2,000 PSI Concrete, Deduct	-9.17	
For 2,500 PSI Concrete, Deduct	-4.58	
For 3,500 PSI Concrete, Add	8.49	
For 3,750 PSI Concrete, Add	11.54	
For 4,000 PSI Concrete, Add	14.60	
For 4,500 PSI Concrete, Add	16.98	
For 5,000 PSI Concrete, Add	19.35	
For 6,000 PSI Concrete, Add	45.83	
For 7,500 PSI Concrete, Add	113.82	
For White Cement Concrete, Add	20.37	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
For High Early Strength, Type 3 ASTM C150, Add	16.98	
For Lightweight Aggregate, ASTM C330, Add	50.93	
For Up To 20, Add	75.06	
For >20 To 50, Add	28.15	
For >100 To 200, Deduct	-7.15	
For >200 To 400, Deduct	-14.30	
For >400, Deduct	-21.44	
03 31 13 00-0076 CY Concrete Pump, Place 3,000 PSI Elevated Concrete Stairs.....	340.27	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.93	
For 2,500 PSI Concrete, Deduct	-4.97	
For 3,500 PSI Concrete, Add	9.19	
For 3,750 PSI Concrete, Add	12.50	
For 4,000 PSI Concrete, Add	15.81	
For 4,500 PSI Concrete, Add	18.39	
For 5,000 PSI Concrete, Add	20.96	
For 6,000 PSI Concrete, Add	49.65	
For 7,500 PSI Concrete, Add	123.30	
For White Cement Concrete, Add	22.07	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.91	
For High Early Strength, Type 3 ASTM C150, Add	18.39	
For Lightweight Aggregate, ASTM C330, Add	55.17	
For Up To 20, Add	62.55	
For >20 To 50, Add	23.46	
For >100 To 200, Deduct	-6.81	
For >200 To 400, Deduct	-13.61	
For >400, Deduct	-20.42	
03 31 13 00-0077 Place Concrete Coping <small>(03 31 13 00-0045)</small>		
03 31 13 00-0078 CY Crane And Bucket, Place 3,000 PSI Concrete Coping	622.36	
For 2,000 PSI Concrete, Deduct	-9.17	
For 2,500 PSI Concrete, Deduct	-4.58	
For 3,500 PSI Concrete, Add	8.49	
For 3,750 PSI Concrete, Add	11.54	
For 4,000 PSI Concrete, Add	14.60	
For 4,500 PSI Concrete, Add	16.98	
For 5,000 PSI Concrete, Add	19.35	
For 6,000 PSI Concrete, Add	45.83	
For 7,500 PSI Concrete, Add	113.82	
For White Cement Concrete, Add	20.37	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	22.07	
For High Early Strength, Type 3 ASTM C150, Add	16.98	
For Lightweight Aggregate, ASTM C330, Add	50.93	
For Up To 20, Add	181.04	
For >20 To 50, Add	67.89	
For >100 To 200, Deduct	-12.45	
For >200 To 400, Deduct	-24.89	
For >400, Deduct	-37.34	

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0079	CY	Direct Chute, Place 3,000 PSI Concrete Coping	356.15
		<i>For 2,000 PSI Concrete, Deduct</i>	-9.17
		<i>For 2,500 PSI Concrete, Deduct</i>	-4.58
		<i>For 3,500 PSI Concrete, Add</i>	8.49
		<i>For 3,750 PSI Concrete, Add</i>	11.54
		<i>For 4,000 PSI Concrete, Add</i>	14.60
		<i>For 4,500 PSI Concrete, Add</i>	16.98
		<i>For 5,000 PSI Concrete, Add</i>	19.35
		<i>For 6,000 PSI Concrete, Add</i>	45.83
		<i>For 7,500 PSI Concrete, Add</i>	113.82
		<i>For White Cement Concrete, Add</i>	20.37
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	22.07
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	16.98
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	50.93
		<i>For Up To 20, Add</i>	74.56
		<i>For >20 To 50, Add</i>	27.96
		<i>For >100 To 200, Deduct</i>	-7.12
		<i>For >200 To 400, Deduct</i>	-14.25
		<i>For >400, Deduct</i>	-21.37
03 31 13 00-0080	CY	Concrete Pump, Place 3,000 PSI Concrete Coping.....	466.22
		Note: Excludes pumping equipment.	
		<i>For 2,000 PSI Concrete, Deduct</i>	-9.93
		<i>For 2,500 PSI Concrete, Deduct</i>	-4.97
		<i>For 3,500 PSI Concrete, Add</i>	9.19
		<i>For 3,750 PSI Concrete, Add</i>	12.50
		<i>For 4,000 PSI Concrete, Add</i>	15.81
		<i>For 4,500 PSI Concrete, Add</i>	18.39
		<i>For 5,000 PSI Concrete, Add</i>	20.96
		<i>For 6,000 PSI Concrete, Add</i>	49.65
		<i>For 7,500 PSI Concrete, Add</i>	123.30
		<i>For White Cement Concrete, Add</i>	22.07
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	23.91
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	18.39
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	55.17
		<i>For Up To 20, Add</i>	112.93
		<i>For >20 To 50, Add</i>	42.35
		<i>For >100 To 200, Deduct</i>	-9.32
		<i>For >200 To 400, Deduct</i>	-18.65
		<i>For >400, Deduct</i>	-27.97
03 31 13 00-0081		Concrete Carts <small>(03 31 13 00-0010)</small>	
		Note: Used to place concrete were necessary.	
03 31 13 00-0082	CY	50' Haul, Non Motorized, Concrete Buggy	22.22
03 31 13 00-0083	CY	150' Haul, Non Motorized, Concrete Buggy	29.75
03 31 13 00-0084	CY	250' Haul, Non Motorized, Concrete Buggy	39.68
03 31 13 00-0085	CY	50' Haul, Motorized, Concrete Buggy	10.09
03 31 13 00-0086	CY	150' Haul, Motorized, Concrete Buggy.....	13.53
03 31 13 00-0087	CY	250' Haul, Motorized, Concrete Buggy.....	18.05
03 31 13 00-0088		Delivery Fee For Small Concrete Purchases (Short Load) <small>(03 31 13)</small>	
03 31 13 00-0089	CY	Delivery Fee For Small Concrete Purchases (Short Load) Per CY For Each CY Less Than 9 CY	30.78
		Note: The task quantity is 9 minus the number of CY's delivered. For example, the delivery fee for 2CY's is: (9-2) = 7.	
03 31 13 00-0090		Delivery Fee For Concrete, Per Truck Load <small>(03 31 13)</small>	
03 31 13 00-0091	EA	Concrete Delivery Fee, Per Truck.....	40.00
		Note: To be added to all concrete leaving concrete yard	
03 31 13 00-0092		Equipment Pads <small>(03 31 13)</small>	
03 31 13 00-0093		Small Concrete Equipment Housekeeping Pad Assemblies <small>(03 31 13 00-0092)</small>	
		Note: Includes forms, hand mix concrete, finish, curing and reinforcing. For up to 50 SF per pad and up to 5 pads per project. See CSI section 03 31 13 00-0002 for >50 SF concrete pads.	
03 31 13 00-0094	SF	4" Equipment Pad With Welded Wire Reinforcement	18.28
		<i>For >5 To 20 Pads, Deduct</i>	-2.18
		<i>For >20 To 50 Pads, Deduct</i>	-4.00
		<i>For >50 Pads, Deduct</i>	-5.82
03 31 13 00-0095	SF	4" Equipment Pad With Rebar	22.60
		<i>For >5 To 20 Pads, Deduct</i>	-2.52
		<i>For >20 To 50 Pads, Deduct</i>	-4.62
		<i>For >50 Pads, Deduct</i>	-6.72
03 31 13 00-0096	SF	6" Equipment Pad With Rebar	28.59
		<i>For >5 To 20 Pads, Deduct</i>	-3.17
		<i>For >20 To 50 Pads, Deduct</i>	-5.81
		<i>For >50 Pads, Deduct</i>	-8.44
03 31 13 00-0097	SF	8" Equipment Pad With Rebar	35.99
		<i>For >5 To 20 Pads, Deduct</i>	-4.02
		<i>For >20 To 50 Pads, Deduct</i>	-7.38
		<i>For >50 Pads, Deduct</i>	-10.73



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

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

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

03 31 16 00-0002	CY	Lightweight Low Density Cellular/Foam Concrete, 100 To 120 PCF Density Range.....	265.88
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03 35 Concrete Finishing (03 30)

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

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

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

03 35 13 00-0002	SF	Screed, Concrete Floor Finish.....	0.96
		<i>For Up To 100, Add</i>	1.92
		<i>For >100 To 250, Add</i>	0.48
		<i>For >250 To 500, Add</i>	0.24
		<i>For >5,000 To 10,000, Deduct</i>	-0.05
		<i>For >10,000, Deduct</i>	-0.10
03 35 13 00-0003	SF	Darby, Concrete Floor Finish.....	1.15
		<i>For Up To 100, Add</i>	2.30
		<i>For >100 To 250, Add</i>	0.58
		<i>For >250 To 500, Add</i>	0.29
		<i>For >5,000 To 10,000, Deduct</i>	-0.06
		<i>For >10,000, Deduct</i>	-0.12
03 35 13 00-0004	SF	Broom, Concrete Floor Finish.....	1.26
		<i>For Up To 100, Add</i>	2.52
		<i>For >100 To 250, Add</i>	0.63
		<i>For >250 To 500, Add</i>	0.32
		<i>For >5,000 To 10,000, Deduct</i>	-0.06
		<i>For >10,000, Deduct</i>	-0.13
03 35 13 00-0005	SF	Final Float, Concrete Floor Finish.....	1.47
		<i>For Up To 100, Add</i>	2.94
		<i>For >100 To 250, Add</i>	0.74
		<i>For >250 To 500, Add</i>	0.37
		<i>For >5,000 To 10,000, Deduct</i>	-0.07
		<i>For >10,000, Deduct</i>	-0.15
03 35 13 00-0006	SF	Steel Trowel, Concrete Floor Finish.....	1.66
		<i>For Up To 100, Add</i>	3.32
		<i>For >100 To 250, Add</i>	0.83
		<i>For >250 To 500, Add</i>	0.42
		<i>For >5,000 To 10,000, Deduct</i>	-0.08
		<i>For >10,000, Deduct</i>	-0.17

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

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

03 35 16 00-0002	SF	0.3 LB/SF, Metallic, Shake On Floor Hardener.....	1.21
03 35 16 00-0003	SF	0.65 LB/SF, Metallic, Shake On Floor Hardener.....	1.86
03 35 16 00-0004	SF	0.3 LB/SF, Non Metallic, Shake On Floor Hardener.....	1.14
03 35 16 00-0005	SF	0.65 LB/SF, Non Metallic, Shake On Floor Hardener.....	1.39

03 35 19 Colored Concrete Finishing (03 35)

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

03 35 19 00-0002	SF	Acrylic Latex Bonding Agent.....	0.49
03 35 19 00-0003	SF	Epoxy Resin Bonding Agent.....	2.98
03 35 19 00-0004	SF	Clear Acrylic Sealer, Hardener And Dustproofers.....	0.35
03 35 19 00-0005	SF	Colored Acrylic Sealer, Hardener And Dustproofers.....	0.37

03 35 23 Exposed Aggregate Concrete Finishing (03 35)

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

03 35 23 00-0002	SF	Exposed Aggregate, Concrete Floor Finish.....	3.13
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03 35 26 Grooved Concrete Surface Finishing (03 35)

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

03 35 26 00-0002	SF	Ramp, Grooved Concrete Surface Finishing.....	4.52
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03 35 29 Tooled Concrete Finishing (03 35)

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

03 35 29 00-0002	SF	Solid Board Concrete, Non Uniform Finish, 1 Use, Add To Formwork.....	15.84
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03 35 29 00-0003 Marblecrete Finishes (03 35 29)

03 35 29 00-0004	SF	2" Thick Marblecrete And Finish.....	40.76
03 35 29 00-0005	SF	4" Thick Marblecrete And Finish.....	54.64

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 35 33 Stamped Concrete Finishing (03 35)

03 35 33 00-0001	Stamped Concrete Finishes (03 35 33)	
03 35 33 00-0002	SF Up To 2,500 SF Stamped Concrete Finish	3.84
03 35 33 00-0003	SF >2,500 To 10,000 SF Stamped Concrete Finish	3.48
03 35 33 00-0004	SF >10,000 SF Stamped Concrete Finish	3.33

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

03 35 63 00-0001	Slip-Resistant Floor Finishing (03 35 63)	
03 35 63 00-0002	SF Aluminum Oxide Abrasive Floor Finish, 0.25 LB/SF	1.31
	For Up To 100, Add	1.84
	For >100 To 250, Add	0.46
	For >250 To 500, Add	0.23
	For >5,000 To 10,000, Deduct	-0.05
	For >10,000, Deduct	-0.09
03 35 63 00-0003	SF Silicone Carbide Abrasive Floor Finish 0.25 LB/SF	1.20
	For Up To 100, Add	1.84
	For >100 To 250, Add	0.46
	For >250 To 500, Add	0.23
	For >5,000 To 10,000, Deduct	-0.05
	For >10,000, Deduct	-0.09

03 35 66 Acid Etch Floor Finishing (03 35)

03 35 66 00-0001	Acid Etch Floor (03 35 66)	
03 35 66 00-0002	SF Concrete Floor Finishes, Etch With Acid And Rinse	0.98
	For Up To 100, Add	0.88
	For >100 To 250, Add	0.22
	For >250 To 500, Add	0.11
	For >5,000 To 10,000, Deduct	-0.02
	For >10,000, Deduct	-0.04

03 35 83 Concrete Wall Finishing (03 35)

03 35 83 00-0001	Wall Finishes (03 35 83)	
03 35 83 00-0002	SF Burlap Rub With Grout, New Concrete Wall Finishes	1.70
	For Up To 100, Add	3.20
	For >100 To 250, Add	0.80
	For >250 To 500, Add	0.40
	For >5,000 To 10,000, Deduct	-0.08
	For >10,000, Deduct	-0.16
03 35 83 00-0003	SF 1/16" Float Finish, New Concrete Wall Finishes	2.55
	For Up To 100, Add	4.80
	For >100 To 250, Add	1.20
	For >250 To 500, Add	0.60
	For >5,000 To 10,000, Deduct	-0.12
	For >10,000, Deduct	-0.24
03 35 83 00-0004	SF Etch With Acid And Rinse, New Concrete Wall Finishes	1.07
	For Up To 100, Add	1.06
	For >100 To 250, Add	0.27
	For >250 To 500, Add	0.13
	For >5,000 To 10,000, Deduct	-0.03
	For >10,000, Deduct	-0.05
03 35 83 00-0005	SF Bush Hammer Green Concrete, New Concrete Wall Finishes	5.13
	For Up To 100, Add	10.16
	For >100 To 250, Add	2.54
	For >250 To 500, Add	1.27
	For >5,000 To 10,000, Deduct	-0.25
	For >10,000, Deduct	-0.51
03 35 83 00-0006	SF Bush Hammer Cured Concrete, New Concrete Wall Finishes	7.94
	For Up To 100, Add	15.68
	For >100 To 250, Add	3.92
	For >250 To 500, Add	1.96
	For >5,000 To 10,000, Deduct	-0.39
	For >10,000, Deduct	-0.78
03 35 83 00-0007	SF Break Ties And Patch, New Concrete Wall Finishes	0.98
	For Up To 100, Add	1.72
	For >100 To 250, Add	0.43
	For >250 To 500, Add	0.22
	For >5,000 To 10,000, Deduct	-0.04
	For >10,000, Deduct	-0.09
03 35 83 00-0008	SF Carborundum Dry Rub, New Concrete Wall Finishes	3.31
	For Up To 100, Add	6.38
	For >100 To 250, Add	1.60
	For >250 To 500, Add	0.80
	For >5,000 To 10,000, Deduct	-0.16
	For >10,000, Deduct	-0.32



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 83 00-0009 SF Carborundum Wet Rub, New Concrete Wall Finishes.....	5.05	
For Up To 100, Add	9.86	
For >100 To 250, Add	2.47	
For >250 To 500, Add	1.23	
For >5,000 To 10,000, Deduct	-0.25	
For >10,000, Deduct	-0.49	
03 35 83 00-0010 SF Up To 1/4" Penetration Sand Blasting, New Concrete Wall Finishes.....	5.08	
Note: 4.5 Lbs of sand or abrasive material per SF		
For Up To 100, Add	8.24	
For >100 To 250, Add	2.06	
For >250 To 500, Add	1.03	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000, Deduct	-0.41	
03 35 83 00-0011 SF >1/4" To 1/2" Penetration Sand Blasting, New Concrete Wall Finishes.....	10.15	
Note: 9 Lbs of sand abrasive material per SF		
For Up To 100, Add	16.44	
For >100 To 250, Add	4.11	
For >250 To 500, Add	2.06	
For >5,000 To 10,000, Deduct	-0.41	
For >10,000, Deduct	-0.82	

03 37 Specialty Placed Concrete (03 30)

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

03 37 13 Shotcrete (03 37)

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

03 37 13 00-0002 SF 1" Thick Shotcrete, Fiber Reinforced.....	3.24	
For Up To 25, Add	0.61	
For >25 To 50, Add	0.35	
For >50 To 150, Add	0.14	
03 37 13 00-0003 SF 2" Thick Shotcrete, Fiber Reinforced.....	6.10	
For Up To 25, Add	1.12	
For >25 To 50, Add	0.65	
For >50 To 150, Add	0.26	
03 37 13 00-0004 SF 3" Thick Shotcrete, Fiber Reinforced.....	8.64	
For Up To 25, Add	1.56	
For >25 To 50, Add	0.89	
For >50 To 150, Add	0.35	
03 37 13 00-0005 SF 4" Thick Shotcrete, Fiber Reinforced.....	10.90	
For Up To 25, Add	1.92	
For >25 To 50, Add	1.10	
For >50 To 150, Add	0.41	
03 37 13 00-0006 SF 6" Thick Shotcrete, Fiber Reinforced.....	14.77	
For Up To 25, Add	2.48	
For >25 To 50, Add	1.41	
For >50 To 150, Add	0.50	

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

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

03 37 13 00-0008 SF 1" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	3.53	
For Radius Or Irregular Surface, Add	1.04	
For Up To 25, Add	0.74	
For >25 To 50, Add	0.44	
For >50 To 150, Add	0.20	
03 37 13 00-0009 SF 2" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	6.51	
For Radius Or Irregular Surface, Add	1.87	
For Up To 25, Add	1.35	
For >25 To 50, Add	0.79	
For >50 To 150, Add	0.35	
03 37 13 00-0010 SF 3" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	9.08	
For Radius Or Irregular Surface, Add	2.53	
For Up To 25, Add	1.86	
For >25 To 50, Add	1.09	
For >50 To 150, Add	0.47	
03 37 13 00-0011 SF 4" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	11.26	
For Radius Or Irregular Surface, Add	3.04	
For Up To 25, Add	2.27	
For >25 To 50, Add	1.32	
For >50 To 150, Add	0.57	
03 37 13 00-0012 SF 5" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	13.12	
For Radius Or Irregular Surface, Add	3.42	
For Up To 25, Add	2.59	
For >25 To 50, Add	1.51	
For >50 To 150, Add	0.64	
03 37 13 00-0013 SF 6" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	14.71	
For Radius Or Irregular Surface, Add	3.69	
For Up To 25, Add	2.85	
For >25 To 50, Add	1.66	
For >50 To 150, Add	0.69	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 37 13 00-0014 SF 8" Thick Gunitite (Dry Mix Shotcrete), Sprayed	18.39	
For Radius Or Irregular Surface, Add	4.43	
For Up To 25, Add	3.50	
For >25 To 50, Add	2.03	
For >50 To 150, Add	0.83	
03 37 13 00-0015 SF 10" Thick Gunitite (Dry Mix Shotcrete), Sprayed	21.61	
For Radius Or Irregular Surface, Add	4.98	
For Up To 25, Add	4.03	
For >25 To 50, Add	2.33	
For >50 To 150, Add	0.93	
03 37 13 00-0016 SF 12" Thick Gunitite (Dry Mix Shotcrete), Sprayed	24.43	
For Radius Or Irregular Surface, Add	5.38	
For Up To 25, Add	4.46	
For >25 To 50, Add	2.57	
For >50 To 150, Add	1.01	
03 37 16 Pumped Concrete (03 37)		
03 37 16 00-0001 Concrete Pumping With Boom Truck (03 37 16)		
Note: Includes truck rental, operator, and local travel delivery. For delivery/set-up of equipment add one hour, for clean-up of equipment add one hour. Use four hours as the minimum cost including set-up and clean-up. Excludes concrete, use "Concrete Pump" concrete tasks from appropriate section to place into pump hopper and place concrete. Sizes are measured at a 30 degree vertical reach. See CSI section 03 31 13 00-0010 for concrete placement.		
03 37 16 00-0002 HR 55' To 60' Boom Truck For Concrete Placement (95 CY Per Hour Rating)	176.54	
03 37 16 00-0003 HR 70' To 80' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	187.90	
For Each CY Of Concrete Pumped, Add	1.25	
03 37 16 00-0004 HR 90' To 100' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	228.92	
For Each CY Of Concrete Pumped, Add	1.50	
03 37 16 00-0005 HR 105' To 115' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	254.46	
For Each CY Of Concrete Pumped, Add	1.50	
03 37 16 00-0006 HR 120' To 130' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	280.81	
For Each CY Of Concrete Pumped, Add	1.75	
03 37 16 00-0007 HR 135' To 140' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	336.63	
03 37 16 00-0008 HR 148' To 155' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	369.93	
03 37 16 00-0009 HR 170' To 175' Boom Truck For Concrete Placement (182 CY Per Hour Rating)	450.59	
For Each CY Of Concrete Pumped, Add	2.25	
03 37 16 00-0010 HR 35 CY/HR, 66 HP Trailer Mounted Concrete Pump	123.01	
Note: Includes hoses		
03 39 Concrete Curing (03 39)		
03 39 13 Water Concrete Curing (03 39)		
03 39 13 00-0001 Water Concrete Curing (03 39 13)		
03 39 13 00-0002 SF Water Based Curing, Sealing, Hardening And Dustproofing Compound	0.33	
Note: Coverage rates: rough finish = 300 SF/GAL, broom finish = 300 to 400 SF/GAL, steel troweled = 500 to 600 SF/GAL, and vertical surface = 400 - 500 SF/GAL.		
03 39 23 Membrane Concrete Curing (03 39)		
03 39 23 23 Sheet Membrane Concrete Curing (03 39 23)		
03 39 23 23-0001 Warm Weather Concrete Curing Blankets (03 39 23 23)		
03 39 23 23-0002 CSF Warm Weather Concrete Curing Blankets	31.36	
03 39 23 23-0003 Cold Weather Concrete Curing Blankets (03 39 23 23)		
03 39 23 23-0004 CSF Electric, Cold Weather Concrete Curing Blanket	284.53	
03 39 23 23-0005 CSF Non-Electric, Cold Weather Concrete Curing Blanket	34.52	
03 40 Precast Concrete (03)		
Note: Precast concrete material prices are based on a precast operation producing large quantities of precast products. Includes the concrete panel, delivery to construction site and overhead/mobilization charges for the precast plant.		
03 41 Precast Structural Concrete (03 40)		
03 41 16 Precast Concrete Slabs (03 41)		
03 41 16 00-0001 Flat Floor Slab/Floor Plank (03 41 16)		
03 41 16 00-0002 Erection Costs For Using A 90 Ton Crawler Crane (03 41 16 00-0001)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 16 00-0003 EA Erect Precast Floor Deck, 0-2 Ton/Piece 150' Maximum Radius With 90 Ton Crane	340.98	272.81
03 41 16 00-0004 EA Erect Precast Floor Deck, 2-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	379.05	303.19
03 41 16 00-0005 EA Erect Precast Floor Deck, 3-4 Ton/Piece 105' Maximum Radius With 90 Ton Crane	402.50	321.98
03 41 16 00-0006 EA Erect Precast Floor Deck, 4-5 Ton/Piece 88' Maximum Radius With 90 Ton Crane	426.69	341.37
03 41 16 00-0007 EA Erect Precast Floor Deck, 5-6 Ton/Piece 82' Maximum Radius With 90 Ton Crane	456.64	365.29
03 41 16 00-0008 EA Erect Precast Floor Deck, 6-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	488.03	390.43



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 16 00-0009 EA Erect Precast Floor Deck, 7-8 Ton/Piece 70' Maximum Radius With 90 Ton Crane	524.06	419.22
03 41 16 00-0010 EA Erect Precast Floor Deck, 8-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	569.96	455.94
03 41 16 00-0011 EA Erect Precast Floor Deck, 9-10 Ton/Piece 60' Maximum Radius With 90 Ton Crane	619.72	495.84
03 41 16 00-0012 Material Cost <small>(03 41 16 00-0001)</small> Note: Includes cost for 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations cost.		
03 41 16 00-0013 SF 4" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	29.12	
For 3,500 PSI Concrete, Add	0.58	
For 4,000 PSI Concrete, Add	0.87	
For 4,500 PSI Concrete, Add	1.16	
For 5,000 PSI Concrete, Add	1.75	
03 41 16 00-0014 SF 5" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	34.95	
For 3,500 PSI Concrete, Add	0.70	
For 4,000 PSI Concrete, Add	1.05	
For 4,500 PSI Concrete, Add	1.40	
For 5,000 PSI Concrete, Add	2.10	
03 41 16 00-0015 SF 6" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	42.71	
For 3,500 PSI Concrete, Add	0.85	
For 4,000 PSI Concrete, Add	1.28	
For 4,500 PSI Concrete, Add	1.71	
For 5,000 PSI Concrete, Add	2.56	
03 41 16 00-0016 SF 8" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	56.69	
For 3,500 PSI Concrete, Add	1.13	
For 4,000 PSI Concrete, Add	1.70	
For 4,500 PSI Concrete, Add	2.27	
For 5,000 PSI Concrete, Add	3.40	
03 41 16 00-0017 Floor Units, Combination Beam And Slab <small>(03 41 16)</small>		
03 41 16 00-0018 Erection Costs For Using 90 Ton Crawler Crane <small>(03 41 16 00-0017)</small> Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 16 00-0019 EA Erect Precast Comb Deck, 0-5 Ton/Piece Beam And Slab, 88' Maximum Radius With 90 Ton Crane	418.51	334.80
03 41 16 00-0020 EA Erect Precast Comb Deck, 5-10 Ton/Piece Beam And Slab, 60' Maximum Radius With 90 Ton Crane	456.16	364.97
03 41 16 00-0021 EA Erect Precast Comb Deck, 10-15 Ton/Piece Beam And Slab, 43' Maximum Radius With 90 Ton Crane	504.17	403.29
03 41 16 00-0022 EA Erect Precast Comb Deck, 15-20 Ton/Piece Beam And Slab, 36' Maximum Radius With 90 Ton Crane	559.82	447.83
03 41 16 00-0023 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 31' Maximum Radius With 90 Ton Crane	629.30	503.39
03 41 16 00-0024 Erection Costs Using A 125 Ton Crawler Crane <small>(03 41 16 00-0017)</small> Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 16 00-0025 EA Erect Precast Comb Deck, 0-5 Ton/Piece Beam And Slab, 110' Maximum Radius, 125 Ton Crane	534.80	427.86
03 41 16 00-0026 EA Erect Precast Comb Deck, 5-10 Ton/Piece Beam And Slab, 75' Maximum Radius, 125 Ton Crane	582.90	466.28
03 41 16 00-0027 EA Erect Precast Comb Deck, 10-15 Ton/Piece Beam And Slab, 55' Maximum Radius, 125 Ton Crane.....	644.26	515.44
03 41 16 00-0028 EA Erect Precast Comb Deck, 15-20 Ton/Piece Beam And Slab, 50' Maximum Radius, 125 Ton Crane.....	715.38	572.32
03 41 16 00-0029 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 40' Maximum Radius, 125 Ton Crane.....	804.15	643.38
03 41 16 00-0030 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 33' Maximum Radius, 125 Ton Crane.....	874.35	699.43
03 41 16 00-0031 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 30' Maximum Radius, 125 Ton Crane.....	966.39	773.10
03 41 16 00-0032 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 28' Maximum Radius, 125 Ton Crane.....	1,069.59	855.73
03 41 16 00-0033 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 26' Maximum Radius, 125 Ton Crane.....	1,210.64	968.51
03 41 16 00-0034 Material Cost <small>(03 41 16 00-0017)</small> Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operation.		
03 41 16 00-0035 4" Slab <small>(03 41 16 00-0034)</small>		
03 41 16 00-0036 CY Precast Combination Deck, 4" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	3,067.63	
For 3,500 PSI Concrete, Add	61.35	
For 4,000 PSI Concrete, Add	92.03	
For 4,500 PSI Concrete, Add	122.71	
For 5,000 PSI Concrete, Add	184.06	
03 41 16 00-0037 CY Precast Combination Deck, 4" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	3,106.46	
For 3,500 PSI Concrete, Add	62.13	
For 4,000 PSI Concrete, Add	93.19	
For 4,500 PSI Concrete, Add	124.26	
For 5,000 PSI Concrete, Add	186.39	
03 41 16 00-0038 CY Precast Combination Deck, 4" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	3,494.77	
For 3,500 PSI Concrete, Add	69.90	
For 4,000 PSI Concrete, Add	104.84	
For 4,500 PSI Concrete, Add	139.79	
For 5,000 PSI Concrete, Add	209.69	
03 41 16 00-0039 5" Slab <small>(03 41 16 00-0034)</small>		
03 41 16 00-0040 CY Precast Combination Deck, 5" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	3,145.29	
For 3,500 PSI Concrete, Add	62.91	
For 4,000 PSI Concrete, Add	94.36	
For 4,500 PSI Concrete, Add	125.81	
For 5,000 PSI Concrete, Add	188.72	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 16 00-0041	CY		Precast Combination Deck, 5" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	3,261.78	
			<i>For 3,500 PSI Concrete, Add</i>	65.24	
			<i>For 4,000 PSI Concrete, Add</i>	97.85	
			<i>For 4,500 PSI Concrete, Add</i>	130.47	
			<i>For 5,000 PSI Concrete, Add</i>	195.71	
03 41 16 00-0042	CY		Precast Combination Deck, 5" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	4,154.89	
			<i>For 3,500 PSI Concrete, Add</i>	83.10	
			<i>For 4,000 PSI Concrete, Add</i>	124.65	
			<i>For 4,500 PSI Concrete, Add</i>	166.20	
			<i>For 5,000 PSI Concrete, Add</i>	249.29	
03 41 16 00-0043			6" Slab <small>(03 41 16 00-0034)</small>		
03 41 16 00-0044	CY		Precast Combination Deck, 6" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	3,261.78	
			<i>For 3,500 PSI Concrete, Add</i>	65.24	
			<i>For 4,000 PSI Concrete, Add</i>	97.85	
			<i>For 4,500 PSI Concrete, Add</i>	130.47	
			<i>For 5,000 PSI Concrete, Add</i>	195.71	
03 41 16 00-0045	CY		Precast Combination Deck, 6" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	3,883.07	
			<i>For 3,500 PSI Concrete, Add</i>	77.66	
			<i>For 4,000 PSI Concrete, Add</i>	116.49	
			<i>For 4,500 PSI Concrete, Add</i>	155.32	
			<i>For 5,000 PSI Concrete, Add</i>	232.98	
03 41 16 00-0046	CY		Precast Combination Deck, 6" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	4,737.35	
			<i>For 3,500 PSI Concrete, Add</i>	94.75	
			<i>For 4,000 PSI Concrete, Add</i>	142.12	
			<i>For 4,500 PSI Concrete, Add</i>	189.49	
			<i>For 5,000 PSI Concrete, Add</i>	284.24	
03 41 19			Precast Concrete Wall Panels <small>(03 41)</small>		
03 41 19 00-0001			Structural Wall Panels <small>(03 41 19)</small>		
			Note: Gray, smooth form or board finish one side.		
03 41 19 00-0002			Erection Cost Using 50 Ton Hydraulic Crane <small>(03 41 19 00-0001)</small>		
			Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.		
03 41 19 00-0003	EA		Erect Precast Wall Panel 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	338.92	271.16
03 41 19 00-0004	EA		Erect Precast Wall Panel 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	376.76	301.36
03 41 19 00-0005	EA		Erect Precast Wall Panel 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	424.11	339.31
03 41 19 00-0006	EA		Erect Precast Wall Panel 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	453.88	363.08
03 41 19 00-0007	EA		Erect Precast Wall Panel 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane.....	485.08	388.07
03 41 19 00-0008	EA		Erect Precast Wall Panel 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane.....	520.89	416.69
03 41 19 00-0009	EA		Erect Precast Wall Panel 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	566.52	453.19
03 41 19 00-0010	EA		Erect Precast Wall Panel 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane.....	615.98	492.85
03 41 19 00-0011			Erection Cost Using 90 Ton Crawler Crane <small>(03 41 19 00-0001)</small>		
			Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.		
03 41 19 00-0012	EA		Erect Precast Wall Panel 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane.....	376.48	301.15
03 41 19 00-0013	EA		Erect Precast Wall Panel 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	418.51	334.80
03 41 19 00-0014	EA		Erect Precast Wall Panel 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane.....	471.12	376.95
03 41 19 00-0015	EA		Erect Precast Wall Panel 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	504.17	403.29
03 41 19 00-0016	EA		Erect Precast Wall Panel 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	538.84	431.07
03 41 19 00-0017	EA		Erect Precast Wall Panel 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane.....	578.61	462.92
03 41 19 00-0018	EA		Erect Precast Wall Panel 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane.....	629.30	503.39
03 41 19 00-0019	EA		Erect Precast Wall Panel 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane.....	684.23	547.34
03 41 19 00-0020	EA		Erect Precast Wall Panel 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane.....	756.26	605.05
03 41 19 00-0021	EA		Erect Precast Wall Panel 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane.....	837.03	669.59
03 41 19 00-0022	EA		Erect Precast Wall Panel 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane.....	947.40	757.96
03 41 19 00-0023	EA		Erect Precast Wall Panel 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane.....	1,077.67	862.13
03 41 19 00-0024	EA		Erect Precast Wall Panel 35-40 Ton/Piece 23' Maximum Radius With 90 Ton Crane.....	1,249.47	999.59
03 41 19 00-0025			Material Cost <small>(03 41 19 00-0001)</small>		
			Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations.		
03 41 19 00-0026	SF		4" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	38.83	
			<i>For 3,500 PSI Concrete, Add</i>	0.78	
			<i>For 4,000 PSI Concrete, Add</i>	1.16	
			<i>For 4,500 PSI Concrete, Add</i>	1.55	
			<i>For 5,000 PSI Concrete, Add</i>	2.33	
			<i>For White Facing, Add</i>	7.77	
			<i>For Solid White Through Thickness, Add</i>	7.77	
			<i>For Broken Rib Finish, Add</i>	3.88	
			<i>For Fluted Surface, Add</i>	3.88	
			<i>For Exposed Aggregate, Add</i>	7.77	
			<i>For Sandblasting Of Surface, Add</i>	3.88	
			<i>For 2" Polystyrene Insulation, Add</i>	1.15	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0027 SF 5" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	47.76	
For 3,500 PSI Concrete, Add	0.96	
For 4,000 PSI Concrete, Add	1.43	
For 4,500 PSI Concrete, Add	1.91	
For 5,000 PSI Concrete, Add	2.87	
For White Facing, Add	9.55	
For Solid White Through Thickness, Add	9.55	
For Broken Rib Finish, Add	4.78	
For Fluted Surface, Add	4.78	
For Exposed Aggregate, Add	9.55	
For Sandblasting Of Surface, Add	4.78	
For 2" Polystyrene Insulation, Add	1.15	
03 41 19 00-0028 SF 6" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	57.47	
For 3,500 PSI Concrete, Add	1.15	
For 4,000 PSI Concrete, Add	1.72	
For 4,500 PSI Concrete, Add	2.30	
For 5,000 PSI Concrete, Add	3.45	
For White Facing, Add	11.49	
For Solid White Through Thickness, Add	11.49	
For Broken Rib Finish, Add	5.75	
For Fluted Surface, Add	5.75	
For Exposed Aggregate, Add	11.49	
For Sandblasting Of Surface, Add	5.75	
For 2" Polystyrene Insulation, Add	1.15	
03 41 19 00-0029 SF 8" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	75.72	
For 3,500 PSI Concrete, Add	1.51	
For 4,000 PSI Concrete, Add	2.27	
For 4,500 PSI Concrete, Add	3.03	
For 5,000 PSI Concrete, Add	4.54	
For White Facing, Add	15.14	
For Solid White Through Thickness, Add	15.14	
For Broken Rib Finish, Add	7.57	
For Fluted Surface, Add	7.57	
For Exposed Aggregate, Add	15.14	
For Sandblasting Of Surface, Add	7.57	
For 2" Polystyrene Insulation, Add	1.15	
03 41 19 00-0030 Partition Panels (03 41 19)		
03 41 19 00-0031 Erection Costs Using 20 Ton Hydraulic Crane (03 41 19 00-0030)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0032 EA Erect Precast Partition Wall 0-1 Ton/Piece 69' Maximum Radius With 20 Ton Crane.....	268.14	214.47
03 41 19 00-0033 EA Erect Precast Partition Wall 1-2 Ton/Piece 50' Maximum Radius With 20 Ton Crane.....	298.07	238.48
03 41 19 00-0034 EA Erect Precast Partition Wall 2-3 Ton/Piece 41' Maximum Radius With 20 Ton Crane.....	335.54	268.42
03 41 19 00-0035 EA Erect Precast Partition Wall 3-4 Ton/Piece 33' Maximum Radius With 20 Ton Crane.....	383.77	307.01
03 41 19 00-0036 EA Erect Precast Partition Wall 4-5 Ton/Piece 30' Maximum Radius With 20 Ton Crane.....	412.10	329.71
03 41 19 00-0037 EA Erect Precast Partition Wall 5-6 Ton/Piece 26' Maximum Radius With 20 Ton Crane.....	448.20	358.55
03 41 19 00-0038 EA Erect Precast Partition Wall 6-7 Ton/Piece 23' Maximum Radius With 20 Ton Crane.....	487.33	389.91
03 41 19 00-0039 EA Erect Precast Partition Wall 7-8 Ton/Piece 20' Maximum Radius With 20 Ton Crane.....	538.63	430.92
03 41 19 00-0040 Erection Costs Using 50 Ton Hydraulic Crane (03 41 19 00-0030)		
Note: Includes handling, hoisting in place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.		
03 41 19 00-0041 EA Erect Precast Partition Wall 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	338.92	271.16
03 41 19 00-0042 EA Erect Precast Partition Wall 1-2 Ton/Piece 82' Maximum Radius With 50 Ton Crane.....	376.76	301.36
03 41 19 00-0043 EA Erect Precast Partition Wall 2-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	424.11	339.31
03 41 19 00-0044 EA Erect Precast Partition Wall 3-4 Ton/Piece 57' Maximum Radius With 50 Ton Crane.....	485.08	388.07
03 41 19 00-0045 EA Erect Precast Partition Wall 4-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	520.89	416.69
03 41 19 00-0046 EA Erect Precast Partition Wall 5-6 Ton/Piece 44' Maximum Radius With 50 Ton Crane.....	566.52	453.19
03 41 19 00-0047 EA Erect Precast Partition Wall 6-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	615.98	492.85
03 41 19 00-0048 EA Erect Precast Partition Wall 7-8 Ton/Piece 36' Maximum Radius With 50 Ton Crane.....	680.82	544.63
03 41 19 00-0049 EA Erect Precast Partition Wall 8-10 Ton/Piece 31' Maximum Radius With 50 Ton Crane.....	753.52	602.84
03 41 19 00-0050 EA Erect Precast Partition Wall 10-12 Ton/Piece 26' Maximum Radius With 50 Ton Crane.....	852.90	682.27
03 41 19 00-0051 EA Erect Precast Partition Wall 12-14 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	970.17	776.13
03 41 19 00-0052 EA Erect Precast Partition Wall 14-16 Ton/Piece 21' Maximum Radius With 50 Ton Crane.....	1,124.83	899.83
03 41 19 00-0053 Material Cost (03 41 19 00-0030)		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations.		
03 41 19 00-0054 SF 4" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	36.89	
For 4,000 PSI Concrete, Add	1.11	
For 4,500 PSI Concrete, Add	1.48	
For 5,000 PSI Concrete, Add	2.21	
For White Facing, Add	7.38	
For Solid White Through Thickness, Add	7.38	
For Broken Rib Finish, Add	3.69	
For Fluted Surface, Add	3.69	
For Exposed Aggregate, Add	7.38	
For Sandblasting Of Surface, Add	3.69	

03	Concrete
03 40	Precast Concrete
03 41	Precast Structural Concrete



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0055 SF 5" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	45.43	
For 4,000 PSI Concrete, Add	1.36	
For 4,500 PSI Concrete, Add	1.82	
For 5,000 PSI Concrete, Add	2.73	
For White Facing, Add	9.09	
For Solid White Through Thickness, Add	9.09	
For Broken Rib Finish, Add	4.54	
For Fluted Surface, Add	4.54	
For Exposed Aggregate, Add	9.09	
For Sandblasting Of Surface, Add	4.54	
03 41 19 00-0056 SF 6" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	54.36	
For 4,000 PSI Concrete, Add	1.63	
For 4,500 PSI Concrete, Add	2.17	
For 5,000 PSI Concrete, Add	3.26	
For White Facing, Add	10.87	
For Solid White Through Thickness, Add	10.87	
For Broken Rib Finish, Add	5.44	
For Fluted Surface, Add	5.44	
For Exposed Aggregate, Add	10.87	
For Sandblasting Of Surface, Add	5.44	
03 41 19 00-0057 SF 8" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	71.84	
For 4,000 PSI Concrete, Add	2.16	
For 4,500 PSI Concrete, Add	2.87	
For 5,000 PSI Concrete, Add	4.31	
For White Facing, Add	14.37	
For Solid White Through Thickness, Add	14.37	
For Broken Rib Finish, Add	7.18	
For Fluted Surface, Add	7.18	
For Exposed Aggregate, Add	14.37	
For Sandblasting Of Surface, Add	7.18	
03 41 19 00-0058 Cladding Panels (03 41 19)		
03 41 19 00-0059 Erection Costs Using 50 Ton Hydraulic Crane (03 41 19 00-0058)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0060 EA Erect Precast Cladding 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	357.66	286.08
03 41 19 00-0061 EA Erect Precast Cladding 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	400.07	320.03
03 41 19 00-0062 EA Erect Precast Cladding 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	453.88	363.08
03 41 19 00-0063 EA Erect Precast Cladding 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	485.08	388.07
03 41 19 00-0064 EA Erect Precast Cladding 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane.....	520.89	416.69
03 41 19 00-0065 EA Erect Precast Cladding 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane.....	566.52	453.19
03 41 19 00-0066 EA Erect Precast Cladding 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	615.98	492.85
03 41 19 00-0067 EA Erect Precast Cladding 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane.....	680.82	544.63
03 41 19 00-0068 Erection Costs Using 90 Ton Crawler Crane (03 41 19 00-0058)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0069 EA Erect Precast Cladding 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane.....	397.29	317.79
03 41 19 00-0070 EA Erect Precast Cladding 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	444.40	355.51
03 41 19 00-0071 EA Erect Precast Cladding 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane.....	504.17	403.29
03 41 19 00-0072 EA Erect Precast Cladding 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	538.84	431.07
03 41 19 00-0073 EA Erect Precast Cladding 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	578.61	462.92
03 41 19 00-0074 EA Erect Precast Cladding 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane.....	629.30	503.39
03 41 19 00-0075 EA Erect Precast Cladding 11-13 Ton/Piece 90' Maximum Radius With 90 Ton Crane.....	684.23	547.34
03 41 19 00-0076 EA Erect Precast Cladding 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane.....	756.26	605.05
03 41 19 00-0077 EA Erect Precast Cladding 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane.....	837.03	669.59
03 41 19 00-0078 EA Erect Precast Cladding 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane.....	947.40	757.96
03 41 19 00-0079 EA Erect Precast Cladding 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane.....	1,077.67	862.13
03 41 19 00-0080 EA Erect Precast Cladding 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane.....	1,249.47	999.59
03 41 19 00-0081 Material Cost (03 41 19 00-0058)		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations.		
03 41 19 00-0082 SF 4" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	36.89	
For 3,500 PSI Concrete, Add	0.74	
For 4,000 PSI Concrete, Add	1.11	
For 4,500 PSI Concrete, Add	1.48	
For 5,000 PSI Concrete, Add	2.21	
For White Facing, Add	7.38	
For Solid White Through Thickness, Add	7.38	
For Broken Rib Finish, Add	3.69	
For Fluted Surface, Add	3.69	
For Exposed Aggregate, Add	7.38	
For Sandblasting Of Surface, Add	3.69	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0083 SF 5" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	45.43	
For 3,500 PSI Concrete, Add	0.91	
For 4,000 PSI Concrete, Add	1.36	
For 4,500 PSI Concrete, Add	1.82	
For 5,000 PSI Concrete, Add	2.73	
For White Facing, Add	9.09	
For Solid White Through Thickness, Add	9.09	
For Broken Rib Finish, Add	4.54	
For Fluted Surface, Add	4.54	
For Exposed Aggregate, Add	9.09	
For Sandblasting Of Surface, Add	4.54	
03 41 19 00-0084 SF 6" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	54.36	
For 3,500 PSI Concrete, Add	1.09	
For 4,000 PSI Concrete, Add	1.63	
For 4,500 PSI Concrete, Add	2.17	
For 5,000 PSI Concrete, Add	3.26	
For White Facing, Add	10.87	
For Solid White Through Thickness, Add	10.87	
For Broken Rib Finish, Add	5.44	
For Fluted Surface, Add	5.44	
For Exposed Aggregate, Add	10.87	
For Sandblasting Of Surface, Add	5.44	
03 41 19 00-0085 SF 8" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	71.84	
For 3,500 PSI Concrete, Add	1.44	
For 4,000 PSI Concrete, Add	2.16	
For 4,500 PSI Concrete, Add	2.87	
For 5,000 PSI Concrete, Add	4.31	
For White Facing, Add	14.37	
For Solid White Through Thickness, Add	14.37	
For Broken Rib Finish, Add	7.18	
For Fluted Surface, Add	7.18	
For Exposed Aggregate, Add	14.37	
For Sandblasting Of Surface, Add	7.18	
03 41 19 00-0086 Sandwich Panel (03 41 19)		
03 41 19 00-0087 Erection Costs Using 50 Ton Hydraulic Crane (03 41 19 00-0086)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0088 EA Erect Precast Sandwich Panel 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane	357.66	286.08
03 41 19 00-0089 EA Erect Precast Sandwich Panel 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane	400.07	320.03
03 41 19 00-0090 EA Erect Precast Sandwich Panel 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane	453.88	363.08
03 41 19 00-0091 EA Erect Precast Sandwich Panel 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane	485.08	388.07
03 41 19 00-0092 EA Erect Precast Sandwich Panel 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane	520.89	416.69
03 41 19 00-0093 EA Erect Precast Sandwich Panel 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane	566.52	453.19
03 41 19 00-0094 EA Erect Precast Sandwich Panel 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane	615.98	492.85
03 41 19 00-0095 EA Erect Precast Sandwich Panel 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane	680.82	544.63
03 41 19 00-0096 Erection Costs Using 90 Ton Crawler Crane (03 41 19 00-0086)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0097 EA Erect Precast Sandwich Panel 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane	359.83	287.82
03 41 19 00-0098 EA Erect Precast Sandwich Panel 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	402.50	321.98
03 41 19 00-0099 EA Erect Precast Sandwich Panel 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	456.64	365.29
03 41 19 00-0100 EA Erect Precast Sandwich Panel 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	488.03	390.43
03 41 19 00-0101 EA Erect Precast Sandwich Panel 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	524.06	419.22
03 41 19 00-0102 EA Erect Precast Sandwich Panel 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane	569.96	455.94
03 41 19 00-0103 EA Erect Precast Sandwich Panel 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane	619.72	495.84
03 41 19 00-0104 EA Erect Precast Sandwich Panel 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane	684.96	547.94
03 41 19 00-0105 EA Erect Precast Sandwich Panel 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane	758.10	606.50
03 41 19 00-0106 EA Erect Precast Sandwich Panel 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane	858.08	686.41
03 41 19 00-0107 EA Erect Precast Sandwich Panel 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane	976.06	780.85
03 41 19 00-0108 EA Erect Precast Sandwich Panel 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane	1,131.66	905.30
03 41 19 00-0109 Material Cost (03 41 19 00-0086)		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations. Sandwich panel consists of 2.5" cladding panel, 2" fiber board insulation and the structural panel as defined.		
03 41 19 00-0110 SF 4" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	50.48	
For 3,500 PSI Concrete, Add	1.01	
For 4,000 PSI Concrete, Add	1.51	
For 4,500 PSI Concrete, Add	2.02	
For 5,000 PSI Concrete, Add	3.03	
For White Facing, Add	10.10	
For Solid White Through Thickness, Add	10.10	
For Broken Rib Finish, Add	5.05	
For Fluted Surface, Add	5.05	
For Exposed Aggregate, Add	10.10	
For Sandblasting Of Surface, Add	5.05	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0111 SF 5" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	59.41	
For 3,500 PSI Concrete, Add	1.19	
For 4,000 PSI Concrete, Add	1.78	
For 4,500 PSI Concrete, Add	2.38	
For 5,000 PSI Concrete, Add	3.56	
For White Facing, Add	11.88	
For Solid White Through Thickness, Add	11.88	
For Broken Rib Finish, Add	5.94	
For Fluted Surface, Add	5.94	
For Exposed Aggregate, Add	11.88	
For Sandblasting Of Surface, Add	5.94	
03 41 19 00-0112 SF 6" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	69.12	
For 3,500 PSI Concrete, Add	1.38	
For 4,000 PSI Concrete, Add	2.07	
For 4,500 PSI Concrete, Add	2.76	
For 5,000 PSI Concrete, Add	4.15	
For White Facing, Add	13.82	
For Solid White Through Thickness, Add	13.82	
For Broken Rib Finish, Add	6.91	
For Fluted Surface, Add	6.91	
For Exposed Aggregate, Add	13.82	
For Sandblasting Of Surface, Add	6.91	
03 41 19 00-0113 SF 8" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	87.37	
For 3,500 PSI Concrete, Add	1.75	
For 4,000 PSI Concrete, Add	2.62	
For 4,500 PSI Concrete, Add	3.49	
For 5,000 PSI Concrete, Add	5.24	
For White Facing, Add	17.47	
For Solid White Through Thickness, Add	17.47	
For Broken Rib Finish, Add	8.74	
For Fluted Surface, Add	8.74	
For Exposed Aggregate, Add	17.47	
For Sandblasting Of Surface, Add	8.74	

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

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

03 41 23 00-0002 EA Erect Precast Stairs, 0-2 Ton/Piece 82' Maximum Radius With 50 Ton Crane.....	376.76	301.36
03 41 23 00-0003 EA Erect Precast Stairs, 2-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	400.07	320.03
03 41 23 00-0004 EA Erect Precast Stairs, 3-4 Ton/Piece 57' Maximum Radius With 50 Ton Crane.....	424.11	339.31
03 41 23 00-0005 EA Erect Precast Stairs, 4-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	453.88	363.08
03 41 23 00-0006 EA Erect Precast Stairs, 5-6 Ton/Piece 44' Maximum Radius With 50 Ton Crane.....	485.08	388.07
03 41 23 00-0007 EA Erect Precast Stairs, 6-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	520.89	416.69
03 41 23 00-0008 EA Erect Precast Stairs, 7-8 Ton/Piece 36' Maximum Radius With 50 Ton Crane.....	566.52	453.19
03 41 23 00-0009 EA Erect Precast Stairs, 8-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane.....	615.98	492.85

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

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

03 41 23 00-0011 EA Erect Precast Stairs, 0-2 Ton/Piece 151' Maximum Radius With 90 Ton Crane.....	376.76	301.36
03 41 23 00-0012 EA Erect Precast Stairs, 2-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	400.07	320.03
03 41 23 00-0013 EA Erect Precast Stairs, 3-4 Ton/Piece 105' Maximum Radius With 90 Ton Crane.....	424.11	339.31
03 41 23 00-0014 EA Erect Precast Stairs, 4-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane.....	453.88	363.08
03 41 23 00-0015 EA Erect Precast Stairs, 5-6 Ton/Piece 82' Maximum Radius With 90 Ton Crane.....	485.08	388.07
03 41 23 00-0016 EA Erect Precast Stairs, 6-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	520.89	416.69
03 41 23 00-0017 EA Erect Precast Stairs, 7-8 Ton/Piece 70' Maximum Radius With 90 Ton Crane.....	566.52	453.19
03 41 23 00-0018 EA Erect Precast Stairs, 8-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	615.98	492.85

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

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

03 41 23 00-0020 EA 3' Wide With 10-1/2" Depth Treads Precast Concrete Stair Unit, Per Riser.....	778.21	
For 3,500 PSI Concrete, Add	101.56	
For 4,000 PSI Concrete, Add	190.82	
For 4,500 PSI Concrete, Add	280.47	
For 5,000 PSI Concrete, Add	381.56	

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

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

03 41 26 00-0003 EA Erect Precast Structural Sections, 0-5 Ton/Piece Beam, Girder, Joist; 89' Maximum Radius, 90 Ton Crane	471.12	376.95
03 41 26 00-0004 EA Erect Precast Structural Sections, 5-10 Ton/Piece Beam, Girder, Joist; 60' Maximum Radius, 90 Ton Crane	504.17	403.29
03 41 26 00-0005 EA Erect Precast Structural Sections, 10-15 Ton/Piece Beam, Girder, Joist; 43' Maximum Radius, 90 Ton Crane.....	538.84	431.07
03 41 26 00-0006 EA Erect Precast Structural Sections, 15-20 Ton/Piece Beam, Girder, Joist; 36' Maximum Radius, 90 Ton Crane.....	578.61	462.92



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 26 00-0007 Erection Costs Using A 125 Ton Crawler Crane <small>(03 41 26 00-0001)</small>		
<small>Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.</small>		
03 41 26 00-0008 EA Erect Precast Structural Sections, 0-5 Ton/Piece Beam, Girder, Joist; 110' Maximum Radius, 125 Ton Crane	602.01	481.57
03 41 26 00-0009 EA Erect Precast Structural Sections, 5-10 Ton/Piece Beam, Girder, Joist; 75' Maximum Radius, 125 Ton Crane	644.26	515.44
03 41 26 00-0010 EA Erect Precast Structural Sections, 10-15 Ton/Piece Beam, Girder, Joist; 55' Maximum Radius, 125 Ton Crane	688.55	550.83
03 41 26 00-0011 EA Erect Precast Structural Sections, 15-20 Ton/Piece Beam, Girder, Joist; 50' Maximum Radius, 125 Ton Crane	739.38	591.46
03 41 26 00-0012 EA Erect Precast Structural Sections, 20-25 Ton/Piece Beam, Girder, Joist; 40' Maximum Radius, 125 Ton Crane	804.15	643.38
03 41 26 00-0013 EA Erect Precast Structural Sections, 25-30 Ton/Piece Beam, Girder, Joist; 33' Maximum Radius, 125 Ton Crane	874.35	699.43
03 41 26 00-0014 EA Erect Precast Structural Sections, 30-35 Ton/Piece Beam, Girder, Joist; 30' Maximum Radius, 125 Ton Crane	966.39	773.10
03 41 26 00-0015 EA Erect Precast Structural Sections, 35-40 Ton/Piece Beam, Girder, Joist; 28' Maximum Radius, 125 Ton Crane	1,069.59	855.73
 03 41 26 00-0016 Material Cost <small>(03 41 26 00-0001)</small>		
<small>Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations.</small>		
03 41 26 00-0017 1,000 LB/LF Live Load <small>(03 41 26 00-0016)</small>		
03 41 26 00-0018 LF Precast Structural Sections, 1,000 LB/LF, 15' Span Live Load, Span, 3,000 PSI.....	155.62	
For 3,500 PSI Concrete, Add	4.25	
For 4,000 PSI Concrete, Add	6.38	
For 4,500 PSI Concrete, Add	8.50	
For 5,000 PSI Concrete, Add	12.76	
03 41 26 00-0019 LF Precast Structural Sections, 1,000 LB/LF, 20' Span Live Load, Span, 3,000 PSI.....	194.52	
For 3,500 PSI Concrete, Add	5.31	
For 4,000 PSI Concrete, Add	7.98	
For 4,500 PSI Concrete, Add	10.62	
For 5,000 PSI Concrete, Add	15.95	
03 41 26 00-0020 LF Precast Structural Sections, 1,000 LB/LF, 30' Span Live Load, Span, 3,000 PSI.....	233.43	
For 3,500 PSI Concrete, Add	6.37	
For 4,000 PSI Concrete, Add	9.57	
For 4,500 PSI Concrete, Add	12.75	
For 5,000 PSI Concrete, Add	19.14	
 03 41 26 00-0021 3,000 LB/LF Live Load <small>(03 41 26 00-0016)</small>		
03 41 26 00-0022 LF Precast Structural Sections, 3,000 LB/LF, 15' Span Live Load, Span, 3,000 PSI.....	194.52	
For 3,500 PSI Concrete, Add	5.31	
For 4,000 PSI Concrete, Add	7.98	
For 4,500 PSI Concrete, Add	10.62	
For 5,000 PSI Concrete, Add	15.95	
03 41 26 00-0023 LF Precast Structural Sections, 3,000 LB/LF, 20' Span Live Load, Span, 3,000 PSI.....	233.43	
For 3,500 PSI Concrete, Add	6.37	
For 4,000 PSI Concrete, Add	9.57	
For 4,500 PSI Concrete, Add	12.75	
For 5,000 PSI Concrete, Add	19.14	
03 41 26 00-0024 LF Precast Structural Sections, 3,000 LB/LF, 30' Span Live Load, Span, 3,000 PSI.....	311.24	
For 3,500 PSI Concrete, Add	8.50	
For 4,000 PSI Concrete, Add	12.76	
For 4,500 PSI Concrete, Add	16.99	
For 5,000 PSI Concrete, Add	25.52	
 03 41 26 00-0025 5,000 LB/LF Live Load <small>(03 41 26 00-0016)</small>		
03 41 26 00-0026 LF Precast Structural Sections, 5,000 LB/LF, 15' Span Live Load, Span, 3,000 PSI.....	272.33	
For 3,500 PSI Concrete, Add	7.43	
For 4,000 PSI Concrete, Add	11.17	
For 4,500 PSI Concrete, Add	14.87	
For 5,000 PSI Concrete, Add	22.33	
03 41 26 00-0027 LF Precast Structural Sections, 5,000 LB/LF, 20' Span Live Load, Span, 3,000 PSI.....	311.24	
For 3,500 PSI Concrete, Add	8.50	
For 4,000 PSI Concrete, Add	12.76	
For 4,500 PSI Concrete, Add	16.99	
For 5,000 PSI Concrete, Add	25.52	
03 41 26 00-0028 LF Precast Structural Sections, 5,000 LB/LF, 30' Span Live Load, Span, 3,000 PSI.....	389.05	
For 3,500 PSI Concrete, Add	10.62	
For 4,000 PSI Concrete, Add	15.95	
For 4,500 PSI Concrete, Add	21.24	
For 5,000 PSI Concrete, Add	31.90	
 03 41 26 00-0029 Precast Concrete Columns <small>(03 41 26)</small>		
03 41 26 00-0030 Erection Costs Using A 90 Ton Crawler Crane <small>(03 41 26 00-0029)</small>		
<small>Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.</small>		
03 41 26 00-0031 EA Erect Precast Concrete Columns, 0-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	273.02	218.39
03 41 26 00-0032 EA Erect Precast Concrete Columns, 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	290.28	232.18
03 41 26 00-0033 EA Erect Precast Concrete Columns, 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	311.10	248.90
03 41 26 00-0034 EA Erect Precast Concrete Columns, 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	333.69	266.95
03 41 26 00-0035 EA Erect Precast Concrete Columns, 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane	359.83	287.82
03 41 26 00-0036 EA Erect Precast Concrete Columns, 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane	390.43	312.34
03 41 26 00-0037 EA Erect Precast Concrete Columns, 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane	426.69	341.37

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

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

03 41 26 00-0038	Material Cost <small>(03 41 26 00-0029)</small>		
	Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast operations.		
03 41 26 00-0039	12" x 12" Column, Square, Tied <small>(03 41 26 00-0038)</small>		
03 41 26 00-0040	CY 12" x 12" Precast Column, Tied, Average Reinforced 351 LB/CY	805.45	
	For 3,500 PSI Concrete, Add	60.41	
	For 4,000 PSI Concrete, Add	113.57	
	For 4,500 PSI Concrete, Add	167.53	
	For 5,000 PSI Concrete, Add	227.94	
03 41 26 00-0041	16" x 16" Column, Square, Tied <small>(03 41 26 00-0038)</small>		
03 41 26 00-0042	CY 16" x 16" Precast Column, Tied, Average Reinforced 368 LB/CY	825.34	
	For 3,500 PSI Concrete, Add	61.90	
	For 4,000 PSI Concrete, Add	116.37	
	For 4,500 PSI Concrete, Add	171.67	
	For 5,000 PSI Concrete, Add	233.57	
03 41 26 00-0043	20" x 20" Column, Square, Tied <small>(03 41 26 00-0038)</small>		
03 41 26 00-0044	CY 20" x 20" Precast Column, Tied, Average Reinforced 357 LB/CY	826.93	
	For 3,500 PSI Concrete, Add	62.02	
	For 4,000 PSI Concrete, Add	116.60	
	For 4,500 PSI Concrete, Add	172.00	
	For 5,000 PSI Concrete, Add	234.02	
03 41 26 00-0045	24" x 24" Column, Square, Tied <small>(03 41 26 00-0038)</small>		
03 41 26 00-0046	CY 24" x 24" Precast Column, Tied, Average Reinforced 365 LB/CY	826.93	
	For 3,500 PSI Concrete, Add	62.02	
	For 4,000 PSI Concrete, Add	116.60	
	For 4,500 PSI Concrete, Add	172.00	
	For 5,000 PSI Concrete, Add	234.02	
03 41 26 00-0047	28" x 28" Column, Square, Tied <small>(03 41 26 00-0038)</small>		
03 41 26 00-0048	CY 28" x 28" Precast Column, Tied, Average Reinforced 347 LB/CY	826.93	
	For 3,500 PSI Concrete, Add	62.02	
	For 4,000 PSI Concrete, Add	116.60	
	For 4,500 PSI Concrete, Add	172.00	
	For 5,000 PSI Concrete, Add	234.02	
03 41 26 00-0049	32" x 32" Column, Square, Tied <small>(03 41 26 00-0038)</small>		
03 41 26 00-0050	CY 32" x 32" Precast Column, Tied, Average Reinforced 351 LB/CY	825.34	
	For 3,500 PSI Concrete, Add	61.90	
	For 4,000 PSI Concrete, Add	116.37	
	For 4,500 PSI Concrete, Add	171.67	
	For 5,000 PSI Concrete, Add	233.57	
03 41 26 00-0051	36" x 36" Column, Square, Tied <small>(03 41 26 00-0038)</small>		
03 41 26 00-0052	CY 36" x 36" Precast Column, Tied, Average Reinforced 278 LB/CY	826.93	
	For 3,500 PSI Concrete, Add	62.02	
	For 4,000 PSI Concrete, Add	116.60	
	For 4,500 PSI Concrete, Add	172.00	
	For 5,000 PSI Concrete, Add	234.02	
03 41 33	Precast Structural Pretensioned Concrete <small>(03 41)</small>		
03 41 33 00-0001	Slabs, Roof And Floor Members <small>(03 41 33)</small>		
03 41 33 00-0002	SF 4" Thick Precast Prestressed Slab, 12-16' Span Roof/Floor	16.53	2.20
03 41 33 00-0003	SF 6" Thick Precast Prestressed Slab, 16-25' Span Roof/Floor	20.58	2.20
03 41 33 00-0004	SF 8" Thick Precast Prestressed Slab, 25-32' Span Roof/Floor	24.64	2.31
03 41 33 00-0005	SF 10" Thick Precast Prestressed Slab, 32-40' Span Roof/Floor	28.72	2.42
03 41 33 00-0006	Tee Members <small>(03 41 33)</small>		
03 41 33 00-0007	Multiple Tee, Roof And Floor <small>(03 41 33 00-0006)</small>		
03 41 33 00-0008	SF Prestressed Multiple Tee, Roof And Floor Members	37.05	2.86
03 41 33 00-0009	Double Tee Wall Member <small>(03 41 33 00-0006)</small>		
03 41 33 00-0010	SF Prestressed Double Tee Wall Members Precast Concrete, <40' Span.....	52.58	7.81
03 41 33 00-0011	Single Tee, Short Span, Roof Members <small>(03 41 33 00-0006)</small>		
03 41 33 00-0012	SF Prestressed Single Tee, Short Span Roof Precast Concrete Members, <40' Span.....	43.60	4.73



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 33 00-0013 Single Tee, Long Span, Roof Members <small>(03 41 33 00-0006)</small>		
03 41 33 00-0014 SF Prestressed Single Tee, Long Span Roof Precast Concrete Members, <40' Span	52.28	4.07
03 41 33 00-0015 Prestressed Concrete Items <small>(03 41 33)</small>		
03 41 33 00-0016 Prestressed Quad Tee <small>(03 41 33 00-0015)</small>		
03 41 33 00-0017 SF Tees, Prestressed Quad Tee, Short Spans, Roof.....	26.80	0.88
03 41 33 00-0018 SF Tees, Prestressed Quad Tee, Short Spans, Floor	27.97	0.88
03 41 33 00-0019 Prestressed Double Tee <small>(03 41 33 00-0015)</small>		
03 41 33 00-0020 SF Tees, Double Tee, Floor Members , 60' Span	44.52	0.77
03 41 33 00-0021 SF Tees, Double Tee, Floor Members , 80' Span	61.30	0.77
03 41 33 00-0022 SF Tees, Double Tee, Roof Members, 30' Span.....	30.41	1.32
03 41 33 00-0023 SF Tees, Double Tee, Roof Members, 50' Span.....	47.07	0.88
03 41 33 00-0024 SF Tees, Double Tee, Wall Members, Up To 55' High.....	32.96	1.76
03 41 33 00-0025 Prestressed Single Tee <small>(03 41 33 00-0015)</small>		
03 41 33 00-0026 SF Tees, Single Tee Roof Members, 40' Span	52.73	1.98
03 41 33 00-0027 SF Tees, Single Tee Roof Members, 80' Span	61.03	1.21
03 41 33 00-0028 SF Tees, Single Tee Roof Members, 100' Span	80.73	1.10
03 41 33 00-0029 SF Tees, Single Tee Roof Members, 120' Span	85.01	1.10
03 41 33 00-0030 Prestressed Double Tee Floor Members <small>(03 41 33 00-0015)</small>		
03 41 33 00-0031 EA Tees, Double Tees, Floor Members, Lightweight, 20" X 8' Wide, 45'	13,625.51	316.84
03 41 33 00-0032 EA Tees, Double Tees, Floor Members, Lightweight, 24" X 8' Wide, 50'	14,836.78	352.05
03 41 33 00-0033 EA Tees, Double Tees, Floor Members, Lightweight, 32" X 10' Wide, 60'	24,813.80	396.06
03 41 33 00-0034 EA Tees, Double Tees, Floor Members, Standard Weight, 12" X 8' Wide, 25'	5,340.61	288.13
03 41 33 00-0035 EA Tees, Double Tees, Floor Members, Standard Weight, 16" X 8' Wide, 25'	7,010.80	316.84
03 41 33 00-0036 EA Tees, Double Tees, Floor Members, Standard Weight, 18" X 8' Wide, 35'	8,956.30	316.84
03 41 33 00-0037 EA Tees, Double Tees, Floor Members, Standard Weight, 20" X 8' Wide, 45'	9,973.03	352.05
03 41 33 00-0038 EA Tees, Double Tees, Floor Members, Standard Weight, 24" X 8' Wide, 50'	12,751.68	396.06
03 41 33 00-0039 EA Tees, Double Tees, Floor Members, Standard Weight, 32" X 10' Wide, 60'	22,939.29	452.83
03 41 33 00-0040 Plant Produced Pretensioned Prestressed Concrete Hollow Core Slab <small>(03 41 33)</small>		
03 41 33 00-0041 SF Hollow Core Slab, 4" Slab, 12' - 16' Spans, Plant Produced Pretensioned Prestressed Concrete	28.30	
03 41 33 00-0042 SF Hollow Core Slab, 6" Slab, 16' - 25' Spans, Plant Produced Pretensioned Prestressed Concrete	29.47	
03 41 33 00-0043 SF Hollow Core Slab, 8" Slab, 25' - 30' Spans, Plant Produced Pretensioned Prestressed Concrete	30.85	
03 41 33 00-0044 SF Hollow Core Slab, 10" Slab, 30' - 35' Spans, Plant Produced Pretensioned Prestressed Concrete	31.88	
03 41 33 00-0045 SF Hollow Core Slab, 12" Slab, 35' - 40' Spans, Plant Produced Pretensioned Prestressed Concrete	34.07	
03 41 33 00-0046 Double And Single Tees <small>(03 41 33)</small>		
03 41 33 00-0047 Double And Single Tees With 16" Roof And Floor Loading <small>(03 41 33 00-0046)</small>		
03 41 33 00-0048 SF Double Tee With 16" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	34.22	
03 41 33 00-0049 SF Double Tee With 16" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	33.41	
03 41 33 00-0050 SF Double Tee With 16" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	31.55	
03 41 33 00-0051 SF Double Tee With 16" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	34.22	
03 41 33 00-0052 SF Double Tee With 16" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	34.11	
03 41 33 00-0053 SF Single Tee With 16" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	52.43	
03 41 33 00-0054 SF Single Tee With 16" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	51.27	
03 41 33 00-0055 SF Single Tee With 16" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	48.01	
03 41 33 00-0056 SF Single Tee With 16" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	52.43	
03 41 33 00-0057 SF Single Tee With 16" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	49.17	
03 41 33 00-0058 Double And Single Tees With 24" Roof And Floor Loading <small>(03 41 33 00-0046)</small>		
03 41 33 00-0059 SF Double Tee With 24" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	35.27	
03 41 33 00-0060 SF Double Tee With 24" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	34.46	
03 41 33 00-0061 SF Double Tee With 24" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	33.30	
03 41 33 00-0062 SF Double Tee With 24" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	35.27	
03 41 33 00-0063 SF Double Tee With 24" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	34.11	
03 41 33 00-0064 SF Single Tee With 24" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	53.83	
03 41 33 00-0065 SF Single Tee With 24" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	52.67	
03 41 33 00-0066 SF Single Tee With 24" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	50.81	
03 41 33 00-0067 SF Single Tee With 24" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	53.83	
03 41 33 00-0068 SF Single Tee With 24" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	52.32	
03 41 33 00-0069 Double And Single Tees With 32" Roof And Floor Loading <small>(03 41 33 00-0046)</small>		
03 41 33 00-0070 SF Double Tee With 32" Roof Load, 50' Span, Pretensioned Prestressed Concrete	37.20	
03 41 33 00-0071 SF Double Tee With 32" Roof Load, 60' Span, Pretensioned Prestressed Concrete	36.03	
03 41 33 00-0072 SF Double Tee With 32" Roof Load, 70' Span, Pretensioned Prestressed Concrete	34.85	

03	Concrete
03 40	Precast Concrete
03 41	Precast Structural Concrete



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 41 33 00-0073	SF	Single Tee With 32" Roof Load, 50' Span, Pretensioned Prestressed Concrete	57.16	
03 41 33 00-0074	SF	Single Tee With 32" Roof Load, 60' Span, Pretensioned Prestressed Concrete	55.29	
03 41 33 00-0075	SF	Single Tee With 32" Roof Load, 70' Span, Pretensioned Prestressed Concrete	53.06	

03 48 Precast Concrete Specialties (03 40)

03 48 16 Precast Concrete Splash Blocks (03 48)

03 48 16 00-0001		Precast Concrete Splash Blocks <small>(03 48 16)</small>		
03 48 16 00-0002	EA	Precast Concrete Splash Blocks, 20" x 12" x 3"	36.16	3.57

03 48 21 Precast Concrete Handrails (03 48)

03 48 21 00-0001		Installation Cost <small>(03 48 21)</small>		
Note: Includes handling, hoisting into place, alignment, and permanent connections. Excludes grouting.				
03 48 21 00-0002	EA	Install Precast Handrails, 0-2 Ton/Handrail	152.55	68.67
03 48 21 00-0003	EA	Install Precast Handrails, Over 2 Ton/Handrail	182.95	82.29

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

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

03 48 21 00-0005	CY	4" Thick 3,000 PSI Concrete Precast Concrete Handrail	3,074.00	
		For 3,500 PSI Concrete, Add	200.58	
		For 4,000 PSI Concrete, Add	376.87	
		For 4,500 PSI Concrete, Add	553.93	
		For 5,000 PSI Concrete, Add	753.59	
03 48 21 00-0006	CY	5" Thick 3,000 PSI Concrete Precast Concrete Handrail	3,190.73	
		For 3,500 PSI Concrete, Add	208.20	
		For 4,000 PSI Concrete, Add	391.18	
		For 4,500 PSI Concrete, Add	574.97	
		For 5,000 PSI Concrete, Add	782.21	
03 48 21 00-0007	CY	6" Thick 3,000 PSI Concrete Precast Concrete Handrail	3,307.46	
		For 3,500 PSI Concrete, Add	215.81	
		For 4,000 PSI Concrete, Add	405.49	
		For 4,500 PSI Concrete, Add	596.00	
		For 5,000 PSI Concrete, Add	810.82	
03 48 21 00-0008	CY	8" Thick 3,000 PSI Concrete Precast Concrete Handrail	3,463.11	
		For 3,500 PSI Concrete, Add	225.97	
		For 4,000 PSI Concrete, Add	424.58	
		For 4,500 PSI Concrete, Add	624.05	
		For 5,000 PSI Concrete, Add	848.98	

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

03 48 22 00-0001		Sun Screen Blades <small>(03 48 22)</small>		
03 48 22 00-0002		Installation Cost <small>(03 48 22 00-0001)</small>		
Note: Includes handling, hoisting into place, alignment, bracing, and permanent connections.				
03 48 22 00-0003	EA	Install Precast Sun Screen Blade, 0-1 Ton/Each	76.27	34.34
03 48 22 00-0004	EA	Install Precast Sun Screen Blade, 1-2 Ton/Each	91.63	41.20
03 48 22 00-0005	EA	Install Precast Sun Screen Blade, 2-3 Ton/Each	114.49	51.56

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

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

03 48 22 00-0007	CY	4" Thick 3,000 PSI Concrete Precast Sun Screen Blades	3,268.55	
		For 3,500 PSI Concrete, Add	213.27	
		For 4,000 PSI Concrete, Add	400.72	
		For 4,500 PSI Concrete, Add	588.99	
		For 5,000 PSI Concrete, Add	801.29	
03 48 22 00-0008	CY	5" Thick 3,000 PSI Concrete Precast Sun Screen Blades	3,385.29	
		For 3,500 PSI Concrete, Add	220.89	
		For 4,000 PSI Concrete, Add	415.04	
		For 4,500 PSI Concrete, Add	610.03	
		For 5,000 PSI Concrete, Add	829.90	
03 48 22 00-0009	CY	6" Thick 3,000 PSI Concrete Precast Sun Screen Blades	3,540.93	
		For 3,500 PSI Concrete, Add	231.05	
		For 4,000 PSI Concrete, Add	434.12	
		For 4,500 PSI Concrete, Add	638.08	
		For 5,000 PSI Concrete, Add	868.06	
03 48 22 00-0010	CY	8" Thick 3,000 PSI Concrete Precast Sun Screen Blades	3,696.58	
		For 3,500 PSI Concrete, Add	241.20	
		For 4,000 PSI Concrete, Add	453.20	
		For 4,500 PSI Concrete, Add	666.12	
		For 5,000 PSI Concrete, Add	906.22	

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

03 48 22 00-0012		Installation Cost Using A 50 Ton Hydraulic Crane <small>(03 48 22 00-0011)</small>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent to connections.				
03 48 22 00-0013	EA	Install Precast Trellis, 0-1 Tons/Unit 100' Maximum Radius With 50 Ton Crane	357.66	160.92



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 22 00-0014 EA Install Precast Trellis, 1-3 Tons/Unit 65' Maximum Radius With 50 Ton Crane	400.07	180.09
03 48 22 00-0015 EA Install Precast Trellis, 3-5 Tons/Unit 50' Maximum Radius With 50 Ton Crane	453.88	204.22
03 48 22 00-0016 EA Install Precast Trellis, 5-7 Tons/Unit 40' Maximum Radius With 50 Ton Crane	485.08	218.29
03 48 22 00-0017 Material Cost <small>(03 48 22 00-0011)</small>		
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 22 00-0018 CY 4" Thick 3,000 PSI Concrete Precast Trellises Blades	3,774.40	
For 3,500 PSI Concrete, Add	246.28	
For 4,000 PSI Concrete, Add	462.74	
For 4,500 PSI Concrete, Add	680.15	
For 5,000 PSI Concrete, Add	925.29	
03 48 22 00-0019 CY 5" Thick 3,000 PSI Concrete Precast Trellises Blades	3,891.13	
For 3,500 PSI Concrete, Add	253.90	
For 4,000 PSI Concrete, Add	477.05	
For 4,500 PSI Concrete, Add	701.18	
For 5,000 PSI Concrete, Add	953.91	
03 48 22 00-0020 CY 6" Thick 3,000 PSI Concrete Precast Trellises Blades	4,046.78	
For 3,500 PSI Concrete, Add	264.05	
For 4,000 PSI Concrete, Add	496.14	
For 4,500 PSI Concrete, Add	729.23	
For 5,000 PSI Concrete, Add	992.07	
03 48 22 00-0021 CY 8" Thick 3,000 PSI Concrete Precast Trellises Blades	4,241.34	
For 3,500 PSI Concrete, Add	276.75	
For 4,000 PSI Concrete, Add	519.99	
For 4,500 PSI Concrete, Add	764.29	
For 5,000 PSI Concrete, Add	1,039.76	
03 48 24 Precast Minaret Segments <small>(03 48)</small>		
03 48 24 00-0001 Installation Costs Using A 50 Ton Hydraulic Crane <small>(03 48 24)</small>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections.		
03 48 24 00-0002 L - Shaped Segments <small>(03 48 24 00-0001)</small>		
03 48 24 00-0003 EA Install Minaret, L-Shape Segment, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	348.04	278.44
03 48 24 00-0004 EA Install Minaret, L-Shape Segment, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	390.02	312.03
03 48 24 00-0005 EA Install Minaret, L-Shape Segment, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	440.99	352.78
03 48 24 00-0006 EA Install Minaret, L-Shape Segment, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	470.38	376.30
03 48 24 00-0007 O - Shaped Segments <small>(03 48 24 00-0001)</small>		
03 48 24 00-0008 EA Install Minaret, O-Shape Segment, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	367.83	294.33
03 48 24 00-0009 EA Install Minaret, O-Shape Segment, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	412.84	330.22
03 48 24 00-0010 EA Install Minaret, O-Shape Segment, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	467.55	374.00
03 48 24 00-0011 EA Install Minaret, O-Shape Segment, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	500.73	400.56
03 48 24 00-0012 Platform Segment <small>(03 48 24 00-0001)</small>		
03 48 24 00-0013 EA Install Minaret, Platform Segments, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	705.57	564.52
03 48 24 00-0014 EA Install Minaret, Platform Segments, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	852.90	682.27
03 48 24 00-0015 EA Install Minaret, Platform Segments, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	946.50	757.21
03 48 24 00-0016 EA Install Minaret, Platform Segments, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	1,063.19	850.60
03 48 24 00-0017 Cap Segment <small>(03 48 24 00-0001)</small>		
03 48 24 00-0018 EA Install Minaret, Cap Segments, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	386.13	308.88
03 48 24 00-0019 EA Install Minaret, Cap Segments, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	431.19	344.89
03 48 24 00-0020 EA Install Minaret, Cap Segments, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	491.23	392.92
03 48 24 00-0021 EA Install Minaret, Cap Segments, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	524.42	419.47
03 48 24 00-0022 Installation Costs Using A 90 Ton Crawler Crane <small>(03 48 24)</small>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting and caulking of joints.		
03 48 24 00-0023 L - Shaped Segments <small>(03 48 24 00-0022)</small>		
03 48 24 00-0024 EA Install Minaret, L-Shaped Segments, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	350.15	280.13
03 48 24 00-0025 EA Install Minaret, L-Shaped Segments, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	392.39	313.93
03 48 24 00-0026 EA Install Minaret, L-Shaped Segments, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	443.67	354.92
03 48 24 00-0027 EA Install Minaret, L-Shaped Segments, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	473.24	378.58
03 48 24 00-0028 O - Shaped Segment <small>(03 48 24 00-0022)</small>		
03 48 24 00-0029 EA Install Minaret, O-Shaped Segments, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	370.07	296.11
03 48 24 00-0030 EA Install Minaret, O-Shaped Segments, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	415.35	332.23
03 48 24 00-0031 EA Install Minaret, O-Shaped Segments, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	470.39	376.27
03 48 24 00-0032 EA Install Minaret, O-Shaped Segments, 5-7 Ton/Each 795' Maximum Radius With 90 Ton Crane	503.78	402.99
03 48 24 00-0033 Platform Segment <small>(03 48 24 00-0022)</small>		
03 48 24 00-0034 EA Install Minaret, Platform Segment, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	565.84	452.65

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 24 00-0035	EA		Install Minaret, Platform Segment, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	684.96	547.94
03 48 24 00-0036	EA		Install Minaret, Platform Segment, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	758.10	606.50
03 48 24 00-0037	EA		Install Minaret, Platform Segment, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	858.08	686.41
03 48 24 00-0038			Cap Segment <small>(03 48 24 00-0022)</small>		
03 48 24 00-0039	EA		Install Minaret, Cap Segment, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	388.48	310.75
03 48 24 00-0040	EA		Install Minaret, Cap Segment, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	433.81	346.99
03 48 24 00-0041	EA		Install Minaret, Cap Segment, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	494.21	395.31
03 48 24 00-0042	EA		Install Minaret, Cap Segment, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	527.60	422.02
03 48 24 00-0043			Material Costs <small>(03 48 24)</small>		
			Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 24 00-0044	CY		Precast Concrete Minaret, L-Shaped Segments, 3,000 PSI Concrete.....	9,338.20	
			Note: Including Post Tension Cost		
03 48 24 00-0045	CY		Precast Concrete Minaret, O-Shaped Segments, 3,000 PSI Concrete.....	9,338.20	
			Note: Including Post Tension Cost		
03 48 24 00-0046	CY		Precast Concrete Minaret, Platform Segments, 3,000 PSI Concrete.....	9,338.20	
			Note: Including Post Tension Cost		
03 48 24 00-0047	CY		Precast Concrete Minaret, Cap Segments, 3,000 PSI Concrete	9,338.20	
			Note: Including Post Tension Cost		
03 48 29			Precast Accessories <small>(03 48)</small>		
			Note: Includes installation labor, material and equipment.		
03 48 29 00-0001			Bearing Pads For Precast Members <small>(03 48 29)</small>		
03 48 29 00-0002			Continuous 2" Wide Strips <small>(03 48 29 00-0001)</small>		
03 48 29 00-0003	LF		Bearing Pads, Continuous 2" Wide x 1/8" Thick Strips	1.37	
			Note: For precast members		
03 48 29 00-0004	LF		Bearing Pads, Continuous 2" Wide x 1/4" Thick Strips	2.00	
			Note: For precast members.		
03 48 29 00-0005	LF		Bearing Pads, Continuous 2" Wide x 1/2" Thick Strips	3.38	
			Note: For precast members		
03 48 29 00-0006	LF		Bearing Pads, Continuous 2" Wide x 3/4" Thick Strips	4.78	
			Note: For precast members		
03 48 29 00-0007	LF		Bearing Pads, Continuous 2" Wide x 1" Thick Strips	6.23	
			Note: For precast members		
03 48 29 00-0008	LF		Bearing Pads, Continuous 2" Wide x 1-1/2" Thick Strips	9.00	
			Note: For precast members		
03 48 29 00-0009			Bearing Pad Pipe Supports <small>(03 48 29)</small>		
03 48 29 00-0010	LF		4" x 4" Precast Pipe Support.....	8.26	
03 48 46			Precast Skylight Shells <small>(03 48)</small>		
03 48 46 00-0001			Installation Cost Using A 90 Ton Crawler Crane <small>(03 48 46)</small>		
			Note: Includes handling, hoisting into place, alignment, bracing and permanent connections.		
03 48 46 00-0002	EA		Install Precast Skylight Shell, 0-4 Tons/Each Based On 90 Ton Crawler Crane.....	504.17	226.91
03 48 46 00-0003	EA		Install Precast Skylight Shell, 4-6 Tons/Each Based On 90 Ton Crawler Crane.....	559.82	251.93
03 48 46 00-0004	EA		Install Precast Skylight Shell, 6-8 Tons/Each Based On 90 Ton Crawler Crane.....	629.30	283.19
03 48 46 00-0005			Material Cost <small>(03 48 46)</small>		
			Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 46 00-0006	CY		3.5" Thick 3,000 PSI Concrete Precast Skylight With 4.4' Radius	3,906.81	
03 48 49			Precast Landings <small>(03 48)</small>		
03 48 49 00-0001	SF		3" Thick Precast Landing	96.31	
03 48 49 00-0002	SF		4" Thick Precast Landing	112.37	
03 48 49 00-0003	SF		5" Thick Precast Landing	127.57	
03 48 49 00-0004	SF		6" Thick Precast Landing	147.04	
03 48 54			Precast Concrete Blocks <small>(03 48)</small>		
03 48 54 00-0001			Precast Concrete Blocks <small>(03 48 54)</small>		
03 48 54 00-0002	EA		2' x 2' x 2' Precast Concrete Block.....	129.07	39.65
03 48 54 00-0003	EA		2' x 2' x 4' Precast Concrete Block.....	179.92	49.57
03 48 54 00-0004	EA		2' x 2' x 8' Precast Concrete Block.....	285.31	59.49

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

Note: Installed over new or existing concrete.



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

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

03 53 14 00-0001	Granolithic Topping Laid After	(03 53 14)	
	Note: Using 1:1:1-1/2 mix.		
03 53 14 00-0002	SF 1/2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix		4.05
03 53 14 00-0003	SF 1" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix		4.41
03 53 14 00-0004	SF 2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix		5.58

03 53 19 Concrete Overlayment (03 53)

03 53 19 00-0001	Integral Topping Including Hard Trowel Finish	(03 53 19)	
	Note: Using 1:1:2 mix.		
03 53 19 00-0002	SF 3/16" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix		2.41
03 53 19 00-0003	SF 1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix		2.72
03 53 19 00-0004	SF 3/4" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix		3.20
03 53 19 00-0005	SF 1" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix		3.80
03 53 19 00-0006	SF 2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix		5.41
03 53 19 00-0007	SF 2-1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix		4.69
03 53 19 00-0008	SF 3" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix		5.26

03 54 Cast Underlayment (03 50)

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

03 54 16 Hydraulic Cement Underlayment (03 54)

03 54 16 00-0001	Self Leveling Cementitious Underlayment For Floors	(03 54 16)	
	Note: Includes primer.		
03 54 16 00-0002	SF 1/8" Thick Self Leveling Cementitious Underlayment For Floors		1.68
	Note: Including Surface Preparation		
	For Up To 100 SF, Add		0.14
	For >100 To 250 SF, Add		0.07
03 54 16 00-0003	SF 1/4" Thick Self Leveling Cementitious Underlayment For Floors		2.88
	Note: Including Surface Preparation		
	For Up To 100 SF, Add		0.14
	For >100 To 250 SF, Add		0.07
03 54 16 00-0004	SF 3/8" Thick Self Leveling Cementitious Underlayment For Floors		3.68
	Note: Including Surface Preparation		
	For Up To 100 SF, Add		0.14
	For >100 To 250 SF, Add		0.07
03 54 16 00-0005	SF 1/2" Thick Self Leveling Cementitious Underlayment For Floors		5.29
	Note: Including Surface Preparation		
	For Up To 100 SF, Add		0.14
	For >100 To 250 SF, Add		0.07
03 54 16 00-0006	SF 5/8" Thick Self Leveling Cementitious Underlayment For Floors		6.25
	Note: Including Surface Preparation		
	For Up To 100 SF, Add		0.14
	For >100 To 250 SF, Add		0.07
03 54 16 00-0007	SF 3/4" Thick Self Leveling Cementitious Underlayment For Floors		7.74
	Note: Including Surface Preparation		
	For Up To 100 SF, Add		0.16
	For >100 To 250 SF, Add		0.08
03 54 16 00-0008	SF 1" Thick Self Leveling Cementitious Underlayment For Floors		10.14
	Note: Including Surface Preparation		
	For Up To 100 SF, Add		0.16
	For >100 To 250 SF, Add		0.08
03 54 16 00-0009	SF 1-1/4" Thick Self Leveling Cementitious Underlayment For Floors		13.38
	Note: Including Surface Preparation		
	For Up To 100 SF, Add		0.18
	For >100 To 250 SF, Add		0.09
03 54 16 00-0010	SF 1-1/2" Thick Self Leveling Cementitious Underlayment For Floors		15.00
	Note: Including Surface Preparation		
	For Up To 100 SF, Add		0.18
	For >100 To 250 SF, Add		0.09
03 54 16 00-0011	SF 1-3/4" Thick Self Leveling Cementitious Underlayment For Floors		19.91
	Note: Including Surface Preparation		
	For Up To 100 SF, Add		0.22
	For >100 To 250 SF, Add		0.11

03 60 Grouting (03)

03 61 Cementitious Grouting (03 60)

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

03 61 16 Cementitious Flowable Grout (03 61)

03 61 16 00-0001	Cementitious Flowable Grout	(03 61 16)	
03 61 16 00-0002	CY Cementitious Flowable Grout		443.90

03 62 Non-Shrink Grouting (03 60)

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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

03 62 13 00-0001	Fluid Type, Non-Metallic Non-Shrink Grouting For Bases (03 62 13)	
03 62 13 00-0002	SF 1" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases	25.27
03 62 13 00-0003	SF 2" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases	37.59

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

03 62 13 00-0005	SF 1" Deep, Non-Metallic Non-Shrink Grout For Bases	38.79
03 62 13 00-0006	SF 2" Deep, Non-Metallic Non-Shrink Grout For Bases	62.40

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

03 62 13 00-0008	1/2" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints (03 62 13 00-0007)	
03 62 13 00-0009	LF 4" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	1.99
03 62 13 00-0010	LF 6" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	2.62
03 62 13 00-0011	LF 8" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	3.46

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

03 62 13 00-0013	LF 4" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	2.96
03 62 13 00-0014	LF 6" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	3.95
03 62 13 00-0015	LF 8" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	5.25

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

03 62 16 00-0001	Metallic Non-Shrink Grouting For Bases (03 62 16)	
03 62 16 00-0002	SF 1" Deep, Metallic Non-Shrink Grout For Bases	32.66
03 62 16 00-0003	SF 2" Deep, Metallic Non-Shrink Grout For Bases	50.52

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

03 62 16 00-0005	1/2" Joint Thickness, Metallic Non-Shrink Grout For Joints (03 62 16 00-0004)	
03 62 16 00-0006	LF 4" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints	1.61
03 62 16 00-0007	LF 6" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints	2.05
03 62 16 00-0008	LF 8" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints	2.72

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

03 62 16 00-0010	LF 4" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints	2.22
03 62 16 00-0011	LF 6" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints	2.79
03 62 16 00-0012	LF 8" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints	3.74

03 64 Injection Grouting (03 60)

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

03 64 23 Epoxy Injection Grouting (03 64)

03 64 23 00-0001	Pressure Injected Epoxy Grout (03 64 23)	
03 64 23 00-0002	CF Pressure Injected Epoxy Grout	1,236.80
	<i>For >4, Deduct</i>	-130.93

03 64 26 Cementitious Injection Grouting (03 64)

03 64 26 00-0001	Pressure Injected Cementitious Grout (03 64 26)	
03 64 26 00-0002	CF Pressure Injected Cementitious Grout	215.86
	<i>For >4, Deduct</i>	-56.22

03 80 Concrete Cutting and Boring (03)

03 81 Concrete Cutting (03 80)

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

03 82 Concrete Boring (03 80)

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



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

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

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



MINOR				
CSI	UOM	DESCRIPTION	TOTAL DIRECT	DEMOLITION
			UNIT COST	UNIT COST

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

05 05 Common Work Results for Metals (05)

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

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

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

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

Note: Includes drilling.

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

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

Note: Includes nut and washer.

05 05 19 00-0005	EA 1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	11.55	
	For >10 To 50, Deduct	-0.55	
	For >50 To 100, Deduct	-1.11	
	For >100, Deduct	-2.22	
05 05 19 00-0006	EA 1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	11.65	
	For >10 To 50, Deduct	-0.55	
	For >50 To 100, Deduct	-1.11	
	For >100, Deduct	-2.23	
05 05 19 00-0007	EA 1/4" Diameter x 3-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	12.00	
	For >10 To 50, Deduct	-0.56	
	For >50 To 100, Deduct	-1.14	
	For >100, Deduct	-2.29	
05 05 19 00-0008	EA 3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	14.16	
	For >10 To 50, Deduct	-0.67	
	For >50 To 100, Deduct	-1.35	
	For >100, Deduct	-2.71	
05 05 19 00-0009	EA 3/8" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	14.23	
	For >10 To 50, Deduct	-0.67	
	For >50 To 100, Deduct	-1.35	
	For >100, Deduct	-2.71	
05 05 19 00-0010	EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	14.26	
	For >10 To 50, Deduct	-0.67	
	For >50 To 100, Deduct	-1.36	
	For >100, Deduct	-2.71	
05 05 19 00-0011	EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	14.53	
	For >10 To 50, Deduct	-0.67	
	For >50 To 100, Deduct	-1.36	
	For >100, Deduct	-2.72	
05 05 19 00-0012	EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	20.47	
	For >10 To 50, Deduct	-0.95	
	For >50 To 100, Deduct	-1.93	
	For >100, Deduct	-3.87	
05 05 19 00-0013	EA 1/2" Diameter x 3-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	20.53	
	For >10 To 50, Deduct	-0.95	
	For >50 To 100, Deduct	-1.93	
	For >100, Deduct	-3.87	
05 05 19 00-0014	EA 1/2" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	20.64	
	For >10 To 50, Deduct	-0.95	
	For >50 To 100, Deduct	-1.94	
	For >100, Deduct	-3.87	
05 05 19 00-0015	EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	20.94	
	For >10 To 50, Deduct	-0.95	
	For >50 To 100, Deduct	-1.94	
	For >100, Deduct	-3.89	
05 05 19 00-0016	EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	21.36	
	For >10 To 50, Deduct	-0.95	
	For >50 To 100, Deduct	-1.96	
	For >100, Deduct	-3.91	
05 05 19 00-0017	EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	26.45	
	For >10 To 50, Deduct	-1.17	
	For >50 To 100, Deduct	-2.41	
	For >100, Deduct	-4.83	
05 05 19 00-0018	EA 5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	26.54	
	For >10 To 50, Deduct	-1.17	
	For >50 To 100, Deduct	-2.42	
	For >100, Deduct	-4.83	
05 05 19 00-0019	EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	26.73	
	For >10 To 50, Deduct	-1.17	
	For >50 To 100, Deduct	-2.42	
	For >100, Deduct	-4.84	
05 05 19 00-0020	EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	27.10	
	For >10 To 50, Deduct	-1.17	
	For >50 To 100, Deduct	-2.43	
	For >100, Deduct	-4.86	
05 05 19 00-0021	EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	27.47	
	For >10 To 50, Deduct	-1.17	
	For >50 To 100, Deduct	-2.44	
	For >100, Deduct	-4.88	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0022	EA		5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	30.39	
			<i>For >10 To 50, Deduct</i>	-1.17	
			<i>For >50 To 100, Deduct</i>	-2.51	
			<i>For >100, Deduct</i>	-5.03	
05 05 19 00-0023	EA		5/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	32.89	
			<i>For >10 To 50, Deduct</i>	-1.17	
			<i>For >50 To 100, Deduct</i>	-2.58	
			<i>For >100, Deduct</i>	-5.15	
05 05 19 00-0024	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	31.88	
			<i>For >10 To 50, Deduct</i>	-1.39	
			<i>For >50 To 100, Deduct</i>	-2.88	
			<i>For >100, Deduct</i>	-5.77	
05 05 19 00-0025	EA		3/4" Diameter x 4-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	31.96	
			<i>For >10 To 50, Deduct</i>	-1.39	
			<i>For >50 To 100, Deduct</i>	-2.89	
			<i>For >100, Deduct</i>	-5.77	
05 05 19 00-0026	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	32.41	
			<i>For >10 To 50, Deduct</i>	-1.39	
			<i>For >50 To 100, Deduct</i>	-2.90	
			<i>For >100, Deduct</i>	-5.80	
05 05 19 00-0027	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	32.95	
			<i>For >10 To 50, Deduct</i>	-1.39	
			<i>For >50 To 100, Deduct</i>	-2.91	
			<i>For >100, Deduct</i>	-5.82	
05 05 19 00-0028	EA		3/4" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	33.56	
			<i>For >10 To 50, Deduct</i>	-1.39	
			<i>For >50 To 100, Deduct</i>	-2.93	
			<i>For >100, Deduct</i>	-5.85	
05 05 19 00-0029	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	35.90	
			<i>For >10 To 50, Deduct</i>	-1.39	
			<i>For >50 To 100, Deduct</i>	-2.98	
			<i>For >100, Deduct</i>	-5.97	
05 05 19 00-0030	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	39.01	
			<i>For >10 To 50, Deduct</i>	-1.39	
			<i>For >50 To 100, Deduct</i>	-3.06	
			<i>For >100, Deduct</i>	-6.13	
05 05 19 00-0031	EA		3/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	42.53	
			<i>For >10 To 50, Deduct</i>	-1.39	
			<i>For >50 To 100, Deduct</i>	-3.15	
			<i>For >100, Deduct</i>	-6.30	
05 05 19 00-0032	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	41.78	
			<i>For >10 To 50, Deduct</i>	-1.51	
			<i>For >50 To 100, Deduct</i>	-3.31	
			<i>For >100, Deduct</i>	-6.62	
05 05 19 00-0033	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	43.63	
			<i>For >10 To 50, Deduct</i>	-1.51	
			<i>For >50 To 100, Deduct</i>	-3.36	
			<i>For >100, Deduct</i>	-6.71	
05 05 19 00-0034	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	46.08	
			<i>For >10 To 50, Deduct</i>	-1.51	
			<i>For >50 To 100, Deduct</i>	-3.42	
			<i>For >100, Deduct</i>	-6.83	
05 05 19 00-0035	EA		1" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	51.96	
			<i>For >10 To 50, Deduct</i>	-1.95	
			<i>For >50 To 100, Deduct</i>	-4.23	
			<i>For >100, Deduct</i>	-8.46	
05 05 19 00-0036	EA		1" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	55.44	
			<i>For >10 To 50, Deduct</i>	-1.95	
			<i>For >50 To 100, Deduct</i>	-4.32	
			<i>For >100, Deduct</i>	-8.63	
05 05 19 00-0037	EA		1" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	58.89	
			<i>For >10 To 50, Deduct</i>	-1.95	
			<i>For >50 To 100, Deduct</i>	-4.40	
			<i>For >100, Deduct</i>	-8.81	
05 05 19 00-0038	EA		1-1/4" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	67.57	
			<i>For >10 To 50, Deduct</i>	-2.50	
			<i>For >50 To 100, Deduct</i>	-5.44	
			<i>For >100, Deduct</i>	-10.88	
05 05 19 00-0039	EA		1-1/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	70.05	
			<i>For >10 To 50, Deduct</i>	-2.50	
			<i>For >50 To 100, Deduct</i>	-5.50	
			<i>For >100, Deduct</i>	-11.01	
05 05 19 00-0040			304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0041	EA		1/4" Diameter x 1-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	12.61	
			<i>For >10 To 50, Deduct</i>	-0.55	
			<i>For >50 To 100, Deduct</i>	-1.14	
			<i>For >100, Deduct</i>	-2.27	
05 05 19 00-0042	EA		1/4" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	13.00	
			<i>For >10 To 50, Deduct</i>	-0.55	
			<i>For >50 To 100, Deduct</i>	-1.15	
			<i>For >100, Deduct</i>	-2.29	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0043	EA			1/4" Diameter x 3-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	13.53	
				<i>For >10 To 50, Deduct</i>	-0.56	
				<i>For >50 To 100, Deduct</i>	-1.18	
				<i>For >100, Deduct</i>	-2.36	
05 05 19 00-0044	EA			3/8" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	16.10	
				<i>For >10 To 50, Deduct</i>	-0.67	
				<i>For >50 To 100, Deduct</i>	-1.40	
				<i>For >100, Deduct</i>	-2.80	
05 05 19 00-0045	EA			3/8" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	16.43	
				<i>For >10 To 50, Deduct</i>	-0.67	
				<i>For >50 To 100, Deduct</i>	-1.41	
				<i>For >100, Deduct</i>	-2.82	
05 05 19 00-0046	EA			3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	16.67	
				<i>For >10 To 50, Deduct</i>	-0.67	
				<i>For >50 To 100, Deduct</i>	-1.42	
				<i>For >100, Deduct</i>	-2.83	
05 05 19 00-0047	EA			3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	18.47	
				<i>For >10 To 50, Deduct</i>	-0.67	
				<i>For >50 To 100, Deduct</i>	-1.46	
				<i>For >100, Deduct</i>	-2.92	
05 05 19 00-0048	EA			1/2" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	24.77	
				<i>For >10 To 50, Deduct</i>	-0.95	
				<i>For >50 To 100, Deduct</i>	-2.04	
				<i>For >100, Deduct</i>	-4.08	
05 05 19 00-0049	EA			1/2" Diameter x 3-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	25.39	
				<i>For >10 To 50, Deduct</i>	-0.95	
				<i>For >50 To 100, Deduct</i>	-2.06	
				<i>For >100, Deduct</i>	-4.11	
05 05 19 00-0050	EA			1/2" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	25.75	
				<i>For >10 To 50, Deduct</i>	-0.95	
				<i>For >50 To 100, Deduct</i>	-2.07	
				<i>For >100, Deduct</i>	-4.13	
05 05 19 00-0051	EA			1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	27.39	
				<i>For >10 To 50, Deduct</i>	-0.95	
				<i>For >50 To 100, Deduct</i>	-2.11	
				<i>For >100, Deduct</i>	-4.21	
05 05 19 00-0052	EA			1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	29.85	
				<i>For >10 To 50, Deduct</i>	-0.95	
				<i>For >50 To 100, Deduct</i>	-2.17	
				<i>For >100, Deduct</i>	-4.34	
05 05 19 00-0053	EA			5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	35.18	
				<i>For >10 To 50, Deduct</i>	-1.17	
				<i>For >50 To 100, Deduct</i>	-2.63	
				<i>For >100, Deduct</i>	-5.27	
05 05 19 00-0054	EA			5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	36.78	
				<i>For >10 To 50, Deduct</i>	-1.17	
				<i>For >50 To 100, Deduct</i>	-2.67	
				<i>For >100, Deduct</i>	-5.35	
05 05 19 00-0055	EA			5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	38.52	
				<i>For >10 To 50, Deduct</i>	-1.17	
				<i>For >50 To 100, Deduct</i>	-2.72	
				<i>For >100, Deduct</i>	-5.43	
05 05 19 00-0056	EA			5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	40.82	
				<i>For >10 To 50, Deduct</i>	-1.17	
				<i>For >50 To 100, Deduct</i>	-2.77	
				<i>For >100, Deduct</i>	-5.55	
05 05 19 00-0057	EA			5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	50.93	
				<i>For >10 To 50, Deduct</i>	-1.17	
				<i>For >50 To 100, Deduct</i>	-3.03	
				<i>For >100, Deduct</i>	-6.05	
05 05 19 00-0058	EA			3/4" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	42.00	
				<i>For >10 To 50, Deduct</i>	-1.39	
				<i>For >50 To 100, Deduct</i>	-3.14	
				<i>For >100, Deduct</i>	-6.27	
05 05 19 00-0059	EA			3/4" Diameter x 4-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	45.26	
				<i>For >10 To 50, Deduct</i>	-1.39	
				<i>For >50 To 100, Deduct</i>	-3.22	
				<i>For >100, Deduct</i>	-6.44	
05 05 19 00-0060	EA			3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	48.04	
				<i>For >10 To 50, Deduct</i>	-1.39	
				<i>For >50 To 100, Deduct</i>	-3.29	
				<i>For >100, Deduct</i>	-6.58	
05 05 19 00-0061	EA			3/4" Diameter x 6-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	48.38	
				<i>For >10 To 50, Deduct</i>	-1.39	
				<i>For >50 To 100, Deduct</i>	-3.30	
				<i>For >100, Deduct</i>	-6.59	
05 05 19 00-0062	EA			3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	50.99	
				<i>For >10 To 50, Deduct</i>	-1.39	
				<i>For >50 To 100, Deduct</i>	-3.36	
				<i>For >100, Deduct</i>	-6.72	
05 05 19 00-0063	EA			3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	57.76	
				<i>For >10 To 50, Deduct</i>	-1.39	
				<i>For >50 To 100, Deduct</i>	-3.53	
				<i>For >100, Deduct</i>	-7.06	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0064	EA		3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	67.32	
			<i>For >10 To 50, Deduct</i>	-1.39	
			<i>For >50 To 100, Deduct</i>	-3.77	
			<i>For >100, Deduct</i>	-7.54	
05 05 19 00-0065	EA		7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	67.91	
			<i>For >10 To 50, Deduct</i>	-1.51	
			<i>For >50 To 100, Deduct</i>	-3.96	
			<i>For >100, Deduct</i>	-7.93	
05 05 19 00-0066	EA		1" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	98.23	
			<i>For >10 To 50, Deduct</i>	-1.95	
			<i>For >50 To 100, Deduct</i>	-5.39	
			<i>For >100, Deduct</i>	-10.77	
05 05 19 00-0067	EA		1" Diameter x 9" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	112.36	
			<i>For >10 To 50, Deduct</i>	-1.95	
			<i>For >50 To 100, Deduct</i>	-5.74	
			<i>For >100, Deduct</i>	-11.48	
05 05 19 00-0068			316 Stainless Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0069	EA		1/4" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	12.94	
			<i>For >10 To 50, Deduct</i>	-0.55	
			<i>For >50 To 100, Deduct</i>	-1.15	
			<i>For >100, Deduct</i>	-2.29	
05 05 19 00-0070	EA		1/4" Diameter x 3-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	13.67	
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.19	
			<i>For >100, Deduct</i>	-2.37	
05 05 19 00-0071	EA		3/8" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	17.17	
			<i>For >10 To 50, Deduct</i>	-0.67	
			<i>For >50 To 100, Deduct</i>	-1.43	
			<i>For >100, Deduct</i>	-2.86	
05 05 19 00-0072	EA		3/8" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	17.74	
			<i>For >10 To 50, Deduct</i>	-0.67	
			<i>For >50 To 100, Deduct</i>	-1.44	
			<i>For >100, Deduct</i>	-2.89	
05 05 19 00-0073	EA		3/8" Diameter x 3" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	17.89	
			<i>For >10 To 50, Deduct</i>	-0.67	
			<i>For >50 To 100, Deduct</i>	-1.45	
			<i>For >100, Deduct</i>	-2.89	
05 05 19 00-0074	EA		3/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	20.60	
			<i>For >10 To 50, Deduct</i>	-0.67	
			<i>For >50 To 100, Deduct</i>	-1.51	
			<i>For >100, Deduct</i>	-3.03	
05 05 19 00-0075	EA		1/2" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	27.37	
			<i>For >10 To 50, Deduct</i>	-0.95	
			<i>For >50 To 100, Deduct</i>	-2.11	
			<i>For >100, Deduct</i>	-4.21	
05 05 19 00-0076	EA		1/2" Diameter x 3-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	28.94	
			<i>For >10 To 50, Deduct</i>	-0.95	
			<i>For >50 To 100, Deduct</i>	-2.14	
			<i>For >100, Deduct</i>	-4.29	
05 05 19 00-0077	EA		1/2" Diameter x 4-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	31.80	
			<i>For >10 To 50, Deduct</i>	-0.95	
			<i>For >50 To 100, Deduct</i>	-2.22	
			<i>For >100, Deduct</i>	-4.43	
05 05 19 00-0078	EA		1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	32.51	
			<i>For >10 To 50, Deduct</i>	-0.95	
			<i>For >50 To 100, Deduct</i>	-2.23	
			<i>For >100, Deduct</i>	-4.47	
05 05 19 00-0079	EA		5/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	43.94	
			<i>For >10 To 50, Deduct</i>	-1.17	
			<i>For >50 To 100, Deduct</i>	-2.85	
			<i>For >100, Deduct</i>	-5.70	
05 05 19 00-0080	EA		5/8" Diameter x 7" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	44.80	
			<i>For >10 To 50, Deduct</i>	-1.17	
			<i>For >50 To 100, Deduct</i>	-2.87	
			<i>For >100, Deduct</i>	-5.75	
05 05 19 00-0081	EA		3/4" Diameter x 4-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	54.26	
			<i>For >10 To 50, Deduct</i>	-1.39	
			<i>For >50 To 100, Deduct</i>	-3.44	
			<i>For >100, Deduct</i>	-6.89	
05 05 19 00-0082	EA		3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	57.83	
			<i>For >10 To 50, Deduct</i>	-1.39	
			<i>For >50 To 100, Deduct</i>	-3.53	
			<i>For >100, Deduct</i>	-7.07	
05 05 19 00-0083			Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0084	EA		1/2" Diameter x 2-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	22.84	
			<i>For >10 To 50, Deduct</i>	-0.95	
			<i>For >50 To 100, Deduct</i>	-1.99	
			<i>For >100, Deduct</i>	-3.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0085 EA 1/2" Diameter x 4-1/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	23.87	
For >10 To 50, Deduct	-0.95	
For >50 To 100, Deduct	-2.02	
For >100, Deduct	-4.04	
05 05 19 00-0086 EA 1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	24.89	
For >10 To 50, Deduct	-0.95	
For >50 To 100, Deduct	-2.04	
For >100, Deduct	-4.09	
05 05 19 00-0087 EA 1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	25.41	
For >10 To 50, Deduct	-0.95	
For >50 To 100, Deduct	-2.06	
For >100, Deduct	-4.11	
05 05 19 00-0088 EA 5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	30.76	
For >10 To 50, Deduct	-1.17	
For >50 To 100, Deduct	-2.52	
For >100, Deduct	-5.05	
05 05 19 00-0089 EA 5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	29.53	
For >10 To 50, Deduct	-1.17	
For >50 To 100, Deduct	-2.49	
For >100, Deduct	-4.98	
05 05 19 00-0090 EA 3/4" Diameter x 4-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	39.32	
For >10 To 50, Deduct	-1.39	
For >50 To 100, Deduct	-3.07	
For >100, Deduct	-6.14	
05 05 19 00-0091 EA 3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	40.45	
For >10 To 50, Deduct	-1.39	
For >50 To 100, Deduct	-3.10	
For >100, Deduct	-6.20	
05 05 19 00-0092 EA 3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	45.99	
For >10 To 50, Deduct	-1.39	
For >50 To 100, Deduct	-3.24	
For >100, Deduct	-6.47	
05 05 19 00-0093 EA 1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	50.89	
For >10 To 50, Deduct	-1.95	
For >50 To 100, Deduct	-4.20	
For >100, Deduct	-8.41	
05 05 19 00-0094 EA 1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	54.09	
For >10 To 50, Deduct	-1.95	
For >50 To 100, Deduct	-4.28	
For >100, Deduct	-8.57	
05 05 19 00-0095 EA 1" Diameter x 12" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	57.25	
For >10 To 50, Deduct	-1.95	
For >50 To 100, Deduct	-4.36	
For >100, Deduct	-8.72	
05 05 19 00-0096 Concrete Sleeve Anchors <small>(05 05 19 00-0002)</small>		
05 05 19 00-0097 Zinc Plated Steel, Concrete Sleeve Anchors <small>(05 05 19 00-0086)</small>		
Note: Includes nut and washer.		
05 05 19 00-0098 EA 1/4" Diameter x 5/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	11.64	
For >10 To 50, Deduct	-0.56	
For >50 To 100, Deduct	-1.13	
For >100, Deduct	-2.26	
05 05 19 00-0099 EA 1/4" Diameter x 1-3/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	11.77	
For >10 To 50, Deduct	-0.56	
For >50 To 100, Deduct	-1.13	
For >100, Deduct	-2.27	
05 05 19 00-0100 EA 1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	11.93	
For >10 To 50, Deduct	-0.56	
For >50 To 100, Deduct	-1.14	
For >100, Deduct	-2.28	
05 05 19 00-0101 EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	12.26	
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.19	
For >100, Deduct	-2.38	
05 05 19 00-0102 EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	12.38	
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.19	
For >100, Deduct	-2.38	
05 05 19 00-0103 EA 3/8" Diameter x 1-7/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	13.88	
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.35	
For >100, Deduct	-2.69	
05 05 19 00-0104 EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	14.10	
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.35	
For >100, Deduct	-2.70	
05 05 19 00-0105 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	14.32	
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.36	
For >100, Deduct	-2.71	
05 05 19 00-0106 EA 1/2" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	19.97	
For >10 To 50, Deduct	-0.95	
For >50 To 100, Deduct	-1.92	
For >100, Deduct	-3.84	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0107	EA		1/2" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	20.25	
			<i>For >10 To 50, Deduct</i>	-0.95	
			<i>For >50 To 100, Deduct</i>	-1.93	
			<i>For >100, Deduct</i>	-3.85	
05 05 19 00-0108	EA		1/2" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	20.50	
			<i>For >10 To 50, Deduct</i>	-0.95	
			<i>For >50 To 100, Deduct</i>	-1.93	
			<i>For >100, Deduct</i>	-3.86	
05 05 19 00-0109	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	20.79	
			<i>For >10 To 50, Deduct</i>	-0.95	
			<i>For >50 To 100, Deduct</i>	-1.94	
			<i>For >100, Deduct</i>	-3.88	
05 05 19 00-0110	EA		5/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	24.98	
			<i>For >10 To 50, Deduct</i>	-1.17	
			<i>For >50 To 100, Deduct</i>	-2.38	
			<i>For >100, Deduct</i>	-4.75	
05 05 19 00-0111	EA		5/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	25.41	
			<i>For >10 To 50, Deduct</i>	-1.17	
			<i>For >50 To 100, Deduct</i>	-2.39	
			<i>For >100, Deduct</i>	-4.78	
05 05 19 00-0112	EA		5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	25.73	
			<i>For >10 To 50, Deduct</i>	-1.17	
			<i>For >50 To 100, Deduct</i>	-2.40	
			<i>For >100, Deduct</i>	-4.79	
05 05 19 00-0113	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	26.65	
			<i>For >10 To 50, Deduct</i>	-1.17	
			<i>For >50 To 100, Deduct</i>	-2.42	
			<i>For >100, Deduct</i>	-4.84	
05 05 19 00-0114	EA		3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	30.51	
			<i>For >10 To 50, Deduct</i>	-1.39	
			<i>For >50 To 100, Deduct</i>	-2.85	
			<i>For >100, Deduct</i>	-5.70	
05 05 19 00-0115	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	31.30	
			<i>For >10 To 50, Deduct</i>	-1.39	
			<i>For >50 To 100, Deduct</i>	-2.87	
			<i>For >100, Deduct</i>	-5.74	
05 05 19 00-0116	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	32.02	
			<i>For >10 To 50, Deduct</i>	-1.39	
			<i>For >50 To 100, Deduct</i>	-2.89	
			<i>For >100, Deduct</i>	-5.77	
05 05 19 00-0117	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	33.16	
			<i>For >10 To 50, Deduct</i>	-1.39	
			<i>For >50 To 100, Deduct</i>	-2.92	
			<i>For >100, Deduct</i>	-5.83	
05 05 19 00-0118			304/18-8 Stainless Steel, Concrete Sleeve Anchors <small>(05 05 19 00-0096)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0119	EA		1/4" Diameter x 1-3/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	13.25	
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.17	
			<i>For >100, Deduct</i>	-2.34	
05 05 19 00-0120	EA		3/8" Diameter x 1-7/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	17.15	
			<i>For >10 To 50, Deduct</i>	-0.67	
			<i>For >50 To 100, Deduct</i>	-1.43	
			<i>For >100, Deduct</i>	-2.85	
05 05 19 00-0121	EA		3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	18.67	
			<i>For >10 To 50, Deduct</i>	-0.67	
			<i>For >50 To 100, Deduct</i>	-1.47	
			<i>For >100, Deduct</i>	-2.93	
05 05 19 00-0122	EA		1/2" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	25.44	
			<i>For >10 To 50, Deduct</i>	-0.95	
			<i>For >50 To 100, Deduct</i>	-2.06	
			<i>For >100, Deduct</i>	-4.11	
05 05 19 00-0123	EA		1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	28.18	
			<i>For >10 To 50, Deduct</i>	-0.95	
			<i>For >50 To 100, Deduct</i>	-2.12	
			<i>For >100, Deduct</i>	-4.25	
05 05 19 00-0124	EA		5/8" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	38.26	
			<i>For >10 To 50, Deduct</i>	-1.17	
			<i>For >50 To 100, Deduct</i>	-2.71	
			<i>For >100, Deduct</i>	-5.42	
05 05 19 00-0125			Concrete Strike Anchors <small>(05 05 19 00-0002)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0126	EA		1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	12.28	
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.15	
			<i>For >100, Deduct</i>	-2.29	
05 05 19 00-0127	EA		1/4" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor	12.51	
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.15	
			<i>For >100, Deduct</i>	-2.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0128 EA 5/16" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	13.06	
<i>For >10 To 50, Deduct</i>	-0.59	
<i>For >50 To 100, Deduct</i>	-1.21	
<i>For >100, Deduct</i>	-2.42	
05 05 19 00-0129 EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor	13.99	
<i>For >10 To 50, Deduct</i>	-0.59	
<i>For >50 To 100, Deduct</i>	-1.23	
<i>For >100, Deduct</i>	-2.46	
05 05 19 00-0130 EA 3/8" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor	14.89	
<i>For >10 To 50, Deduct</i>	-0.67	
<i>For >50 To 100, Deduct</i>	-1.37	
<i>For >100, Deduct</i>	-2.74	
05 05 19 00-0131 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor	15.58	
<i>For >10 To 50, Deduct</i>	-0.67	
<i>For >50 To 100, Deduct</i>	-1.39	
<i>For >100, Deduct</i>	-2.78	
05 05 19 00-0132 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor	16.12	
<i>For >10 To 50, Deduct</i>	-0.67	
<i>For >50 To 100, Deduct</i>	-1.40	
<i>For >100, Deduct</i>	-2.80	
05 05 19 00-0133 EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	21.69	
<i>For >10 To 50, Deduct</i>	-0.95	
<i>For >50 To 100, Deduct</i>	-1.96	
<i>For >100, Deduct</i>	-3.92	
05 05 19 00-0134 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor	22.11	
<i>For >10 To 50, Deduct</i>	-0.95	
<i>For >50 To 100, Deduct</i>	-1.97	
<i>For >100, Deduct</i>	-3.95	
05 05 19 00-0135 EA 1/2" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	23.33	
<i>For >10 To 50, Deduct</i>	-0.95	
<i>For >50 To 100, Deduct</i>	-2.00	
<i>For >100, Deduct</i>	-4.01	
05 05 19 00-0136 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	24.91	
<i>For >10 To 50, Deduct</i>	-0.95	
<i>For >50 To 100, Deduct</i>	-2.04	
<i>For >100, Deduct</i>	-4.09	
05 05 19 00-0137 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor	28.64	
<i>For >10 To 50, Deduct</i>	-1.17	
<i>For >50 To 100, Deduct</i>	-2.47	
<i>For >100, Deduct</i>	-4.94	
05 05 19 00-0138 EA 5/8" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	30.10	
<i>For >10 To 50, Deduct</i>	-1.17	
<i>For >50 To 100, Deduct</i>	-2.51	
<i>For >100, Deduct</i>	-5.01	
05 05 19 00-0139 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	31.38	
<i>For >10 To 50, Deduct</i>	-1.17	
<i>For >50 To 100, Deduct</i>	-2.54	
<i>For >100, Deduct</i>	-5.07	
05 05 19 00-0140 EA 3/4" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor	36.58	
<i>For >10 To 50, Deduct</i>	-1.39	
<i>For >50 To 100, Deduct</i>	-3.00	
<i>For >100, Deduct</i>	-6.00	
05 05 19 00-0141 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	37.95	
<i>For >10 To 50, Deduct</i>	-1.39	
<i>For >50 To 100, Deduct</i>	-3.04	
<i>For >100, Deduct</i>	-6.07	
 05 05 19 00-0142 Multi-Set Drop-In Anchors <small>(05 05 19 00-0002)</small>		
05 05 19 00-0143 Zinc Plated Steel, Multi-Set Drop-In Anchors <small>(05 05 19 00-0142)</small>		
Note: Excludes bolt, nut and washer.		
05 05 19 00-0144 EA 1/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	16.17	
<i>For >10 To 50, Deduct</i>	-0.78	
<i>For >50 To 100, Deduct</i>	-1.57	
<i>For >100, Deduct</i>	-3.15	
05 05 19 00-0145 EA 3/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	19.77	
<i>For >10 To 50, Deduct</i>	-0.95	
<i>For >50 To 100, Deduct</i>	-1.92	
<i>For >100, Deduct</i>	-3.84	
05 05 19 00-0146 EA 1/2" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	24.02	
<i>For >10 To 50, Deduct</i>	-1.12	
<i>For >50 To 100, Deduct</i>	-2.28	
<i>For >100, Deduct</i>	-4.56	
05 05 19 00-0147 EA 5/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	27.16	
<i>For >10 To 50, Deduct</i>	-1.23	
<i>For >50 To 100, Deduct</i>	-2.52	
<i>For >100, Deduct</i>	-5.05	
05 05 19 00-0148 EA 3/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	32.39	
<i>For >10 To 50, Deduct</i>	-1.40	
<i>For >50 To 100, Deduct</i>	-2.91	
<i>For >100, Deduct</i>	-5.82	
 05 05 19 00-0149 304/18-8 Stainless Steel, Multi-Set Drop-In Anchors <small>(05 05 19 00-0142)</small>		
Note: Excludes bolt, nut and washer.		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0150 EA 1/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	19.44	
For >10 To 50, Deduct	-0.78	
For >50 To 100, Deduct	-1.66	
For >100, Deduct	-3.31	
05 05 19 00-0151 EA 3/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	25.90	
For >10 To 50, Deduct	-0.95	
For >50 To 100, Deduct	-2.07	
For >100, Deduct	-4.15	
05 05 19 00-0152 EA 1/2" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	32.19	
For >10 To 50, Deduct	-1.12	
For >50 To 100, Deduct	-2.48	
For >100, Deduct	-4.97	
05 05 19 00-0153 EA 5/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	40.31	
For >10 To 50, Deduct	-1.23	
For >50 To 100, Deduct	-2.85	
For >100, Deduct	-5.71	
05 05 19 00-0154 EA 3/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	54.99	
For >10 To 50, Deduct	-1.40	
For >50 To 100, Deduct	-3.47	
For >100, Deduct	-6.95	
05 05 19 00-0155 Single Bolt Expansion Anchors (05 05 19 00-0002)		
Note: Excludes bolt, nut and washer.		
05 05 19 00-0156 EA 1/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	11.83	
For >10 To 50, Deduct	-0.56	
For >50 To 100, Deduct	-1.14	
For >100, Deduct	-2.27	
05 05 19 00-0157 EA 5/16" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	12.62	
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.20	
For >100, Deduct	-2.40	
05 05 19 00-0158 EA 3/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	14.27	
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.36	
For >100, Deduct	-2.71	
05 05 19 00-0159 EA 1/2" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	20.79	
For >10 To 50, Deduct	-0.95	
For >50 To 100, Deduct	-1.94	
For >100, Deduct	-3.88	
05 05 19 00-0160 EA 5/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	28.46	
For >10 To 50, Deduct	-1.17	
For >50 To 100, Deduct	-2.46	
For >100, Deduct	-4.93	
05 05 19 00-0161 EA 3/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	34.30	
For >10 To 50, Deduct	-1.39	
For >50 To 100, Deduct	-2.94	
For >100, Deduct	-5.89	
05 05 19 00-0162 Concrete Lag Shield Anchors (05 05 19 00-0002)		
Note: Excludes lag bolt and washer.		
05 05 19 00-0163 EA 1/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	11.89	
For >10 To 50, Deduct	-0.56	
For >50 To 100, Deduct	-1.14	
For >100, Deduct	-2.27	
05 05 19 00-0164 EA 5/16" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	14.14	
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.35	
For >100, Deduct	-2.70	
05 05 19 00-0165 EA 3/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	14.70	
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.37	
For >100, Deduct	-2.73	
05 05 19 00-0166 EA 1/2" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	20.75	
For >10 To 50, Deduct	-0.95	
For >50 To 100, Deduct	-1.94	
For >100, Deduct	-3.88	
05 05 19 00-0167 EA 5/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	27.59	
For >10 To 50, Deduct	-1.17	
For >50 To 100, Deduct	-2.44	
For >100, Deduct	-4.89	
05 05 19 00-0168 EA 3/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	31.16	
For >10 To 50, Deduct	-1.39	
For >50 To 100, Deduct	-2.87	
For >100, Deduct	-5.73	
05 05 19 00-0169 Chemical And Adhesive Anchors (05 05 19 00-0001)		
05 05 19 00-0170 Chemically Adhered Anchor Rods (05 05 19 00-0169)		
Note: Includes drilling hole, injected adhesive or pre-placed adhesive cartridge, nut and washer. Zinc coated carbon steel.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0171 EA 1/4" x 1-9/16" Long Chemically Adhered Anchor Rod	14.90	
<i>For >10 To 50, Deduct</i>	-0.62	
<i>For >50 To 100, Deduct</i>	-1.30	
<i>For >100, Deduct</i>	-2.59	
05 05 19 00-0172 EA 5/16" x 2-3/8" Long Chemically Adhered Anchor Rod	17.19	
<i>For >10 To 50, Deduct</i>	-0.67	
<i>For >50 To 100, Deduct</i>	-1.44	
<i>For >100, Deduct</i>	-2.87	
05 05 19 00-0173 EA 3/8" x 2-3/4" Long Chemically Adhered Anchor Rod	21.35	
<i>For >10 To 50, Deduct</i>	-0.84	
<i>For >50 To 100, Deduct</i>	-1.79	
<i>For >100, Deduct</i>	-3.59	
05 05 19 00-0174 EA 1/2" x 3-11/16" Long Chemically Adhered Anchor Rod	24.95	
<i>For >10 To 50, Deduct</i>	-0.95	
<i>For >50 To 100, Deduct</i>	-2.04	
<i>For >100, Deduct</i>	-4.09	
05 05 19 00-0175 EA 1/2" x 5-1/2" Long Chemically Adhered Anchor Rod	26.32	
<i>For >10 To 50, Deduct</i>	-0.95	
<i>For >50 To 100, Deduct</i>	-2.08	
<i>For >100, Deduct</i>	-4.16	
05 05 19 00-0176 EA 5/8" x 7" Long Chemically Adhered Anchor Rod.....	32.55	
<i>For >10 To 50, Deduct</i>	-1.17	
<i>For >50 To 100, Deduct</i>	-2.57	
<i>For >100, Deduct</i>	-5.13	
05 05 19 00-0177 EA 3/4" x 9-1/2" Long Chemically Adhered Anchor Rod	42.04	
<i>For >10 To 50, Deduct</i>	-1.39	
<i>For >50 To 100, Deduct</i>	-3.14	
<i>For >100, Deduct</i>	-6.28	
05 05 19 00-0178 EA 7/8" x 10" Long Chemically Adhered Anchor Rod.....	49.55	
<i>For >10 To 50, Deduct</i>	-1.51	
<i>For >50 To 100, Deduct</i>	-3.50	
<i>For >100, Deduct</i>	-7.00	
05 05 19 00-0179 EA 1" x 11-3/4" Long Chemically Adhered Anchor Rod	67.51	
<i>For >10 To 50, Deduct</i>	-1.95	
<i>For >50 To 100, Deduct</i>	-4.62	
<i>For >100, Deduct</i>	-9.24	
05 05 19 00-0180 EA 1-1/4" x 14" Long Chemically Adhered Anchor Rod	96.26	
<i>For >10 To 50, Deduct</i>	-2.46	
<i>For >50 To 100, Deduct</i>	-6.10	
<i>For >100, Deduct</i>	-12.20	
05 05 19 00-0181 Chemical Adhesives For Bolts, Dowels Or Threaded Rod <small>(05 05 19 00-0169)</small>		
<small>Note: Injected or drop in cartridge. Sizes listed are for the diameter of the bolt, dowel or rod to be anchored. Includes drilling. Excludes bolt, dowel or rod.</small>		
05 05 19 00-0182 EA 5/16" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	13.83	
<i>For >10 To 50, Deduct</i>	-0.67	
<i>For >50 To 100, Deduct</i>	-1.35	
<i>For >100, Deduct</i>	-2.71	
05 05 19 00-0183 EA 3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	17.32	
<i>For >10 To 50, Deduct</i>	-0.84	
<i>For >50 To 100, Deduct</i>	-1.69	
<i>For >100, Deduct</i>	-3.38	
05 05 19 00-0184 EA 1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	19.68	
<i>For >10 To 50, Deduct</i>	-0.95	
<i>For >50 To 100, Deduct</i>	-1.91	
<i>For >100, Deduct</i>	-3.82	
05 05 19 00-0185 EA 5/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	25.19	
<i>For >10 To 50, Deduct</i>	-1.17	
<i>For >50 To 100, Deduct</i>	-2.38	
<i>For >100, Deduct</i>	-4.77	
05 05 19 00-0186 EA 3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	31.01	
<i>For >10 To 50, Deduct</i>	-1.39	
<i>For >50 To 100, Deduct</i>	-2.86	
<i>For >100, Deduct</i>	-5.72	
05 05 19 00-0187 EA 7/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	34.38	
<i>For >10 To 50, Deduct</i>	-1.51	
<i>For >50 To 100, Deduct</i>	-3.12	
<i>For >100, Deduct</i>	-6.24	
05 05 19 00-0188 EA 1" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	45.45	
<i>For >10 To 50, Deduct</i>	-1.95	
<i>For >50 To 100, Deduct</i>	-4.07	
<i>For >100, Deduct</i>	-8.13	
05 05 19 00-0189 EA 1-1/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	52.03	
<i>For >10 To 50, Deduct</i>	-2.21	
<i>For >50 To 100, Deduct</i>	-4.61	
<i>For >100, Deduct</i>	-9.23	
05 05 19 00-0190 EA 1-1/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	59.48	
<i>For >10 To 50, Deduct</i>	-2.46	
<i>For >50 To 100, Deduct</i>	-5.18	
<i>For >100, Deduct</i>	-10.36	
05 05 19 00-0191 EA 1-3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	64.28	
<i>For >10 To 50, Deduct</i>	-2.58	
<i>For >50 To 100, Deduct</i>	-5.47	
<i>For >100, Deduct</i>	-10.94	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0192	EA		1-1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	70.77	
			<i>For >10 To 50, Deduct</i>	-2.69	
			<i>For >50 To 100, Deduct</i>	-5.80	
			<i>For >100, Deduct</i>	-11.60	
05 05 19 00-0193	EA		1-3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	83.76	
			<i>For >10 To 50, Deduct</i>	-2.91	
			<i>For >50 To 100, Deduct</i>	-6.46	
			<i>For >100, Deduct</i>	-12.92	
05 05 19 00-0194	EA		2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	111.54	
			<i>For >10 To 50, Deduct</i>	-3.02	
			<i>For >50 To 100, Deduct</i>	-7.32	
			<i>For >100, Deduct</i>	-14.65	
05 05 19 00-0195			Grout Concrete Anchor Bolt Or Threaded Rod (05 05 19 00-0169)		
05 05 19 00-0196	EA		Grout Concrete Anchor Bolt or Threaded Rod.....	4.46	
			<i>For >10 To 50, Deduct</i>	-0.22	
			<i>For >50 To 100, Deduct</i>	-0.43	
			<i>For >100, Deduct</i>	-0.87	
05 05 19 00-0197			Other Concrete And Masonry Anchors (05 05 19 00-0001)		
05 05 19 00-0198			Tapcon Masonry Screws (05 05 19 00-0197)		
			Note: Includes drilling, Countersunk or hex head.		
05 05 19 00-0199	EA		3/16" x 1-1/4" Tapcon Masonry Screw.....	11.46	
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.13	
			<i>For >100, Deduct</i>	-2.25	
05 05 19 00-0200	EA		3/16" x 2-1/4" Tapcon Masonry Screw.....	11.52	
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.13	
			<i>For >100, Deduct</i>	-2.26	
05 05 19 00-0201	EA		3/16" x 3-1/4" Tapcon Masonry Screw.....	11.67	
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.13	
			<i>For >100, Deduct</i>	-2.26	
05 05 19 00-0202	EA		1/4" x 1-1/4" Tapcon Masonry Screw.....	11.54	
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.13	
			<i>For >100, Deduct</i>	-2.26	
05 05 19 00-0203	EA		1/4" x 2-1/4" Tapcon Masonry Screw.....	11.62	
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.13	
			<i>For >100, Deduct</i>	-2.26	
05 05 19 00-0204	EA		1/4" x 3-1/4" Tapcon Masonry Screw.....	11.79	
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.13	
			<i>For >100, Deduct</i>	-2.27	
05 05 19 00-0205			Large Diameter, Self-Threading Concrete Fasteners (05 05 19 00-0197)		
			Note: Includes drilling, Zinc plated.		
05 05 19 00-0206	EA		3/8" x 1-3/4", Large Diameter, Self-Threading Concrete Fastener.....	12.44	
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.15	
			<i>For >100, Deduct</i>	-2.30	
05 05 19 00-0207	EA		3/8" x 2-1/2", Large Diameter, Self-Threading Concrete Fastener.....	12.89	
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.16	
			<i>For >100, Deduct</i>	-2.32	
05 05 19 00-0208	EA		3/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	13.01	
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.17	
			<i>For >100, Deduct</i>	-2.33	
05 05 19 00-0209	EA		3/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	13.23	
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.17	
			<i>For >100, Deduct</i>	-2.34	
05 05 19 00-0210	EA		3/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	13.42	
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.18	
			<i>For >100, Deduct</i>	-2.35	
05 05 19 00-0211	EA		1/2" x 3", Large Diameter, Self-Threading Concrete Fastener.....	13.80	
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.19	
			<i>For >100, Deduct</i>	-2.37	
05 05 19 00-0212	EA		1/2" x 4", Large Diameter, Self-Threading Concrete Fastener.....	14.28	
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.20	
			<i>For >100, Deduct</i>	-2.39	
05 05 19 00-0213	EA		1/2" x 5", Large Diameter, Self-Threading Concrete Fastener.....	14.73	
			<i>For >10 To 50, Deduct</i>	-0.56	
			<i>For >50 To 100, Deduct</i>	-1.21	
			<i>For >100, Deduct</i>	-2.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0214 EA 1/2" x 6", Large Diameter, Self-Threading Concrete Fastener.....	15.96	
<i>For >10 To 50, Deduct</i>	-0.56	
<i>For >50 To 100, Deduct</i>	-1.24	
<i>For >100, Deduct</i>	-2.48	
05 05 19 00-0215 EA 5/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	16.11	
<i>For >10 To 50, Deduct</i>	-0.56	
<i>For >50 To 100, Deduct</i>	-1.24	
<i>For >100, Deduct</i>	-2.49	
05 05 19 00-0216 EA 5/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	16.87	
<i>For >10 To 50, Deduct</i>	-0.56	
<i>For >50 To 100, Deduct</i>	-1.26	
<i>For >100, Deduct</i>	-2.52	
05 05 19 00-0217 EA 5/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	17.65	
<i>For >10 To 50, Deduct</i>	-0.56	
<i>For >50 To 100, Deduct</i>	-1.28	
<i>For >100, Deduct</i>	-2.56	
05 05 19 00-0218 EA 5/8" x 6", Large Diameter, Self-Threading Concrete Fastener.....	18.14	
<i>For >10 To 50, Deduct</i>	-0.56	
<i>For >50 To 100, Deduct</i>	-1.29	
<i>For >100, Deduct</i>	-2.59	
05 05 19 00-0219 EA 3/4" x 4-1/2", Large Diameter, Self-Threading Concrete Fastener.....	17.92	
<i>For >10 To 50, Deduct</i>	-0.56	
<i>For >50 To 100, Deduct</i>	-1.29	
<i>For >100, Deduct</i>	-2.58	
05 05 19 00-0220 EA 3/4" x 5-1/2", Large Diameter, Self-Threading Concrete Fastener.....	18.64	
<i>For >10 To 50, Deduct</i>	-0.56	
<i>For >50 To 100, Deduct</i>	-1.31	
<i>For >100, Deduct</i>	-2.61	
05 05 19 00-0221 EA 3/4" x 6-1/4", Large Diameter, Self-Threading Concrete Fastener.....	20.32	
<i>For >10 To 50, Deduct</i>	-0.56	
<i>For >50 To 100, Deduct</i>	-1.35	
<i>For >100, Deduct</i>	-2.70	
05 05 19 00-0222 Pin Bolt Drives <small>(05 05 19 00-0197)</small>		
Note: Includes drilling. Zinc plated.		
05 05 19 00-0223 EA 1/4" x 1" Pin Bolt Drive.....	7.11	
<i>For >10 To 50, Deduct</i>	-0.34	
<i>For >50 To 100, Deduct</i>	-0.68	
<i>For >100, Deduct</i>	-1.36	
05 05 19 00-0224 EA 1/4" x 1-1/4" Pin Bolt Drive.....	7.11	
<i>For >10 To 50, Deduct</i>	-0.34	
<i>For >50 To 100, Deduct</i>	-0.68	
<i>For >100, Deduct</i>	-1.36	
05 05 19 00-0225 EA 1/4" x 1-1/2" Pin Bolt Drive.....	7.16	
<i>For >10 To 50, Deduct</i>	-0.34	
<i>For >50 To 100, Deduct</i>	-0.68	
<i>For >100, Deduct</i>	-1.37	
05 05 19 00-0226 EA 1/4" x 2" Pin Bolt Drive.....	7.18	
<i>For >10 To 50, Deduct</i>	-0.34	
<i>For >50 To 100, Deduct</i>	-0.68	
<i>For >100, Deduct</i>	-1.37	
05 05 19 00-0227 Powder Actuated, Shot-In Place Anchors <small>(05 05 19 00-0197)</small>		
05 05 19 00-0228 EA 0.15" Diameter x 1/2" Length, Stud Powder Actuated Anchor.....	1.75	
<i>For >10 To 50, Deduct</i>	-0.08	
<i>For >50 To 100, Deduct</i>	-0.16	
<i>For >100, Deduct</i>	-0.31	
05 05 19 00-0229 EA 0.15" Diameter x 3/4" Length, Stud Powder Actuated Anchor.....	1.84	
<i>For >10 To 50, Deduct</i>	-0.08	
<i>For >50 To 100, Deduct</i>	-0.16	
<i>For >100, Deduct</i>	-0.33	
05 05 19 00-0230 EA 0.15"/0.18" Diameter x 1" Length, Stud Powder Actuated Anchor.....	2.00	
<i>For >10 To 50, Deduct</i>	-0.08	
<i>For >50 To 100, Deduct</i>	-0.18	
<i>For >100, Deduct</i>	-0.35	
05 05 19 00-0231 EA 0.15"/0.18" Diameter x 1-1/4" Length, Stud Powder Actuated Anchor.....	2.21	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.19	
<i>For >100, Deduct</i>	-0.38	
05 05 19 00-0232 EA 0.15"/0.18" Diameter x 1-7/8" Length, Stud Powder Actuated Anchor.....	2.31	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.19	
<i>For >100, Deduct</i>	-0.38	
05 05 19 00-0233 Powder Actuated, Shot-In Place Anchors With Exposed Thread <small>(05 05 19 00-0197)</small>		
05 05 19 00-0234 EA 0.145" Diameter x 1" Long Shank, 3/4" Thread Length, 1/4" - 20 Treaded Stud Powder Actuated Anchor.....	2.04	
<i>For >10 To 50, Deduct</i>	-0.08	
<i>For >50 To 100, Deduct</i>	-0.17	
<i>For >100, Deduct</i>	-0.34	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0235	EA		0.205" Diameter x 1-1/6" Long Shank, 1" Thread Length, 3/8" - 16 Treaded Stud Powder Actuated Anchor.....	2.75	
			<i>For >10 To 50, Deduct</i>	-0.10	
			<i>For >50 To 100, Deduct</i>	-0.21	
			<i>For >100, Deduct</i>	-0.42	
05 05 21 Fastening Methods for Metal <small>(05 05)</small>					
05 05 21 00-0001			Welding <small>(05 05 21)</small>		
05 05 21 00-0002			Minimum Charge For Welding <small>(05 05 21 00-0001)</small>		
05 05 21 00-0003	EA		Welding Minimum Charge.....	447.31	
			Note: For projects where the total welding charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
05 05 21 00-0004			Spot Welding <small>(05 05 21 00-0001)</small>		
			See CSI section 05 05 21 00-0007 for a series of welds.		
05 05 21 00-0005	EA		Up To 15 Spot Weldings, Welds Up To 1" Length Each.....	11.49	
			<i>For Aluminum Welding, Add</i>	1.80	
			<i>For Stainless Steel Welding, Add</i>	2.96	
05 05 21 00-0006	EA		>15 Spot Weldings, Welds Up To 1" Length Each.....	8.96	
			<i>For Aluminum Welding, Add</i>	1.42	
			<i>For Stainless Steel Welding, Add</i>	2.33	
05 05 21 00-0007			Field Welding (Seam And Stitch Welding) <small>(05 05 21 00-0001)</small>		
05 05 21 00-0008			Vertical Fillet Welds <small>(05 05 21 00-0007)</small>		
			Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.		
05 05 21 00-0009	LF		1/8" Vertical Fillet Weld.....	7.26	
			<i>For Aluminum Welding, Add</i>	1.44	
			<i>For Stainless Steel Welding, Add</i>	2.26	
			<i>For Up To 25, Add</i>	2.39	
			<i>For >25 To 50, Add</i>	1.70	
05 05 21 00-0010	LF		3/16" Vertical Fillet Weld.....	14.05	
			<i>For Aluminum Welding, Add</i>	2.55	
			<i>For Stainless Steel Welding, Add</i>	4.06	
			<i>For Up To 25, Add</i>	4.74	
			<i>For >25 To 50, Add</i>	3.37	
05 05 21 00-0011	LF		1/4" Vertical Fillet Weld.....	21.10	
			<i>For Aluminum Welding, Add</i>	3.83	
			<i>For Stainless Steel Welding, Add</i>	6.11	
			<i>For Up To 25, Add</i>	7.11	
			<i>For >25 To 50, Add</i>	5.05	
05 05 21 00-0012	LF		5/16" Vertical Fillet Weld.....	27.84	
			<i>For Aluminum Welding, Add</i>	5.08	
			<i>For Stainless Steel Welding, Add</i>	8.09	
			<i>For Up To 25, Add</i>	9.37	
			<i>For >25 To 50, Add</i>	6.66	
05 05 21 00-0013	LF		3/8" Vertical Fillet Weld.....	35.15	
			<i>For Aluminum Welding, Add</i>	6.38	
			<i>For Stainless Steel Welding, Add</i>	10.17	
			<i>For Up To 25, Add</i>	11.84	
			<i>For >25 To 50, Add</i>	8.42	
05 05 21 00-0014	LF		7/16" Vertical Fillet Weld.....	40.91	
			<i>For Aluminum Welding, Add</i>	7.01	
			<i>For Stainless Steel Welding, Add</i>	11.32	
			<i>For Up To 25, Add</i>	13.95	
			<i>For >25 To 50, Add</i>	9.94	
05 05 21 00-0015	LF		1/2" Vertical Fillet Weld.....	48.07	
			<i>For Aluminum Welding, Add</i>	8.76	
			<i>For Stainless Steel Welding, Add</i>	13.95	
			<i>For Up To 25, Add</i>	16.18	
			<i>For >25 To 50, Add</i>	11.50	
05 05 21 00-0016	LF		9/16" Vertical Fillet Weld.....	56.23	
			<i>For Aluminum Welding, Add</i>	9.82	
			<i>For Stainless Steel Welding, Add</i>	15.79	
			<i>For Up To 25, Add</i>	19.10	
			<i>For >25 To 50, Add</i>	13.60	
05 05 21 00-0017	LF		5/8" Vertical Fillet Weld.....	65.19	
			<i>For Aluminum Welding, Add</i>	11.42	
			<i>For Stainless Steel Welding, Add</i>	18.35	
			<i>For Up To 25, Add</i>	22.13	
			<i>For >25 To 50, Add</i>	15.75	
05 05 21 00-0018	LF		3/4" Vertical Fillet Weld.....	87.98	
			<i>For Aluminum Welding, Add</i>	16.01	
			<i>For Stainless Steel Welding, Add</i>	25.51	
			<i>For Up To 25, Add</i>	29.62	
			<i>For >25 To 50, Add</i>	21.06	
05 05 21 00-0019	LF		7/8" Vertical Fillet Weld.....	130.15	
			<i>For Aluminum Welding, Add</i>	22.66	
			<i>For Stainless Steel Welding, Add</i>	36.46	
			<i>For Up To 25, Add</i>	44.25	
			<i>For >25 To 50, Add</i>	31.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 21 00-0020 LF 1" Vertical Fillet Weld.....	175.32	
<i>For Aluminum Welding, Add</i>	31.55	
<i>For Stainless Steel Welding, Add</i>	50.40	
<i>For Up To 25, Add</i>	59.17	
<i>For >25 To 50, Add</i>	42.08	
05 05 21 00-0021 Horizontal Or Flat Fillet Welds <small>(05 05 21 00-0007)</small>		
<small>Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.</small>		
05 05 21 00-0022 LF 1/8" Horizontal Or Flat Fillet Weld.....	6.11	
<i>For Aluminum Welding, Add</i>	1.27	
<i>For Stainless Steel Welding, Add</i>	1.97	
<i>For Up To 25, Add</i>	1.99	
<i>For >25 To 50, Add</i>	1.41	
05 05 21 00-0023 LF 3/16" Horizontal Or Flat Fillet Weld.....	11.91	
<i>For Aluminum Welding, Add</i>	2.25	
<i>For Stainless Steel Welding, Add</i>	3.56	
<i>For Up To 25, Add</i>	3.98	
<i>For >25 To 50, Add</i>	2.82	
05 05 21 00-0024 LF 1/4" Horizontal Or Flat Fillet Weld.....	17.81	
<i>For Aluminum Welding, Add</i>	3.36	
<i>For Stainless Steel Welding, Add</i>	5.32	
<i>For Up To 25, Add</i>	5.95	
<i>For >25 To 50, Add</i>	4.22	
05 05 21 00-0025 LF 5/16" Horizontal Or Flat Fillet Weld.....	23.54	
<i>For Aluminum Welding, Add</i>	4.48	
<i>For Stainless Steel Welding, Add</i>	7.07	
<i>For Up To 25, Add</i>	7.84	
<i>For >25 To 50, Add</i>	5.57	
05 05 21 00-0026 LF 3/8" Horizontal Or Flat Fillet Weld.....	29.71	
<i>For Aluminum Welding, Add</i>	5.61	
<i>For Stainless Steel Welding, Add</i>	8.87	
<i>For Up To 25, Add</i>	9.92	
<i>For >25 To 50, Add</i>	7.04	
05 05 21 00-0027 LF 7/16" Horizontal Or Flat Fillet Weld.....	34.44	
<i>For Aluminum Welding, Add</i>	6.09	
<i>For Stainless Steel Welding, Add</i>	9.77	
<i>For Up To 25, Add</i>	11.67	
<i>For >25 To 50, Add</i>	8.30	
05 05 21 00-0028 LF 1/2" Horizontal Or Flat Fillet Weld.....	40.59	
<i>For Aluminum Welding, Add</i>	7.70	
<i>For Stainless Steel Welding, Add</i>	12.17	
<i>For Up To 25, Add</i>	13.53	
<i>For >25 To 50, Add</i>	9.61	
05 05 21 00-0029 LF 9/16" Horizontal Or Flat Fillet Weld.....	47.44	
<i>For Aluminum Welding, Add</i>	8.59	
<i>For Stainless Steel Welding, Add</i>	13.71	
<i>For Up To 25, Add</i>	15.99	
<i>For >25 To 50, Add</i>	11.37	
05 05 21 00-0030 LF 5/8" Horizontal Or Flat Fillet Weld.....	55.25	
<i>For Aluminum Welding, Add</i>	10.20	
<i>For Stainless Steel Welding, Add</i>	16.21	
<i>For Up To 25, Add</i>	18.54	
<i>For >25 To 50, Add</i>	13.17	
05 05 21 00-0031 LF 3/4" Horizontal Or Flat Fillet Weld.....	74.36	
<i>For Aluminum Welding, Add</i>	14.11	
<i>For Stainless Steel Welding, Add</i>	22.28	
<i>For Up To 25, Add</i>	24.80	
<i>For >25 To 50, Add</i>	17.61	
05 05 21 00-0032 LF 7/8" Horizontal Or Flat Fillet Weld.....	108.98	
<i>For Aluminum Welding, Add</i>	19.28	
<i>For Stainless Steel Welding, Add</i>	30.91	
<i>For Up To 25, Add</i>	36.92	
<i>For >25 To 50, Add</i>	26.27	
05 05 21 00-0033 LF 1" Horizontal Or Flat Fillet Weld.....	147.65	
<i>For Aluminum Welding, Add</i>	27.66	
<i>For Stainless Steel Welding, Add</i>	43.81	
<i>For Up To 25, Add</i>	49.38	
<i>For >25 To 50, Add</i>	35.07	
05 05 23 Metal Fastenings <small>(05 05)</small>		
05 05 23 00-0001 Drilling In Steel Plates <small>(05 05 23)</small>		
05 05 23 00-0002 EA >1-1/2" To 4" Diameter Drill Through Up To 1/4" Steel Plate.....	33.41	
<i>For Aluminum, Deduct</i>	-3.34	
<i>For Stainless Steel, Add</i>	4.18	
<i>For >5 To 10, Deduct</i>	-3.34	
<i>For >10 To 25, Deduct</i>	-8.35	
<i>For >25 To 50, Deduct</i>	-11.69	
<i>For >50, Deduct</i>	-16.71	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0003	EA		>4" To 10" Diameter Drill Through Up To 1/4" Steel Plate.....	44.74	
			<i>For Aluminum, Deduct</i>	-4.47	
			<i>For Stainless Steel, Add</i>	5.59	
			<i>For >5 To 10, Deduct</i>	-4.47	
			<i>For >10 To 25, Deduct</i>	-11.19	
			<i>For >25 To 50, Deduct</i>	-15.66	
			<i>For >50, Deduct</i>	-22.37	
05 05 23 00-0004	EA		>1-1/2" To 4" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	44.74	
			<i>For Aluminum, Deduct</i>	-4.47	
			<i>For Stainless Steel, Add</i>	5.59	
			<i>For >5 To 10, Deduct</i>	-4.47	
			<i>For >10 To 25, Deduct</i>	-11.19	
			<i>For >25 To 50, Deduct</i>	-15.66	
			<i>For >50, Deduct</i>	-22.37	
05 05 23 00-0005	EA		Up To 1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	29.83	
			<i>For Aluminum, Deduct</i>	-2.98	
			<i>For Stainless Steel, Add</i>	3.73	
			<i>For >5 To 10, Deduct</i>	-2.98	
			<i>For >10 To 25, Deduct</i>	-7.46	
			<i>For >25 To 50, Deduct</i>	-10.44	
			<i>For >50, Deduct</i>	-14.92	
05 05 23 00-0006	EA		>1/2" To 7/8" Diameter Drill Through >1/2" To 1" Steel Plate.....	39.37	
			<i>For Aluminum, Deduct</i>	-3.94	
			<i>For Stainless Steel, Add</i>	4.92	
			<i>For >5 To 10, Deduct</i>	-3.94	
			<i>For >10 To 25, Deduct</i>	-9.84	
			<i>For >25 To 50, Deduct</i>	-13.78	
			<i>For >50, Deduct</i>	-19.69	
05 05 23 00-0007	EA		>7/8" To 1-1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	47.72	
			<i>For >5 To 10, Deduct</i>	-4.77	
			<i>For >10 To 25, Deduct</i>	-11.93	
			<i>For >25 To 50, Deduct</i>	-16.70	
			<i>For >50, Deduct</i>	-23.86	
05 05 23 00-0008			Hex Bolts <small>(05 05 23)</small>		
			Note: For owner furnished materials or where requested by the owner. Excludes drilling through steel, concrete, brick or block. See CSI section 02 41 19 13-0277 for drilling into concrete, 02 41 19 13-0287 for drilling into brick or block, 02 41 19 13-0297 for drilling into wood or plastic, 05 05 23 00-0001 for drilling through steel.		
05 05 23 00-0009			A307B Heavy Hex Bolts <small>(05 05 23 00-0008)</small>		
			Note: Includes A307B heavy hex nut and two structural washers.		
05 05 23 00-0010			Plain Finish A307B Heavy Hex Bolts <small>(05 05 23 00-0009)</small>		
05 05 23 00-0011	EA		1/2" Diameter x 1-1/2" Long, Plain Finish A307B Heavy Hex Bolt.....	12.58	1.27
			<i>For >10 To 50, Deduct</i>	-0.53	
			<i>For >50 To 100, Deduct</i>	-1.11	
			<i>For >100, Deduct</i>	-2.23	
05 05 23 00-0012	EA		1/2" Diameter x 3" Long, Plain Finish A307B Heavy Hex Bolt.....	13.70	1.27
			<i>For >10 To 50, Deduct</i>	-0.53	
			<i>For >50 To 100, Deduct</i>	-1.14	
			<i>For >100, Deduct</i>	-2.28	
05 05 23 00-0013	EA		5/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt.....	13.73	1.27
			<i>For >10 To 50, Deduct</i>	-0.53	
			<i>For >50 To 100, Deduct</i>	-1.14	
			<i>For >100, Deduct</i>	-2.28	
05 05 23 00-0014	EA		5/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt.....	16.28	1.46
			<i>For >10 To 50, Deduct</i>	-0.61	
			<i>For >50 To 100, Deduct</i>	-1.32	
			<i>For >100, Deduct</i>	-2.64	
05 05 23 00-0015	EA		3/4" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt.....	15.61	1.27
			<i>For >10 To 50, Deduct</i>	-0.53	
			<i>For >50 To 100, Deduct</i>	-1.19	
			<i>For >100, Deduct</i>	-2.38	
05 05 23 00-0016	EA		3/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt.....	18.60	1.46
			<i>For >10 To 50, Deduct</i>	-0.61	
			<i>For >50 To 100, Deduct</i>	-1.38	
			<i>For >100, Deduct</i>	-2.75	
05 05 23 00-0017	EA		3/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt.....	23.09	1.52
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.53	
			<i>For >100, Deduct</i>	-3.06	
05 05 23 00-0018	EA		3/4" Diameter x 8" Long, Plain Finish A307B Heavy Hex Bolt.....	24.75	1.60
			<i>For >10 To 50, Deduct</i>	-0.67	
			<i>For >50 To 100, Deduct</i>	-1.62	
			<i>For >100, Deduct</i>	-3.24	
05 05 23 00-0019	EA		7/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt.....	18.50	1.38
			<i>For >10 To 50, Deduct</i>	-0.58	
			<i>For >50 To 100, Deduct</i>	-1.33	
			<i>For >100, Deduct</i>	-2.66	
05 05 23 00-0020	EA		7/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt.....	22.10	1.52
			<i>For >10 To 50, Deduct</i>	-0.63	
			<i>For >50 To 100, Deduct</i>	-1.50	
			<i>For >100, Deduct</i>	-3.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0021 EA 1" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	25.75	1.60
<i>For >10 To 50, Deduct</i>	-0.67	
<i>For >50 To 100, Deduct</i>	-1.65	
<i>For >100, Deduct</i>	-3.29	
05 05 23 00-0022 EA 1" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	35.94	1.68
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-1.95	
<i>For >100, Deduct</i>	-3.90	
05 05 23 00-0023 EA 1-1/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	41.97	1.91
<i>For >10 To 50, Deduct</i>	-0.79	
<i>For >50 To 100, Deduct</i>	-2.24	
<i>For >100, Deduct</i>	-4.48	
05 05 23 00-0024 EA 1-1/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	47.11	2.04
<i>For >10 To 50, Deduct</i>	-0.85	
<i>For >50 To 100, Deduct</i>	-2.45	
<i>For >100, Deduct</i>	-4.91	
05 05 23 00-0025 Galvanized A307B Heavy Hex Bolts (05 05 23 00-0009)		
05 05 23 00-0026 EA 1/2" Diameter x 1-1/2" Long, Galvanized A307B Heavy Hex Bolt	13.13	1.27
<i>For >10 To 50, Deduct</i>	-0.53	
<i>For >50 To 100, Deduct</i>	-1.13	
<i>For >100, Deduct</i>	-2.25	
05 05 23 00-0027 EA 1/2" Diameter x 3" Long, Galvanized A307B Heavy Hex Bolt	14.07	1.27
<i>For >10 To 50, Deduct</i>	-0.53	
<i>For >50 To 100, Deduct</i>	-1.15	
<i>For >100, Deduct</i>	-2.30	
05 05 23 00-0028 EA 5/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	15.08	1.27
<i>For >10 To 50, Deduct</i>	-0.53	
<i>For >50 To 100, Deduct</i>	-1.18	
<i>For >100, Deduct</i>	-2.35	
05 05 23 00-0029 EA 5/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	17.63	1.46
<i>For >10 To 50, Deduct</i>	-0.61	
<i>For >50 To 100, Deduct</i>	-1.35	
<i>For >100, Deduct</i>	-2.71	
05 05 23 00-0030 EA 3/4" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	17.14	1.27
<i>For >10 To 50, Deduct</i>	-0.53	
<i>For >50 To 100, Deduct</i>	-1.23	
<i>For >100, Deduct</i>	-2.45	
05 05 23 00-0031 EA 3/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	21.44	1.46
<i>For >10 To 50, Deduct</i>	-0.61	
<i>For >50 To 100, Deduct</i>	-1.45	
<i>For >100, Deduct</i>	-2.89	
05 05 23 00-0032 EA 3/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt	27.98	1.52
<i>For >10 To 50, Deduct</i>	-0.64	
<i>For >50 To 100, Deduct</i>	-1.65	
<i>For >100, Deduct</i>	-3.31	
05 05 23 00-0033 EA 3/4" Diameter x 8" Long, Galvanized A307B Heavy Hex Bolt	32.67	1.60
<i>For >10 To 50, Deduct</i>	-0.67	
<i>For >50 To 100, Deduct</i>	-1.82	
<i>For >100, Deduct</i>	-3.64	
05 05 23 00-0034 EA 7/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	22.52	1.38
<i>For >10 To 50, Deduct</i>	-0.58	
<i>For >50 To 100, Deduct</i>	-1.43	
<i>For >100, Deduct</i>	-2.86	
05 05 23 00-0035 EA 7/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	26.64	1.52
<i>For >10 To 50, Deduct</i>	-0.63	
<i>For >50 To 100, Deduct</i>	-1.62	
<i>For >100, Deduct</i>	-3.24	
05 05 23 00-0036 EA 1" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	31.60	1.60
<i>For >10 To 50, Deduct</i>	-0.67	
<i>For >50 To 100, Deduct</i>	-1.79	
<i>For >100, Deduct</i>	-3.59	
05 05 23 00-0037 EA 1" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt	46.54	1.68
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-2.22	
<i>For >100, Deduct</i>	-4.43	
05 05 23 00-0038 EA 1-1/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	46.72	1.91
<i>For >10 To 50, Deduct</i>	-0.79	
<i>For >50 To 100, Deduct</i>	-2.36	
<i>For >100, Deduct</i>	-4.72	
05 05 23 00-0039 EA 1-1/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt	58.09	2.04
<i>For >10 To 50, Deduct</i>	-0.85	
<i>For >50 To 100, Deduct</i>	-2.73	
<i>For >100, Deduct</i>	-5.45	
05 05 23 00-0040 A325 High Strength Structural Bolts (05 05 23 00-0008)		
Note: Includes A325 heavy hex nut and two structural washers.		
05 05 23 00-0041 Plain Finish A325 High Strength Structural Bolts (05 05 23 00-0040)		
Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0042 EA 1/2" Diameter x 1-1/2" Long, Plain Finish A325 High Strength Structural Bolt	12.33	1.27
<i>For >10 To 50, Deduct</i>	-0.53	
<i>For >50 To 100, Deduct</i>	-1.11	
<i>For >100, Deduct</i>	-2.21	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0043	EA		1/2" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	12.57	1.27
			<i>For >10 To 50, Deduct</i>	-0.53	
			<i>For >50 To 100, Deduct</i>	-1.11	
			<i>For >100, Deduct</i>	-2.23	
05 05 23 00-0044	EA		5/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	13.36	1.27
			<i>For >10 To 50, Deduct</i>	-0.53	
			<i>For >50 To 100, Deduct</i>	-1.13	
			<i>For >100, Deduct</i>	-2.27	
05 05 23 00-0045	EA		5/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	16.30	1.46
			<i>For >10 To 50, Deduct</i>	-0.61	
			<i>For >50 To 100, Deduct</i>	-1.32	
			<i>For >100, Deduct</i>	-2.64	
05 05 23 00-0046	EA		5/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	18.72	1.52
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.42	
			<i>For >100, Deduct</i>	-2.84	
05 05 23 00-0047	EA		3/4" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	14.46	1.27
			<i>For >10 To 50, Deduct</i>	-0.53	
			<i>For >50 To 100, Deduct</i>	-1.16	
			<i>For >100, Deduct</i>	-2.32	
05 05 23 00-0048	EA		3/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	17.46	1.46
			<i>For >10 To 50, Deduct</i>	-0.61	
			<i>For >50 To 100, Deduct</i>	-1.35	
			<i>For >100, Deduct</i>	-2.70	
05 05 23 00-0049	EA		3/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	19.75	1.52
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.45	
			<i>For >100, Deduct</i>	-2.89	
05 05 23 00-0050	EA		3/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	24.06	1.60
			<i>For >10 To 50, Deduct</i>	-0.67	
			<i>For >50 To 100, Deduct</i>	-1.60	
			<i>For >100, Deduct</i>	-3.21	
05 05 23 00-0051	EA		7/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	16.69	1.38
			<i>For >10 To 50, Deduct</i>	-0.58	
			<i>For >50 To 100, Deduct</i>	-1.28	
			<i>For >100, Deduct</i>	-2.57	
05 05 23 00-0052	EA		7/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	20.18	1.52
			<i>For >10 To 50, Deduct</i>	-0.63	
			<i>For >50 To 100, Deduct</i>	-1.46	
			<i>For >100, Deduct</i>	-2.91	
05 05 23 00-0053	EA		7/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	22.92	1.60
			<i>For >10 To 50, Deduct</i>	-0.67	
			<i>For >50 To 100, Deduct</i>	-1.58	
			<i>For >100, Deduct</i>	-3.15	
05 05 23 00-0054	EA		7/8" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	24.79	1.68
			<i>For >10 To 50, Deduct</i>	-0.70	
			<i>For >50 To 100, Deduct</i>	-1.67	
			<i>For >100, Deduct</i>	-3.35	
05 05 23 00-0055	EA		1" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	18.37	1.44
			<i>For >10 To 50, Deduct</i>	-0.60	
			<i>For >50 To 100, Deduct</i>	-1.36	
			<i>For >100, Deduct</i>	-2.72	
05 05 23 00-0056	EA		1" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	21.99	1.60
			<i>For >10 To 50, Deduct</i>	-0.67	
			<i>For >50 To 100, Deduct</i>	-1.55	
			<i>For >100, Deduct</i>	-3.11	
05 05 23 00-0057	EA		1" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	25.32	1.68
			<i>For >10 To 50, Deduct</i>	-0.70	
			<i>For >50 To 100, Deduct</i>	-1.69	
			<i>For >100, Deduct</i>	-3.37	
05 05 23 00-0058	EA		1" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	32.09	1.79
			<i>For >10 To 50, Deduct</i>	-0.75	
			<i>For >50 To 100, Deduct</i>	-1.92	
			<i>For >100, Deduct</i>	-3.85	
05 05 23 00-0059	EA		1-1/4" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	30.71	1.79
			<i>For >10 To 50, Deduct</i>	-0.75	
			<i>For >50 To 100, Deduct</i>	-1.89	
			<i>For >100, Deduct</i>	-3.78	
05 05 23 00-0060	EA		1-1/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	34.69	1.91
			<i>For >10 To 50, Deduct</i>	-0.79	
			<i>For >50 To 100, Deduct</i>	-2.06	
			<i>For >100, Deduct</i>	-4.11	
05 05 23 00-0061	EA		1-1/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	40.55	2.04
			<i>For >10 To 50, Deduct</i>	-0.85	
			<i>For >50 To 100, Deduct</i>	-2.29	
			<i>For >100, Deduct</i>	-4.58	
05 05 23 00-0062	EA		1-1/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	47.40	2.18
			<i>For >10 To 50, Deduct</i>	-0.91	
			<i>For >50 To 100, Deduct</i>	-2.54	
			<i>For >100, Deduct</i>	-5.09	

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

Note: Includes A325 heavy hex nut and structural washer.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0064 EA 1/2" Diameter x 1-1/2" Long, Galvanized A325 High Strength Structural Bolt.....	12.82	1.27
<i>For >10 To 50, Deduct</i>	-0.53	
<i>For >50 To 100, Deduct</i>	-1.12	
<i>For >100, Deduct</i>	-2.24	
05 05 23 00-0065 EA 1/2" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt.....	12.99	1.27
<i>For >10 To 50, Deduct</i>	-0.53	
<i>For >50 To 100, Deduct</i>	-1.12	
<i>For >100, Deduct</i>	-2.25	
05 05 23 00-0066 EA 5/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	14.40	1.27
<i>For >10 To 50, Deduct</i>	-0.53	
<i>For >50 To 100, Deduct</i>	-1.16	
<i>For >100, Deduct</i>	-2.32	
05 05 23 00-0067 EA 5/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	17.04	1.46
<i>For >10 To 50, Deduct</i>	-0.61	
<i>For >50 To 100, Deduct</i>	-1.34	
<i>For >100, Deduct</i>	-2.68	
05 05 23 00-0068 EA 5/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	18.01	1.52
<i>For >10 To 50, Deduct</i>	-0.64	
<i>For >50 To 100, Deduct</i>	-1.40	
<i>For >100, Deduct</i>	-2.81	
05 05 23 00-0069 EA 3/4" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	14.94	1.27
<i>For >10 To 50, Deduct</i>	-0.53	
<i>For >50 To 100, Deduct</i>	-1.17	
<i>For >100, Deduct</i>	-2.34	
05 05 23 00-0070 EA 3/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	18.06	1.46
<i>For >10 To 50, Deduct</i>	-0.61	
<i>For >50 To 100, Deduct</i>	-1.36	
<i>For >100, Deduct</i>	-2.73	
05 05 23 00-0071 EA 3/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	20.69	1.52
<i>For >10 To 50, Deduct</i>	-0.64	
<i>For >50 To 100, Deduct</i>	-1.47	
<i>For >100, Deduct</i>	-2.94	
05 05 23 00-0072 EA 3/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	26.28	1.60
<i>For >10 To 50, Deduct</i>	-0.67	
<i>For >50 To 100, Deduct</i>	-1.66	
<i>For >100, Deduct</i>	-3.32	
05 05 23 00-0073 EA 7/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	19.56	1.38
<i>For >10 To 50, Deduct</i>	-0.58	
<i>For >50 To 100, Deduct</i>	-1.36	
<i>For >100, Deduct</i>	-2.71	
05 05 23 00-0074 EA 7/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	21.88	1.52
<i>For >10 To 50, Deduct</i>	-0.63	
<i>For >50 To 100, Deduct</i>	-1.50	
<i>For >100, Deduct</i>	-3.00	
05 05 23 00-0075 EA 7/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	24.98	1.60
<i>For >10 To 50, Deduct</i>	-0.67	
<i>For >50 To 100, Deduct</i>	-1.63	
<i>For >100, Deduct</i>	-3.25	
05 05 23 00-0076 EA 7/8" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	30.96	1.68
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-1.83	
<i>For >100, Deduct</i>	-3.66	
05 05 23 00-0077 EA 1" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	20.60	1.44
<i>For >10 To 50, Deduct</i>	-0.60	
<i>For >50 To 100, Deduct</i>	-1.42	
<i>For >100, Deduct</i>	-2.83	
05 05 23 00-0078 EA 1" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	27.10	1.60
<i>For >10 To 50, Deduct</i>	-0.67	
<i>For >50 To 100, Deduct</i>	-1.68	
<i>For >100, Deduct</i>	-3.36	
05 05 23 00-0079 EA 1" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	29.60	1.68
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-1.79	
<i>For >100, Deduct</i>	-3.59	
05 05 23 00-0080 EA 1" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	37.37	1.79
<i>For >10 To 50, Deduct</i>	-0.75	
<i>For >50 To 100, Deduct</i>	-2.06	
<i>For >100, Deduct</i>	-4.11	
05 05 23 00-0081 EA 1-1/4" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt.....	37.15	1.79
<i>For >10 To 50, Deduct</i>	-0.75	
<i>For >50 To 100, Deduct</i>	-2.05	
<i>For >100, Deduct</i>	-4.10	
05 05 23 00-0082 EA 1-1/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	39.61	1.91
<i>For >10 To 50, Deduct</i>	-0.79	
<i>For >50 To 100, Deduct</i>	-2.18	
<i>For >100, Deduct</i>	-4.36	
05 05 23 00-0083 EA 1-1/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	46.19	2.04
<i>For >10 To 50, Deduct</i>	-0.85	
<i>For >50 To 100, Deduct</i>	-2.43	
<i>For >100, Deduct</i>	-4.86	
05 05 23 00-0084 EA 1-1/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	53.30	2.18
<i>For >10 To 50, Deduct</i>	-0.91	
<i>For >50 To 100, Deduct</i>	-2.69	
<i>For >100, Deduct</i>	-5.38	

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

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
05 05 23 00-0085		A490 High Strength Structural Bolts <small>(05 05 23 00-0085)</small>			
		Note: Includes A490 heavy hex nut and two structural washers.			
05 05 23 00-0086		Plain Finish A490 High Strength Structural Bolts <small>(05 05 23 00-0085)</small>			
05 05 23 00-0087	EA	5/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	13.75		1.27
		For >10 To 50, Deduct	-0.53		
		For >50 To 100, Deduct	-1.14		
		For >100, Deduct	-2.29		
05 05 23 00-0088	EA	5/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	18.98		1.46
		For >10 To 50, Deduct	-0.61		
		For >50 To 100, Deduct	-1.39		
		For >100, Deduct	-2.77		
05 05 23 00-0089	EA	5/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	20.26		1.52
		For >10 To 50, Deduct	-0.64		
		For >50 To 100, Deduct	-1.46		
		For >100, Deduct	-2.92		
05 05 23 00-0090	EA	3/4" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	15.27		1.27
		For >10 To 50, Deduct	-0.53		
		For >50 To 100, Deduct	-1.18		
		For >100, Deduct	-2.36		
05 05 23 00-0091	EA	3/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	18.38		1.46
		For >10 To 50, Deduct	-0.61		
		For >50 To 100, Deduct	-1.37		
		For >100, Deduct	-2.74		
05 05 23 00-0092	EA	3/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	21.24		1.52
		For >10 To 50, Deduct	-0.64		
		For >50 To 100, Deduct	-1.48		
		For >100, Deduct	-2.97		
05 05 23 00-0093	EA	3/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	26.95		1.60
		For >10 To 50, Deduct	-0.67		
		For >50 To 100, Deduct	-1.68		
		For >100, Deduct	-3.35		
05 05 23 00-0094	EA	7/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	17.63		1.38
		For >10 To 50, Deduct	-0.58		
		For >50 To 100, Deduct	-1.31		
		For >100, Deduct	-2.61		
05 05 23 00-0095	EA	7/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	20.48		1.52
		For >10 To 50, Deduct	-0.63		
		For >50 To 100, Deduct	-1.46		
		For >100, Deduct	-2.93		
05 05 23 00-0096	EA	7/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	28.96		1.60
		For >10 To 50, Deduct	-0.67		
		For >50 To 100, Deduct	-1.73		
		For >100, Deduct	-3.45		
05 05 23 00-0097	EA	1" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	20.55		1.44
		For >10 To 50, Deduct	-0.60		
		For >50 To 100, Deduct	-1.41		
		For >100, Deduct	-2.83		
05 05 23 00-0098	EA	1" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	24.44		1.60
		For >10 To 50, Deduct	-0.67		
		For >50 To 100, Deduct	-1.61		
		For >100, Deduct	-3.23		
05 05 23 00-0099	EA	1" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	27.95		1.68
		For >10 To 50, Deduct	-0.70		
		For >50 To 100, Deduct	-1.75		
		For >100, Deduct	-3.51		
05 05 23 00-0100	EA	1-1/4" Diameter x 3" Long, Plain Finish A490 High Strength Structural Bolt.....	34.61		1.79
		For >10 To 50, Deduct	-0.75		
		For >50 To 100, Deduct	-1.99		
		For >100, Deduct	-3.97		
05 05 23 00-0101	EA	1-1/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	44.00		1.91
		For >10 To 50, Deduct	-0.79		
		For >50 To 100, Deduct	-2.29		
		For >100, Deduct	-4.58		
05 05 23 00-0102	EA	1-1/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	46.35		2.04
		For >10 To 50, Deduct	-0.85		
		For >50 To 100, Deduct	-2.43		
		For >100, Deduct	-4.87		
05 05 23 00-0103	EA	1-1/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	48.40		2.18
		For >10 To 50, Deduct	-0.91		
		For >50 To 100, Deduct	-2.57		
		For >100, Deduct	-5.14		
05 05 23 00-0104		Hex Head Bolts <small>(05 05 23 00-0008)</small>			
05 05 23 00-0105		Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0104)</small>			
05 05 23 00-0106		1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>			
05 05 23 00-0107	EA	1/4" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.08		
		For >100 To 250, Deduct	-1.40		
		For >250 To 500, Deduct	-1.75		
		For >500, Deduct	-2.10		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0108 EA 1/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.11	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0109 EA 1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.17	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0110 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.20	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0111 EA 1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.44	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0112 EA 1/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.47	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0113 EA 1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.56	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0114 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.76	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0115 EA 1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.79	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0116 EA 1/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.94	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0117 EA 1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.25	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0118 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.36	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0119 EA 1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.51	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0120 EA 1/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.04	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0121 EA 1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.28	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0122 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.34	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0123 5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>		
05 05 23 00-0124 EA 5/16" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.14	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0125 EA 5/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.16	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0126 EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.22	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0127 EA 5/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.26	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0128 EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.51	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0129	EA		5/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.61	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0130	EA		5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.65	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0131	EA		5/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.93	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0132	EA		5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.07	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0133	EA		5/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.13	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0134	EA		5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.37	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0135	EA		5/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.43	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0136	EA		5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.97	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0137	EA		5/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.43	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0138	EA		5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.67	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0139	EA		5/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.88	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0140			3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts ^{105 05} <small>23 00-0105</small>		
05 05 23 00-0141	EA		3/8" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.21	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0142	EA		3/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.23	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0143	EA		3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.30	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0144	EA		3/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.37	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0145	EA		3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.63	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0146	EA		3/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.76	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0147	EA		3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.88	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0148	EA		3/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.19	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0149	EA		3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.36	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0150 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.45	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0151 EA 3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.81	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0152 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.90	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0153 EA 3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.97	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0154 EA 3/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.21	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0155 EA 3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.31	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0156 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.45	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0157 7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>		
05 05 23 00-0158 EA 7/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.50	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0159 EA 7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.60	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0160 EA 7/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.61	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0161 EA 7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.95	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.05	
<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0162 EA 7/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.10	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.05	
<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0163 EA 7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.23	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.05	
<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0164 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.76	
<i>For >100 To 250, Deduct</i>	-1.68	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0165 EA 7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.85	
<i>For >100 To 250, Deduct</i>	-1.68	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0166 EA 7/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.03	
<i>For >100 To 250, Deduct</i>	-1.68	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0167 EA 7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.54	
<i>For >100 To 250, Deduct</i>	-1.72	
<i>For >250 To 500, Deduct</i>	-2.15	
<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0168 EA 7/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.63	
<i>For >100 To 250, Deduct</i>	-1.72	
<i>For >250 To 500, Deduct</i>	-2.15	
<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0169 EA 7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.86	
<i>For >100 To 250, Deduct</i>	-1.72	
<i>For >250 To 500, Deduct</i>	-2.15	
<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0170 EA 7/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.15	
<i>For >100 To 250, Deduct</i>	-1.76	
<i>For >250 To 500, Deduct</i>	-2.20	
<i>For >500, Deduct</i>	-2.64	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0171	EA		7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.36	
			<i>For >100 To 250, Deduct</i>	-1.76	
			<i>For >250 To 500, Deduct</i>	-2.20	
			<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0172	EA		7/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.77	
			<i>For >100 To 250, Deduct</i>	-1.76	
			<i>For >250 To 500, Deduct</i>	-2.20	
			<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0173			1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>		
05 05 23 00-0174	EA		1/2" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.42	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0175	EA		1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.54	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0176	EA		1/2" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.66	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0177	EA		1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.99	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0178	EA		1/2" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.12	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0179	EA		1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.25	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0180	EA		1/2" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.61	
			<i>For >100 To 250, Deduct</i>	-1.68	
			<i>For >250 To 500, Deduct</i>	-2.10	
			<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0181	EA		1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.76	
			<i>For >100 To 250, Deduct</i>	-1.68	
			<i>For >250 To 500, Deduct</i>	-2.10	
			<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0182	EA		1/2" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.01	
			<i>For >100 To 250, Deduct</i>	-1.68	
			<i>For >250 To 500, Deduct</i>	-2.10	
			<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0183	EA		1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.25	
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-2.15	
			<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0184	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.28	
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-2.15	
			<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0185	EA		1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.50	
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-2.15	
			<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0186	EA		1/2" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.88	
			<i>For >100 To 250, Deduct</i>	-1.76	
			<i>For >250 To 500, Deduct</i>	-2.20	
			<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0187	EA		1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.02	
			<i>For >100 To 250, Deduct</i>	-1.76	
			<i>For >250 To 500, Deduct</i>	-2.20	
			<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0188	EA		1/2" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.39	
			<i>For >100 To 250, Deduct</i>	-1.76	
			<i>For >250 To 500, Deduct</i>	-2.20	
			<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0189	EA		1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.77	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0190	EA		1/2" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.91	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0191	EA		1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.43	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0192 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.57	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0193 9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05)</small>		
<small>23 00-0105</small> EA 9/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.54	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0195 EA 9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.71	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0196 EA 9/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.75	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0197 EA 9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.49	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.05	
<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0198 EA 9/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.71	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.05	
<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0199 EA 9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.78	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.05	
<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0200 EA 9/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.01	
<i>For >100 To 250, Deduct</i>	-1.68	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0201 EA 9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.06	
<i>For >100 To 250, Deduct</i>	-1.68	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0202 EA 9/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.25	
<i>For >100 To 250, Deduct</i>	-1.68	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0203 EA 9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.50	
<i>For >100 To 250, Deduct</i>	-1.72	
<i>For >250 To 500, Deduct</i>	-2.15	
<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0204 EA 9/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.55	
<i>For >100 To 250, Deduct</i>	-1.72	
<i>For >250 To 500, Deduct</i>	-2.15	
<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0205 EA 9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.71	
<i>For >100 To 250, Deduct</i>	-1.72	
<i>For >250 To 500, Deduct</i>	-2.15	
<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0206 EA 9/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.08	
<i>For >100 To 250, Deduct</i>	-1.76	
<i>For >250 To 500, Deduct</i>	-2.20	
<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0207 EA 9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.27	
<i>For >100 To 250, Deduct</i>	-1.76	
<i>For >250 To 500, Deduct</i>	-2.20	
<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0208 EA 9/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.47	
<i>For >100 To 250, Deduct</i>	-1.76	
<i>For >250 To 500, Deduct</i>	-2.20	
<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0209 EA 9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.84	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0210 EA 9/16" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.07	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0211 EA 9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.22	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0212 EA 9/16" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.46	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0213			5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05)</small>		
			<small>23 00-0105</small>		
05 05 23 00-0214	EA		5/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.91	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0215	EA		5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.02	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0216	EA		5/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.16	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0217	EA		5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.56	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0218	EA		5/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.77	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0219	EA		5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.04	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0220	EA		5/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.58	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0221	EA		5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.99	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0222	EA		5/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.31	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0223	EA		5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.64	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0224	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.68	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0225	EA		5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.22	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0226	EA		5/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.73	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0227	EA		5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.16	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0228	EA		5/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.67	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0229	EA		5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.40	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0230	EA		5/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.89	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0231	EA		5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.40	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0232	EA		5/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.79	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0233			3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05)</small>		
			<small>23 00-0105</small>		
05 05 23 00-0234	EA		3/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.27	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0235 EA 3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.50	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0236 EA 3/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.70	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0237 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.16	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0238 EA 3/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.48	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0239 EA 3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.76	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0240 EA 3/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.26	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0241 EA 3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.65	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0242 EA 3/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.96	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0243 EA 3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.80	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0244 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.06	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0245 EA 3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.54	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0246 EA 3/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.77	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.45	
<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0247 EA 3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.90	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.45	
<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0248 EA 3/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.42	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.45	
<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0249 EA 3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.30	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0250 EA 3/4" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.82	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0251 EA 3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.52	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0252 EA 3/4" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.20	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0253 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>		
05 05 23 00-0254 EA 7/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.44	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0255 EA 7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.63	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0256	EA		7/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.72	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0257	EA		7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.19	
			<i>For >100 To 250, Deduct</i>	-2.04	
			<i>For >250 To 500, Deduct</i>	-2.55	
			<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0258	EA		7/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.70	
			<i>For >100 To 250, Deduct</i>	-2.04	
			<i>For >250 To 500, Deduct</i>	-2.55	
			<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0259	EA		7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.30	
			<i>For >100 To 250, Deduct</i>	-2.04	
			<i>For >250 To 500, Deduct</i>	-2.55	
			<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0260	EA		7/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.00	
			<i>For >100 To 250, Deduct</i>	-2.08	
			<i>For >250 To 500, Deduct</i>	-2.60	
			<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0261	EA		7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.87	
			<i>For >100 To 250, Deduct</i>	-2.08	
			<i>For >250 To 500, Deduct</i>	-2.60	
			<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0262	EA		7/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.35	
			<i>For >100 To 250, Deduct</i>	-2.08	
			<i>For >250 To 500, Deduct</i>	-2.60	
			<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0263	EA		7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.93	
			<i>For >100 To 250, Deduct</i>	-2.12	
			<i>For >250 To 500, Deduct</i>	-2.65	
			<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0264	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.22	
			<i>For >100 To 250, Deduct</i>	-2.12	
			<i>For >250 To 500, Deduct</i>	-2.65	
			<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0265	EA		7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.91	
			<i>For >100 To 250, Deduct</i>	-2.12	
			<i>For >250 To 500, Deduct</i>	-2.65	
			<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0266	EA		7/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.80	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0267	EA		7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.49	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0268	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.18	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0269	EA		7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.03	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0270	EA		7/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.76	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0271	EA		7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.42	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0272	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.14	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0273			1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0105)</small>		
05 05 23 00-0274	EA		1" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.29	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0275	EA		1" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.55	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0276	EA		1" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.55	
			<i>For >100 To 250, Deduct</i>	-2.04	
			<i>For >250 To 500, Deduct</i>	-2.55	
			<i>For >500, Deduct</i>	-3.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0277 EA 1" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.54	
<i>For >100 To 250, Deduct</i>	-2.04	
<i>For >250 To 500, Deduct</i>	-2.55	
<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0278 EA 1" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.45	
<i>For >100 To 250, Deduct</i>	-2.04	
<i>For >250 To 500, Deduct</i>	-2.55	
<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0279 EA 1" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.58	
<i>For >100 To 250, Deduct</i>	-2.08	
<i>For >250 To 500, Deduct</i>	-2.60	
<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0280 EA 1" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.45	
<i>For >100 To 250, Deduct</i>	-2.08	
<i>For >250 To 500, Deduct</i>	-2.60	
<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0281 EA 1" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.36	
<i>For >100 To 250, Deduct</i>	-2.08	
<i>For >250 To 500, Deduct</i>	-2.60	
<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0282 EA 1" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.01	
<i>For >100 To 250, Deduct</i>	-2.12	
<i>For >250 To 500, Deduct</i>	-2.65	
<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0283 EA 1" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.44	
<i>For >100 To 250, Deduct</i>	-2.12	
<i>For >250 To 500, Deduct</i>	-2.65	
<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0284 EA 1" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.20	
<i>For >100 To 250, Deduct</i>	-2.12	
<i>For >250 To 500, Deduct</i>	-2.65	
<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0285 EA 1" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.16	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0286 EA 1" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.91	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0287 EA 1" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.69	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0288 EA 1" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.51	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.75	
<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0289 EA 1" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.40	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.75	
<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0290 EA 1" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.18	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.75	
<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0291 EA 1" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.97	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.75	
<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0292 Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0104)</small>		
05 05 23 00-0293 1/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0294 EA 1/4" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.13	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0295 EA 1/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.17	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0296 EA 1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.20	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0297 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.27	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0298 EA 1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.54	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0299	EA		1/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.65	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0300	EA		1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.78	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0301	EA		1/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.08	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0302	EA		1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.23	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0303	EA		1/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.34	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0304	EA		1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.66	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0305	EA		1/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.76	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0306	EA		1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.86	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0307	EA		1/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.20	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0308	EA		1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.34	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0309	EA		1/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.48	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0310			5/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)		
05 05 23 00-0311	EA		5/16" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.21	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0312	EA		5/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.24	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0313	EA		5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.28	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0314	EA		5/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.37	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0315	EA		5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.64	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0316	EA		5/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.75	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0317	EA		5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.96	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0318	EA		5/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.25	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0319	EA		5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.40	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0320 EA 5/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.55	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0321 EA 5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.04	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0322 EA 5/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.09	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0323 EA 5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.28	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0324 EA 5/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.74	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0325 EA 5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.01	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0326 EA 5/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.26	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0327 3/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0328 EA 3/8" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.25	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0329 EA 3/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.27	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0330 EA 3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.36	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0331 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.46	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0332 EA 3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.76	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0333 EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.87	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0334 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.05	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0335 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.43	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0336 EA 3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.84	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0337 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.02	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0338 EA 3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.47	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0339 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.64	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0340 EA 3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.95	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0341 EA 3/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.38	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0342 EA 3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.79	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0343 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.12	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0344 7/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)		
05 05 23 00-0345 EA 7/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.43	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0346 EA 7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.51	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0347 EA 7/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.72	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0348 EA 7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.08	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	
05 05 23 00-0349 EA 7/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.24	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	
05 05 23 00-0350 EA 7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.38	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	
05 05 23 00-0351 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.77	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.10	
For >500, Deduct	-2.52	
05 05 23 00-0352 EA 7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.58	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.10	
For >500, Deduct	-2.52	
05 05 23 00-0353 EA 7/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.94	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.10	
For >500, Deduct	-2.52	
05 05 23 00-0354 EA 7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.26	
For >100 To 250, Deduct	-1.72	
For >250 To 500, Deduct	-2.15	
For >500, Deduct	-2.58	
05 05 23 00-0355 EA 7/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.42	
For >100 To 250, Deduct	-1.72	
For >250 To 500, Deduct	-2.15	
For >500, Deduct	-2.58	
05 05 23 00-0356 EA 7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.60	
For >100 To 250, Deduct	-1.72	
For >250 To 500, Deduct	-2.15	
For >500, Deduct	-2.58	
05 05 23 00-0357 EA 7/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.02	
For >100 To 250, Deduct	-1.76	
For >250 To 500, Deduct	-2.20	
For >500, Deduct	-2.64	
05 05 23 00-0358 EA 7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.26	
For >100 To 250, Deduct	-1.76	
For >250 To 500, Deduct	-2.20	
For >500, Deduct	-2.64	
05 05 23 00-0359 EA 7/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.50	
For >100 To 250, Deduct	-1.76	
For >250 To 500, Deduct	-2.20	
For >500, Deduct	-2.64	
05 05 23 00-0360 1/2" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)		
05 05 23 00-0361 EA 1/2" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.54	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0362 EA 1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.65	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0363 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.77	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0364 EA 1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.17	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.05	
<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0365 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.35	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.05	
<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0366 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.54	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.05	
<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0367 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.92	
<i>For >100 To 250, Deduct</i>	-1.68	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0368 EA 1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.56	
<i>For >100 To 250, Deduct</i>	-1.68	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0369 EA 1/2" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.60	
<i>For >100 To 250, Deduct</i>	-1.68	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0370 EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.24	
<i>For >100 To 250, Deduct</i>	-1.72	
<i>For >250 To 500, Deduct</i>	-2.15	
<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0371 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.48	
<i>For >100 To 250, Deduct</i>	-1.72	
<i>For >250 To 500, Deduct</i>	-2.15	
<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0372 EA 1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.12	
<i>For >100 To 250, Deduct</i>	-1.72	
<i>For >250 To 500, Deduct</i>	-2.15	
<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0373 EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.89	
<i>For >100 To 250, Deduct</i>	-1.76	
<i>For >250 To 500, Deduct</i>	-2.20	
<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0374 EA 1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.24	
<i>For >100 To 250, Deduct</i>	-1.76	
<i>For >250 To 500, Deduct</i>	-2.20	
<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0375 EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.38	
<i>For >100 To 250, Deduct</i>	-1.76	
<i>For >250 To 500, Deduct</i>	-2.20	
<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0376 EA 1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.24	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0377 EA 1/2" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.86	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0378 EA 1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.74	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0379 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.08	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0380 9/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>	8.88	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0382 EA 9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.09	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0383	EA		9/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.27	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0384	EA		9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.68	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0385	EA		9/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.93	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0386	EA		9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.22	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0387	EA		9/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.75	
			<i>For >100 To 250, Deduct</i>	-1.68	
			<i>For >250 To 500, Deduct</i>	-2.10	
			<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0388	EA		9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.86	
			<i>For >100 To 250, Deduct</i>	-1.68	
			<i>For >250 To 500, Deduct</i>	-2.10	
			<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0389	EA		9/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.15	
			<i>For >100 To 250, Deduct</i>	-1.68	
			<i>For >250 To 500, Deduct</i>	-2.10	
			<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0390	EA		9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.68	
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-2.15	
			<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0391	EA		9/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.98	
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-2.15	
			<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0392	EA		9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.01	
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-2.15	
			<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0393	EA		9/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.46	
			<i>For >100 To 250, Deduct</i>	-1.76	
			<i>For >250 To 500, Deduct</i>	-2.20	
			<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0394	EA		9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.88	
			<i>For >100 To 250, Deduct</i>	-1.76	
			<i>For >250 To 500, Deduct</i>	-2.20	
			<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0395	EA		9/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.59	
			<i>For >100 To 250, Deduct</i>	-1.76	
			<i>For >250 To 500, Deduct</i>	-2.20	
			<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0396	EA		9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.46	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0397	EA		9/16" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.71	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0398	EA		9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.97	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0399	EA		9/16" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.61	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0400			5/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0401	EA		5/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.10	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0402	EA		5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.17	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0403	EA		5/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.23	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0404 EA 5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.63	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0405 EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.97	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0406 EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.27	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0407 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.79	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0408 EA 5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.39	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0409 EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.71	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0410 EA 5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.07	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0411 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.58	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0412 EA 5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.39	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0413 EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.33	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.45	
<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0414 EA 5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.00	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.45	
<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0415 EA 5/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.10	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.45	
<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0416 EA 5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.50	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0417 EA 5/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.41	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0418 EA 5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.73	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0419 EA 5/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.19	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0420 3/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0421 EA 3/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.86	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0422 EA 3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.99	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0423 EA 3/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.06	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0424 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.55	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0425	EA		3/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.89	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0426	EA		3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.40	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0427	EA		3/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.95	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0428	EA		3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.28	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0429	EA		3/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.98	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0430	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.50	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0431	EA		3/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.07	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0432	EA		3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.77	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0433	EA		3/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.96	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0434	EA		3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.69	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0435	EA		3/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.10	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0436	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.38	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0437	EA		3/4" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.75	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0438	EA		3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.95	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0439	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.25	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0440			7/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0292)	12.80	
05 05 23 00-0441	EA		7/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.80	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0442	EA		7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.97	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0443	EA		7/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.19	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0444	EA		7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.63	
			<i>For >100 To 250, Deduct</i>	-2.04	
			<i>For >250 To 500, Deduct</i>	-2.55	
			<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0445	EA		7/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.31	
			<i>For >100 To 250, Deduct</i>	-2.04	
			<i>For >250 To 500, Deduct</i>	-2.55	
			<i>For >500, Deduct</i>	-3.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0446 EA 7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.76	
<i>For >100 To 250, Deduct</i>	-2.04	
<i>For >250 To 500, Deduct</i>	-2.55	
<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0447 EA 7/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.30	
<i>For >100 To 250, Deduct</i>	-2.08	
<i>For >250 To 500, Deduct</i>	-2.60	
<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0448 EA 7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.10	
<i>For >100 To 250, Deduct</i>	-2.08	
<i>For >250 To 500, Deduct</i>	-2.60	
<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0449 EA 7/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.70	
<i>For >100 To 250, Deduct</i>	-2.08	
<i>For >250 To 500, Deduct</i>	-2.60	
<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0450 EA 7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.19	
<i>For >100 To 250, Deduct</i>	-2.12	
<i>For >250 To 500, Deduct</i>	-2.65	
<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0451 EA 7/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.69	
<i>For >100 To 250, Deduct</i>	-2.12	
<i>For >250 To 500, Deduct</i>	-2.65	
<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0452 EA 7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.85	
<i>For >100 To 250, Deduct</i>	-2.12	
<i>For >250 To 500, Deduct</i>	-2.65	
<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0453 EA 7/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.82	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0454 EA 7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.76	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0455 EA 7/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.82	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0456 EA 7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.39	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.75	
<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0457 EA 7/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	24.31	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.75	
<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0458 EA 7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.10	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.75	
<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0459 EA 7/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.89	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.75	
<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0460 1" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0292)</small>		
05 05 23 00-0461 EA 1" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.31	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0462 EA 1" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.36	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0463 EA 1" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.08	
<i>For >100 To 250, Deduct</i>	-2.04	
<i>For >250 To 500, Deduct</i>	-2.55	
<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0464 EA 1" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.73	
<i>For >100 To 250, Deduct</i>	-2.04	
<i>For >250 To 500, Deduct</i>	-2.55	
<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0465 EA 1" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.22	
<i>For >100 To 250, Deduct</i>	-2.04	
<i>For >250 To 500, Deduct</i>	-2.55	
<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0466 EA 1" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.03	
<i>For >100 To 250, Deduct</i>	-2.08	
<i>For >250 To 500, Deduct</i>	-2.60	
<i>For >500, Deduct</i>	-3.12	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0467	EA		1" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.80	
			<i>For >100 To 250, Deduct</i>	-2.08	
			<i>For >250 To 500, Deduct</i>	-2.60	
			<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0468	EA		1" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.92	
			<i>For >100 To 250, Deduct</i>	-2.08	
			<i>For >250 To 500, Deduct</i>	-2.60	
			<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0469	EA		1" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.92	
			<i>For >100 To 250, Deduct</i>	-2.12	
			<i>For >250 To 500, Deduct</i>	-2.65	
			<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0470	EA		1" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.16	
			<i>For >100 To 250, Deduct</i>	-2.12	
			<i>For >250 To 500, Deduct</i>	-2.65	
			<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0471	EA		1" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.72	
			<i>For >100 To 250, Deduct</i>	-2.12	
			<i>For >250 To 500, Deduct</i>	-2.65	
			<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0472	EA		1" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.92	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0473	EA		1" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	24.59	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0474	EA		1" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.06	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0475	EA		1" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	30.58	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0476	EA		1" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	31.01	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0477	EA		1" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	32.15	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0478	EA		1" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	32.93	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0479			Zinc Plated Steel, Grade 8, Hex Head Bolts <i>(05 05 23 00-0104)</i>		
05 05 23 00-0480			1/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <i>(05 05 23 00-0479)</i>		
05 05 23 00-0481	EA		1/4" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.15	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0482	EA		1/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.23	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0483	EA		1/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.27	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0484	EA		1/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.35	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0485	EA		1/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.61	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0486	EA		1/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.70	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0487	EA		1/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.79	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0488	EA		1/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.99	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0489 EA 1/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.25	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0490 EA 1/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.49	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0491 EA 1/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.81	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0492 EA 1/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.94	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0493 EA 1/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.11	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0494 EA 1/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.42	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0495 EA 1/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.74	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0496 EA 1/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.88	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0497 5/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0479)</small>		
05 05 23 00-0498 EA 5/16" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.22	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0499 EA 5/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.27	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0500 EA 5/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.42	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0501 EA 5/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.45	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0502 EA 5/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.74	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0503 EA 5/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.96	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0504 EA 5/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.03	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0505 EA 5/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.35	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0506 EA 5/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.50	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0507 EA 5/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.83	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0508 EA 5/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.22	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0509 EA 5/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.35	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0510	EA		5/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.54	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0511	EA		5/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.87	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0512	EA		5/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.02	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0513	EA		5/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.29	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0514			3/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0515	EA		3/8" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.38	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0516	EA		3/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.40	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0517	EA		3/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.41	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0518	EA		3/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.59	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0519	EA		3/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.90	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0520	EA		3/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.08	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0521	EA		3/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.24	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0522	EA		3/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.94	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0523	EA		3/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.15	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0524	EA		3/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.19	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0525	EA		3/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.47	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0526	EA		3/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.69	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0527	EA		3/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.70	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0528	EA		3/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.14	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0529	EA		3/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.59	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0530	EA		3/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.65	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0531 7/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0479)</small>		
05 05 23 00-0532 EA 7/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.55	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0533 EA 7/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.57	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0534 EA 7/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.86	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0535 EA 7/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.08	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	
05 05 23 00-0536 EA 7/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.40	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	
05 05 23 00-0537 EA 7/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.58	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	
05 05 23 00-0538 EA 7/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.81	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.10	
For >500, Deduct	-2.52	
05 05 23 00-0539 EA 7/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.51	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.10	
For >500, Deduct	-2.52	
05 05 23 00-0540 EA 7/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.07	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.10	
For >500, Deduct	-2.52	
05 05 23 00-0541 EA 7/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.65	
For >100 To 250, Deduct	-1.72	
For >250 To 500, Deduct	-2.15	
For >500, Deduct	-2.58	
05 05 23 00-0542 EA 7/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.84	
For >100 To 250, Deduct	-1.72	
For >250 To 500, Deduct	-2.15	
For >500, Deduct	-2.58	
05 05 23 00-0543 EA 7/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.13	
For >100 To 250, Deduct	-1.72	
For >250 To 500, Deduct	-2.15	
For >500, Deduct	-2.58	
05 05 23 00-0544 EA 7/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.75	
For >100 To 250, Deduct	-1.76	
For >250 To 500, Deduct	-2.20	
For >500, Deduct	-2.64	
05 05 23 00-0545 EA 7/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.69	
For >100 To 250, Deduct	-1.76	
For >250 To 500, Deduct	-2.20	
For >500, Deduct	-2.64	
05 05 23 00-0546 EA 7/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.76	
For >100 To 250, Deduct	-1.76	
For >250 To 500, Deduct	-2.20	
For >500, Deduct	-2.64	
05 05 23 00-0547 1/2" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0479)</small>		
05 05 23 00-0548 EA 1/2" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.73	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0549 EA 1/2" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.94	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0550 EA 1/2" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.07	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0551 EA 1/2" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.40	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	
05 05 23 00-0552 EA 1/2" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.63	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0553	EA		1/2" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.14	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0554	EA		1/2" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.70	
			<i>For >100 To 250, Deduct</i>	-1.68	
			<i>For >250 To 500, Deduct</i>	-2.10	
			<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0555	EA		1/2" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.00	
			<i>For >100 To 250, Deduct</i>	-1.68	
			<i>For >250 To 500, Deduct</i>	-2.10	
			<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0556	EA		1/2" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.21	
			<i>For >100 To 250, Deduct</i>	-1.68	
			<i>For >250 To 500, Deduct</i>	-2.10	
			<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0557	EA		1/2" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.79	
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-2.15	
			<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0558	EA		1/2" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.44	
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-2.15	
			<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0559	EA		1/2" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.03	
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-2.15	
			<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0560	EA		1/2" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.74	
			<i>For >100 To 250, Deduct</i>	-1.76	
			<i>For >250 To 500, Deduct</i>	-2.20	
			<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0561	EA		1/2" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.00	
			<i>For >100 To 250, Deduct</i>	-1.76	
			<i>For >250 To 500, Deduct</i>	-2.20	
			<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0562	EA		1/2" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.74	
			<i>For >100 To 250, Deduct</i>	-1.76	
			<i>For >250 To 500, Deduct</i>	-2.20	
			<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0563	EA		1/2" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.18	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0564	EA		1/2" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.71	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0565	EA		1/2" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.99	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0566	EA		1/2" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.31	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0567			9/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0568	EA		9/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.92	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0569	EA		9/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.05	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0570	EA		9/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.33	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0571	EA		9/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.96	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0572	EA		9/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.06	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0573	EA		9/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.48	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500, Deduct</i>	-2.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0574 EA 9/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.96	
<i>For >100 To 250, Deduct</i>	-1.68	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0575 EA 9/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.33	
<i>For >100 To 250, Deduct</i>	-1.68	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0576 EA 9/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.60	
<i>For >100 To 250, Deduct</i>	-1.68	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0577 EA 9/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.02	
<i>For >100 To 250, Deduct</i>	-1.72	
<i>For >250 To 500, Deduct</i>	-2.15	
<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0578 EA 9/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.62	
<i>For >100 To 250, Deduct</i>	-1.72	
<i>For >250 To 500, Deduct</i>	-2.15	
<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0579 EA 9/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.87	
<i>For >100 To 250, Deduct</i>	-1.72	
<i>For >250 To 500, Deduct</i>	-2.15	
<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0580 EA 9/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.70	
<i>For >100 To 250, Deduct</i>	-1.76	
<i>For >250 To 500, Deduct</i>	-2.20	
<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0581 EA 9/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	21.95	
<i>For >100 To 250, Deduct</i>	-1.76	
<i>For >250 To 500, Deduct</i>	-2.20	
<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0582 EA 9/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	25.49	
<i>For >100 To 250, Deduct</i>	-1.76	
<i>For >250 To 500, Deduct</i>	-2.20	
<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0583 5/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0479)</small>		
05 05 23 00-0584 EA 5/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.37	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0585 EA 5/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.49	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0586 EA 5/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.81	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0587 EA 5/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.47	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0588 EA 5/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.85	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0589 EA 5/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.05	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0590 EA 5/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.40	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0591 EA 5/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.07	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0592 EA 5/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.37	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0593 EA 5/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.89	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0594 EA 5/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.21	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0595	EA		5/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.88	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0596	EA		5/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.66	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0597	EA		5/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.42	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0598	EA		5/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.73	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0599	EA		5/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.27	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0600	EA		5/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.76	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0601	EA		5/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.87	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0602	EA		5/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.26	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0603			3/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0479)</small>		
05 05 23 00-0604	EA		3/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.07	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0605	EA		3/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.21	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0606	EA		3/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.30	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0607	EA		3/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.69	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0608	EA		3/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.97	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0609	EA		3/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.78	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0610	EA		3/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.32	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0611	EA		3/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.39	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0612	EA		3/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.49	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0613	EA		3/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.09	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0614	EA		3/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.67	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0615	EA		3/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.74	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0616 EA 3/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.26	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.45	
<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0617 EA 3/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.83	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.45	
<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0618 EA 3/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.13	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.45	
<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0619 EA 3/4" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	20.74	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0620 EA 3/4" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.78	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0621 EA 3/4" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.53	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0622 EA 3/4" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.81	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0623 7/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0479)</small>		
05 05 23 00-0624 EA 7/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.01	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0625 EA 7/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.37	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0626 EA 7/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.11	
<i>For >100 To 250, Deduct</i>	-2.04	
<i>For >250 To 500, Deduct</i>	-2.55	
<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0627 EA 7/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.17	
<i>For >100 To 250, Deduct</i>	-2.04	
<i>For >250 To 500, Deduct</i>	-2.55	
<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0628 EA 7/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.30	
<i>For >100 To 250, Deduct</i>	-2.04	
<i>For >250 To 500, Deduct</i>	-2.55	
<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0629 EA 7/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.72	
<i>For >100 To 250, Deduct</i>	-2.08	
<i>For >250 To 500, Deduct</i>	-2.60	
<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0630 EA 7/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	19.30	
<i>For >100 To 250, Deduct</i>	-2.08	
<i>For >250 To 500, Deduct</i>	-2.60	
<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0631 EA 7/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.96	
<i>For >100 To 250, Deduct</i>	-2.08	
<i>For >250 To 500, Deduct</i>	-2.60	
<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0632 EA 7/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	21.69	
<i>For >100 To 250, Deduct</i>	-2.12	
<i>For >250 To 500, Deduct</i>	-2.65	
<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0633 EA 7/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.65	
<i>For >100 To 250, Deduct</i>	-2.12	
<i>For >250 To 500, Deduct</i>	-2.65	
<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0634 EA 7/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	25.15	
<i>For >100 To 250, Deduct</i>	-2.12	
<i>For >250 To 500, Deduct</i>	-2.65	
<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0635 EA 7/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.18	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0636 EA 7/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	28.74	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0637	EA		7/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	29.78	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0638	EA		7/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	30.81	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0639	EA		7/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	31.11	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0640	EA		7/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	31.37	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0641	EA		7/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	31.98	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0642			1" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0479)		
05 05 23 00-0643	EA		1" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.03	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0644	EA		1" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.92	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0645	EA		1" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.52	
			<i>For >100 To 250, Deduct</i>	-2.04	
			<i>For >250 To 500, Deduct</i>	-2.55	
			<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0646	EA		1" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.19	
			<i>For >100 To 250, Deduct</i>	-2.04	
			<i>For >250 To 500, Deduct</i>	-2.55	
			<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0647	EA		1" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.44	
			<i>For >100 To 250, Deduct</i>	-2.04	
			<i>For >250 To 500, Deduct</i>	-2.55	
			<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0648	EA		1" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.97	
			<i>For >100 To 250, Deduct</i>	-2.08	
			<i>For >250 To 500, Deduct</i>	-2.60	
			<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0649	EA		1" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.05	
			<i>For >100 To 250, Deduct</i>	-2.08	
			<i>For >250 To 500, Deduct</i>	-2.60	
			<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0650	EA		1" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.49	
			<i>For >100 To 250, Deduct</i>	-2.08	
			<i>For >250 To 500, Deduct</i>	-2.60	
			<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0651	EA		1" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.36	
			<i>For >100 To 250, Deduct</i>	-2.12	
			<i>For >250 To 500, Deduct</i>	-2.65	
			<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0652	EA		1" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.97	
			<i>For >100 To 250, Deduct</i>	-2.12	
			<i>For >250 To 500, Deduct</i>	-2.65	
			<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0653	EA		1" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	25.98	
			<i>For >100 To 250, Deduct</i>	-2.12	
			<i>For >250 To 500, Deduct</i>	-2.65	
			<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0654	EA		1" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.64	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0655	EA		1" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	30.04	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0656	EA		1" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	30.62	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0657	EA		1" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	32.63	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500, Deduct</i>	-3.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0658 EA 1" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	33.61	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.75	
<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0659 EA 1" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	36.20	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.75	
<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0660 EA 1" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	37.78	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.75	
<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0661 Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0104)</small>		
05 05 23 00-0662 1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0663 EA 1/4" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.26	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0664 EA 1/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.27	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0665 EA 1/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.29	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0666 EA 1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.47	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0667 EA 1/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.76	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0668 EA 1/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.77	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0669 EA 1/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.91	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0670 EA 1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.11	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0671 EA 1/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.24	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0672 EA 1/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.28	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0673 EA 1/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.57	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0674 EA 1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.68	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0675 EA 1/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.72	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0676 EA 1/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.02	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0677 EA 1/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.33	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0678 EA 1/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.72	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0679 5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0680 EA 5/16" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.17	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0681 EA 5/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.53	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0682 EA 5/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.56	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0683 EA 5/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.57	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0684 EA 5/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.93	
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-1.80	
For >500, Deduct	-2.16	
05 05 23 00-0685 EA 5/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.27	
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-1.80	
For >500, Deduct	-2.16	
05 05 23 00-0686 EA 5/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.33	
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-1.80	
For >500, Deduct	-2.16	
05 05 23 00-0687 EA 5/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.61	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.22	
05 05 23 00-0688 EA 5/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.64	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.22	
05 05 23 00-0689 EA 5/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.91	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.22	
05 05 23 00-0690 EA 5/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.18	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0691 EA 5/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.28	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0692 EA 5/16" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.54	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0693 EA 5/16" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.25	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0694 EA 5/16" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.66	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0695 EA 5/16" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.04	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0696 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0697 EA 3/8" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.28	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0698 EA 3/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.37	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0699 EA 3/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.45	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0700 EA 3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.67	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0701 EA 3/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.96	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0702 EA 3/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.14	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0703 EA 3/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.27	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0704 EA 3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.63	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0705 EA 3/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.72	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0706 EA 3/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.94	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0707 EA 3/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.23	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0708 EA 3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.53	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0709 EA 3/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.58	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0710 EA 3/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.80	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0711 EA 3/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.83	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0712 EA 3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.18	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0713 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts		
<small>(05 05 23 00-0661)</small>		
05 05 23 00-0714 EA 7/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.81	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0715 EA 7/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.19	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0716 EA 7/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.49	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0717 EA 7/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.19	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.05	
<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0718 EA 7/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.21	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.05	
<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0719 EA 7/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.24	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.05	
<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0720 EA 7/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.69	
<i>For >100 To 250, Deduct</i>	-1.68	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.52	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0721	EA		7/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.97	
			<i>For >100 To 250, Deduct</i>	-1.68	
			<i>For >250 To 500, Deduct</i>	-2.10	
			<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0722	EA		7/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.21	
			<i>For >100 To 250, Deduct</i>	-1.68	
			<i>For >250 To 500, Deduct</i>	-2.10	
			<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0723	EA		7/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.70	
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-2.15	
			<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0724	EA		7/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.99	
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-2.15	
			<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0725 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>					
05 05 23 00-0726	EA		1/2" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.63	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0727	EA		1/2" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.76	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0728	EA		1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.01	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0729	EA		1/2" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.50	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0730	EA		1/2" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.70	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0731	EA		1/2" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.06	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0732	EA		1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.32	
			<i>For >100 To 250, Deduct</i>	-1.68	
			<i>For >250 To 500, Deduct</i>	-2.10	
			<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0733	EA		1/2" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.45	
			<i>For >100 To 250, Deduct</i>	-1.68	
			<i>For >250 To 500, Deduct</i>	-2.10	
			<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0734	EA		1/2" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.74	
			<i>For >100 To 250, Deduct</i>	-1.68	
			<i>For >250 To 500, Deduct</i>	-2.10	
			<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0735	EA		1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.08	
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-2.15	
			<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0736	EA		1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.40	
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-2.15	
			<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0737	EA		1/2" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.43	
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-2.15	
			<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0738	EA		1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.68	
			<i>For >100 To 250, Deduct</i>	-1.76	
			<i>For >250 To 500, Deduct</i>	-2.20	
			<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0739	EA		1/2" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.77	
			<i>For >100 To 250, Deduct</i>	-1.76	
			<i>For >250 To 500, Deduct</i>	-2.20	
			<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0740	EA		1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.01	
			<i>For >100 To 250, Deduct</i>	-1.76	
			<i>For >250 To 500, Deduct</i>	-2.20	
			<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0741	EA		1/2" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.36	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0742 EA 1/2" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.56	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0743 EA 1/2" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.60	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0744 EA 1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.71	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0745 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0746 EA 5/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.09	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0747 EA 5/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.28	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0748 EA 5/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.42	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0749 EA 5/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.83	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0750 EA 5/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.12	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0751 EA 5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.76	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0752 EA 5/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.06	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0753 EA 5/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.17	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0754 EA 5/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.37	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0755 EA 5/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.82	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0756 EA 5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.05	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0757 EA 5/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.71	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0758 EA 5/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.95	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.45	
<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0759 EA 5/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.10	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.45	
<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0760 EA 5/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.44	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.45	
<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0761 EA 5/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.11	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0762 EA 5/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.65	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0763	EA		5/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.89	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0764	EA		5/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.99	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0765			3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0766	EA		3/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.02	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0767	EA		3/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.06	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0768	EA		3/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.30	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0769	EA		3/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.03	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0770	EA		3/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.93	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0771	EA		3/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.50	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0772	EA		3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.01	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0773	EA		3/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.06	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0774	EA		3/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.18	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0775	EA		3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.47	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0776	EA		3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.23	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0777	EA		3/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.54	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0778	EA		3/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.36	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0779	EA		3/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.46	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0780	EA		3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.77	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0781	EA		3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.42	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0782	EA		3/4" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.75	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0783	EA		3/4" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.94	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0784 EA 3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.03	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0785 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0661)</small>		
05 05 23 00-0786 EA 7/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.87	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0787 EA 7/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.24	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0788 EA 7/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.66	
<i>For >100 To 250, Deduct</i>	-2.04	
<i>For >250 To 500, Deduct</i>	-2.55	
<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0789 EA 7/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.57	
<i>For >100 To 250, Deduct</i>	-2.04	
<i>For >250 To 500, Deduct</i>	-2.55	
<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0790 EA 7/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.86	
<i>For >100 To 250, Deduct</i>	-2.04	
<i>For >250 To 500, Deduct</i>	-2.55	
<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0791 EA 7/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.43	
<i>For >100 To 250, Deduct</i>	-2.08	
<i>For >250 To 500, Deduct</i>	-2.60	
<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0792 EA 7/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.83	
<i>For >100 To 250, Deduct</i>	-2.08	
<i>For >250 To 500, Deduct</i>	-2.60	
<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0793 EA 7/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.35	
<i>For >100 To 250, Deduct</i>	-2.08	
<i>For >250 To 500, Deduct</i>	-2.60	
<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0794 EA 7/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.90	
<i>For >100 To 250, Deduct</i>	-2.12	
<i>For >250 To 500, Deduct</i>	-2.65	
<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0795 EA 7/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.30	
<i>For >100 To 250, Deduct</i>	-2.12	
<i>For >250 To 500, Deduct</i>	-2.65	
<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0796 EA 7/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.48	
<i>For >100 To 250, Deduct</i>	-2.12	
<i>For >250 To 500, Deduct</i>	-2.65	
<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0797 EA 7/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.12	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0798 EA 7/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.86	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0799 EA 7/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.03	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0800 EA 7/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.44	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.75	
<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0801 EA 7/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.85	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.75	
<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0802 EA 7/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.36	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.75	
<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0803 EA 7/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.84	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.75	
<i>For >500, Deduct</i>	-3.30	

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

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0805	EA		1" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	16.45	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0806	EA		1" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	16.77	
			<i>For >100 To 250, Deduct</i>	-2.04	
			<i>For >250 To 500, Deduct</i>	-2.55	
			<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0807	EA		1" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	17.46	
			<i>For >100 To 250, Deduct</i>	-2.04	
			<i>For >250 To 500, Deduct</i>	-2.55	
			<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0808	EA		1" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	18.00	
			<i>For >100 To 250, Deduct</i>	-2.04	
			<i>For >250 To 500, Deduct</i>	-2.55	
			<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0809	EA		1" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	19.44	
			<i>For >100 To 250, Deduct</i>	-2.08	
			<i>For >250 To 500, Deduct</i>	-2.60	
			<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0810	EA		1" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	19.72	
			<i>For >100 To 250, Deduct</i>	-2.08	
			<i>For >250 To 500, Deduct</i>	-2.60	
			<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0811	EA		1" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	20.52	
			<i>For >100 To 250, Deduct</i>	-2.08	
			<i>For >250 To 500, Deduct</i>	-2.60	
			<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0812	EA		1" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	20.80	
			<i>For >100 To 250, Deduct</i>	-2.12	
			<i>For >250 To 500, Deduct</i>	-2.65	
			<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0813	EA		1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	21.10	
			<i>For >100 To 250, Deduct</i>	-2.12	
			<i>For >250 To 500, Deduct</i>	-2.65	
			<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0814	EA		1" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	23.82	
			<i>For >100 To 250, Deduct</i>	-2.12	
			<i>For >250 To 500, Deduct</i>	-2.65	
			<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0815	EA		1" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	24.53	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0816	EA		1" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	25.67	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0817	EA		1" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	26.80	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0818	EA		1" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	27.34	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0819	EA		1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	28.25	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0820	EA		1" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	28.95	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0821	EA		1" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	29.98	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0822			304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0104)</small>		
05 05 23 00-0823			1/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0824	EA		1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.24	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0825	EA		1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.34	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0826	EA		1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.46	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0827 EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.59	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0828 EA 1/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.92	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0829 EA 1/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.11	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0830 EA 1/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.34	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0831 EA 1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.70	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0832 EA 1/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.98	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0833 EA 1/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.23	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0834 EA 1/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.64	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0835 EA 1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.06	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0836 EA 1/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.13	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0837 EA 1/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.81	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0838 EA 1/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.05	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0839 EA 1/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.61	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0840 5/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0841 EA 5/16" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.42	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0842 EA 5/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.51	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0843 EA 5/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.69	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0844 EA 5/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.84	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0845 EA 5/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.30	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0846 EA 5/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.39	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0847 EA 5/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.87	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0848	EA		5/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.39	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0849	EA		5/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.92	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0850	EA		5/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.18	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0851	EA		5/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.19	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0852	EA		5/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.51	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0853	EA		5/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.53	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0854	EA		5/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.61	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0855			3/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0856	EA		3/8" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.65	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0857	EA		3/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.76	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0858	EA		3/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.04	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0859	EA		3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.40	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0860	EA		3/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.79	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0861	EA		3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.08	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0862	EA		3/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.46	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-0863	EA		3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.00	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0864	EA		3/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.45	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0865	EA		3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.44	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	
05 05 23 00-0866	EA		3/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.76	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0867	EA		3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.58	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0868	EA		3/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.33	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0869 EA 3/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.94	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0870 EA 3/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.19	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0871 EA 3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.93	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0872 7/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0873 EA 7/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.56	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0874 EA 7/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.68	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0875 EA 7/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.15	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0876 EA 7/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.62	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.05	
<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0877 EA 7/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.18	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.05	
<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0878 EA 7/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.11	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.05	
<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0879 EA 7/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.73	
<i>For >100 To 250, Deduct</i>	-1.68	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0880 EA 7/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.82	
<i>For >100 To 250, Deduct</i>	-1.68	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0881 EA 7/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.29	
<i>For >100 To 250, Deduct</i>	-1.68	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0882 EA 7/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.98	
<i>For >100 To 250, Deduct</i>	-1.72	
<i>For >250 To 500, Deduct</i>	-2.15	
<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0883 EA 7/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.64	
<i>For >100 To 250, Deduct</i>	-1.72	
<i>For >250 To 500, Deduct</i>	-2.15	
<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0884 EA 7/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.86	
<i>For >100 To 250, Deduct</i>	-1.72	
<i>For >250 To 500, Deduct</i>	-2.15	
<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0885 EA 7/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.25	
<i>For >100 To 250, Deduct</i>	-1.76	
<i>For >250 To 500, Deduct</i>	-2.20	
<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0886 1/2" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0887 EA 1/2" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.55	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0888 EA 1/2" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.68	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0889 EA 1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.41	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0890	EA		1/2" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.90	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0891	EA		1/2" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.56	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0892	EA		1/2" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.92	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0893	EA		1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.56	
			<i>For >100 To 250, Deduct</i>	-1.68	
			<i>For >250 To 500, Deduct</i>	-2.10	
			<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0894	EA		1/2" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.88	
			<i>For >100 To 250, Deduct</i>	-1.68	
			<i>For >250 To 500, Deduct</i>	-2.10	
			<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0895	EA		1/2" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.61	
			<i>For >100 To 250, Deduct</i>	-1.68	
			<i>For >250 To 500, Deduct</i>	-2.10	
			<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0896	EA		1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.30	
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-2.15	
			<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0897	EA		1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.08	
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-2.15	
			<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0898	EA		1/2" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.96	
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-2.15	
			<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0899	EA		1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.46	
			<i>For >100 To 250, Deduct</i>	-1.76	
			<i>For >250 To 500, Deduct</i>	-2.20	
			<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0900	EA		1/2" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.99	
			<i>For >100 To 250, Deduct</i>	-1.76	
			<i>For >250 To 500, Deduct</i>	-2.20	
			<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0901	EA		1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.83	
			<i>For >100 To 250, Deduct</i>	-1.76	
			<i>For >250 To 500, Deduct</i>	-2.20	
			<i>For >500, Deduct</i>	-2.64	
05 05 23 00-0902	EA		1/2" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.10	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0903	EA		1/2" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.43	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0904	EA		1/2" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.74	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0905	EA		1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	29.02	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0906			9/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0907	EA		9/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.36	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0908	EA		9/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.87	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0909	EA		9/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.52	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0910	EA		9/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.25	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500, Deduct</i>	-2.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0911 EA 9/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.19	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.05	
<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0912 EA 9/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.83	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.05	
<i>For >500, Deduct</i>	-2.46	
05 05 23 00-0913 EA 9/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.44	
<i>For >100 To 250, Deduct</i>	-1.68	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0914 EA 9/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.81	
<i>For >100 To 250, Deduct</i>	-1.68	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0915 EA 9/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.27	
<i>For >100 To 250, Deduct</i>	-1.68	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.52	
05 05 23 00-0916 EA 9/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	29.11	
<i>For >100 To 250, Deduct</i>	-1.72	
<i>For >250 To 500, Deduct</i>	-2.15	
<i>For >500, Deduct</i>	-2.58	
05 05 23 00-0917 EA 9/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	30.96	
<i>For >100 To 250, Deduct</i>	-1.72	
<i>For >250 To 500, Deduct</i>	-2.15	
<i>For >500, Deduct</i>	-2.58	
 05 05 23 00-0918 5/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0919 EA 5/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.84	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0920 EA 5/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.18	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0921 EA 5/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.62	
<i>For >100 To 250, Deduct</i>	-1.80	
<i>For >250 To 500, Deduct</i>	-2.25	
<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0922 EA 5/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.06	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0923 EA 5/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.75	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0924 EA 5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.73	
<i>For >100 To 250, Deduct</i>	-1.84	
<i>For >250 To 500, Deduct</i>	-2.30	
<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0925 EA 5/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.16	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0926 EA 5/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.17	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0927 EA 5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.27	
<i>For >100 To 250, Deduct</i>	-1.88	
<i>For >250 To 500, Deduct</i>	-2.35	
<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0928 EA 5/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.09	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0929 EA 5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.08	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0930 EA 5/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.71	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0931 EA 5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.89	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.45	
<i>For >500, Deduct</i>	-2.94	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0932	EA		5/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.54	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0933	EA		5/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.28	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0934	EA		5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.50	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0935	EA		5/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.46	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0936	EA		5/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	36.78	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0937	EA		5/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	38.55	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0938			3/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0822)</small>		
05 05 23 00-0939	EA		3/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.41	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0940	EA		3/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.08	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0941	EA		3/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.97	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-0942	EA		3/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.14	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0943	EA		3/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.12	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0944	EA		3/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.77	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-0945	EA		3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.95	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0946	EA		3/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.49	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0947	EA		3/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.72	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-0948	EA		3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.19	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0949	EA		3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.62	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0950	EA		3/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.30	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0951	EA		3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	35.63	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0952	EA		3/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	37.91	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500, Deduct</i>	-2.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0953 EA 3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	42.78	
<i>For >100 To 250, Deduct</i>	-1.96	
<i>For >250 To 500, Deduct</i>	-2.45	
<i>For >500, Deduct</i>	-2.94	
05 05 23 00-0954 EA 3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	43.19	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0955 EA 3/4" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	43.96	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0956 EA 3/4" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	46.04	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0957 EA 3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	47.64	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0958 7/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0922)</small>		
05 05 23 00-0959 EA 7/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.63	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0960 EA 7/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.32	
<i>For >100 To 250, Deduct</i>	-2.00	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-2.99	
05 05 23 00-0961 EA 7/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.81	
<i>For >100 To 250, Deduct</i>	-2.04	
<i>For >250 To 500, Deduct</i>	-2.55	
<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0962 EA 7/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.52	
<i>For >100 To 250, Deduct</i>	-2.04	
<i>For >250 To 500, Deduct</i>	-2.55	
<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0963 EA 7/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.07	
<i>For >100 To 250, Deduct</i>	-2.04	
<i>For >250 To 500, Deduct</i>	-2.55	
<i>For >500, Deduct</i>	-3.06	
05 05 23 00-0964 EA 7/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.67	
<i>For >100 To 250, Deduct</i>	-2.08	
<i>For >250 To 500, Deduct</i>	-2.60	
<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0965 EA 7/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.22	
<i>For >100 To 250, Deduct</i>	-2.08	
<i>For >250 To 500, Deduct</i>	-2.60	
<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0966 EA 7/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	29.94	
<i>For >100 To 250, Deduct</i>	-2.08	
<i>For >250 To 500, Deduct</i>	-2.60	
<i>For >500, Deduct</i>	-3.12	
05 05 23 00-0967 EA 7/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	30.69	
<i>For >100 To 250, Deduct</i>	-2.12	
<i>For >250 To 500, Deduct</i>	-2.65	
<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0968 EA 7/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.12	
<i>For >100 To 250, Deduct</i>	-2.12	
<i>For >250 To 500, Deduct</i>	-2.65	
<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0969 EA 7/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	39.99	
<i>For >100 To 250, Deduct</i>	-2.12	
<i>For >250 To 500, Deduct</i>	-2.65	
<i>For >500, Deduct</i>	-3.18	
05 05 23 00-0970 EA 7/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	43.21	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0971 EA 7/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	46.74	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0972 EA 7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	49.59	
<i>For >100 To 250, Deduct</i>	-2.16	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.24	
05 05 23 00-0973 EA 7/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	58.43	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.75	
<i>For >500, Deduct</i>	-3.30	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0974 EA 7/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	65.35	
For >100 To 250, Deduct	-2.20	
For >250 To 500, Deduct	-2.75	
For >500, Deduct	-3.30	
05 05 23 00-0975 EA 7/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	68.55	
For >100 To 250, Deduct	-2.20	
For >250 To 500, Deduct	-2.75	
For >500, Deduct	-3.30	
05 05 23 00-0976 EA 7/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	71.74	
For >100 To 250, Deduct	-2.20	
For >250 To 500, Deduct	-2.75	
For >500, Deduct	-3.30	
05 05 23 00-0977 1" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0822)		
05 05 23 00-0978 EA 1" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.71	
For >100 To 250, Deduct	-2.00	
For >250 To 500, Deduct	-2.50	
For >500, Deduct	-2.99	
05 05 23 00-0979 EA 1" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.94	
For >100 To 250, Deduct	-2.00	
For >250 To 500, Deduct	-2.50	
For >500, Deduct	-2.99	
05 05 23 00-0980 EA 1" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.98	
For >100 To 250, Deduct	-2.04	
For >250 To 500, Deduct	-2.55	
For >500, Deduct	-3.06	
05 05 23 00-0981 EA 1" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.53	
For >100 To 250, Deduct	-2.04	
For >250 To 500, Deduct	-2.55	
For >500, Deduct	-3.06	
05 05 23 00-0982 EA 1" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	30.07	
For >100 To 250, Deduct	-2.04	
For >250 To 500, Deduct	-2.55	
For >500, Deduct	-3.06	
05 05 23 00-0983 EA 1" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.12	
For >100 To 250, Deduct	-2.08	
For >250 To 500, Deduct	-2.60	
For >500, Deduct	-3.12	
05 05 23 00-0984 EA 1" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	34.90	
For >100 To 250, Deduct	-2.08	
For >250 To 500, Deduct	-2.60	
For >500, Deduct	-3.12	
05 05 23 00-0985 EA 1" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	37.52	
For >100 To 250, Deduct	-2.08	
For >250 To 500, Deduct	-2.60	
For >500, Deduct	-3.12	
05 05 23 00-0986 EA 1" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	40.18	
For >100 To 250, Deduct	-2.12	
For >250 To 500, Deduct	-2.65	
For >500, Deduct	-3.18	
05 05 23 00-0987 EA 1" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	40.32	
For >100 To 250, Deduct	-2.12	
For >250 To 500, Deduct	-2.65	
For >500, Deduct	-3.18	
05 05 23 00-0988 EA 1" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	47.35	
For >100 To 250, Deduct	-2.12	
For >250 To 500, Deduct	-2.65	
For >500, Deduct	-3.18	
05 05 23 00-0989 EA 1" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	56.44	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-2.70	
For >500, Deduct	-3.24	
05 05 23 00-0990 EA 1" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	57.77	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-2.70	
For >500, Deduct	-3.24	
05 05 23 00-0991 EA 1" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	59.09	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-2.70	
For >500, Deduct	-3.24	
05 05 23 00-0992 EA 1" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	61.94	
For >100 To 250, Deduct	-2.20	
For >250 To 500, Deduct	-2.75	
For >500, Deduct	-3.30	
05 05 23 00-0993 EA 1" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	66.00	
For >100 To 250, Deduct	-2.20	
For >250 To 500, Deduct	-2.75	
For >500, Deduct	-3.30	
05 05 23 00-0994 EA 1" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	84.43	
For >100 To 250, Deduct	-2.20	
For >250 To 500, Deduct	-2.75	
For >500, Deduct	-3.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0995 EA 1" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	105.91	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.75	
<i>For >500, Deduct</i>	-3.30	
05 05 23 00-0996 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0104)</small>		
05 05 23 00-0997 1/4" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0996)</small>		
05 05 23 00-0998 EA 1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	7.43	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-0999 EA 1" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	7.62	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-1000 EA 1-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	7.76	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-1001 EA 2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	7.86	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-1002 EA 2-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.34	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	
05 05 23 00-1003 EA 3" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.59	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	
05 05 23 00-1004 EA 3-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.84	
<i>For >100 To 250, Deduct</i>	-1.44	
<i>For >250 To 500, Deduct</i>	-1.80	
<i>For >500, Deduct</i>	-2.16	
05 05 23 00-1005 EA 4" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.23	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-1006 EA 4-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.44	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-1007 EA 5" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.53	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-1008 EA 5-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	10.38	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-1009 EA 6" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	10.55	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-1010 EA 6-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	17.01	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-1011 EA 7" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	25.03	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1012 EA 7-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	42.26	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1013 EA 8" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	46.19	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1014 5/16" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0996)</small>		
05 05 23 00-1015 EA 5/16" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt	7.69	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	
05 05 23 00-1016 EA 5/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	7.91	
<i>For >100 To 250, Deduct</i>	-1.40	
<i>For >250 To 500, Deduct</i>	-1.75	
<i>For >500, Deduct</i>	-2.10	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1017	EA		5/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	8.28	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-1018	EA		5/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	8.56	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-1019	EA		5/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	8.88	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-1020	EA		5/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	9.45	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-1021	EA		5/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.85	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-1022	EA		5/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	10.21	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	
05 05 23 00-1023	EA		5/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.06	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	
05 05 23 00-1024	EA		5/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	11.23	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	
05 05 23 00-1025	EA		5/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	12.02	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-1026	EA		5/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	12.68	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-1027	EA		5/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	18.18	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-1028	EA		5/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	26.18	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1029			3/8" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0996)</small>	8.28	
05 05 23 00-1030	EA		3/8" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	8.28	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-1031	EA		3/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	8.36	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-1032	EA		3/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	8.71	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-1033	EA		3/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	9.53	
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.10	
05 05 23 00-1034	EA		3/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.02	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-1035	EA		3/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	10.16	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-1036	EA		3/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.88	
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500, Deduct</i>	-2.16	
05 05 23 00-1037	EA		3/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	11.17	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1038 EA 3/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.62	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-1039 EA 3/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	11.93	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.22	
05 05 23 00-1040 EA 3/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.12	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-1041 EA 3/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	14.33	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-1042 EA 3/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.38	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-1043 EA 3/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	17.64	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1044 EA 3/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	22.61	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1045 EA 3/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	27.98	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1046 7/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1047 EA 7/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	10.64	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1048 EA 7/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.15	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1049 EA 7/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	12.12	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1050 EA 7/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.15	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.05	
<i>For >500, Deduct</i>	-2.46	
05 05 23 00-1051 EA 7/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	14.08	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.05	
<i>For >500, Deduct</i>	-2.46	
05 05 23 00-1052 EA 7/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.60	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.05	
<i>For >500, Deduct</i>	-2.46	
05 05 23 00-1053 EA 7/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	17.26	
<i>For >100 To 250, Deduct</i>	-1.68	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.52	
05 05 23 00-1054 EA 7/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	17.52	
<i>For >100 To 250, Deduct</i>	-1.68	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.52	
05 05 23 00-1055 EA 7/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	18.08	
<i>For >100 To 250, Deduct</i>	-1.68	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.52	
05 05 23 00-1056 EA 7/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	18.66	
<i>For >100 To 250, Deduct</i>	-1.72	
<i>For >250 To 500, Deduct</i>	-2.15	
<i>For >500, Deduct</i>	-2.58	
05 05 23 00-1057 EA 7/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	19.05	
<i>For >100 To 250, Deduct</i>	-1.72	
<i>For >250 To 500, Deduct</i>	-2.15	
<i>For >500, Deduct</i>	-2.58	
05 05 23 00-1058 EA 7/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	19.45	
<i>For >100 To 250, Deduct</i>	-1.72	
<i>For >250 To 500, Deduct</i>	-2.15	
<i>For >500, Deduct</i>	-2.58	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1059	EA		7/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	19.96	
			<i>For >100 To 250, Deduct</i>	-1.76	
			<i>For >250 To 500, Deduct</i>	-2.20	
			<i>For >500, Deduct</i>	-2.64	
05 05 23 00-1060			1/2" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1061	EA		1/2" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	10.61	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1062	EA		1/2" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.17	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1063	EA		1/2" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	11.95	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1064	EA		1/2" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.07	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500, Deduct</i>	-2.46	
05 05 23 00-1065	EA		1/2" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	13.93	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500, Deduct</i>	-2.46	
05 05 23 00-1066	EA		1/2" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.14	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.05	
			<i>For >500, Deduct</i>	-2.46	
05 05 23 00-1067	EA		1/2" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	14.70	
			<i>For >100 To 250, Deduct</i>	-1.68	
			<i>For >250 To 500, Deduct</i>	-2.10	
			<i>For >500, Deduct</i>	-2.52	
05 05 23 00-1068	EA		1/2" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	16.36	
			<i>For >100 To 250, Deduct</i>	-1.68	
			<i>For >250 To 500, Deduct</i>	-2.10	
			<i>For >500, Deduct</i>	-2.52	
05 05 23 00-1069	EA		1/2" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	19.72	
			<i>For >100 To 250, Deduct</i>	-1.68	
			<i>For >250 To 500, Deduct</i>	-2.10	
			<i>For >500, Deduct</i>	-2.52	
05 05 23 00-1070	EA		1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	20.18	
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-2.15	
			<i>For >500, Deduct</i>	-2.58	
05 05 23 00-1071	EA		1/2" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	20.71	
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-2.15	
			<i>For >500, Deduct</i>	-2.58	
05 05 23 00-1072	EA		1/2" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	24.86	
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-2.15	
			<i>For >500, Deduct</i>	-2.58	
05 05 23 00-1073	EA		1/2" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	27.83	
			<i>For >100 To 250, Deduct</i>	-1.76	
			<i>For >250 To 500, Deduct</i>	-2.20	
			<i>For >500, Deduct</i>	-2.64	
05 05 23 00-1074	EA		1/2" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	29.63	
			<i>For >100 To 250, Deduct</i>	-1.76	
			<i>For >250 To 500, Deduct</i>	-2.20	
			<i>For >500, Deduct</i>	-2.64	
05 05 23 00-1075	EA		1/2" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	32.61	
			<i>For >100 To 250, Deduct</i>	-1.76	
			<i>For >250 To 500, Deduct</i>	-2.20	
			<i>For >500, Deduct</i>	-2.64	
05 05 23 00-1076	EA		1/2" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	40.68	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-1077	EA		1/2" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	45.76	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-1078	EA		1/2" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	46.60	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-1079	EA		1/2" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	47.89	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1080 9/16" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0996)</small>		
05 05 23 00-1081 EA 9/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	24.53	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-1082 EA 9/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	26.36	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-1083 EA 9/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	32.47	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-1084 EA 9/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	36.10	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	
05 05 23 00-1085 EA 9/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	39.71	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	
05 05 23 00-1086 EA 9/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	43.32	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.46	
05 05 23 00-1087 EA 9/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	45.77	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.10	
For >500, Deduct	-2.52	
05 05 23 00-1088 EA 9/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	48.75	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.10	
For >500, Deduct	-2.52	
05 05 23 00-1089 EA 9/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	51.40	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.10	
For >500, Deduct	-2.52	
05 05 23 00-1090 EA 9/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	52.40	
For >100 To 250, Deduct	-1.72	
For >250 To 500, Deduct	-2.15	
For >500, Deduct	-2.58	
05 05 23 00-1091 EA 9/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	54.73	
For >100 To 250, Deduct	-1.72	
For >250 To 500, Deduct	-2.15	
For >500, Deduct	-2.58	
05 05 23 00-1092 5/8" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0996)</small>		
05 05 23 00-1093 EA 5/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	14.44	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.25	
For >500, Deduct	-2.70	
05 05 23 00-1094 EA 5/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.60	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.25	
For >500, Deduct	-2.70	
05 05 23 00-1095 EA 5/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	14.65	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-2.25	
For >500, Deduct	-2.70	
05 05 23 00-1096 EA 5/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.90	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.76	
05 05 23 00-1097 EA 5/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	16.97	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.76	
05 05 23 00-1098 EA 5/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	20.37	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-2.30	
For >500, Deduct	-2.76	
05 05 23 00-1099 EA 5/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	21.29	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.82	
05 05 23 00-1100 EA 5/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	24.26	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.82	
05 05 23 00-1101 EA 5/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	25.30	
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-2.35	
For >500, Deduct	-2.82	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1102	EA		5/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	27.45	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-1103	EA		5/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	28.30	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-1104	EA		5/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	33.52	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-1105	EA		5/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	35.59	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500, Deduct</i>	-2.94	
05 05 23 00-1106	EA		5/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	36.26	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500, Deduct</i>	-2.94	
05 05 23 00-1107	EA		5/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	38.69	
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500, Deduct</i>	-2.94	
05 05 23 00-1108	EA		5/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	41.08	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-1109	EA		5/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	43.14	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-1110	EA		5/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	52.99	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-1111	EA		5/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	63.51	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-1112			3/4" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0996)</small>		
05 05 23 00-1113	EA		3/4" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	18.58	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-1114	EA		3/4" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	18.95	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-1115	EA		3/4" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	20.37	
			<i>For >100 To 250, Deduct</i>	-1.80	
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500, Deduct</i>	-2.70	
05 05 23 00-1116	EA		3/4" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	21.81	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-1117	EA		3/4" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	24.46	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-1118	EA		3/4" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	26.00	
			<i>For >100 To 250, Deduct</i>	-1.84	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500, Deduct</i>	-2.76	
05 05 23 00-1119	EA		3/4" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	29.46	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-1120	EA		3/4" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	30.81	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-1121	EA		3/4" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	31.56	
			<i>For >100 To 250, Deduct</i>	-1.88	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500, Deduct</i>	-2.82	
05 05 23 00-1122	EA		3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	32.75	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1123	EA			3/4" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt 34.44		
				<i>For >100 To 250, Deduct</i>	-1.92	
				<i>For >250 To 500, Deduct</i>	-2.40	
				<i>For >500, Deduct</i>	-2.88	
05 05 23 00-1124	EA			3/4" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt 39.66		
				<i>For >100 To 250, Deduct</i>	-1.92	
				<i>For >250 To 500, Deduct</i>	-2.40	
				<i>For >500, Deduct</i>	-2.88	
05 05 23 00-1125	EA			3/4" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt 47.40		
				<i>For >100 To 250, Deduct</i>	-1.96	
				<i>For >250 To 500, Deduct</i>	-2.45	
				<i>For >500, Deduct</i>	-2.94	
05 05 23 00-1126	EA			3/4" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt 53.27		
				<i>For >100 To 250, Deduct</i>	-1.96	
				<i>For >250 To 500, Deduct</i>	-2.45	
				<i>For >500, Deduct</i>	-2.94	
05 05 23 00-1127	EA			3/4" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt 54.16		
				<i>For >100 To 250, Deduct</i>	-1.96	
				<i>For >250 To 500, Deduct</i>	-2.45	
				<i>For >500, Deduct</i>	-2.94	
05 05 23 00-1128	EA			3/4" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt 57.88		
				<i>For >100 To 250, Deduct</i>	-2.00	
				<i>For >250 To 500, Deduct</i>	-2.50	
				<i>For >500, Deduct</i>	-2.99	
05 05 23 00-1129	EA			3/4" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt 66.79		
				<i>For >100 To 250, Deduct</i>	-2.00	
				<i>For >250 To 500, Deduct</i>	-2.50	
				<i>For >500, Deduct</i>	-2.99	
05 05 23 00-1130	EA			3/4" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt 67.54		
				<i>For >100 To 250, Deduct</i>	-2.00	
				<i>For >250 To 500, Deduct</i>	-2.50	
				<i>For >500, Deduct</i>	-2.99	
05 05 23 00-1131	EA			3/4" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt 69.42		
				<i>For >100 To 250, Deduct</i>	-2.00	
				<i>For >250 To 500, Deduct</i>	-2.50	
				<i>For >500, Deduct</i>	-2.99	
05 05 23 00-1132				7/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1133	EA			7/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt 20.92		
				<i>For >100 To 250, Deduct</i>	-2.00	
				<i>For >250 To 500, Deduct</i>	-2.50	
				<i>For >500, Deduct</i>	-2.99	
05 05 23 00-1134	EA			7/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt 23.37		
				<i>For >100 To 250, Deduct</i>	-2.00	
				<i>For >250 To 500, Deduct</i>	-2.50	
				<i>For >500, Deduct</i>	-2.99	
05 05 23 00-1135	EA			7/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt 24.92		
				<i>For >100 To 250, Deduct</i>	-2.04	
				<i>For >250 To 500, Deduct</i>	-2.55	
				<i>For >500, Deduct</i>	-3.06	
05 05 23 00-1136	EA			7/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt 28.35		
				<i>For >100 To 250, Deduct</i>	-2.04	
				<i>For >250 To 500, Deduct</i>	-2.55	
				<i>For >500, Deduct</i>	-3.06	
05 05 23 00-1137	EA			7/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt 29.88		
				<i>For >100 To 250, Deduct</i>	-2.04	
				<i>For >250 To 500, Deduct</i>	-2.55	
				<i>For >500, Deduct</i>	-3.06	
05 05 23 00-1138	EA			7/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt 31.43		
				<i>For >100 To 250, Deduct</i>	-2.08	
				<i>For >250 To 500, Deduct</i>	-2.60	
				<i>For >500, Deduct</i>	-3.12	
05 05 23 00-1139	EA			7/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt 33.51		
				<i>For >100 To 250, Deduct</i>	-2.08	
				<i>For >250 To 500, Deduct</i>	-2.60	
				<i>For >500, Deduct</i>	-3.12	
05 05 23 00-1140	EA			7/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt 38.18		
				<i>For >100 To 250, Deduct</i>	-2.08	
				<i>For >250 To 500, Deduct</i>	-2.60	
				<i>For >500, Deduct</i>	-3.12	
05 05 23 00-1141	EA			7/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt 38.50		
				<i>For >100 To 250, Deduct</i>	-2.12	
				<i>For >250 To 500, Deduct</i>	-2.65	
				<i>For >500, Deduct</i>	-3.18	
05 05 23 00-1142	EA			7/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt 40.05		
				<i>For >100 To 250, Deduct</i>	-2.12	
				<i>For >250 To 500, Deduct</i>	-2.65	
				<i>For >500, Deduct</i>	-3.18	
05 05 23 00-1143	EA			7/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt 53.12		
				<i>For >100 To 250, Deduct</i>	-2.12	
				<i>For >250 To 500, Deduct</i>	-2.65	
				<i>For >500, Deduct</i>	-3.18	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1144	EA		7/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	59.09	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-1145	EA		7/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	65.30	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-1146	EA		7/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	68.35	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-1147	EA		7/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	72.52	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500, Deduct</i>	-3.30	
05 05 23 00-1148	EA		7/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	75.18	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500, Deduct</i>	-3.30	
05 05 23 00-1149	EA		7/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	77.82	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500, Deduct</i>	-3.30	
05 05 23 00-1150	EA		7/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	80.78	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500, Deduct</i>	-3.30	
05 05 23 00-1151			1" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0996)		
05 05 23 00-1152	EA		1" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	26.31	
			<i>For >100 To 250, Deduct</i>	-2.00	
			<i>For >250 To 500, Deduct</i>	-2.50	
			<i>For >500, Deduct</i>	-2.99	
05 05 23 00-1153	EA		1" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	30.29	
			<i>For >100 To 250, Deduct</i>	-2.04	
			<i>For >250 To 500, Deduct</i>	-2.55	
			<i>For >500, Deduct</i>	-3.06	
05 05 23 00-1154	EA		1" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	32.82	
			<i>For >100 To 250, Deduct</i>	-2.04	
			<i>For >250 To 500, Deduct</i>	-2.55	
			<i>For >500, Deduct</i>	-3.06	
05 05 23 00-1155	EA		1" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	36.85	
			<i>For >100 To 250, Deduct</i>	-2.04	
			<i>For >250 To 500, Deduct</i>	-2.55	
			<i>For >500, Deduct</i>	-3.06	
05 05 23 00-1156	EA		1" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	38.50	
			<i>For >100 To 250, Deduct</i>	-2.08	
			<i>For >250 To 500, Deduct</i>	-2.60	
			<i>For >500, Deduct</i>	-3.12	
05 05 23 00-1157	EA		1" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	41.24	
			<i>For >100 To 250, Deduct</i>	-2.08	
			<i>For >250 To 500, Deduct</i>	-2.60	
			<i>For >500, Deduct</i>	-3.12	
05 05 23 00-1158	EA		1" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	44.00	
			<i>For >100 To 250, Deduct</i>	-2.08	
			<i>For >250 To 500, Deduct</i>	-2.60	
			<i>For >500, Deduct</i>	-3.12	
05 05 23 00-1159	EA		1" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	46.98	
			<i>For >100 To 250, Deduct</i>	-2.12	
			<i>For >250 To 500, Deduct</i>	-2.65	
			<i>For >500, Deduct</i>	-3.18	
05 05 23 00-1160	EA		1" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	54.13	
			<i>For >100 To 250, Deduct</i>	-2.12	
			<i>For >250 To 500, Deduct</i>	-2.65	
			<i>For >500, Deduct</i>	-3.18	
05 05 23 00-1161	EA		1" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	61.17	
			<i>For >100 To 250, Deduct</i>	-2.12	
			<i>For >250 To 500, Deduct</i>	-2.65	
			<i>For >500, Deduct</i>	-3.18	
05 05 23 00-1162	EA		1" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	71.00	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-1163	EA		1" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	79.10	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	
05 05 23 00-1164	EA		1" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	80.26	
			<i>For >100 To 250, Deduct</i>	-2.16	
			<i>For >250 To 500, Deduct</i>	-2.70	
			<i>For >500, Deduct</i>	-3.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1165 EA 1" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	83.11	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.75	
<i>For >500, Deduct</i>	-3.30	
05 05 23 00-1166 EA 1" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	84.22	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.75	
<i>For >500, Deduct</i>	-3.30	
05 05 23 00-1167 EA 1" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	97.67	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.75	
<i>For >500, Deduct</i>	-3.30	
05 05 23 00-1168 EA 1" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	110.65	
<i>For >100 To 250, Deduct</i>	-2.20	
<i>For >250 To 500, Deduct</i>	-2.75	
<i>For >500, Deduct</i>	-3.30	
05 05 23 00-1169 Screws <small>(05 05 23)</small>		
05 05 23 00-1170 Teks® 5 Self Drilling Screws <small>(05 05 23 00-1169)</small>		
Note: Includes Climaseal® finish, self-drill point and tapping threads.		
05 05 23 00-1171 EA 12-24 x 1-1/4", Hex Washer Head, Teks® 5 Self Drilling Screw	3.81	
<i>For >10 To 50, Deduct</i>	-0.17	
<i>For >50 To 100, Deduct</i>	-0.35	
<i>For >100, Deduct</i>	-0.69	
05 05 23 00-1172 EA 12-24 x 1-1/2", Hex Washer Head, Teks® 5 Self Drilling Screw	3.99	
<i>For >10 To 50, Deduct</i>	-0.17	
<i>For >50 To 100, Deduct</i>	-0.35	
<i>For >100, Deduct</i>	-0.70	
05 05 23 00-1173 EA 12-24 x 2", Hex Washer Head, Teks® 5 Self Drilling Screw	4.46	
<i>For >10 To 50, Deduct</i>	-0.18	
<i>For >50 To 100, Deduct</i>	-0.38	
<i>For >100, Deduct</i>	-0.76	
05 05 23 00-1174 EA 1/4"-28 x 3", Hex Washer Head, Teks® 5 Self Drilling Screw	6.16	
<i>For >10 To 50, Deduct</i>	-0.22	
<i>For >50 To 100, Deduct</i>	-0.49	
<i>For >100, Deduct</i>	-0.97	
05 05 23 00-1175 EA 1/4"-28 x 4", Hex Washer Head, Teks® 5 Self Drilling Screw	6.58	
<i>For >10 To 50, Deduct</i>	-0.23	
<i>For >50 To 100, Deduct</i>	-0.51	
<i>For >100, Deduct</i>	-1.03	
05 05 23 00-1176 EA 1/4"-28 x 6", Hex Washer Head, Teks® 5 Self Drilling Screw	8.19	
<i>For >10 To 50, Deduct</i>	-0.24	
<i>For >50 To 100, Deduct</i>	-0.57	
<i>For >100, Deduct</i>	-1.14	
05 05 23 00-1177 EA 1/4"-28 x 8", Hex Washer Head, Teks® 5 Self Drilling Screw	9.18	
<i>For >10 To 50, Deduct</i>	-0.26	
<i>For >50 To 100, Deduct</i>	-0.61	
<i>For >100, Deduct</i>	-1.22	
05 05 23 00-1178 Security Screws <small>(05 05 23 00-1169)</small>		
05 05 23 00-1179 304/18-8 Stainless Steel, Security Screws <small>(05 05 23 00-1178)</small>		
Note: Includes "security" style drive in machine or sheet metal screw threads.		
05 05 23 00-1180 EA #4 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screws	2.94	
<i>For >10 To 50, Deduct</i>	-0.14	
<i>For >50 To 100, Deduct</i>	-0.28	
<i>For >100, Deduct</i>	-0.57	
05 05 23 00-1181 EA #6 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	3.32	
<i>For >10 To 50, Deduct</i>	-0.14	
<i>For >50 To 100, Deduct</i>	-0.29	
<i>For >100, Deduct</i>	-0.59	
05 05 23 00-1182 EA #6 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	3.65	
<i>For >10 To 50, Deduct</i>	-0.14	
<i>For >50 To 100, Deduct</i>	-0.30	
<i>For >100, Deduct</i>	-0.60	
05 05 23 00-1183 EA #6 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	3.76	
<i>For >10 To 50, Deduct</i>	-0.14	
<i>For >50 To 100, Deduct</i>	-0.30	
<i>For >100, Deduct</i>	-0.61	
05 05 23 00-1184 EA #6 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	3.97	
<i>For >10 To 50, Deduct</i>	-0.14	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100, Deduct</i>	-0.62	
05 05 23 00-1185 EA #8 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	3.41	
<i>For >10 To 50, Deduct</i>	-0.14	
<i>For >50 To 100, Deduct</i>	-0.30	
<i>For >100, Deduct</i>	-0.59	
05 05 23 00-1186 EA #8 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	3.56	
<i>For >10 To 50, Deduct</i>	-0.14	
<i>For >50 To 100, Deduct</i>	-0.30	
<i>For >100, Deduct</i>	-0.60	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1187	EA		#8 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.89	
			<i>For >10 To 50, Deduct</i>	-0.14	
			<i>For >50 To 100, Deduct</i>	-0.31	
			<i>For >100, Deduct</i>	-0.61	
05 05 23 00-1188	EA		#8 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.99	
			<i>For >10 To 50, Deduct</i>	-0.14	
			<i>For >50 To 100, Deduct</i>	-0.31	
			<i>For >100, Deduct</i>	-0.62	
05 05 23 00-1189	EA		#10 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.51	
			<i>For >10 To 50, Deduct</i>	-0.14	
			<i>For >50 To 100, Deduct</i>	-0.30	
			<i>For >100, Deduct</i>	-0.60	
05 05 23 00-1190	EA		#10 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	3.55	
			<i>For >10 To 50, Deduct</i>	-0.14	
			<i>For >50 To 100, Deduct</i>	-0.30	
			<i>For >100, Deduct</i>	-0.60	
05 05 23 00-1191	EA		#10 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.69	
			<i>For >10 To 50, Deduct</i>	-0.14	
			<i>For >50 To 100, Deduct</i>	-0.30	
			<i>For >100, Deduct</i>	-0.60	
05 05 23 00-1192	EA		#10 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.13	
			<i>For >10 To 50, Deduct</i>	-0.14	
			<i>For >50 To 100, Deduct</i>	-0.31	
			<i>For >100, Deduct</i>	-0.63	
05 05 23 00-1193	EA		1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.76	
			<i>For >10 To 50, Deduct</i>	-0.14	
			<i>For >50 To 100, Deduct</i>	-0.30	
			<i>For >100, Deduct</i>	-0.61	
05 05 23 00-1194	EA		1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	3.86	
			<i>For >10 To 50, Deduct</i>	-0.14	
			<i>For >50 To 100, Deduct</i>	-0.31	
			<i>For >100, Deduct</i>	-0.61	
05 05 23 00-1195	EA		1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.28	
			<i>For >10 To 50, Deduct</i>	-0.14	
			<i>For >50 To 100, Deduct</i>	-0.32	
			<i>For >100, Deduct</i>	-0.63	
05 05 23 00-1196	EA		1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.95	
			<i>For >10 To 50, Deduct</i>	-0.14	
			<i>For >50 To 100, Deduct</i>	-0.33	
			<i>For >100, Deduct</i>	-0.67	
05 05 23 00-1197			Threaded Rod <small>(05 05 23)</small>		
			Note: Fully threaded. See CSI section 05 05 19 00-0169 for anchoring adhesive, 05 05 23 00-1290 for nuts and washers.		
05 05 23 00-1198			Plain Finish Steel, Low Carbon Threaded Rod <small>(05 05 23 00-1197)</small>		
05 05 23 00-1199	LF		1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	2.01	0.50
			<i>For Left Hand Threaded Rod, Add</i>	0.10	
05 05 23 00-1200	LF		5/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	2.62	0.55
			<i>For Left Hand Threaded Rod, Add</i>	0.15	
05 05 23 00-1201	LF		3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	3.04	0.65
			<i>For Left Hand Threaded Rod, Add</i>	0.18	
05 05 23 00-1202	LF		7/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	4.06	0.66
			<i>For Left Hand Threaded Rod, Add</i>	0.28	
05 05 23 00-1203	LF		1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	4.17	0.69
			<i>For Left Hand Threaded Rod, Add</i>	0.28	
05 05 23 00-1204	LF		9/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	5.13	0.69
			<i>For Left Hand Threaded Rod, Add</i>	0.38	
05 05 23 00-1205	LF		5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	5.76	0.71
			<i>For Left Hand Threaded Rod, Add</i>	0.44	
05 05 23 00-1206	LF		3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	9.37	0.73
			<i>For Left Hand Threaded Rod, Add</i>	0.79	
05 05 23 00-1207	LF		7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	10.20	0.75
			<i>For Left Hand Threaded Rod, Add</i>	0.87	
05 05 23 00-1208	LF		1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	13.92	0.85
			<i>For Left Hand Threaded Rod, Add</i>	1.22	
05 05 23 00-1209	LF		1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	17.32	0.94
			<i>For Left Hand Threaded Rod, Add</i>	1.54	
05 05 23 00-1210	LF		1-1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	22.92	1.02
			<i>For Left Hand Threaded Rod, Add</i>	2.08	
05 05 23 00-1211	LF		1-3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	28.48	1.11
			<i>For Left Hand Threaded Rod, Add</i>	2.63	
05 05 23 00-1212	LF		1-1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	34.03	1.16
			<i>For Left Hand Threaded Rod, Add</i>	3.17	
05 05 23 00-1213	LF		1-3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	41.69	1.21
			<i>For Left Hand Threaded Rod, Add</i>	3.93	
05 05 23 00-1214	LF		2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	53.20	1.27
			<i>For Left Hand Threaded Rod, Add</i>	5.07	
05 05 23 00-1215			Zinc Plated Steel, Low Carbon Threaded Rod <small>(05 05 23 00-1197)</small>		
05 05 23 00-1216	LF		1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	2.03	0.50
			<i>For Left Hand Threaded Rod, Add</i>	0.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1217 LF 5/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	2.95 0.18	0.55
05 05 23 00-1218 LF 3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	3.29 0.20	0.65
05 05 23 00-1219 LF 7/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	4.68 0.34	0.66
05 05 23 00-1220 LF 1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	5.04 0.37	0.69
05 05 23 00-1221 LF 9/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	6.56 0.52	0.69
05 05 23 00-1222 LF 5/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	6.96 0.56	0.71
05 05 23 00-1223 LF 3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	10.39 0.90	0.73
05 05 23 00-1224 LF 7/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	13.42 1.19	0.75
05 05 23 00-1225 LF 1" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	17.98 1.63	0.85
05 05 23 00-1226 LF 1-1/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	23.18 2.13	0.94
05 05 23 00-1227 LF 1-1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	27.64 2.55	1.02
05 05 23 00-1228 LF 1-3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	31.40 2.92	1.11
05 05 23 00-1229 LF 1-1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	39.49 3.72	1.16
05 05 23 00-1230 LF 1-3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	48.89 4.65	1.21
05 05 23 00-1231 LF 2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	71.24 6.87	1.27
05 05 23 00-1232 Hot Dipped Galvanized Steel, Low Carbon Threaded Rod <small>(05 05 23 00-1197)</small>		
05 05 23 00-1233 LF 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	5.33 0.41	0.65
05 05 23 00-1234 LF 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	7.42 0.61	0.69
05 05 23 00-1235 LF 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	9.97 0.86	0.71
05 05 23 00-1236 LF 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	13.64 1.22	0.73
05 05 23 00-1237 LF 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	18.84 1.74	0.75
05 05 23 00-1238 LF 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	24.28 2.26	0.85
05 05 23 00-1239 LF 1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	31.92 3.00	0.94
05 05 23 00-1240 LF 1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	41.93 3.98	1.02
05 05 23 00-1241 LF 1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	46.84 4.46	1.11
05 05 23 00-1242 LF 1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	55.73 5.34	1.16
05 05 23 00-1243 LF 1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	67.67 6.53	1.21
05 05 23 00-1244 LF 2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	117.94 11.54	1.27
05 05 23 00-1245 304/18-8 Stainless Steel Threaded Rod <small>(05 05 23 00-1197)</small>		
05 05 23 00-1246 LF 1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	3.02 0.20	0.50
05 05 23 00-1247 LF 5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	4.54 0.34	0.55
05 05 23 00-1248 LF 3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	5.83 0.46	0.65
05 05 23 00-1249 LF 7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	8.09 0.68	0.66
05 05 23 00-1250 LF 1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	9.71 0.84	0.69
05 05 23 00-1251 LF 9/16" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	13.95 1.26	0.69
05 05 23 00-1252 LF 5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	14.57 1.32	0.71
05 05 23 00-1253 LF 3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	20.39 1.90	0.73
05 05 23 00-1254 LF 7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	28.04 2.66	0.75
05 05 23 00-1255 LF 1" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	35.97 3.43	0.85
05 05 23 00-1256 LF 1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	76.14 7.40	1.02
05 05 23 00-1257 LF 1-1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	115.92 11.36	1.16

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1258	LF		1-3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	119.24 11.68	1.21
05 05 23 00-1259	LF		2" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	164.98 16.24	1.27
05 05 23 00-1260			316 Stainless Steel Threaded Rod (05 05 23 00-1197)		
05 05 23 00-1261	LF		1/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	4.36 0.33	0.50
05 05 23 00-1262	LF		5/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	7.02 0.59	0.55
05 05 23 00-1263	LF		3/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	9.32 0.81	0.65
05 05 23 00-1264	LF		7/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	14.54 1.32	0.66
05 05 23 00-1265	LF		1/2" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	15.42 1.41	0.69
05 05 23 00-1266	LF		9/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	20.24 1.89	0.69
05 05 23 00-1267	LF		5/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	21.77 2.04	0.71
05 05 23 00-1268	LF		3/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	31.74 3.03	0.73
05 05 23 00-1269	LF		7/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	43.45 4.20	0.75
05 05 23 00-1270	LF		1" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	54.98 5.33	0.85
05 05 23 00-1271	LF		1-1/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	116.06 11.39	1.02
05 05 23 00-1272	LF		1-1/2" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	152.13 14.98	1.16
05 05 23 00-1273			Plain Finish Steel, B-7 Alloy Threaded Rod (05 05 23 00-1197)		
05 05 23 00-1274	LF		1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	3.42 1.20	0.50
05 05 23 00-1275	LF		5/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	5.23 2.06	0.55
05 05 23 00-1276	LF		3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	5.47 2.10	0.65
05 05 23 00-1277	LF		7/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	5.97 2.33	0.66
05 05 23 00-1278	LF		1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	6.57 2.61	0.69
05 05 23 00-1279	LF		9/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	8.19 3.41	0.69
05 05 23 00-1280	LF		5/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	8.45 3.53	0.71
05 05 23 00-1281	LF		3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	11.18 4.87	0.73
05 05 23 00-1282	LF		7/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	13.38 5.95	0.75
05 05 23 00-1283	LF		1" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	17.35 7.83	0.85
05 05 23 00-1284	LF		1-1/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	22.56 10.34	0.94
05 05 23 00-1285	LF		1-1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	25.10 11.49	1.02
05 05 23 00-1286	LF		1-3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	28.95 13.37	1.11
05 05 23 00-1287	LF		1-1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	35.18 16.44	1.16
05 05 23 00-1288	LF		1-3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	36.37 16.98	1.21
05 05 23 00-1289	LF		2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	48.77 23.12	1.27
05 05 23 00-1290			Nuts And Washers (05 05 23)		
05 05 23 00-1291			Hex Nuts (05 05 23 00-1290)		
05 05 23 00-1292			Zinc Plated Steel, Low Carbon/Grade 2 Hex Nuts (05 05 23 00-1291)		
05 05 23 00-1293	EA		1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.60	0.28
05 05 23 00-1294	EA		5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.67	0.28
05 05 23 00-1295	EA		3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.72	0.28
05 05 23 00-1296	EA		7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.82	0.28
05 05 23 00-1297	EA		1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.89	0.28
05 05 23 00-1298	EA		9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.14	0.28
05 05 23 00-1299	EA		5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.18	0.28
05 05 23 00-1300	EA		3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.37	0.55
05 05 23 00-1301	EA		7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.95	0.55
05 05 23 00-1302	EA		1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.46	0.55



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1303	EA		1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	3.92	0.55
05 05 23 00-1304	EA		1-1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	4.78	0.55
05 05 23 00-1305	EA		1-3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	6.95	0.55
05 05 23 00-1306	EA		1-1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	8.01	0.84
05 05 23 00-1307	EA		1-3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	11.67	0.84
05 05 23 00-1308	EA		2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	16.77	0.84
05 05 23 00-1309			Zinc Plated Steel, Grade 5 Hex Nuts (05 05 23 00-1291)		
05 05 23 00-1310	EA		1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.62	0.28
05 05 23 00-1311	EA		5/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.68	0.28
05 05 23 00-1312	EA		3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.74	0.28
05 05 23 00-1313	EA		7/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.85	0.28
05 05 23 00-1314	EA		1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.98	0.28
05 05 23 00-1315	EA		9/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.16	0.28
05 05 23 00-1316	EA		5/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.20	0.28
05 05 23 00-1317	EA		3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.53	0.55
05 05 23 00-1318	EA		7/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	2.11	0.55
05 05 23 00-1319	EA		1" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	2.94	0.55
05 05 23 00-1320	EA		1-1/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	4.41	0.55
05 05 23 00-1321	EA		1-1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	6.18	0.55
05 05 23 00-1322	EA		1-3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	8.98	0.55
05 05 23 00-1323	EA		1-1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	9.90	0.84
05 05 23 00-1324	EA		1-3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	17.69	0.84
05 05 23 00-1325	EA		2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	25.28	0.84
05 05 23 00-1326			Zinc Plated Steel, Grade 8 Hex Nuts (05 05 23 00-1291)		
05 05 23 00-1327	EA		1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	0.63	0.28
05 05 23 00-1328	EA		5/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	0.72	0.28
05 05 23 00-1329	EA		3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	0.78	0.28
05 05 23 00-1330	EA		7/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	0.95	0.28
05 05 23 00-1331	EA		1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	1.12	0.28
05 05 23 00-1332	EA		9/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	1.32	0.28
05 05 23 00-1333	EA		5/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	1.49	0.28
05 05 23 00-1334	EA		3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	1.83	0.55
05 05 23 00-1335	EA		7/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	2.68	0.55
05 05 23 00-1336	EA		1" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	3.54	0.55
05 05 23 00-1337	EA		1-1/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	5.45	0.55
05 05 23 00-1338	EA		1-1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	6.78	0.55
05 05 23 00-1339	EA		1-3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	11.04	0.55
05 05 23 00-1340	EA		1-1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	11.71	0.84
05 05 23 00-1341	EA		1-3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	17.74	0.84
05 05 23 00-1342	EA		2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	25.00	0.84
05 05 23 00-1343			Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nuts (05 05 23 00-1291)		
05 05 23 00-1344	EA		1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	0.63	0.28
05 05 23 00-1345	EA		5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	0.70	0.28
05 05 23 00-1346	EA		3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	0.76	0.28
05 05 23 00-1347	EA		7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	0.93	0.28
05 05 23 00-1348	EA		1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	1.06	0.28
05 05 23 00-1349	EA		9/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	1.17	0.28
05 05 23 00-1350	EA		5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	1.29	0.28
05 05 23 00-1351	EA		3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	1.68	0.55
05 05 23 00-1352	EA		7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	2.38	0.55
05 05 23 00-1353	EA		1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	3.25	0.55
05 05 23 00-1354	EA		1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	5.28	0.55
05 05 23 00-1355	EA		1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	6.74	0.55
05 05 23 00-1356	EA		1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	9.91	0.55
05 05 23 00-1357	EA		1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	11.53	0.84
05 05 23 00-1358	EA		1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	19.95	0.84
05 05 23 00-1359	EA		2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	34.35	0.84
05 05 23 00-1360			304 Stainless Steel Hex Nuts (05 05 23 00-1291)		
05 05 23 00-1361	EA		1/4" Diameter, 304 Stainless Steel Hex Nut.....	0.71	0.28
05 05 23 00-1362	EA		5/16" Diameter, 304 Stainless Steel Hex Nut.....	0.84	0.28
05 05 23 00-1363	EA		3/8" Diameter, 304 Stainless Steel Hex Nut.....	0.94	0.28
05 05 23 00-1364	EA		7/16" Diameter, 304 Stainless Steel Hex Nut.....	1.39	0.28
05 05 23 00-1365	EA		1/2" Diameter, 304 Stainless Steel Hex Nut.....	1.50	0.28
05 05 23 00-1366	EA		9/16" Diameter, 304 Stainless Steel Hex Nut.....	2.26	0.28
05 05 23 00-1367	EA		5/8" Diameter, 304 Stainless Steel Hex Nut.....	2.52	0.28
05 05 23 00-1368	EA		3/4" Diameter, 304 Stainless Steel Hex Nut.....	2.89	0.55
05 05 23 00-1369	EA		7/8" Diameter, 304 Stainless Steel Hex Nut.....	4.71	0.55
05 05 23 00-1370	EA		1" Diameter, 304 Stainless Steel Hex Nut.....	7.19	0.55
05 05 23 00-1371	EA		1-1/4" Diameter, 304 Stainless Steel Hex Nut.....	17.20	0.55
05 05 23 00-1372	EA		1-1/2" Diameter, 304 Stainless Steel Hex Nut.....	32.98	0.84
05 05 23 00-1373	EA		1-3/4" Diameter, 304 Stainless Steel Hex Nut.....	57.94	0.84
05 05 23 00-1374	EA		2" Diameter, 304 Stainless Steel Hex Nut.....	82.56	0.84

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

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1375			316 Stainless Steel Hex Nuts (05 05 23 00-1291)		
05 05 23 00-1376	EA		1/4" Diameter, 316 Stainless Steel Hex Nut.....	0.82	0.28
05 05 23 00-1377	EA		5/16" Diameter, 316 Stainless Steel Hex Nut.....	0.94	0.28
05 05 23 00-1378	EA		3/8" Diameter, 316 Stainless Steel Hex Nut.....	1.12	0.28
05 05 23 00-1379	EA		7/16" Diameter, 316 Stainless Steel Hex Nut.....	1.81	0.28
05 05 23 00-1380	EA		1/2" Diameter, 316 Stainless Steel Hex Nut.....	1.94	0.28
05 05 23 00-1381	EA		9/16" Diameter, 316 Stainless Steel Hex Nut.....	2.63	0.28
05 05 23 00-1382	EA		5/8" Diameter, 316 Stainless Steel Hex Nut.....	2.97	0.28
05 05 23 00-1383	EA		3/4" Diameter, 316 Stainless Steel Hex Nut.....	4.12	0.55
05 05 23 00-1384	EA		7/8" Diameter, 316 Stainless Steel Hex Nut.....	5.71	0.55
05 05 23 00-1385	EA		1" Diameter, 316 Stainless Steel Hex Nut.....	8.79	0.55
05 05 23 00-1386	EA		1-1/4" Diameter, 316 Stainless Steel Hex Nut.....	26.63	0.55
05 05 23 00-1387	EA		1-1/2" Diameter, 316 Stainless Steel Hex Nut.....	43.04	0.84
05 05 23 00-1388	EA		1-3/4" Diameter, 316 Stainless Steel Hex Nut.....	72.59	0.84
05 05 23 00-1389	EA		2" Diameter, 316 Stainless Steel Hex Nut.....	134.90	0.84
05 05 23 00-1390			Flat Washers (05 05 23 00-1290)		
05 05 23 00-1391			Zinc Plated Steel, Low Carbon Flat Washers (05 05 23 00-1390)		
05 05 23 00-1392	EA		1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.04	
05 05 23 00-1393	EA		5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.06	
05 05 23 00-1394	EA		3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.11	
05 05 23 00-1395	EA		7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.16	
05 05 23 00-1396	EA		1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.23	
05 05 23 00-1397	EA		9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.26	
05 05 23 00-1398	EA		5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.44	
05 05 23 00-1399	EA		3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.64	
05 05 23 00-1400	EA		7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.76	
05 05 23 00-1401	EA		1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.94	
05 05 23 00-1402	EA		1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.06	
05 05 23 00-1403	EA		1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.26	
05 05 23 00-1404	EA		1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.98	
05 05 23 00-1405	EA		1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.03	
05 05 23 00-1406	EA		1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	3.01	
05 05 23 00-1407	EA		2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	3.74	
05 05 23 00-1408			Zinc Plated Steel, Hardened Flat Washers (05 05 23 00-1390)		
05 05 23 00-1409	EA		1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.14	
05 05 23 00-1410	EA		5/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.19	
05 05 23 00-1411	EA		3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.22	
05 05 23 00-1412	EA		7/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.29	
05 05 23 00-1413	EA		1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.40	
05 05 23 00-1414	EA		9/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.64	
05 05 23 00-1415	EA		5/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.92	
05 05 23 00-1416	EA		3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	1.29	
05 05 23 00-1417	EA		7/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	2.16	
05 05 23 00-1418	EA		1" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	2.39	
05 05 23 00-1419	EA		1-1/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	3.48	
05 05 23 00-1420	EA		1-1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	3.80	
05 05 23 00-1421	EA		1-3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	5.01	
05 05 23 00-1422	EA		1-1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	5.73	
05 05 23 00-1423	EA		1-3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	7.70	
05 05 23 00-1424	EA		2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	9.24	
05 05 23 00-1425			Hot Dipped Galvanized Steel Flat Washers (05 05 23 00-1390)		
05 05 23 00-1426	EA		1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.09	
05 05 23 00-1427	EA		5/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.13	
05 05 23 00-1428	EA		3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.14	
05 05 23 00-1429	EA		7/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.27	
05 05 23 00-1430	EA		1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.34	
05 05 23 00-1431	EA		9/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.56	
05 05 23 00-1432	EA		5/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.63	
05 05 23 00-1433	EA		3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.96	
05 05 23 00-1434	EA		7/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.34	
05 05 23 00-1435	EA		1" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.48	
05 05 23 00-1436	EA		1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	2.26	
05 05 23 00-1437	EA		1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	2.51	
05 05 23 00-1438	EA		1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	3.59	
05 05 23 00-1439	EA		1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	3.89	
05 05 23 00-1440	EA		1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	5.65	
05 05 23 00-1441			304/18-8 Stainless Steel Flat Washers (05 05 23 00-1390)		
05 05 23 00-1442	EA		1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.12	
05 05 23 00-1443	EA		5/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1444 EA 3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.24	
05 05 23 00-1445 EA 7/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.44	
05 05 23 00-1446 EA 1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.79	
05 05 23 00-1447 EA 9/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.99	
05 05 23 00-1448 EA 5/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	1.46	
05 05 23 00-1449 EA 3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	1.48	
05 05 23 00-1450 EA 7/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	3.12	
05 05 23 00-1451 EA 1" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	3.96	
05 05 23 00-1452 EA 1-1/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	4.61	
05 05 23 00-1453 EA 1-1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	4.96	
05 05 23 00-1454 EA 1-3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	5.24	
05 05 23 00-1455 EA 1-1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	6.39	
05 05 23 00-1456 EA 1-3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	7.94	
05 05 23 00-1457 EA 2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	15.60	
05 05 23 00-1458 316 Stainless Steel Flat Washers (05 05 23 00-1390)		
05 05 23 00-1459 EA 1/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.24	
05 05 23 00-1460 EA 5/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.26	
05 05 23 00-1461 EA 3/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.47	
05 05 23 00-1462 EA 7/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.56	
05 05 23 00-1463 EA 1/2" Inside Diameter, 316 Stainless Steel Flat Washer.....	1.03	
05 05 23 00-1464 EA 9/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	1.85	
05 05 23 00-1465 EA 5/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	2.18	
05 05 23 00-1466 EA 3/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	2.75	
05 05 23 00-1467 EA 7/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	4.26	
05 05 23 00-1468 EA 1" Inside Diameter, 316 Stainless Steel Flat Washer.....	4.76	
05 05 23 00-1469 EA 1-1/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	5.43	
05 05 23 00-1470 EA 1-1/4" Inside Diameter, 316 Stainless Steel Flat Washer	6.68	
05 05 23 00-1471 EA 1-3/8" Inside Diameter, 316 Stainless Steel Flat Washer	7.07	
05 05 23 00-1472 EA 1-1/2" Inside Diameter, 316 Stainless Steel Flat Washer	7.23	
05 05 23 00-1473 EA 1-3/4" Inside Diameter, 316 Stainless Steel Flat Washer	10.59	
05 05 23 00-1474 Lock Washers (05 05 23 00-1290)		
05 05 23 00-1475 Zinc Plated Steel, Low Carbon Lock Washers (05 05 23 00-1474)		
05 05 23 00-1476 EA 1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.02	
05 05 23 00-1477 EA 5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.03	
05 05 23 00-1478 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.04	
05 05 23 00-1479 EA 7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.06	
05 05 23 00-1480 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.09	
05 05 23 00-1481 EA 9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.15	
05 05 23 00-1482 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.17	
05 05 23 00-1483 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.26	
05 05 23 00-1484 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.42	
05 05 23 00-1485 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.76	
05 05 23 00-1486 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	1.12	
05 05 23 00-1487 EA 1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	1.71	
05 05 23 00-1488 EA 1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	2.71	
05 05 23 00-1489 EA 1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	3.19	
05 05 23 00-1490 EA 1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	5.70	
05 05 23 00-1491 EA 2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	6.42	
05 05 23 00-1492 Hot Dipped Galvanized Steel Lock Washers (05 05 23 00-1474)		
05 05 23 00-1493 EA 1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.07	
05 05 23 00-1494 EA 5/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.08	
05 05 23 00-1495 EA 3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.11	
05 05 23 00-1496 EA 7/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.12	
05 05 23 00-1497 EA 1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.19	
05 05 23 00-1498 EA 9/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.25	
05 05 23 00-1499 EA 5/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.29	
05 05 23 00-1500 EA 3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.49	
05 05 23 00-1501 EA 7/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.71	
05 05 23 00-1502 EA 1" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	1.12	
05 05 23 00-1503 EA 1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	2.02	
05 05 23 00-1504 EA 1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	2.41	
05 05 23 00-1505 EA 1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	3.48	
05 05 23 00-1506 EA 1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	3.98	
05 05 23 00-1507 EA 1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	5.39	
05 05 23 00-1508 EA 2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	7.34	
05 05 23 00-1509 304/18-8 Stainless Steel Lock Washers (05 05 23 00-1474)		
05 05 23 00-1510 EA 1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.10	
05 05 23 00-1511 EA 5/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.15	
05 05 23 00-1512 EA 3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.20	
05 05 23 00-1513 EA 7/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.38	
05 05 23 00-1514 EA 1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.42	
05 05 23 00-1515 EA 9/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	1.02	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1516 EA 5/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	1.20	
05 05 23 00-1517 EA 3/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	1.40	
05 05 23 00-1518 EA 7/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	2.54	
05 05 23 00-1519 EA 1" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	3.59	
05 05 23 00-1520 EA 1-1/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	6.26	
05 05 23 00-1521 EA 1-1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	8.32	
05 05 23 00-1522 EA 1-3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	10.59	
05 05 23 00-1523 EA 1-1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	12.70	
05 05 23 00-1524 316 Stainless Steel Lock Washers (05 05 23 00-1474)		
05 05 23 00-1525 EA 1/4" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.13	
05 05 23 00-1526 EA 5/16" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.28	
05 05 23 00-1527 EA 3/8" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.32	
05 05 23 00-1528 EA 7/16" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.55	
05 05 23 00-1529 EA 1/2" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.61	
05 05 23 00-1530 EA 9/16" Inside Diameter, 316 Stainless Steel Lock Washer.....	1.09	
05 05 23 00-1531 EA 5/8" Inside Diameter, 316 Stainless Steel Lock Washer.....	1.20	
05 05 23 00-1532 EA 3/4" Inside Diameter, 316 Stainless Steel Lock Washer.....	2.06	
05 05 23 00-1533 EA 7/8" Inside Diameter, 316 Stainless Steel Lock Washer.....	3.41	
05 05 23 00-1534 EA 1" Inside Diameter, 316 Stainless Steel Lock Washer.....	4.64	
05 05 23 00-1535 EA 1-1/8" Inside Diameter, 316 Stainless Steel Lock Washer.....	6.48	
05 05 23 00-1536 EA 1-1/4" Inside Diameter, 316 Stainless Steel Lock Washer.....	9.98	
05 05 23 00-1537 EA 1-3/8" Inside Diameter, 316 Stainless Steel Lock Washer.....	17.86	
05 05 23 00-1538 EA 1-1/2" Inside Diameter, 316 Stainless Steel Lock Washer.....	19.84	
05 05 23 00-1539 Load Indicating Washers (05 05 23 00-1290)		
05 05 23 00-1540 A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1539)		
05 05 23 00-1541 Plain Finish, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1540)		
05 05 23 00-1542 EA 1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	1.86	
05 05 23 00-1543 EA 5/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.10	
05 05 23 00-1544 EA 3/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.27	
05 05 23 00-1545 EA 7/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.58	
05 05 23 00-1546 EA 1", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	3.11	
05 05 23 00-1547 EA 1-1/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	5.17	
05 05 23 00-1548 EA 1-1/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	6.68	
05 05 23 00-1549 EA 1-3/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	8.53	
05 05 23 00-1550 EA 1-1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	9.38	
05 05 23 00-1551 Galvanized, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1540)		
05 05 23 00-1552 EA 1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.35	
05 05 23 00-1553 EA 5/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.62	
05 05 23 00-1554 EA 3/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.55	
05 05 23 00-1555 EA 7/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	3.11	
05 05 23 00-1556 EA 1", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	3.68	
05 05 23 00-1557 EA 1-1/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	5.55	
05 05 23 00-1558 EA 1-1/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	6.99	
05 05 23 00-1559 EA 1-3/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	9.95	
05 05 23 00-1560 EA 1-1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	10.94	
05 05 23 00-1561 Beveled Washers (05 05 23 00-1290)		
05 05 23 00-1562 Plain Finish, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1561)		
05 05 23 00-1563 EA 1/2", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	3.07	
05 05 23 00-1564 EA 5/8", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	3.13	
05 05 23 00-1565 EA 3/4", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	3.20	
05 05 23 00-1566 EA 7/8", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	3.89	
05 05 23 00-1567 EA 1", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	4.10	
05 05 23 00-1568 Galvanized, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1561)		
05 05 23 00-1569 EA 1/2", Galvanized, Square Beveled Structural Washer (ASTM F436).....	4.41	
05 05 23 00-1570 EA 5/8", Galvanized, Square Beveled Structural Washer (ASTM F436).....	4.61	
05 05 23 00-1571 EA 3/4", Galvanized, Square Beveled Structural Washer (ASTM F436).....	4.61	
05 05 23 00-1572 EA 7/8", Galvanized, Square Beveled Structural Washer (ASTM F436).....	4.88	
05 05 23 00-1573 EA 1", Galvanized, Square Beveled Structural Washer (ASTM F436).....	5.18	
05 05 23 00-1574 Welded Stud Anchors (05 05 23)		
05 05 23 00-1575 EA 1-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....	4.19	
05 05 23 00-1576 EA 2-1/16" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....	4.28	
05 05 23 00-1577 EA 3-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....	4.32	
05 05 23 00-1578 EA 4-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....	4.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1579 EA 1-3/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.10	
05 05 23 00-1580 EA 1-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.32	
05 05 23 00-1581 EA 2-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.55	
05 05 23 00-1582 EA 2-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.67	
05 05 23 00-1583 EA 3-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.79	
05 05 23 00-1584 EA 4-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	5.27	
05 05 23 00-1585 EA 5-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	5.65	
05 05 23 00-1586 EA 6-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	5.96	
05 05 23 00-1587 EA 1-1/2" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	5.04	
05 05 23 00-1588 EA 1-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	5.07	
05 05 23 00-1589 EA 2-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	5.43	
05 05 23 00-1590 EA 2-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	5.76	
05 05 23 00-1591 EA 3-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	6.18	
05 05 23 00-1592 EA 4-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	6.82	
05 05 23 00-1593 EA 5-5/16" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	7.24	
05 05 23 00-1594 EA 6-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	8.37	
05 05 23 00-1595 EA 8-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	10.52	
05 05 23 00-1596 EA 2-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	7.23	
05 05 23 00-1597 EA 3-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	7.78	
05 05 23 00-1598 EA 3-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	8.22	
05 05 23 00-1599 EA 4-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	8.65	
05 05 23 00-1600 EA 4-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	9.02	
05 05 23 00-1601 EA 5-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	9.35	
05 05 23 00-1602 EA 6-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	9.79	
05 05 23 00-1603 EA 6-9/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	11.62	
05 05 23 00-1604 EA 8-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	14.15	

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

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

05 05 23 00-1607 EA 3/4" Diameter x 3-3/16" Long, Welded Shear Stud Connector.....	9.31	
05 05 23 00-1608 EA 3/4" Diameter x 3-3/8" Long, Welded Shear Stud Connector.....	9.69	
05 05 23 00-1609 EA 3/4" Diameter x 3-7/8" Long, Welded Shear Stud Connector.....	9.80	
05 05 23 00-1610 EA 3/4" Diameter x 4-3/16" Long, Welded Shear Stud Connector.....	9.85	
05 05 23 00-1611 EA 3/4" Diameter x 4-3/8" Long, Welded Shear Stud Connector.....	10.29	
05 05 23 00-1612 EA 3/4" Diameter x 4-11/16" Long, Welded Shear Stud Connector.....	11.09	
05 05 23 00-1613 EA 3/4" Diameter x 4-7/8" Long, Welded Shear Stud Connector.....	18.86	
05 05 23 00-1614 EA 3/4" Diameter x 5-3/16" Long, Welded Shear Stud Connector.....	12.02	
05 05 23 00-1615 EA 3/4" Diameter x 5-3/8" Long, Welded Shear Stud Connector.....	13.44	
05 05 23 00-1616 EA 3/4" Diameter x 6-3/16" Long, Welded Shear Stud Connector.....	17.44	
05 05 23 00-1617 EA 3/4" Diameter x 7-3/16" Long, Welded Shear Stud Connector.....	17.88	
05 05 23 00-1618 EA 3/4" Diameter x 8-3/16" Long, Welded Shear Stud Connector.....	19.43	
05 05 23 00-1619 EA 3/4" Diameter x 10-3/16" Long, Welded Shear Stud Connector.....	25.93	

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

05 05 23 00-1621 EA 7/8" Diameter x 3-3/16" Long, Welded Shear Stud Connector.....	11.24	
05 05 23 00-1622 EA 7/8" Diameter x 3-11/16" Long, Welded Shear Stud Connector.....	11.86	
05 05 23 00-1623 EA 7/8" Diameter x 4-3/16" Long, Welded Shear Stud Connector.....	12.48	
05 05 23 00-1624 EA 7/8" Diameter x 5-3/16" Long, Welded Shear Stud Connector.....	14.26	
05 05 23 00-1625 EA 7/8" Diameter x 6-3/16" Long, Welded Shear Stud Connector.....	18.39	
05 05 23 00-1626 EA 7/8" Diameter x 7-3/16" Long, Welded Shear Stud Connector.....	20.28	
05 05 23 00-1627 EA 7/8" Diameter x 8-3/16" Long, Welded Shear Stud Connector.....	22.14	
05 05 23 00-1628 EA 7/8" Diameter x 10-3/16" Long, Welded Shear Stud Connector.....	27.35	

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

05 05 23 00-1630 EA 1" Diameter x 3-1/4" Long, Welded Shear Stud Connector.....	15.30	
05 05 23 00-1631 EA 1" Diameter x 4-1/4" Long, Welded Shear Stud Connector.....	17.21	
05 05 23 00-1632 EA 1" Diameter x 5-1/4" Long, Welded Shear Stud Connector.....	20.02	
05 05 23 00-1633 EA 1" Diameter x 6-1/4" Long, Welded Shear Stud Connector.....	25.44	
05 05 23 00-1634 EA 1" Diameter x 7-1/4" Long, Welded Shear Stud Connector.....	28.39	
05 05 23 00-1635 EA 1" Diameter x 8-1/4" Long, Welded Shear Stud Connector.....	31.33	

05 10 Structural Metal Framing (05)

05 12 Structural Steel Framing (05 10)

05 12 23 Structural Steel for Buildings (05 12)

See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0117 for field fabrication of additional structural metal connections.

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

Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock cross-sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding. See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0117 for field fabrication of additional structural metal connections.

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0002			Beams, Girders And Columns <small>(05 12 23 00-0001)</small>		
			Note: For one and two story I beams and W shapes and HP shapes.		
05 12 23 00-0003	TON		Up To 30 LB/LF Beams, Girders And Columns	10,114.79	1,234.90
			For ASTM A242 Type 2 High Strength Steel, Add	604.80	
			For Hot Dip Galvanizing, Add	2,116.81	
			For >10 To 25 Tons, Deduct	-642.60	
			For >25 To 50 Tons, Deduct	-1,323.01	
			For >50 Tons, Deduct	-1,890.01	
05 12 23 00-0004	TON		>30-65 LB/LF Beams, Girders And Columns	7,056.17	798.28
			For ASTM A242 Type 2 High Strength Steel, Add	496.37	
			For Hot Dip Galvanizing, Add	1,737.29	
			For >10 To 25 Tons, Deduct	-527.39	
			For >25 To 50 Tons, Deduct	-1,085.80	
			For >50 Tons, Deduct	-1,551.15	
05 12 23 00-0005	TON		>65-100 LB/LF Beams, Girders And Columns	5,987.34	449.08
			For ASTM A242 Type 2 High Strength Steel, Add	440.67	
			For Hot Dip Galvanizing, Add	1,542.33	
			For >10 To 25 Tons, Deduct	-468.21	
			For >25 To 50 Tons, Deduct	-963.96	
			For >50 Tons, Deduct	-1,377.08	
05 12 23 00-0006	TON		>100-300 LB/LF Beams, Girders And Columns	4,021.07	239.03
			For ASTM A242 Type 2 High Strength Steel, Add	301.25	
			For Hot Dip Galvanizing, Add	1,054.37	
			For >10 To 25 Tons, Deduct	-320.08	
			For >25 To 50 Tons, Deduct	-658.98	
			For >50 Tons, Deduct	-941.40	
05 12 23 00-0007			Trusses, Built-Up <small>(05 12 23 00-0001)</small>		
05 12 23 00-0008	TON		Built-Up Trusses, Rolled Structural Steel Members	7,487.21	839.84
			For ASTM A242 Type 2 High Strength Steel, Add	527.35	
			For Hot Dip Galvanizing, Add	1,845.72	
			For >10 To 25 Tons, Deduct	-560.31	
			For >25 To 50 Tons, Deduct	-1,153.57	
			For >50 Tons, Deduct	-1,647.96	
05 12 23 00-0009			Shapes <small>(05 12 23 00-0001)</small>		
05 12 23 00-0010			Rolled Shape Steel Angles <small>(05 12 23 00-0009)</small>		
05 12 23 00-0011	TON		Up To 10 LB/LF Rolled Shape Steel Angles	14,743.90	2,295.68
			For ASTM A242 Type 2 High Strength Steel, Add	873.42	
			For Hot Dip Galvanizing, Add	3,056.97	
			For >10 To 25 Tons, Deduct	-928.01	
			For >25 To 50 Tons, Deduct	-1,910.61	
			For >50 Tons, Deduct	-2,729.44	
05 12 23 00-0012	TON		>10 To 20 LB/LF Rolled Shape Steel Angles	12,998.72	1,347.24
			For ASTM A242 Type 2 High Strength Steel, Add	835.52	
			For Hot Dip Galvanizing, Add	2,924.31	
			For >10 To 25 Tons, Deduct	-887.74	
			For >25 To 50 Tons, Deduct	-1,827.69	
			For >50 Tons, Deduct	-2,610.99	
05 12 23 00-0013	TON		>20 To 58 LB/LF Rolled Shape Steel Angles	10,038.84	798.28
			For ASTM A242 Type 2 High Strength Steel, Add	734.99	
			For Hot Dip Galvanizing, Add	2,572.47	
			For >10 To 25 Tons, Deduct	-780.93	
			For >25 To 50 Tons, Deduct	-1,607.79	
			For >50 Tons, Deduct	-2,296.85	
05 12 23 00-0014			Rolled C, MC Steel Channels <small>(05 12 23 00-0009)</small>		
05 12 23 00-0015	TON		Up To 10 LB/LF Rolled C, MC Steel Channels	16,016.87	3,143.54
			For ASTM A242 Type 2 High Strength Steel, Add	860.24	
			For Hot Dip Galvanizing, Add	3,010.83	
			For >10 To 25 Tons, Deduct	-914.00	
			For >25 To 50 Tons, Deduct	-1,881.77	
			For >50 Tons, Deduct	-2,688.24	
05 12 23 00-0016	TON		>10 To 20 Rolled C, MC Steel Channels	12,854.52	2,395.08
			For ASTM A242 Type 2 High Strength Steel, Add	823.98	
			For Hot Dip Galvanizing, Add	2,883.94	
			For >10 To 25 Tons, Deduct	-875.48	
			For >25 To 50 Tons, Deduct	-1,802.46	
			For >50 Tons, Deduct	-2,574.94	
05 12 23 00-0017	TON		>20 To 58 LB/LF Rolled C, MC Steel Channels	9,874.05	798.28
			For ASTM A242 Type 2 High Strength Steel, Add	721.81	
			For Hot Dip Galvanizing, Add	2,526.33	
			For >10 To 25 Tons, Deduct	-766.92	
			For >25 To 50 Tons, Deduct	-1,578.96	
			For >50 Tons, Deduct	-2,255.65	
05 12 23 00-0018			Double L Shape Steel Angles <small>(05 12 23 00-0009)</small>		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0019	TON		Up To 20 LB/LF Double L Shape Steel Angles..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	13,694.23 840.46 2,941.62 -892.99 -1,838.51 -2,626.44	1,821.45
05 12 23 00-0020	TON		>20 To 50 LB/LF Double L Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	10,739.23 791.02 2,768.58 -840.46 -1,730.36 -2,471.95	798.28
05 12 23 00-0021	TON		>50 To 80 LB/LF Double L Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	8,100.84 609.75 2,134.11 -647.86 -1,333.82 -1,905.46	449.08
05 12 23 00-0022	TON		>80 To 115 LB/LF Double L Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	5,198.97 395.51 1,384.29 -420.23 -865.18 -1,235.97	239.39
05 12 23 00-0023 Structural WT, MT, ST Tee Shapes (05 12 23 00-0001)					
05 12 23 00-0024	TON		Up To 30 LB/LF Structural WT, MT, ST Tee Shapes..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	12,442.53 791.02 2,768.58 -840.46 -1,730.36 -2,471.95	1,347.24
05 12 23 00-0025	TON		>30 To 65 LB/LF Structural WT, MT, ST Tee Shapes <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	8,411.61 604.80 2,116.81 -642.60 -1,323.01 -1,890.01	798.28
05 12 23 00-0026	TON		>65 To 100 LB/LF Structural WT, MT, ST Tee Shapes <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	6,658.87 494.39 1,730.36 -525.29 -1,081.48 -1,544.97	449.08
05 12 23 00-0027	TON		>100 To 365 LB/LF Structural WT, MT, ST Tee Shapes <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	4,910.98 372.44 1,303.54 -395.72 -814.71 -1,163.88	239.03
05 12 23 00-0028 Combination Section Shapes (05 12 23 00-0001)					
05 12 23 00-0029 Combination Section, W Shapes And Angles (05 12 23 00-0028)					
05 12 23 00-0030	TON		Up To 30 LB/LF Combination Section - W Shapes And Angles..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	11,803.94 739.94 2,589.77 -786.18 -1,618.61 -2,312.30	1,347.24
05 12 23 00-0031	TON		>30-65 LB/LF Combination Section - W Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	8,473.43 609.75 2,134.12 -647.86 -1,333.82 -1,905.46	798.28
05 12 23 00-0032	TON		>65-100 LB/LF Combination Section - W Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	6,143.88 453.19 1,586.16 -481.51 -991.35 -1,416.22	449.08
05 12 23 00-0033	TON		>100-300 LB/LF Combination Section - W Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	5,322.57 405.40 1,418.90 -430.74 -886.81 -1,266.87	239.03
05 12 23 00-0034	TON		>300-500 LB/LF Combination Section - W Shapes And Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	4,597.85 357.61 1,251.63 -379.96 -782.27 -1,117.53	119.99

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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05 12 23 00-0035 Combination Section, S Shapes And Angles <small>(05 12 23 00-0028)</small>		
05 12 23 00-0036 TON >30-65 LB/LF Combination Section - S Shapes And Angles	8,143.82	798.28
For ASTM A242 Type 2 High Strength Steel, Add		
583.38		
For Hot Dip Galvanizing, Add		
2,041.83		
For >10 To 25 Tons, Deduct		
-619.84		
For >25 To 50 Tons, Deduct		
-1,276.14		
For >50 Tons, Deduct		
-1,823.06		
05 12 23 00-0037 TON >65-100 LB/LF Combination Section - S Shapes And Angles	6,164.48	449.08
For ASTM A242 Type 2 High Strength Steel, Add		
454.84		
For Hot Dip Galvanizing, Add		
1,591.93		
For >10 To 25 Tons, Deduct		
-483.26		
For >25 To 50 Tons, Deduct		
-994.96		
For >50 Tons, Deduct		
-1,421.37		
05 12 23 00-0038 Combination Section, Channels And Angles <small>(05 12 23 00-0028)</small>		
05 12 23 00-0039 TON Up To 30 LB/LF Combination Section - Channels And Angles	12,442.53	1,347.24
For ASTM A242 Type 2 High Strength Steel, Add		
791.02		
For Hot Dip Galvanizing, Add		
2,768.58		
For >10 To 25 Tons, Deduct		
-840.46		
For >25 To 50 Tons, Deduct		
-1,730.36		
For >50 Tons, Deduct		
-2,471.95		
05 12 23 00-0040 TON >30-65 LB/LF Combination Section - Channels And Angles	8,885.40	798.28
For ASTM A242 Type 2 High Strength Steel, Add		
642.71		
For Hot Dip Galvanizing, Add		
2,249.47		
For >10 To 25 Tons, Deduct		
-682.87		
For >25 To 50 Tons, Deduct		
-1,405.92		
For >50 Tons, Deduct		
-2,008.46		
05 12 23 00-0041 TON >65-100 LB/LF Combination Section - Channels And Angles	6,308.68	449.08
For ASTM A242 Type 2 High Strength Steel, Add		
466.37		
For Hot Dip Galvanizing, Add		
1,632.31		
For >10 To 25 Tons, Deduct		
-495.52		
For >25 To 50 Tons, Deduct		
-1,020.19		
For >50 Tons, Deduct		
-1,457.42		
05 12 23 00-0042 Standard Weight Pipe <small>(05 12 23 00-0001)</small>		
05 12 23 00-0043 TON 1/2" To 5" Diameter Standard Weight Pipe	7,193.49	718.53
For ASTM A242 Type 2 High Strength Steel, Add		
514.16		
For Hot Dip Galvanizing, Add		
1,799.58		
For >10 To 25 Tons, Deduct		
-546.30		
For >25 To 50 Tons, Deduct		
-1,124.74		
For >50 Tons, Deduct		
-1,606.77		
05 12 23 00-0044 TON >5" To 12" Diameter Standard Weight Pipe	7,673.49	898.15
For ASTM A242 Type 2 High Strength Steel, Add		
537.24		
For Hot Dip Galvanizing, Add		
1,880.33		
For >10 To 25 Tons, Deduct		
-570.81		
For >25 To 50 Tons, Deduct		
-1,175.20		
For >50 Tons, Deduct		
-1,678.86		
05 12 23 00-0045 Structural Steel Shapes <small>(05 12 23)</small>		
Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock cross-sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding. See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0117 for field fabrication of additional structural metal connections.		
05 12 23 00-0046 Steel Rods <small>(05 12 23 00-0045)</small>		
05 12 23 00-0047 TON 1/2" To 5" Diameter Extra Strong Steel, Solid	7,767.40	561.41
For ASTM A242 Type 2 High Strength Steel, Add		
573.49		
For Hot Dip Galvanizing, Add		
2,007.22		
For >10 To 25 Tons, Deduct		
-609.33		
For >25 To 50 Tons, Deduct		
-1,254.51		
For >50 Tons, Deduct		
-1,792.16		
05 12 23 00-0048 TON >5" To 12" Diameter Extra Strong Steel, Solid	8,885.40	798.28
For ASTM A242 Type 2 High Strength Steel, Add		
642.71		
For Hot Dip Galvanizing, Add		
2,249.47		
For >10 To 25 Tons, Deduct		
-682.87		
For >25 To 50 Tons, Deduct		
-1,405.92		
For >50 Tons, Deduct		
-2,008.46		
05 12 23 00-0049 Column Base Plates <small>(05 12 23 00-0045)</small>		
05 12 23 00-0050 LB Column Base Plates, Up To 150 LB / Each, A36 Miscellaneous Steel Items	3.85	0.72
For ASTM A242 Type 2 High Strength Steel, Add		
0.25		
For Hot Dip Galvanizing, Add		
0.87		
05 12 23 00-0051 LB Column Base Plates, >150 LB / Each, A36 Miscellaneous Steel Items	3.62	0.61
For ASTM A242 Type 2 High Strength Steel, Add		
0.24		
For Hot Dip Galvanizing, Add		
0.82		



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

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0052 TON Column Base Plates, Up To 150 LB Each, A36 Miscellaneous Steel Items	7,050.04	635.46
For ASTM A242 Type 2 High Strength Steel, Add	509.78	
For Hot Dip Galvanizing, Add	1,784.22	
For >10 To 25 Tons, Deduct	-541.64	
For >25 To 50 Tons, Deduct	-1,115.14	
For >50 Tons, Deduct	-1,593.05	
05 12 23 00-0053 TON Column Base Plates, >150 LB Each, A36 Miscellaneous Steel Items	5,015.64	381.27
For ASTM A242 Type 2 High Strength Steel, Add	368.72	
For Hot Dip Galvanizing, Add	1,290.50	
For >10 To 25 Tons, Deduct	-391.76	
For >25 To 50 Tons, Deduct	-806.56	
For >50 Tons, Deduct	-1,152.24	
05 12 23 00-0054 Double Extra Strong Pipes <small>(05 12 23 00-0045)</small>		
05 12 23 00-0055 TON 2" To 5" Diameter Double Extra Strong Pipe	9,293.51	1,026.41
For ASTM A242 Type 2 High Strength Steel, Add	655.89	
For Hot Dip Galvanizing, Add	2,295.61	
For >10 To 25 Tons, Deduct	-696.88	
For >25 To 50 Tons, Deduct	-1,434.76	
For >50 Tons, Deduct	-2,049.66	
05 12 23 00-0056 TON >5" To 8" Diameter Double Extra Strong Pipe	8,788.18	552.67
For ASTM A242 Type 2 High Strength Steel, Add	655.89	
For Hot Dip Galvanizing, Add	2,295.61	
For >10 To 25 Tons, Deduct	-696.88	
For >25 To 50 Tons, Deduct	-1,434.76	
For >50 Tons, Deduct	-2,049.66	
05 12 23 00-0057 Structural Pipes <small>(05 12 23 00-0045)</small>		
05 12 23 00-0058 TON 3" To 5" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items	6,497.53	474.23
For ASTM A242 Type 2 High Strength Steel, Add	461.43	
For Hot Dip Galvanizing, Add	1,615.00	
For >10 To 25 Tons, Deduct	-490.27	
For >25 To 50 Tons, Deduct	-1,009.38	
For >50 Tons, Deduct	-1,441.97	
05 12 23 00-0059 TON >5" To 12" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items	6,974.46	546.92
For ASTM A242 Type 2 High Strength Steel, Add	461.43	
For Hot Dip Galvanizing, Add	1,615.00	
For >10 To 25 Tons, Deduct	-490.27	
For >25 To 50 Tons, Deduct	-1,009.38	
For >50 Tons, Deduct	-1,441.97	
05 12 23 00-0060 Structural Tubing <small>(05 12 23 00-0045)</small>		
05 12 23 00-0061 Rectangle Structural Tubing <small>(05 12 23 00-0060)</small>		
05 12 23 00-0062 TON 3" x 2" Weight Range 5-7 LB/LF Structural Tubing - Rectangle	10,810.72	479.01
For ASTM A242 Type 2 High Strength Steel, Add	823.98	
For Hot Dip Galvanizing, Add	2,883.94	
For >10 To 25 Tons, Deduct	-875.48	
For >25 To 50 Tons, Deduct	-1,802.46	
For >50 Tons, Deduct	-2,574.94	
05 12 23 00-0063 TON 4" x 3", 2" Weight Range 6-13 LB/LF Structural Tubing - Rectangle	10,889.33	552.67
For ASTM A242 Type 2 High Strength Steel, Add	823.98	
For Hot Dip Galvanizing, Add	2,883.94	
For >10 To 25 Tons, Deduct	-875.48	
For >25 To 50 Tons, Deduct	-1,802.46	
For >50 Tons, Deduct	-2,574.94	
05 12 23 00-0064 TON 5" x 4", 2" Weight Range 8-20 LB/LF Structural Tubing - Rectangle	9,496.49	598.77
For ASTM A242 Type 2 High Strength Steel, Add	708.62	
For Hot Dip Galvanizing, Add	2,480.18	
For >10 To 25 Tons, Deduct	-752.91	
For >25 To 50 Tons, Deduct	-1,550.12	
For >50 Tons, Deduct	-2,214.45	
05 12 23 00-0065 TON 6" x 4", 3", 2" Weight Range 9-29 LB/LF Structural Tubing - Rectangle	9,006.25	718.53
For ASTM A242 Type 2 High Strength Steel, Add	659.19	
For Hot Dip Galvanizing, Add	2,307.15	
For >10 To 25 Tons, Deduct	-700.38	
For >25 To 50 Tons, Deduct	-1,441.97	
For >50 Tons, Deduct	-2,059.96	
05 12 23 00-0066 TON 7" x 5", 4", 3" Weight Range 12-35 LB/LF Structural Tubing - Rectangle	8,473.41	798.28
For ASTM A242 Type 2 High Strength Steel, Add	609.75	
For Hot Dip Galvanizing, Add	2,134.11	
For >10 To 25 Tons, Deduct	-647.86	
For >25 To 50 Tons, Deduct	-1,333.82	
For >50 Tons, Deduct	-1,905.46	
05 12 23 00-0067 TON 8" x 6", 4", 3", 2" Weight Range 11-42 LB/LF Structural Tubing - Rectangle	8,800.22	1,104.73
For ASTM A242 Type 2 High Strength Steel, Add	609.75	
For Hot Dip Galvanizing, Add	2,134.11	
For >10 To 25 Tons, Deduct	-647.86	
For >25 To 50 Tons, Deduct	-1,333.82	
For >50 Tons, Deduct	-1,905.46	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0068	TON		10" x 6", 4", 2" Weight Range 15-50 LB/LF Structural Tubing - Rectangle	9,344.40	1,460.40
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	622.93	
			<i>For Hot Dip Galvanizing, Add</i>	2,180.26	
			<i>For >10 To 25 Tons, Deduct</i>	-661.86	
			<i>For >25 To 50 Tons, Deduct</i>	-1,362.66	
			<i>For >50 Tons, Deduct</i>	-1,946.66	
05 12 23 00-0069	TON		12" x 6", 4", 2" Weight Range 17-76 LB/LF Structural Tubing - Rectangle	9,570.67	1,595.25
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	629.52	
			<i>For Hot Dip Galvanizing, Add</i>	2,203.33	
			<i>For >10 To 25 Tons, Deduct</i>	-668.87	
			<i>For >25 To 50 Tons, Deduct</i>	-1,377.08	
			<i>For >50 Tons, Deduct</i>	-1,967.26	
05 12 23 00-0070	TON		14" x 10", 6", 4" Weight Range 29-76 LB/LF Structural Tubing - Rectangle	9,785.08	1,796.31
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	629.52	
			<i>For Hot Dip Galvanizing, Add</i>	2,203.33	
			<i>For >10 To 25 Tons, Deduct</i>	-668.87	
			<i>For >25 To 50 Tons, Deduct</i>	-1,377.08	
			<i>For >50 Tons, Deduct</i>	-1,967.26	
05 12 23 00-0071	TON		16" x 12", 8", 4" Weight Range 40-90 LB/LF Structural Tubing - Rectangle	11,811.97	3,773.81
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	622.93	
			<i>For Hot Dip Galvanizing, Add</i>	2,180.26	
			<i>For >10 To 25 Tons, Deduct</i>	-661.86	
			<i>For >25 To 50 Tons, Deduct</i>	-1,362.66	
			<i>For >50 Tons, Deduct</i>	-1,946.66	
05 12 23 00-0072	TON		18" x 6" Weight Range 48-76 LB/LF Structural Tubing - Rectangle	10,135.38	2,395.08
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	606.45	
			<i>For Hot Dip Galvanizing, Add</i>	2,122.58	
			<i>For >10 To 25 Tons, Deduct</i>	-644.35	
			<i>For >25 To 50 Tons, Deduct</i>	-1,326.61	
			<i>For >50 Tons, Deduct</i>	-1,895.16	
05 12 23 00-0073	TON		20" x 12", 8", 4" Weight Range 48-105 LB/LF Structural Tubing - Rectangle	13,870.11	5,510.24
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	639.41	
			<i>For Hot Dip Galvanizing, Add</i>	2,237.93	
			<i>For >10 To 25 Tons, Deduct</i>	-679.37	
			<i>For >25 To 50 Tons, Deduct</i>	-1,398.71	
			<i>For >50 Tons, Deduct</i>	-1,998.16	
05 12 23 00-0074	Square Structural Tubing (05 12 23 00-0060)				
05 12 23 00-0075	TON		2" x 2" Weight Range 4-6 LB/LF Structural Tubing - Square	10,778.78	449.08
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	823.98	
			<i>For Hot Dip Galvanizing, Add</i>	2,883.94	
			<i>For >10 To 25 Tons, Deduct</i>	-875.48	
			<i>For >25 To 50 Tons, Deduct</i>	-1,802.46	
			<i>For >50 Tons, Deduct</i>	-2,574.94	
05 12 23 00-0076	TON		2.5" x 2.5" Weight Range 5-8 LB/LF Structural Tubing - Square	10,810.72	479.01
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	823.98	
			<i>For Hot Dip Galvanizing, Add</i>	2,883.94	
			<i>For >10 To 25 Tons, Deduct</i>	-875.48	
			<i>For >25 To 50 Tons, Deduct</i>	-1,802.46	
			<i>For >50 Tons, Deduct</i>	-2,574.94	
05 12 23 00-0077	TON		3" x 3" Weight Range 6-11 LB/LF Structural Tubing - Square	9,702.49	598.77
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	725.10	
			<i>For Hot Dip Galvanizing, Add</i>	2,537.86	
			<i>For >10 To 25 Tons, Deduct</i>	-770.42	
			<i>For >25 To 50 Tons, Deduct</i>	-1,586.17	
			<i>For >50 Tons, Deduct</i>	-2,265.95	
05 12 23 00-0078	TON		3.5" x 3.5" Weight Range 8-13 LB/LF Structural Tubing - Square	9,624.23	718.53
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	708.62	
			<i>For Hot Dip Galvanizing, Add</i>	2,480.18	
			<i>For >10 To 25 Tons, Deduct</i>	-752.91	
			<i>For >25 To 50 Tons, Deduct</i>	-1,550.12	
			<i>For >50 Tons, Deduct</i>	-2,214.45	
05 12 23 00-0079	TON		4" x 4" Weight Range 10-22 LB/LF Structural Tubing - Square	7,714.69	898.15
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	540.53	
			<i>For Hot Dip Galvanizing, Add</i>	1,891.86	
			<i>For >10 To 25 Tons, Deduct</i>	-574.32	
			<i>For >25 To 50 Tons, Deduct</i>	-1,182.41	
			<i>For >50 Tons, Deduct</i>	-1,689.16	
05 12 23 00-0080	TON		5" x 5" Weight Range 12-30 LB/LF Structural Tubing - Square	7,851.54	1,026.41
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	540.53	
			<i>For Hot Dip Galvanizing, Add</i>	1,891.86	
			<i>For >10 To 25 Tons, Deduct</i>	-574.32	
			<i>For >25 To 50 Tons, Deduct</i>	-1,182.41	
			<i>For >50 Tons, Deduct</i>	-1,689.16	
05 12 23 00-0081	TON		6" x 6" Weight Range 15-35 LB/LF Structural Tubing - Square	8,289.50	1,437.05
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	540.53	
			<i>For Hot Dip Galvanizing, Add</i>	1,891.86	
			<i>For >10 To 25 Tons, Deduct</i>	-574.32	
			<i>For >25 To 50 Tons, Deduct</i>	-1,182.41	
			<i>For >50 Tons, Deduct</i>	-1,689.16	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0082	TON	7" x 7"	Weight Range 17-42 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	8,796.31 550.42 1,926.47 -584.82 -1,204.04 -1,720.06	1,796.31
05 12 23 00-0083	TON	8" x 8"	Weight Range 20-60 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	10,547.37 639.41 2,237.93 -679.37 -1,398.71 -1,998.16	2,395.08
05 12 23 00-0084	TON	10" x 10"	Weight Range 33-77 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	11,824.75 639.41 2,237.93 -679.37 -1,398.71 -1,998.16	3,592.62
05 12 23 00-0085	TON	12" x 12"	Weight Range 40-80 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	11,378.06 550.42 1,926.47 -584.82 -1,204.04 -1,720.06	4,216.66
05 12 23 00-0086	TON	14" x 14"	Weight Range 57-90 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	13,705.31 626.23 2,191.79 -665.36 -1,369.87 -1,956.96	5,510.24
05 12 23 00-0087	TON	16" x 16"	Weight Range 65-105 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	15,656.87 639.41 2,237.93 -679.37 -1,398.71 -1,998.16	7,185.24
05 12 23 00-0088			Structural Shapes <small>(05 12 23 00-0045)</small>		
05 12 23 00-0089	TON	Structural Shapes, Steel Angle A36 Structural Steel, Purlins And Girts (Up To 20 LB/LF)	<i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >20 To 50 LB/LF, Deduct</i> <i>For >50 To 75 LB/LF, Deduct</i> <i>For >75 To 100 LB/LF, Deduct</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	8,182.01 331.79 1,161.25 -1,019.94 -1,630.77 -2,241.61 -352.52 -725.78 -1,036.83	2,541.86
05 12 23 00-0090	TON	Structural Shapes, Steel Plate A36 Structural Steel	Note: Up to 21.5 LB per SF <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >21.5 To 50 LB/LF, Deduct</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,944.04 527.36 1,845.76 -862.01 -560.32 -1,153.60 -1,648.00	1,016.74
05 12 23 00-0091	LB	Structural Shapes, Primed Pipe Supports (Up To 20 LB/LF)		4.64	0.23
05 12 23 00-0092	LB	Structural Shapes, Galvanized Pipe Supports		5.67	0.23
05 12 23 00-0093			Built-Up Trusses <small>(05 12 23 00-0045)</small>		
05 12 23 00-0094	TON	Up To 50 LF Span Average Weight 100 LB/LF Trusses, Built-up	<i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	8,767.22 -712.64 -1,467.20 -2,096.00	359.26
05 12 23 00-0095	TON	>50-100 LF Span Average Weight 120 LB/LF Trusses, Built-up	<i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	8,679.30 -719.64 -1,481.62 -2,116.60	199.51
05 12 23 00-0096	TON	>100-200 LF Span Average Weight 150 LB/LF Trusses, Built-up	<i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,734.54 -647.86 -1,333.82 -1,905.46	105.62
05 12 23 00-0097	TON	>200 LF Span Average Weight 180 LB/LF Trusses, Built-up	<i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,522.28 -630.35 -1,297.77 -1,853.96	99.87
05 12 23 00-0098			Masonry Plates, Filler Plates, Sole Plates And Anchor Straps <small>(05 12 23 00-0045)</small>		
			Note: Includes shop fabrication, welds, drilling and shop primer.		
05 12 23 00-0099	SF	1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps		28.69	7.32
05 12 23 00-0100	SF	3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps		43.03	10.95
05 12 23 00-0101	SF	1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps		57.38	14.60
05 12 23 00-0102	SF	5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps		71.72	18.24

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0103	SF		3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	86.07	21.79
05 12 23 00-0104	SF		7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	100.41	25.54
05 12 23 00-0105	SF		1" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	114.76	29.19
05 12 23 00-0106	SF		1-1/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	129.10	32.84
05 12 23 00-0107	SF		1-1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	143.45	36.49
05 12 23 00-0108	SF		1-3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	157.80	40.14
05 12 23 00-0109	SF		1-1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	172.15	43.79
05 12 23 00-0110	SF		1-5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	186.49	47.44
05 12 23 00-0111	SF		1-3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	200.85	51.08
05 12 23 00-0112	SF		1-7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	215.19	54.73
05 12 23 00-0113	SF		2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	229.54	58.38
05 12 23 00-0114			Accessories For Steel <small>(05 12 23)</small>		
05 12 23 00-0115			Field Painting For Touch-Up Of Shop Prime Coat <small>(05 12 23 00-0114)</small>		
05 12 23 00-0116	SF		Touch Up Paint - Type 1 Red Oxide Field Painting Prime Coat.....	1.19	
05 12 23 00-0117			Connection And Stiffener Plates <small>(05 12 23 00-0114)</small>		
			Note: For field fabrication of additional structural metal connections.		
05 12 23 00-0118	TON		1/8" Plate Weight 6.16 LB/SF Connection And Stiffener Plates.....	19,030.43	
			For >10 To 25 Tons, Deduct	-1,617.59	
			For >25 To 50 Tons, Deduct	-3,330.33	
			For >50 Tons, Deduct	-4,757.61	
05 12 23 00-0119	TON		3/16" Plate Weight 8.71 LB/SF Connection And Stiffener Plates.....	16,236.68	
			For >10 To 25 Tons, Deduct	-1,380.12	
			For >25 To 50 Tons, Deduct	-2,841.42	
			For >50 Tons, Deduct	-4,059.17	
05 12 23 00-0120	TON		1/4" Plate Weight 11.26 LB/SF Connection And Stiffener Plates.....	12,556.16	
			For >10 To 25 Tons, Deduct	-1,067.27	
			For >25 To 50 Tons, Deduct	-2,197.33	
			For >50 Tons, Deduct	-3,139.04	
05 12 23 00-0121	TON		5/16" Plate Weight 13.81 LB/SF Connection And Stiffener Plates.....	12,556.16	
			For >10 To 25 Tons, Deduct	-1,067.27	
			For >25 To 50 Tons, Deduct	-2,197.33	
			For >50 Tons, Deduct	-3,139.04	
05 12 23 00-0122	TON		3/8" Plate Weight 16.37 LB/SF Connection And Stiffener Plates.....	12,556.16	
			For >10 To 25 Tons, Deduct	-1,067.27	
			For >25 To 50 Tons, Deduct	-2,197.33	
			For >50 Tons, Deduct	-3,139.04	
05 12 23 00-0123	TON		1/2" Plate Weight 21.47 LB/SF Connection And Stiffener Plates.....	12,556.16	
			For >10 To 25 Tons, Deduct	-1,067.27	
			For >25 To 50 Tons, Deduct	-2,197.33	
			For >50 Tons, Deduct	-3,139.04	
05 12 23 00-0124	TON		9/16" Plate Weight 24.02 LB/SF Connection And Stiffener Plates.....	12,556.16	
			For >10 To 25 Tons, Deduct	-1,067.27	
			For >25 To 50 Tons, Deduct	-2,197.33	
			For >50 Tons, Deduct	-3,139.04	
05 12 23 00-0125	TON		5/8" Plate Weight 26.58 LB/SF Connection And Stiffener Plates.....	12,556.16	
			For >10 To 25 Tons, Deduct	-1,067.27	
			For >25 To 50 Tons, Deduct	-2,197.33	
			For >50 Tons, Deduct	-3,139.04	
05 12 23 00-0126	TON		3/4" Plate Weight 31.68 LB/SF Connection And Stiffener Plates.....	11,771.40	
			For >10 To 25 Tons, Deduct	-1,000.57	
			For >25 To 50 Tons, Deduct	-2,060.00	
			For >50 Tons, Deduct	-2,942.85	
05 12 23 00-0127	TON		7/8" Plate Weight 36.78 LB/SF Connection And Stiffener Plates.....	11,771.40	
			For >10 To 25 Tons, Deduct	-1,000.57	
			For >25 To 50 Tons, Deduct	-2,060.00	
			For >50 Tons, Deduct	-2,942.85	
05 12 23 00-0128	TON		1" Plate Weight 41.89 LB/SF Connection And Stiffener Plates.....	11,771.40	
			For >10 To 25 Tons, Deduct	-1,000.57	
			For >25 To 50 Tons, Deduct	-2,060.00	
			For >50 Tons, Deduct	-2,942.85	
05 12 23 00-0129			Field Applied Cold Galvanizing <small>(05 12 23 00-0114)</small>		
05 12 23 00-0130	SF		Brush Applied Cold Galvanizing.....	1.80	
05 12 23 00-0131			Metal Grinding <small>(05 12 23 00-0114)</small>		
			Note: For use to prepare existing metal for welding by removing of rust or scale and smoothing surface after torch cutting.		
05 12 23 00-0132	SI		Metal Grinding Up To 1/32" Thickness To Be Removed.....	1.02	
			Note: Includes rust or scale removal on metal and smoothing surface.		
05 12 23 00-0133			Structural Steel For Buildings And Structures <small>(05 12 23)</small>		
			Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock cross-sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding.		



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

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0134 First Tier A992/A36 Structural Steel Columns, W Shapes <small>(05 12 23 00-0133)</small>		
Note: With base plate. Includes material delivery and erection.		
05 12 23 00-0135 LF W14 x 730 A992/A36 Structural Column	1,634.33	70.50
For Hot Dip Galvanizing, Add	432.67	
For High Strength Low Alloy A572-50 Steel, Add	147.09	
For High Strength Low Alloy A588 Grade B Steel, Add	326.87	
05 12 23 00-0136 LF W14 x 665 A992/A36 Structural Column	1,490.40	65.71
For Hot Dip Galvanizing, Add	394.15	
For High Strength Low Alloy A572-50 Steel, Add	134.14	
For High Strength Low Alloy A588 Grade B Steel, Add	298.08	
05 12 23 00-0137 LF W14 x 605 A992/A36 Structural Column	1,357.42	61.16
For Hot Dip Galvanizing, Add	358.59	
For High Strength Low Alloy A572-50 Steel, Add	122.17	
For High Strength Low Alloy A588 Grade B Steel, Add	271.48	
05 12 23 00-0138 LF W14 x 550 A992/A36 Structural Column	1,235.39	56.90
For Hot Dip Galvanizing, Add	325.99	
For High Strength Low Alloy A572-50 Steel, Add	111.19	
For High Strength Low Alloy A588 Grade B Steel, Add	247.08	
05 12 23 00-0139 LF W14 x 500 A992/A36 Structural Column	1,134.38	62.27
For Hot Dip Galvanizing, Add	296.35	
For High Strength Low Alloy A572-50 Steel, Add	102.09	
For High Strength Low Alloy A588 Grade B Steel, Add	226.88	
05 12 23 00-0140 LF W14 x 426 A992/A36 Structural Column	967.82	54.37
For Hot Dip Galvanizing, Add	252.49	
For High Strength Low Alloy A572-50 Steel, Add	87.10	
For High Strength Low Alloy A588 Grade B Steel, Add	193.56	
05 12 23 00-0141 LF W14 x 342 A992/A36 Structural Column	782.42	47.07
For Hot Dip Galvanizing, Add	203.21	
For High Strength Low Alloy A572-50 Steel, Add	70.42	
For High Strength Low Alloy A588 Grade B Steel, Add	156.48	
05 12 23 00-0142 LF W14 x 311 A992/A36 Structural Column	704.61	43.95
For Hot Dip Galvanizing, Add	182.52	
For High Strength Low Alloy A572-50 Steel, Add	63.41	
For High Strength Low Alloy A588 Grade B Steel, Add	140.92	
05 12 23 00-0143 LF W14 x 283 A992/A36 Structural Column	639.48	41.44
For Hot Dip Galvanizing, Add	165.21	
For High Strength Low Alloy A572-50 Steel, Add	57.55	
For High Strength Low Alloy A588 Grade B Steel, Add	127.90	
05 12 23 00-0144 LF W14 x 257 A992/A36 Structural Column	561.92	39.28
For Hot Dip Galvanizing, Add	144.32	
For High Strength Low Alloy A572-50 Steel, Add	50.57	
For High Strength Low Alloy A588 Grade B Steel, Add	112.38	
05 12 23 00-0145 LF W14 x 233 A992/A36 Structural Column	517.10	36.52
For Hot Dip Galvanizing, Add	132.69	
For High Strength Low Alloy A572-50 Steel, Add	46.54	
For High Strength Low Alloy A588 Grade B Steel, Add	103.42	
05 12 23 00-0146 LF W14 x 211 A992/A36 Structural Column	459.86	34.01
For Hot Dip Galvanizing, Add	117.54	
For High Strength Low Alloy A572-50 Steel, Add	41.39	
For High Strength Low Alloy A588 Grade B Steel, Add	91.97	
05 12 23 00-0147 LF W14 x 193 A992/A36 Structural Column	415.84	32.34
For Hot Dip Galvanizing, Add	105.82	
For High Strength Low Alloy A572-50 Steel, Add	37.43	
For High Strength Low Alloy A588 Grade B Steel, Add	83.17	
05 12 23 00-0148 LF W14 x 176 A992/A36 Structural Column	374.69	30.90
For Hot Dip Galvanizing, Add	94.84	
For High Strength Low Alloy A572-50 Steel, Add	33.72	
For High Strength Low Alloy A588 Grade B Steel, Add	74.94	
05 12 23 00-0149 LF W14 x 159 A992/A36 Structural Column	338.69	29.82
For Hot Dip Galvanizing, Add	85.18	
For High Strength Low Alloy A572-50 Steel, Add	30.48	
For High Strength Low Alloy A588 Grade B Steel, Add	67.74	
05 12 23 00-0150 LF W14 x 145 A992/A36 Structural Column	327.29	28.86
For Hot Dip Galvanizing, Add	82.28	
For High Strength Low Alloy A572-50 Steel, Add	29.46	
For High Strength Low Alloy A588 Grade B Steel, Add	65.46	
05 12 23 00-0151 LF W14 x 132 A992/A36 Structural Column	279.74	27.54
For Hot Dip Galvanizing, Add	69.49	
For High Strength Low Alloy A572-50 Steel, Add	25.18	
For High Strength Low Alloy A588 Grade B Steel, Add	55.95	
05 12 23 00-0152 LF W14 x 120 A992/A36 Structural Column	262.23	26.82
For Hot Dip Galvanizing, Add	64.83	
For High Strength Low Alloy A572-50 Steel, Add	23.60	
For High Strength Low Alloy A588 Grade B Steel, Add	52.45	
05 12 23 00-0153 LF W14 x 109 A992/A36 Structural Column	234.70	25.74
For Hot Dip Galvanizing, Add	57.52	
For High Strength Low Alloy A572-50 Steel, Add	21.12	
For High Strength Low Alloy A588 Grade B Steel, Add	46.94	
05 12 23 00-0154 LF W14 x 99 A992/A36 Structural Column	214.08	25.02
For Hot Dip Galvanizing, Add	52.03	
For High Strength Low Alloy A572-50 Steel, Add	19.27	
For High Strength Low Alloy A588 Grade B Steel, Add	42.82	
05 12 23 00-0155 LF W14 x 90 A992/A36 Structural Column	198.81	24.43
For Hot Dip Galvanizing, Add	47.96	
For High Strength Low Alloy A572-50 Steel, Add	17.89	
For High Strength Low Alloy A588 Grade B Steel, Add	39.76	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0156	LF		W14 x 82 A992/A36 Structural Column	183.07	23.71
			For Hot Dip Galvanizing, Add	43.79	
			For High Strength Low Alloy A572-50 Steel, Add	16.48	
			For High Strength Low Alloy A588 Grade B Steel, Add	36.61	
05 12 23 00-0157	LF		W14 x 74 A992/A36 Structural Column	165.21	23.11
			For Hot Dip Galvanizing, Add	39.03	
			For High Strength Low Alloy A572-50 Steel, Add	14.87	
			For High Strength Low Alloy A588 Grade B Steel, Add	33.04	
05 12 23 00-0158	LF		W14 x 68 A992/A36 Structural Column	154.25	22.75
			For Hot Dip Galvanizing, Add	36.09	
			For High Strength Low Alloy A572-50 Steel, Add	13.88	
			For High Strength Low Alloy A588 Grade B Steel, Add	30.85	
05 12 23 00-0159	LF		W14 x 61 A992/A36 Structural Column	140.57	22.15
			For Hot Dip Galvanizing, Add	32.46	
			For High Strength Low Alloy A572-50 Steel, Add	12.65	
			For High Strength Low Alloy A588 Grade B Steel, Add	28.11	
05 12 23 00-0160	LF		W14 x 53 A992/A36 Structural Column	127.97	21.56
			For Hot Dip Galvanizing, Add	29.13	
			For High Strength Low Alloy A572-50 Steel, Add	11.52	
			For High Strength Low Alloy A588 Grade B Steel, Add	25.59	
05 12 23 00-0161	LF		W14 x 48 A992/A36 Structural Column	119.83	21.20
			For Hot Dip Galvanizing, Add	26.97	
			For High Strength Low Alloy A572-50 Steel, Add	10.78	
			For High Strength Low Alloy A588 Grade B Steel, Add	23.97	
05 12 23 00-0162	LF		W14 x 43 A992/A36 Structural Column	108.04	20.84
			For Hot Dip Galvanizing, Add	23.83	
			For High Strength Low Alloy A572-50 Steel, Add	9.72	
			For High Strength Low Alloy A588 Grade B Steel, Add	21.61	
05 12 23 00-0163	LF		W12 x 336 A992/A36 Structural Column	745.35	31.40
			For Hot Dip Galvanizing, Add	197.55	
			For High Strength Low Alloy A572-50 Steel, Add	67.08	
			For High Strength Low Alloy A588 Grade B Steel, Add	149.07	
05 12 23 00-0164	LF		W12 x 305 A992/A36 Structural Column	679.01	30.77
			For Hot Dip Galvanizing, Add	179.32	
			For High Strength Low Alloy A572-50 Steel, Add	61.11	
			For High Strength Low Alloy A588 Grade B Steel, Add	135.80	
05 12 23 00-0165	LF		W12 x 279 A992/A36 Structural Column	623.52	30.40
			For Hot Dip Galvanizing, Add	164.03	
			For High Strength Low Alloy A572-50 Steel, Add	56.12	
			For High Strength Low Alloy A588 Grade B Steel, Add	124.70	
05 12 23 00-0166	LF		W12 x 252 A992/A36 Structural Column	565.51	29.64
			For Hot Dip Galvanizing, Add	148.16	
			For High Strength Low Alloy A572-50 Steel, Add	50.90	
			For High Strength Low Alloy A588 Grade B Steel, Add	113.10	
05 12 23 00-0167	LF		W12 x 230 A992/A36 Structural Column	518.45	29.21
			For Hot Dip Galvanizing, Add	135.23	
			For High Strength Low Alloy A572-50 Steel, Add	46.66	
			For High Strength Low Alloy A588 Grade B Steel, Add	103.69	
05 12 23 00-0168	LF		W12 x 210 A992/A36 Structural Column	475.62	28.81
			For Hot Dip Galvanizing, Add	123.47	
			For High Strength Low Alloy A572-50 Steel, Add	42.81	
			For High Strength Low Alloy A588 Grade B Steel, Add	95.12	
05 12 23 00-0169	LF		W12 x 190 A992/A36 Structural Column	437.88	33.05
			For Hot Dip Galvanizing, Add	111.71	
			For High Strength Low Alloy A572-50 Steel, Add	39.41	
			For High Strength Low Alloy A588 Grade B Steel, Add	87.58	
05 12 23 00-0170	LF		W12 x 170 A992/A36 Structural Column	395.57	32.09
			For Hot Dip Galvanizing, Add	100.30	
			For High Strength Low Alloy A572-50 Steel, Add	35.60	
			For High Strength Low Alloy A588 Grade B Steel, Add	79.11	
05 12 23 00-0171	LF		W12 x 152 A992/A36 Structural Column	356.54	29.82
			For Hot Dip Galvanizing, Add	90.13	
			For High Strength Low Alloy A572-50 Steel, Add	32.09	
			For High Strength Low Alloy A588 Grade B Steel, Add	71.31	
05 12 23 00-0172	LF		W12 x 136 A992/A36 Structural Column	338.91	28.98
			For Hot Dip Galvanizing, Add	85.47	
			For High Strength Low Alloy A572-50 Steel, Add	30.50	
			For High Strength Low Alloy A588 Grade B Steel, Add	67.78	
05 12 23 00-0173	LF		W12 x 120 A992/A36 Structural Column	256.28	26.59
			For Hot Dip Galvanizing, Add	63.21	
			For High Strength Low Alloy A572-50 Steel, Add	23.07	
			For High Strength Low Alloy A588 Grade B Steel, Add	51.26	
05 12 23 00-0174	LF		W12 x 106 A992/A36 Structural Column	236.12	25.74
			For Hot Dip Galvanizing, Add	57.91	
			For High Strength Low Alloy A572-50 Steel, Add	21.25	
			For High Strength Low Alloy A588 Grade B Steel, Add	47.22	
05 12 23 00-0175	LF		W12 x 96 A992/A36 Structural Column	211.12	24.91
			For Hot Dip Galvanizing, Add	51.24	
			For High Strength Low Alloy A572-50 Steel, Add	19.00	
			For High Strength Low Alloy A588 Grade B Steel, Add	42.22	
05 12 23 00-0176	LF		W12 x 87 A992/A36 Structural Column	194.68	24.07
			For Hot Dip Galvanizing, Add	46.88	
			For High Strength Low Alloy A572-50 Steel, Add	17.52	
			For High Strength Low Alloy A588 Grade B Steel, Add	38.94	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0177	LF		W12 x 79 A992/A36 Structural Column	170.70	23.35
			For Hot Dip Galvanizing, Add	40.46	
			For High Strength Low Alloy A572-50 Steel, Add	15.36	
			For High Strength Low Alloy A588 Grade B Steel, Add	34.14	
05 12 23 00-0178	LF		W12 x 72 A992/A36 Structural Column	156.14	22.75
			For Hot Dip Galvanizing, Add	36.58	
			For High Strength Low Alloy A572-50 Steel, Add	14.05	
			For High Strength Low Alloy A588 Grade B Steel, Add	31.23	
05 12 23 00-0179	LF		W12 x 65 A992/A36 Structural Column	142.64	22.28
			For Hot Dip Galvanizing, Add	33.00	
			For High Strength Low Alloy A572-50 Steel, Add	12.84	
			For High Strength Low Alloy A588 Grade B Steel, Add	28.53	
05 12 23 00-0180	LF		W12 x 58 A992/A36 Structural Column	137.98	22.03
			For Hot Dip Galvanizing, Add	31.78	
			For High Strength Low Alloy A572-50 Steel, Add	12.42	
			For High Strength Low Alloy A588 Grade B Steel, Add	27.60	
05 12 23 00-0181	LF		W12 x 53 A992/A36 Structural Column	127.97	21.56
			For Hot Dip Galvanizing, Add	29.13	
			For High Strength Low Alloy A572-50 Steel, Add	11.52	
			For High Strength Low Alloy A588 Grade B Steel, Add	25.59	
05 12 23 00-0182	LF		W12 x 50 A992/A36 Structural Column	123.95	21.43
			For Hot Dip Galvanizing, Add	28.05	
			For High Strength Low Alloy A572-50 Steel, Add	11.16	
			For High Strength Low Alloy A588 Grade B Steel, Add	24.79	
05 12 23 00-0183	LF		W12 x 45 A992/A36 Structural Column	112.51	20.96
			For Hot Dip Galvanizing, Add	25.01	
			For High Strength Low Alloy A572-50 Steel, Add	10.13	
			For High Strength Low Alloy A588 Grade B Steel, Add	22.50	
05 12 23 00-0184	LF		W12 x 40 A992/A36 Structural Column	100.73	20.48
			For Hot Dip Galvanizing, Add	21.87	
			For High Strength Low Alloy A572-50 Steel, Add	9.07	
			For High Strength Low Alloy A588 Grade B Steel, Add	20.15	
05 12 23 00-0185	LF		W10 x 112 A992/A36 Structural Column	247.02	26.23
			For Hot Dip Galvanizing, Add	60.81	
			For High Strength Low Alloy A572-50 Steel, Add	22.23	
			For High Strength Low Alloy A588 Grade B Steel, Add	49.40	
05 12 23 00-0186	LF		W10 x 110 A992/A36 Structural Column	223.32	25.15
			For Hot Dip Galvanizing, Add	54.53	
			For High Strength Low Alloy A572-50 Steel, Add	20.10	
			For High Strength Low Alloy A588 Grade B Steel, Add	44.66	
05 12 23 00-0187	LF		W10 x 88 A992/A36 Structural Column	200.64	24.31
			For Hot Dip Galvanizing, Add	48.50	
			For High Strength Low Alloy A572-50 Steel, Add	18.06	
			For High Strength Low Alloy A588 Grade B Steel, Add	40.13	
05 12 23 00-0188	LF		W10 x 77 A992/A36 Structural Column	178.30	23.35
			For Hot Dip Galvanizing, Add	42.57	
			For High Strength Low Alloy A572-50 Steel, Add	16.05	
			For High Strength Low Alloy A588 Grade B Steel, Add	35.66	
05 12 23 00-0189	LF		W10 x 68 A992/A36 Structural Column	160.43	22.75
			For Hot Dip Galvanizing, Add	37.81	
			For High Strength Low Alloy A572-50 Steel, Add	14.44	
			For High Strength Low Alloy A588 Grade B Steel, Add	32.09	
05 12 23 00-0190	LF		W10 x 60 A992/A36 Structural Column	140.57	22.15
			For Hot Dip Galvanizing, Add	32.46	
			For High Strength Low Alloy A572-50 Steel, Add	12.65	
			For High Strength Low Alloy A588 Grade B Steel, Add	28.11	
05 12 23 00-0191	LF		W10 x 54 A992/A36 Structural Column	139.63	21.79
			For Hot Dip Galvanizing, Add	32.27	
			For High Strength Low Alloy A572-50 Steel, Add	12.57	
			For High Strength Low Alloy A588 Grade B Steel, Add	27.93	
05 12 23 00-0192	LF		W10 x 49 A992/A36 Structural Column	122.42	21.43
			For Hot Dip Galvanizing, Add	27.66	
			For High Strength Low Alloy A572-50 Steel, Add	11.02	
			For High Strength Low Alloy A588 Grade B Steel, Add	24.48	
05 12 23 00-0193	LF		W10 x 45 A992/A36 Structural Column	118.11	21.07
			For Hot Dip Galvanizing, Add	26.53	
			For High Strength Low Alloy A572-50 Steel, Add	10.63	
			For High Strength Low Alloy A588 Grade B Steel, Add	23.62	
05 12 23 00-0194	LF		W10 x 39 A992/A36 Structural Column	102.61	20.71
			For Hot Dip Galvanizing, Add	22.36	
			For High Strength Low Alloy A572-50 Steel, Add	9.23	
			For High Strength Low Alloy A588 Grade B Steel, Add	20.52	
05 12 23 00-0195	LF		W10 x 33 A992/A36 Structural Column	89.30	20.12
			For Hot Dip Galvanizing, Add	18.83	
			For High Strength Low Alloy A572-50 Steel, Add	8.04	
			For High Strength Low Alloy A588 Grade B Steel, Add	17.86	
05 12 23 00-0196	LF		W8 x 67 A992/A36 Structural Column	154.43	22.75
			For Hot Dip Galvanizing, Add	36.14	
			For High Strength Low Alloy A572-50 Steel, Add	13.90	
			For High Strength Low Alloy A588 Grade B Steel, Add	30.89	
05 12 23 00-0197	LF		W8 x 58 A992/A36 Structural Column	138.51	22.03
			For Hot Dip Galvanizing, Add	31.92	
			For High Strength Low Alloy A572-50 Steel, Add	12.47	
			For High Strength Low Alloy A588 Grade B Steel, Add	27.70	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0198	LF	W8 x 48 A992/A36 Structural Column	.....	123.83	21.43
		For Hot Dip Galvanizing, Add		28.05	
		For High Strength Low Alloy A572-50 Steel, Add		11.14	
		For High Strength Low Alloy A588 Grade B Steel, Add		24.77	
05 12 23 00-0199	LF	W8 x 40 A992/A36 Structural Column	.....	106.09	20.84
		For Hot Dip Galvanizing, Add		23.29	
		For High Strength Low Alloy A572-50 Steel, Add		9.55	
		For High Strength Low Alloy A588 Grade B Steel, Add		21.22	
05 12 23 00-0200	LF	W8 x 35 A992/A36 Structural Column	.....	95.71	20.35
		For Hot Dip Galvanizing, Add		20.55	
		For High Strength Low Alloy A572-50 Steel, Add		8.61	
		For High Strength Low Alloy A588 Grade B Steel, Add		19.14	
05 12 23 00-0201	LF	W8 x 31 A992/A36 Structural Column	.....	87.35	20.12
		For Hot Dip Galvanizing, Add		18.29	
		For High Strength Low Alloy A572-50 Steel, Add		7.86	
		For High Strength Low Alloy A588 Grade B Steel, Add		17.47	
05 12 23 00-0202	LF	W8 x 28 A992/A36 Structural Column	.....	82.17	19.88
		For Hot Dip Galvanizing, Add		16.92	
		For High Strength Low Alloy A572-50 Steel, Add		7.40	
		For High Strength Low Alloy A588 Grade B Steel, Add		16.43	
05 12 23 00-0203	LF	W8 x 24 A992/A36 Structural Column	.....	75.92	19.63
		For Hot Dip Galvanizing, Add		15.25	
		For High Strength Low Alloy A572-50 Steel, Add		6.83	
		For High Strength Low Alloy A588 Grade B Steel, Add		15.18	
05 12 23 00-0204	LF	W8 x 21 A992/A36 Structural Column	.....	71.79	19.52
		For Hot Dip Galvanizing, Add		14.17	
		For High Strength Low Alloy A572-50 Steel, Add		6.46	
		For High Strength Low Alloy A588 Grade B Steel, Add		14.36	
05 12 23 00-0205	LF	W8 x 18 A992/A36 Structural Column	.....	63.95	19.16
		For Hot Dip Galvanizing, Add		12.06	
		For High Strength Low Alloy A572-50 Steel, Add		5.76	
		For High Strength Low Alloy A588 Grade B Steel, Add		12.79	
05 12 23 00-0206	LF	W6 x 25 A992/A36 Structural Column	.....	79.80	19.63
		For Hot Dip Galvanizing, Add		16.33	
		For High Strength Low Alloy A572-50 Steel, Add		7.18	
		For High Strength Low Alloy A588 Grade B Steel, Add		15.96	
05 12 23 00-0207	LF	W6 x 20 A992/A36 Structural Column	.....	67.25	19.29
		For Hot Dip Galvanizing, Add		12.95	
		For High Strength Low Alloy A572-50 Steel, Add		6.05	
		For High Strength Low Alloy A588 Grade B Steel, Add		13.45	
05 12 23 00-0208	LF	W6 x 15 A992/A36 Structural Column	.....	57.46	18.68
		For Hot Dip Galvanizing, Add		10.40	
		For High Strength Low Alloy A572-50 Steel, Add		5.17	
		For High Strength Low Alloy A588 Grade B Steel, Add		11.49	
05 12 23 00-0209	LF	W6 x 12 A992/A36 Structural Column	.....	53.75	18.68
		For Hot Dip Galvanizing, Add		9.37	
		For High Strength Low Alloy A572-50 Steel, Add		4.84	
		For High Strength Low Alloy A588 Grade B Steel, Add		10.75	
05 12 23 00-0210	LF	W6 x 9 A992/A36 Structural Column	.....	49.04	18.57
		For Hot Dip Galvanizing, Add		8.09	
		For High Strength Low Alloy A572-50 Steel, Add		4.41	
		For High Strength Low Alloy A588 Grade B Steel, Add		9.81	
05 12 23 00-0211	LF	W5 x 19 A992/A36 Structural Column	.....	66.19	19.29
		For Hot Dip Galvanizing, Add		12.65	
		For High Strength Low Alloy A572-50 Steel, Add		5.96	
		For High Strength Low Alloy A588 Grade B Steel, Add		13.24	
05 12 23 00-0212	LF	W5 x 16 A992/A36 Structural Column	.....	60.83	19.16
		For Hot Dip Galvanizing, Add		11.23	
		For High Strength Low Alloy A572-50 Steel, Add		5.47	
		For High Strength Low Alloy A588 Grade B Steel, Add		12.17	
05 12 23 00-0213	LF	W4 x 13 A992/A36 Structural Column	.....	56.88	18.93
		For Hot Dip Galvanizing, Add		10.20	
		For High Strength Low Alloy A572-50 Steel, Add		5.12	
		For High Strength Low Alloy A588 Grade B Steel, Add		11.38	
05 12 23 00-0214		A992/A36 Structural Steel Beams And Girders, W Shapes	(05 12 23 00-0133)		
		Note: Includes material delivery and erection.			
05 12 23 00-0215	LF	W36 x 300 A992/A36 Structural Beam Or Girder	.....	584.09	77.21
		For Hot Dip Galvanizing, Add		139.23	
		For High Strength Low Alloy A572-50 Steel, Add		52.57	
		For High Strength Low Alloy A588 Steel, Add		116.82	
		For Each Additional Top Copes >2, Add		5.02	
		For Structural Tees, WT, MT Or ST, Deduct		-192.08	
		For Skewed Or Sloped Connections, Add		70.09	
05 12 23 00-0216	LF	W36 x 280 A992/A36 Structural Beam Or Girder	.....	564.09	89.81
		For Hot Dip Galvanizing, Add		129.95	
		For High Strength Low Alloy A572-50 Steel, Add		50.77	
		For High Strength Low Alloy A588 Steel, Add		112.82	
		For Each Additional Top Copes >2, Add		4.68	
		For Structural Tees, WT, MT Or ST, Deduct		-183.06	
		For Skewed Or Sloped Connections, Add		67.69	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0217 LF W36 x 260 A992/A36 Structural Beam Or Girder	533.78	88.74
For Hot Dip Galvanizing, Add	121.87	
For High Strength Low Alloy A572-50 Steel, Add	48.04	
For High Strength Low Alloy A588 Steel, Add	106.76	
For Each Additional Top Copes >2, Add	4.39	
For Structural Tees, WT, MT Or ST, Deduct	-172.63	
For Skewed Or Sloped Connections, Add	64.05	
05 12 23 00-0218 LF W36 x 240 A992/A36 Structural Beam Or Girder	496.45	74.42
For Hot Dip Galvanizing, Add	115.74	
For High Strength Low Alloy A572-50 Steel, Add	44.68	
For High Strength Low Alloy A588 Steel, Add	99.29	
For Each Additional Top Copes >2, Add	4.17	
For Structural Tees, WT, MT Or ST, Deduct	-161.85	
For Skewed Or Sloped Connections, Add	59.57	
05 12 23 00-0219 LF W36 x 230 A992/A36 Structural Beam Or Girder	480.20	75.48
For Hot Dip Galvanizing, Add	110.92	
For High Strength Low Alloy A572-50 Steel, Add	43.22	
For High Strength Low Alloy A588 Steel, Add	96.04	
For Each Additional Top Copes >2, Add	4.00	
For Structural Tees, WT, MT Or ST, Deduct	-156.00	
For Skewed Or Sloped Connections, Add	57.62	
05 12 23 00-0220 LF W36 x 210 A992/A36 Structural Beam Or Girder	456.55	85.86
For Hot Dip Galvanizing, Add	101.27	
For High Strength Low Alloy A572-50 Steel, Add	41.09	
For High Strength Low Alloy A588 Steel, Add	91.31	
For Each Additional Top Copes >2, Add	3.65	
For Structural Tees, WT, MT Or ST, Deduct	-146.05	
For Skewed Or Sloped Connections, Add	54.79	
05 12 23 00-0221 LF W36 x 194 A992/A36 Structural Beam Or Girder	429.46	72.18
For Hot Dip Galvanizing, Add	97.81	
For High Strength Low Alloy A572-50 Steel, Add	38.65	
For High Strength Low Alloy A588 Steel, Add	85.89	
For Each Additional Top Copes >2, Add	3.52	
For Structural Tees, WT, MT Or ST, Deduct	-138.76	
For Skewed Or Sloped Connections, Add	51.54	
05 12 23 00-0222 LF W36 x 182 A992/A36 Structural Beam Or Girder	407.09	71.65
For Hot Dip Galvanizing, Add	91.76	
For High Strength Low Alloy A572-50 Steel, Add	36.64	
For High Strength Low Alloy A588 Steel, Add	81.42	
For Each Additional Top Copes >2, Add	3.31	
For Structural Tees, WT, MT Or ST, Deduct	-131.02	
For Skewed Or Sloped Connections, Add	48.85	
05 12 23 00-0223 LF W36 x 170 A992/A36 Structural Beam Or Girder	384.42	70.83
For Hot Dip Galvanizing, Add	85.71	
For High Strength Low Alloy A572-50 Steel, Add	34.60	
For High Strength Low Alloy A588 Steel, Add	76.88	
For Each Additional Top Copes >2, Add	3.09	
For Structural Tees, WT, MT Or ST, Deduct	-123.21	
For Skewed Or Sloped Connections, Add	46.13	
05 12 23 00-0224 LF W36 x 160 A992/A36 Structural Beam Or Girder	379.32	83.11
For Hot Dip Galvanizing, Add	80.67	
For High Strength Low Alloy A572-50 Steel, Add	34.14	
For High Strength Low Alloy A588 Steel, Add	75.86	
For Each Additional Top Copes >2, Add	2.91	
For Structural Tees, WT, MT Or ST, Deduct	-119.47	
For Skewed Or Sloped Connections, Add	45.52	
05 12 23 00-0225 LF W36 x 150 A992/A36 Structural Beam Or Girder	363.48	82.51
For Hot Dip Galvanizing, Add	76.44	
For High Strength Low Alloy A572-50 Steel, Add	32.71	
For High Strength Low Alloy A588 Steel, Add	72.70	
For Each Additional Top Copes >2, Add	2.75	
For Structural Tees, WT, MT Or ST, Deduct	-114.02	
For Skewed Or Sloped Connections, Add	43.62	
05 12 23 00-0226 LF W36 x 135 A992/A36 Structural Beam Or Girder	341.35	81.79
For Hot Dip Galvanizing, Add	70.53	
For High Strength Low Alloy A572-50 Steel, Add	30.72	
For High Strength Low Alloy A588 Steel, Add	68.27	
For Each Additional Top Copes >2, Add	2.54	
For Structural Tees, WT, MT Or ST, Deduct	-106.40	
For Skewed Or Sloped Connections, Add	40.96	
05 12 23 00-0227 LF W33 x 241 A992/A36 Structural Beam Or Girder	502.57	76.76
For Hot Dip Galvanizing, Add	116.74	
For High Strength Low Alloy A572-50 Steel, Add	45.23	
For High Strength Low Alloy A588 Steel, Add	100.51	
For Each Additional Top Copes >2, Add	4.21	
For Structural Tees, WT, MT Or ST, Deduct	-163.62	
For Skewed Or Sloped Connections, Add	60.31	
05 12 23 00-0228 LF W36 x 221 A992/A36 Structural Beam Or Girder	465.65	74.87
For Hot Dip Galvanizing, Add	107.06	
For High Strength Low Alloy A572-50 Steel, Add	41.91	
For High Strength Low Alloy A588 Steel, Add	93.13	
For Each Additional Top Copes >2, Add	3.86	
For Structural Tees, WT, MT Or ST, Deduct	-151.00	
For Skewed Or Sloped Connections, Add	55.88	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0229	LF		W33 x 201 A992/A36 Structural Beam Or Girder.....	441.89	85.27
			For Hot Dip Galvanizing, Add	97.37	
			For High Strength Low Alloy A572-50 Steel, Add	39.77	
			For High Strength Low Alloy A588 Steel, Add	88.38	
			For Each Additional Top Copes >2, Add	3.51	
			For Structural Tees, WT, MT Or ST, Deduct	-141.01	
			For Skewed Or Sloped Connections, Add	53.03	
05 12 23 00-0230	LF		W33 x 170 A992/A36 Structural Beam Or Girder.....	396.33	83.71
			For Hot Dip Galvanizing, Add	85.22	
			For High Strength Low Alloy A572-50 Steel, Add	35.67	
			For High Strength Low Alloy A588 Steel, Add	79.27	
			For Each Additional Top Copes >2, Add	3.07	
			For Structural Tees, WT, MT Or ST, Deduct	-125.33	
			For Skewed Or Sloped Connections, Add	47.56	
05 12 23 00-0231	LF		W33 x 152 A992/A36 Structural Beam Or Girder.....	359.21	70.60
			For Hot Dip Galvanizing, Add	78.78	
			For High Strength Low Alloy A572-50 Steel, Add	32.33	
			For High Strength Low Alloy A588 Steel, Add	71.84	
			For Each Additional Top Copes >2, Add	2.84	
			For Structural Tees, WT, MT Or ST, Deduct	-114.43	
			For Skewed Or Sloped Connections, Add	43.11	
05 12 23 00-0232	LF		W33 x 141 A992/A36 Structural Beam Or Girder.....	350.89	82.04
			For Hot Dip Galvanizing, Add	73.08	
			For High Strength Low Alloy A572-50 Steel, Add	31.58	
			For High Strength Low Alloy A588 Steel, Add	70.18	
			For Each Additional Top Copes >2, Add	2.63	
			For Structural Tees, WT, MT Or ST, Deduct	-109.68	
			For Skewed Or Sloped Connections, Add	42.11	
05 12 23 00-0233	LF		W33 x 130 A992/A36 Structural Beam Or Girder.....	332.99	81.43
			For Hot Dip Galvanizing, Add	68.31	
			For High Strength Low Alloy A572-50 Steel, Add	29.97	
			For High Strength Low Alloy A588 Steel, Add	66.60	
			For Each Additional Top Copes >2, Add	2.46	
			For Structural Tees, WT, MT Or ST, Deduct	-103.52	
			For Skewed Or Sloped Connections, Add	39.96	
05 12 23 00-0234	LF		W33 x 118 A992/A36 Structural Beam Or Girder.....	312.14	80.71
			For Hot Dip Galvanizing, Add	62.73	
			For High Strength Low Alloy A572-50 Steel, Add	28.09	
			For High Strength Low Alloy A588 Steel, Add	62.43	
			For Each Additional Top Copes >2, Add	2.26	
			For Structural Tees, WT, MT Or ST, Deduct	-96.33	
			For Skewed Or Sloped Connections, Add	37.46	
05 12 23 00-0235	LF		W30 x 211 A992/A36 Structural Beam Or Girder.....	446.17	74.73
			For Hot Dip Galvanizing, Add	101.69	
			For High Strength Low Alloy A572-50 Steel, Add	40.16	
			For High Strength Low Alloy A588 Steel, Add	89.23	
			For Each Additional Top Copes >2, Add	3.66	
			For Structural Tees, WT, MT Or ST, Deduct	-144.20	
			For Skewed Or Sloped Connections, Add	53.54	
05 12 23 00-0236	LF		W30 x 191 A992/A36 Structural Beam Or Girder.....	422.15	84.67
			For Hot Dip Galvanizing, Add	92.06	
			For High Strength Low Alloy A572-50 Steel, Add	37.99	
			For High Strength Low Alloy A588 Steel, Add	84.43	
			For Each Additional Top Copes >2, Add	3.32	
			For Structural Tees, WT, MT Or ST, Deduct	-134.19	
			For Skewed Or Sloped Connections, Add	50.66	
05 12 23 00-0237	LF		W30 x 173 A992/A36 Structural Beam Or Girder.....	385.74	71.32
			For Hot Dip Galvanizing, Add	85.93	
			For High Strength Low Alloy A572-50 Steel, Add	34.72	
			For High Strength Low Alloy A588 Steel, Add	77.15	
			For Each Additional Top Copes >2, Add	3.10	
			For Structural Tees, WT, MT Or ST, Deduct	-123.60	
			For Skewed Or Sloped Connections, Add	46.29	
05 12 23 00-0238	LF		W30 x 154 A992/A36 Structural Beam Or Girder.....	363.80	82.63
			For Hot Dip Galvanizing, Add	76.50	
			For High Strength Low Alloy A572-50 Steel, Add	32.74	
			For High Strength Low Alloy A588 Steel, Add	72.76	
			For Each Additional Top Copes >2, Add	2.76	
			For Structural Tees, WT, MT Or ST, Deduct	-114.11	
			For Skewed Or Sloped Connections, Add	43.66	
05 12 23 00-0239	LF		W30 x 132 A992/A36 Structural Beam Or Girder.....	323.28	68.81
			For Hot Dip Galvanizing, Add	69.34	
			For High Strength Low Alloy A572-50 Steel, Add	29.10	
			For High Strength Low Alloy A588 Steel, Add	64.66	
			For Each Additional Top Copes >2, Add	2.50	
			For Structural Tees, WT, MT Or ST, Deduct	-102.14	
			For Skewed Or Sloped Connections, Add	38.79	
05 12 23 00-0240	LF		W30 x 124 A992/A36 Structural Beam Or Girder.....	308.09	68.77
			For Hot Dip Galvanizing, Add	65.14	
			For High Strength Low Alloy A572-50 Steel, Add	27.73	
			For High Strength Low Alloy A588 Steel, Add	61.62	
			For Each Additional Top Copes >2, Add	2.35	
			For Structural Tees, WT, MT Or ST, Deduct	-96.83	
			For Skewed Or Sloped Connections, Add	36.97	



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

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0241	LF		W30 x 116 A992/A36 Structural Beam Or Girder	305.58	80.60
			<i>For Hot Dip Galvanizing, Add</i>	60.94	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	27.50	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	61.12	
			<i>For Each Additional Top Copes >2, Add</i>	2.20	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-94.05	
			<i>For Skewed Or Sloped Connections, Add</i>	36.67	
05 12 23 00-0242	LF		W30 x 108 A992/A36 Structural Beam Or Girder	282.88	72.57
			<i>For Hot Dip Galvanizing, Add</i>	57.03	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	25.46	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	56.58	
			<i>For Each Additional Top Copes >2, Add</i>	2.06	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-87.40	
			<i>For Skewed Or Sloped Connections, Add</i>	33.95	
05 12 23 00-0243	LF		W30 x 99 A992/A36 Structural Beam Or Girder	270.09	72.21
			<i>For Hot Dip Galvanizing, Add</i>	53.62	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	24.31	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	54.02	
			<i>For Each Additional Top Copes >2, Add</i>	1.93	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-83.00	
			<i>For Skewed Or Sloped Connections, Add</i>	32.41	
05 12 23 00-0244	LF		W27 x 178 A992/A36 Structural Beam Or Girder	428.29	83.50
			<i>For Hot Dip Galvanizing, Add</i>	94.13	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	38.55	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	85.66	
			<i>For Each Additional Top Copes >2, Add</i>	3.39	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-136.54	
			<i>For Skewed Or Sloped Connections, Add</i>	51.39	
05 12 23 00-0245	LF		W27 x 161 A992/A36 Structural Beam Or Girder	392.54	80.36
			<i>For Hot Dip Galvanizing, Add</i>	85.15	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	35.33	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	78.51	
			<i>For Each Additional Top Copes >2, Add</i>	3.07	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-124.53	
			<i>For Skewed Or Sloped Connections, Add</i>	47.10	
05 12 23 00-0246	LF		W27 x 146 A992/A36 Structural Beam Or Girder	360.92	77.51
			<i>For Hot Dip Galvanizing, Add</i>	77.21	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	32.48	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	72.18	
			<i>For Each Additional Top Copes >2, Add</i>	2.78	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-113.92	
			<i>For Skewed Or Sloped Connections, Add</i>	43.31	
05 12 23 00-0247	LF		W27 x 114 A992/A36 Structural Beam Or Girder	285.94	64.39
			<i>For Hot Dip Galvanizing, Add</i>	60.29	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	25.73	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	57.19	
			<i>For Each Additional Top Copes >2, Add</i>	2.17	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-89.78	
			<i>For Skewed Or Sloped Connections, Add</i>	34.31	
05 12 23 00-0248	LF		W27 x 102 A992/A36 Structural Beam Or Girder	271.39	72.21
			<i>For Hot Dip Galvanizing, Add</i>	53.94	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	24.43	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	54.28	
			<i>For Each Additional Top Copes >2, Add</i>	1.94	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-83.44	
			<i>For Skewed Or Sloped Connections, Add</i>	32.57	
05 12 23 00-0249	LF		W27 x 94 A992/A36 Structural Beam Or Girder	259.38	71.73
			<i>For Hot Dip Galvanizing, Add</i>	50.74	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	23.34	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	51.88	
			<i>For Each Additional Top Copes >2, Add</i>	1.83	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-79.31	
			<i>For Skewed Or Sloped Connections, Add</i>	31.13	
05 12 23 00-0250	LF		W27 x 84 A992/A36 Structural Beam Or Girder	244.72	71.26
			<i>For Hot Dip Galvanizing, Add</i>	46.84	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	22.02	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	48.94	
			<i>For Each Additional Top Copes >2, Add</i>	1.69	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-74.26	
			<i>For Skewed Or Sloped Connections, Add</i>	29.37	
05 12 23 00-0251	LF		W24 x 162 A992/A36 Structural Beam Or Girder	378.12	77.04
			<i>For Hot Dip Galvanizing, Add</i>	82.13	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	34.03	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	75.62	
			<i>For Each Additional Top Copes >2, Add</i>	2.96	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-120.02	
			<i>For Skewed Or Sloped Connections, Add</i>	45.37	
05 12 23 00-0252	LF		W24 x 146 A992/A36 Structural Beam Or Girder	345.50	73.85
			<i>For Hot Dip Galvanizing, Add</i>	74.01	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	31.10	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	69.10	
			<i>For Each Additional Top Copes >2, Add</i>	2.67	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-109.11	
			<i>For Skewed Or Sloped Connections, Add</i>	41.46	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0253	LF		W24 x 131 A992/A36 Structural Beam Or Girder.....	314.51	70.50
			For Hot Dip Galvanizing, Add	66.41	
			For High Strength Low Alloy A572-50 Steel, Add	28.31	
			For High Strength Low Alloy A588 Steel, Add	62.90	
			For Each Additional Top Copes >2, Add	2.39	
			For Structural Tees, WT, MT Or ST, Deduct	-98.80	
			For Skewed Or Sloped Connections, Add	37.74	
05 12 23 00-0254	LF		W24 x 117 A992/A36 Structural Beam Or Girder.....	285.18	66.98
			For Hot Dip Galvanizing, Add	59.31	
			For High Strength Low Alloy A572-50 Steel, Add	25.67	
			For High Strength Low Alloy A588 Steel, Add	57.04	
			For Each Additional Top Copes >2, Add	2.14	
			For Structural Tees, WT, MT Or ST, Deduct	-89.10	
			For Skewed Or Sloped Connections, Add	34.22	
05 12 23 00-0255	LF		W24 x 104 A992/A36 Structural Beam Or Girder.....	257.55	63.34
			For Hot Dip Galvanizing, Add	52.72	
			For High Strength Low Alloy A572-50 Steel, Add	23.18	
			For High Strength Low Alloy A588 Steel, Add	51.51	
			For Each Additional Top Copes >2, Add	1.90	
			For Structural Tees, WT, MT Or ST, Deduct	-80.01	
			For Skewed Or Sloped Connections, Add	30.91	
05 12 23 00-0256	LF		W24 x 94 A992/A36 Structural Beam Or Girder	248.24	71.73
			For Hot Dip Galvanizing, Add	47.65	
			For High Strength Low Alloy A572-50 Steel, Add	22.34	
			For High Strength Low Alloy A588 Steel, Add	49.65	
			For Each Additional Top Copes >2, Add	1.72	
			For Structural Tees, WT, MT Or ST, Deduct	-75.41	
			For Skewed Or Sloped Connections, Add	29.79	
05 12 23 00-0257	LF		W24 x 84 A992/A36 Structural Beam Or Girder	226.54	63.58
			For Hot Dip Galvanizing, Add	44.02	
			For High Strength Low Alloy A572-50 Steel, Add	20.39	
			For High Strength Low Alloy A588 Steel, Add	45.31	
			For Each Additional Top Copes >2, Add	1.59	
			For Structural Tees, WT, MT Or ST, Deduct	-69.10	
			For Skewed Or Sloped Connections, Add	27.18	
05 12 23 00-0258	LF		W24 x 76 A992/A36 Structural Beam Or Girder	215.31	63.11
			For Hot Dip Galvanizing, Add	41.04	
			For High Strength Low Alloy A572-50 Steel, Add	19.38	
			For High Strength Low Alloy A588 Steel, Add	43.06	
			For Each Additional Top Copes >2, Add	1.48	
			For Structural Tees, WT, MT Or ST, Deduct	-65.25	
			For Skewed Or Sloped Connections, Add	25.84	
05 12 23 00-0259	LF		W24 x 68 A992/A36 Structural Beam Or Girder	201.16	62.75
			For Hot Dip Galvanizing, Add	37.24	
			For High Strength Low Alloy A572-50 Steel, Add	18.10	
			For High Strength Low Alloy A588 Steel, Add	40.23	
			For Each Additional Top Copes >2, Add	1.34	
			For Structural Tees, WT, MT Or ST, Deduct	-60.36	
			For Skewed Or Sloped Connections, Add	24.14	
05 12 23 00-0260	LF		W24 x 62 A992/A36 Structural Beam Or Girder	193.77	62.39
			For Hot Dip Galvanizing, Add	35.29	
			For High Strength Low Alloy A572-50 Steel, Add	17.44	
			For High Strength Low Alloy A588 Steel, Add	38.75	
			For Each Additional Top Copes >2, Add	1.27	
			For Structural Tees, WT, MT Or ST, Deduct	-57.83	
			For Skewed Or Sloped Connections, Add	23.25	
05 12 23 00-0261	LF		W24 x 55 A992/A36 Structural Beam Or Girder	183.63	62.15
			For Hot Dip Galvanizing, Add	32.58	
			For High Strength Low Alloy A572-50 Steel, Add	16.53	
			For High Strength Low Alloy A588 Steel, Add	36.73	
			For Each Additional Top Copes >2, Add	1.17	
			For Structural Tees, WT, MT Or ST, Deduct	-54.34	
			For Skewed Or Sloped Connections, Add	22.04	
05 12 23 00-0262	LF		W21 x 147 A992/A36 Structural Beam Or Girder.....	331.30	63.35
			For Hot Dip Galvanizing, Add	73.18	
			For High Strength Low Alloy A572-50 Steel, Add	29.82	
			For High Strength Low Alloy A588 Steel, Add	66.26	
			For Each Additional Top Copes >2, Add	2.64	
			For Structural Tees, WT, MT Or ST, Deduct	-105.82	
			For Skewed Or Sloped Connections, Add	39.76	
05 12 23 00-0263	LF		W21 x 132 A992/A36 Structural Beam Or Girder.....	301.37	60.53
			For Hot Dip Galvanizing, Add	65.71	
			For High Strength Low Alloy A572-50 Steel, Add	27.12	
			For High Strength Low Alloy A588 Steel, Add	60.27	
			For Each Additional Top Copes >2, Add	2.37	
			For Structural Tees, WT, MT Or ST, Deduct	-95.80	
			For Skewed Or Sloped Connections, Add	36.16	
05 12 23 00-0264	LF		W21 x 122 A992/A36 Structural Beam Or Girder.....	282.34	59.51
			For Hot Dip Galvanizing, Add	60.74	
			For High Strength Low Alloy A572-50 Steel, Add	25.41	
			For High Strength Low Alloy A588 Steel, Add	56.47	
			For Each Additional Top Copes >2, Add	2.19	
			For Structural Tees, WT, MT Or ST, Deduct	-89.30	
			For Skewed Or Sloped Connections, Add	33.88	



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

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0265	LF		W21 x 111 A992/A36 Structural Beam Or Girder	260.58	57.60
			<i>For Hot Dip Galvanizing, Add</i>	55.26	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	23.45	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	52.12	
			<i>For Each Additional Top Copes >2, Add</i>	1.99	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-81.99	
			<i>For Skewed Or Sloped Connections, Add</i>	31.27	
05 12 23 00-0266	LF		W21 x 101 A992/A36 Structural Beam Or Girder	240.66	55.76
			<i>For Hot Dip Galvanizing, Add</i>	50.28	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	21.66	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	48.13	
			<i>For Each Additional Top Copes >2, Add</i>	1.81	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-75.31	
			<i>For Skewed Or Sloped Connections, Add</i>	28.88	
05 12 23 00-0267	LF		W21 x 93 A992/A36 Structural Beam Or Girder	235.45	64.30
			<i>For Hot Dip Galvanizing, Add</i>	46.30	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	21.19	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	47.09	
			<i>For Each Additional Top Copes >2, Add</i>	1.67	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-72.12	
			<i>For Skewed Or Sloped Connections, Add</i>	28.25	
05 12 23 00-0268	LF		W21 x 83 A992/A36 Structural Beam Or Girder	222.24	63.58
			<i>For Hot Dip Galvanizing, Add</i>	42.83	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	20.00	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	44.45	
			<i>For Each Additional Top Copes >2, Add</i>	1.54	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-67.60	
			<i>For Skewed Or Sloped Connections, Add</i>	26.67	
05 12 23 00-0269	LF		W21 x 73 A992/A36 Structural Beam Or Girder	206.01	63.11
			<i>For Hot Dip Galvanizing, Add</i>	38.49	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	18.54	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	41.20	
			<i>For Each Additional Top Copes >2, Add</i>	1.39	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-62.01	
			<i>For Skewed Or Sloped Connections, Add</i>	24.72	
05 12 23 00-0270	LF		W21 x 68 A992/A36 Structural Beam Or Girder	197.84	62.75
			<i>For Hot Dip Galvanizing, Add</i>	36.32	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.81	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	39.57	
			<i>For Each Additional Top Copes >2, Add</i>	1.31	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-59.20	
			<i>For Skewed Or Sloped Connections, Add</i>	23.74	
05 12 23 00-0271	LF		W21 x 62 A992/A36 Structural Beam Or Girder	190.45	62.39
			<i>For Hot Dip Galvanizing, Add</i>	34.37	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.14	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	38.09	
			<i>For Each Additional Top Copes >2, Add</i>	1.24	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-56.67	
			<i>For Skewed Or Sloped Connections, Add</i>	22.85	
05 12 23 00-0272	LF		W21 x 57 A992/A36 Structural Beam Or Girder	183.75	62.27
			<i>For Hot Dip Galvanizing, Add</i>	32.58	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	16.54	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	36.75	
			<i>For Each Additional Top Copes >2, Add</i>	1.17	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-54.36	
			<i>For Skewed Or Sloped Connections, Add</i>	22.05	
05 12 23 00-0273	LF		W21 x 50 A992/A36 Structural Beam Or Girder	163.02	54.01
			<i>For Hot Dip Galvanizing, Add</i>	29.22	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.67	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	32.60	
			<i>For Each Additional Top Copes >2, Add</i>	1.05	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-48.40	
			<i>For Skewed Or Sloped Connections, Add</i>	19.56	
05 12 23 00-0274	LF		W21 x 44 A992/A36 Structural Beam Or Girder	155.24	53.77
			<i>For Hot Dip Galvanizing, Add</i>	27.16	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.97	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	31.05	
			<i>For Each Additional Top Copes >2, Add</i>	0.98	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-45.73	
			<i>For Skewed Or Sloped Connections, Add</i>	18.63	
05 12 23 00-0275	LF		W18 x 119 A992/A36 Structural Beam Or Girder	274.41	59.31
			<i>For Hot Dip Galvanizing, Add</i>	58.59	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	24.70	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	54.88	
			<i>For Each Additional Top Copes >2, Add</i>	2.11	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-86.55	
			<i>For Skewed Or Sloped Connections, Add</i>	32.93	
05 12 23 00-0276	LF		W18 x 106 A992/A36 Structural Beam Or Girder	248.02	56.20
			<i>For Hot Dip Galvanizing, Add</i>	52.19	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	22.32	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	49.60	
			<i>For Each Additional Top Copes >2, Add</i>	1.88	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-77.82	
			<i>For Skewed Or Sloped Connections, Add</i>	29.76	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0277	LF		W18 x 97 A992/A36 Structural Beam Or Girder	240.86	64.30
			For Hot Dip Galvanizing, Add	47.76	
			For High Strength Low Alloy A572-50 Steel, Add	21.68	
			For High Strength Low Alloy A588 Steel, Add	48.17	
			For Each Additional Top Copes >2, Add	1.72	
			For Structural Tees, WT, MT Or ST, Deduct	-73.99	
			For Skewed Or Sloped Connections, Add	28.90	
05 12 23 00-0278	LF		W18 x 86 A992/A36 Structural Beam Or Girder	225.68	63.71
			For Hot Dip Galvanizing, Add	43.75	
			For High Strength Low Alloy A572-50 Steel, Add	20.31	
			For High Strength Low Alloy A588 Steel, Add	45.14	
			For Each Additional Top Copes >2, Add	1.58	
			For Structural Tees, WT, MT Or ST, Deduct	-68.79	
			For Skewed Or Sloped Connections, Add	27.08	
05 12 23 00-0279	LF		W18 x 76 A992/A36 Structural Beam Or Girder	211.99	63.11
			For Hot Dip Galvanizing, Add	40.12	
			For High Strength Low Alloy A572-50 Steel, Add	19.08	
			For High Strength Low Alloy A588 Steel, Add	42.40	
			For Each Additional Top Copes >2, Add	1.45	
			For Structural Tees, WT, MT Or ST, Deduct	-64.08	
			For Skewed Or Sloped Connections, Add	25.44	
05 12 23 00-0280	LF		W18 x 71 A992/A36 Structural Beam Or Girder	201.98	62.99
			For Hot Dip Galvanizing, Add	37.41	
			For High Strength Low Alloy A572-50 Steel, Add	18.18	
			For High Strength Low Alloy A588 Steel, Add	40.40	
			For Each Additional Top Copes >2, Add	1.35	
			For Structural Tees, WT, MT Or ST, Deduct	-60.62	
			For Skewed Or Sloped Connections, Add	24.24	
05 12 23 00-0281	LF		W18 x 65 A992/A36 Structural Beam Or Girder	192.24	62.75
			For Hot Dip Galvanizing, Add	34.80	
			For High Strength Low Alloy A572-50 Steel, Add	17.30	
			For High Strength Low Alloy A588 Steel, Add	38.45	
			For Each Additional Top Copes >2, Add	1.25	
			For Structural Tees, WT, MT Or ST, Deduct	-57.26	
			For Skewed Or Sloped Connections, Add	23.07	
05 12 23 00-0282	LF		W18 x 60 A992/A36 Structural Beam Or Girder	183.48	62.27
			For Hot Dip Galvanizing, Add	32.47	
			For High Strength Low Alloy A572-50 Steel, Add	16.51	
			For High Strength Low Alloy A588 Steel, Add	36.70	
			For Each Additional Top Copes >2, Add	1.17	
			For Structural Tees, WT, MT Or ST, Deduct	-54.25	
			For Skewed Or Sloped Connections, Add	22.02	
05 12 23 00-0283	LF		W18 x 55 A992/A36 Structural Beam Or Girder	174.65	62.15
			For Hot Dip Galvanizing, Add	30.09	
			For High Strength Low Alloy A572-50 Steel, Add	15.72	
			For High Strength Low Alloy A588 Steel, Add	34.93	
			For Each Additional Top Copes >2, Add	1.08	
			For Structural Tees, WT, MT Or ST, Deduct	-51.19	
			For Skewed Or Sloped Connections, Add	20.96	
05 12 23 00-0284	LF		W18 x 50 A992/A36 Structural Beam Or Girder	157.55	54.01
			For Hot Dip Galvanizing, Add	27.70	
			For High Strength Low Alloy A572-50 Steel, Add	14.18	
			For High Strength Low Alloy A588 Steel, Add	31.51	
			For Each Additional Top Copes >2, Add	1.00	
			For Structural Tees, WT, MT Or ST, Deduct	-46.48	
			For Skewed Or Sloped Connections, Add	18.91	
05 12 23 00-0285	LF		W18 x 46 A992/A36 Structural Beam Or Girder	150.67	53.89
			For Hot Dip Galvanizing, Add	25.86	
			For High Strength Low Alloy A572-50 Steel, Add	13.56	
			For High Strength Low Alloy A588 Steel, Add	30.13	
			For Each Additional Top Copes >2, Add	0.93	
			For Structural Tees, WT, MT Or ST, Deduct	-44.11	
			For Skewed Or Sloped Connections, Add	18.08	
05 12 23 00-0286	LF		W18 x 40 A992/A36 Structural Beam Or Girder	131.93	45.99
			For Hot Dip Galvanizing, Add	22.99	
			For High Strength Low Alloy A572-50 Steel, Add	11.87	
			For High Strength Low Alloy A588 Steel, Add	26.39	
			For Each Additional Top Copes >2, Add	0.83	
			For Structural Tees, WT, MT Or ST, Deduct	-38.81	
			For Skewed Or Sloped Connections, Add	15.83	
05 12 23 00-0287	LF		W18 x 35 A992/A36 Structural Beam Or Girder	123.29	45.86
			For Hot Dip Galvanizing, Add	20.65	
			For High Strength Low Alloy A572-50 Steel, Add	11.10	
			For High Strength Low Alloy A588 Steel, Add	24.66	
			For Each Additional Top Copes >2, Add	0.74	
			For Structural Tees, WT, MT Or ST, Deduct	-35.82	
			For Skewed Or Sloped Connections, Add	14.79	
05 12 23 00-0288	LF		W16 x 100 A992/A36 Structural Beam Or Girder.....	229.56	41.79
			For Hot Dip Galvanizing, Add	51.34	
			For High Strength Low Alloy A572-50 Steel, Add	20.66	
			For High Strength Low Alloy A588 Steel, Add	45.91	
			For Each Additional Top Copes >2, Add	1.85	
			For Structural Tees, WT, MT Or ST, Deduct	-73.66	
			For Skewed Or Sloped Connections, Add	27.55	



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

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0289	LF		W16 x 89 A992/A36 Structural Beam Or Girder	210.08	41.08
			<i>For Hot Dip Galvanizing, Add</i>	46.13	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	18.91	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	42.02	
			<i>For Each Additional Top Copes >2, Add</i>	1.66	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-66.95	
			<i>For Skewed Or Sloped Connections, Add</i>	25.21	
05 12 23 00-0290	LF		W16 x 77 A992/A36 Structural Beam Or Girder	189.17	40.60
			<i>For Hot Dip Galvanizing, Add</i>	40.50	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.03	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	37.83	
			<i>For Each Additional Top Copes >2, Add</i>	1.46	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-59.73	
			<i>For Skewed Or Sloped Connections, Add</i>	22.70	
05 12 23 00-0291	LF		W16 x 67 A992/A36 Structural Beam Or Girder	171.37	40.00
			<i>For Hot Dip Galvanizing, Add</i>	35.73	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.42	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	34.27	
			<i>For Each Additional Top Copes >2, Add</i>	1.29	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-53.59	
			<i>For Skewed Or Sloped Connections, Add</i>	20.56	
05 12 23 00-0292	LF		W16 x 57 A992/A36 Structural Beam Or Girder	153.79	39.40
			<i>For Hot Dip Galvanizing, Add</i>	31.01	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.84	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	30.76	
			<i>For Each Additional Top Copes >2, Add</i>	1.12	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-47.52	
			<i>For Skewed Or Sloped Connections, Add</i>	18.45	
05 12 23 00-0293	LF		W16 x 50 A992/A36 Structural Beam Or Girder	141.51	39.04
			<i>For Hot Dip Galvanizing, Add</i>	27.70	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.74	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	28.30	
			<i>For Each Additional Top Copes >2, Add</i>	1.00	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-43.28	
			<i>For Skewed Or Sloped Connections, Add</i>	16.98	
05 12 23 00-0294	LF		W16 x 45 A992/A36 Structural Beam Or Girder	132.86	38.80
			<i>For Hot Dip Galvanizing, Add</i>	25.37	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.96	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	26.57	
			<i>For Each Additional Top Copes >2, Add</i>	0.91	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-40.29	
			<i>For Skewed Or Sloped Connections, Add</i>	15.94	
05 12 23 00-0295	LF		W16 x 40 A992/A36 Structural Beam Or Girder	123.91	38.44
			<i>For Hot Dip Galvanizing, Add</i>	22.99	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.15	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	24.78	
			<i>For Each Additional Top Copes >2, Add</i>	0.83	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-37.21	
			<i>For Skewed Or Sloped Connections, Add</i>	14.87	
05 12 23 00-0296	LF		W16 x 36 A992/A36 Structural Beam Or Girder	116.91	38.20
			<i>For Hot Dip Galvanizing, Add</i>	21.14	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.52	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	23.38	
			<i>For Each Additional Top Copes >2, Add</i>	0.76	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-34.81	
			<i>For Skewed Or Sloped Connections, Add</i>	14.03	
05 12 23 00-0297	LF		W16 x 31 A992/A36 Structural Beam Or Girder	100.05	30.41
			<i>For Hot Dip Galvanizing, Add</i>	18.76	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.00	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	20.01	
			<i>For Each Additional Top Copes >2, Add</i>	0.68	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-30.15	
			<i>For Skewed Or Sloped Connections, Add</i>	12.01	
05 12 23 00-0298	LF		W16 x 26 A992/A36 Structural Beam Or Girder	88.77	30.05
			<i>For Hot Dip Galvanizing, Add</i>	15.73	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.99	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	17.75	
			<i>For Each Additional Top Copes >2, Add</i>	0.57	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-26.26	
			<i>For Skewed Or Sloped Connections, Add</i>	10.65	
05 12 23 00-0299	LF		W14 x 99 A992/A36 Structural Beam Or Girder	219.77	34.25
			<i>For Hot Dip Galvanizing, Add</i>	50.85	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	19.78	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	43.95	
			<i>For Each Additional Top Copes >2, Add</i>	1.83	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-71.44	
			<i>For Skewed Or Sloped Connections, Add</i>	26.37	
05 12 23 00-0300	LF		W14 x 90 A992/A36 Structural Beam Or Girder	203.94	33.65
			<i>For Hot Dip Galvanizing, Add</i>	46.62	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	18.35	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	40.79	
			<i>For Each Additional Top Copes >2, Add</i>	1.68	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-65.99	
			<i>For Skewed Or Sloped Connections, Add</i>	24.47	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0301	LF		W14 x 82 A992/A36 Structural Beam Or Girder	189.78	33.29
			For Hot Dip Galvanizing, Add	42.83	
			For High Strength Low Alloy A572-50 Steel, Add	17.08	
			For High Strength Low Alloy A588 Steel, Add	37.96	
			For Each Additional Top Copes >2, Add	1.54	
			For Structural Tees, WT, MT Or ST, Deduct	-61.11	
			For Skewed Or Sloped Connections, Add	22.77	
05 12 23 00-0302	LF		W14 x 74 A992/A36 Structural Beam Or Girder	175.64	32.81
			For Hot Dip Galvanizing, Add	39.03	
			For High Strength Low Alloy A572-50 Steel, Add	15.81	
			For High Strength Low Alloy A588 Steel, Add	35.13	
			For Each Additional Top Copes >2, Add	1.41	
			For Structural Tees, WT, MT Or ST, Deduct	-56.23	
			For Skewed Or Sloped Connections, Add	21.08	
05 12 23 00-0303	LF		W14 x 68 A992/A36 Structural Beam Or Girder	165.11	32.45
			For Hot Dip Galvanizing, Add	36.21	
			For High Strength Low Alloy A572-50 Steel, Add	14.86	
			For High Strength Low Alloy A588 Steel, Add	33.02	
			For Each Additional Top Copes >2, Add	1.31	
			For Structural Tees, WT, MT Or ST, Deduct	-52.60	
			For Skewed Or Sloped Connections, Add	19.81	
05 12 23 00-0304	LF		W14 x 61 A992/A36 Structural Beam Or Girder	152.84	32.09
			For Hot Dip Galvanizing, Add	32.91	
			For High Strength Low Alloy A572-50 Steel, Add	13.76	
			For High Strength Low Alloy A588 Steel, Add	30.57	
			For Each Additional Top Copes >2, Add	1.19	
			For Structural Tees, WT, MT Or ST, Deduct	-48.36	
			For Skewed Or Sloped Connections, Add	18.34	
05 12 23 00-0305	LF		W14 x 53 A992/A36 Structural Beam Or Girder	138.88	31.62
			For Hot Dip Galvanizing, Add	29.17	
			For High Strength Low Alloy A572-50 Steel, Add	12.50	
			For High Strength Low Alloy A588 Steel, Add	27.78	
			For Each Additional Top Copes >2, Add	1.05	
			For Structural Tees, WT, MT Or ST, Deduct	-43.54	
			For Skewed Or Sloped Connections, Add	16.67	
05 12 23 00-0306	LF		W14 x 48 A992/A36 Structural Beam Or Girder	129.92	31.26
			For Hot Dip Galvanizing, Add	26.78	
			For High Strength Low Alloy A572-50 Steel, Add	11.69	
			For High Strength Low Alloy A588 Steel, Add	25.98	
			For Each Additional Top Copes >2, Add	0.97	
			For Structural Tees, WT, MT Or ST, Deduct	-40.46	
			For Skewed Or Sloped Connections, Add	15.59	
05 12 23 00-0307	LF		W14 x 43 A992/A36 Structural Beam Or Girder	121.08	31.13
			For Hot Dip Galvanizing, Add	24.40	
			For High Strength Low Alloy A572-50 Steel, Add	10.90	
			For High Strength Low Alloy A588 Steel, Add	24.22	
			For Each Additional Top Copes >2, Add	0.88	
			For Structural Tees, WT, MT Or ST, Deduct	-37.40	
			For Skewed Or Sloped Connections, Add	14.53	
05 12 23 00-0308	LF		W14 x 38 A992/A36 Structural Beam Or Girder	112.32	30.90
			For Hot Dip Galvanizing, Add	22.06	
			For High Strength Low Alloy A572-50 Steel, Add	10.11	
			For High Strength Low Alloy A588 Steel, Add	22.46	
			For Each Additional Top Copes >2, Add	0.80	
			For Structural Tees, WT, MT Or ST, Deduct	-34.39	
			For Skewed Or Sloped Connections, Add	13.48	
05 12 23 00-0309	LF		W14 x 34 A992/A36 Structural Beam Or Girder	105.25	30.54
			For Hot Dip Galvanizing, Add	20.17	
			For High Strength Low Alloy A572-50 Steel, Add	9.47	
			For High Strength Low Alloy A588 Steel, Add	21.05	
			For Each Additional Top Copes >2, Add	0.73	
			For Structural Tees, WT, MT Or ST, Deduct	-31.95	
			For Skewed Or Sloped Connections, Add	12.63	
05 12 23 00-0310	LF		W14 x 30 A992/A36 Structural Beam Or Girder	98.18	30.41
			For Hot Dip Galvanizing, Add	18.27	
			For High Strength Low Alloy A572-50 Steel, Add	8.84	
			For High Strength Low Alloy A588 Steel, Add	19.64	
			For Each Additional Top Copes >2, Add	0.66	
			For Structural Tees, WT, MT Or ST, Deduct	-29.51	
			For Skewed Or Sloped Connections, Add	11.78	
05 12 23 00-0311	LF		W14 x 26 A992/A36 Structural Beam Or Girder	91.09	30.05
			For Hot Dip Galvanizing, Add	16.37	
			For High Strength Low Alloy A572-50 Steel, Add	8.20	
			For High Strength Low Alloy A588 Steel, Add	18.22	
			For Each Additional Top Copes >2, Add	0.59	
			For Structural Tees, WT, MT Or ST, Deduct	-27.07	
			For Skewed Or Sloped Connections, Add	10.93	
05 12 23 00-0312	LF		W14 x 22 A992/A36 Structural Beam Or Girder	84.21	29.94
			For Hot Dip Galvanizing, Add	14.53	
			For High Strength Low Alloy A572-50 Steel, Add	7.58	
			For High Strength Low Alloy A588 Steel, Add	16.84	
			For Each Additional Top Copes >2, Add	0.52	
			For Structural Tees, WT, MT Or ST, Deduct	-24.70	
			For Skewed Or Sloped Connections, Add	10.11	



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

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0313	LF		W12 x 87 A992/A36 Structural Beam Or Girder	198.73	33.53
			<i>For Hot Dip Galvanizing, Add</i>	45.21	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.89	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	39.75	
			<i>For Each Additional Top Copes >2, Add</i>	1.63	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-64.19	
			<i>For Skewed Or Sloped Connections, Add</i>	23.85	
05 12 23 00-0314	LF		W12 x 79 A992/A36 Structural Beam Or Girder	184.59	33.05
			<i>For Hot Dip Galvanizing, Add</i>	41.42	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	16.61	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	36.92	
			<i>For Each Additional Top Copes >2, Add</i>	1.49	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-59.31	
			<i>For Skewed Or Sloped Connections, Add</i>	22.15	
05 12 23 00-0315	LF		W12 x 72 A992/A36 Structural Beam Or Girder	172.19	32.70
			<i>For Hot Dip Galvanizing, Add</i>	38.11	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.50	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	34.44	
			<i>For Each Additional Top Copes >2, Add</i>	1.37	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-55.04	
			<i>For Skewed Or Sloped Connections, Add</i>	20.66	
05 12 23 00-0316	LF		W12 x 65 A992/A36 Structural Beam Or Girder	159.91	32.34
			<i>For Hot Dip Galvanizing, Add</i>	34.80	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.39	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	31.98	
			<i>For Each Additional Top Copes >2, Add</i>	1.25	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-50.80	
			<i>For Skewed Or Sloped Connections, Add</i>	19.19	
05 12 23 00-0317	LF		W12 x 58 A992/A36 Structural Beam Or Girder	147.52	31.85
			<i>For Hot Dip Galvanizing, Add</i>	31.50	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.28	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	29.50	
			<i>For Each Additional Top Copes >2, Add</i>	1.14	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-46.53	
			<i>For Skewed Or Sloped Connections, Add</i>	17.70	
05 12 23 00-0318	LF		W12 x 53 A992/A36 Structural Beam Or Girder	138.88	31.62
			<i>For Hot Dip Galvanizing, Add</i>	29.17	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.50	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	27.78	
			<i>For Each Additional Top Copes >2, Add</i>	1.05	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-43.54	
			<i>For Skewed Or Sloped Connections, Add</i>	16.67	
05 12 23 00-0319	LF		W12 x 50 A992/A36 Structural Beam Or Girder	133.36	31.49
			<i>For Hot Dip Galvanizing, Add</i>	27.70	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.00	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	26.67	
			<i>For Each Additional Top Copes >2, Add</i>	1.00	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-41.65	
			<i>For Skewed Or Sloped Connections, Add</i>	16.00	
05 12 23 00-0320	LF		W12 x 45 A992/A36 Structural Beam Or Girder	124.72	31.26
			<i>For Hot Dip Galvanizing, Add</i>	25.37	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.22	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	24.94	
			<i>For Each Additional Top Copes >2, Add</i>	0.91	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-38.66	
			<i>For Skewed Or Sloped Connections, Add</i>	14.97	
05 12 23 00-0321	LF		W12 x 40 A992/A36 Structural Beam Or Girder	107.62	23.23
			<i>For Hot Dip Galvanizing, Add</i>	22.99	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.69	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	21.52	
			<i>For Each Additional Top Copes >2, Add</i>	0.83	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-33.95	
			<i>For Skewed Or Sloped Connections, Add</i>	12.91	
05 12 23 00-0322	LF		W12 x 35 A992/A36 Structural Beam Or Girder	98.98	23.11
			<i>For Hot Dip Galvanizing, Add</i>	20.65	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.91	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	19.80	
			<i>For Each Additional Top Copes >2, Add</i>	0.74	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-30.96	
			<i>For Skewed Or Sloped Connections, Add</i>	11.88	
05 12 23 00-0323	LF		W12 x 30 A992/A36 Structural Beam Or Girder	90.03	22.75
			<i>For Hot Dip Galvanizing, Add</i>	18.27	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.10	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	18.01	
			<i>For Each Additional Top Copes >2, Add</i>	0.66	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-27.88	
			<i>For Skewed Or Sloped Connections, Add</i>	10.80	
05 12 23 00-0324	LF		W12 x 26 A992/A36 Structural Beam Or Girder	82.95	22.51
			<i>For Hot Dip Galvanizing, Add</i>	16.37	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.47	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	16.59	
			<i>For Each Additional Top Copes >2, Add</i>	0.59	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-25.44	
			<i>For Skewed Or Sloped Connections, Add</i>	9.95	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0325	LF		W12 x 22 A992/A36 Structural Beam Or Girder	76.07	22.28
			For Hot Dip Galvanizing, Add	14.53	
			For High Strength Low Alloy A572-50 Steel, Add	6.85	
			For High Strength Low Alloy A588 Steel, Add	15.21	
			For Each Additional Top Copes >2, Add	0.52	
			For Structural Tees, WT, MT Or ST, Deduct	-23.07	
			For Skewed Or Sloped Connections, Add	9.13	
05 12 23 00-0326	LF		W12 x 19 A992/A36 Structural Beam Or Girder	70.67	22.15
			For Hot Dip Galvanizing, Add	13.06	
			For High Strength Low Alloy A572-50 Steel, Add	6.36	
			For High Strength Low Alloy A588 Steel, Add	14.13	
			For Each Additional Top Copes >2, Add	0.47	
			For Structural Tees, WT, MT Or ST, Deduct	-21.20	
			For Skewed Or Sloped Connections, Add	8.48	
05 12 23 00-0327	LF		W12 x 16 A992/A36 Structural Beam Or Girder	65.35	21.79
			For Hot Dip Galvanizing, Add	11.66	
			For High Strength Low Alloy A572-50 Steel, Add	5.88	
			For High Strength Low Alloy A588 Steel, Add	13.07	
			For Each Additional Top Copes >2, Add	0.42	
			For Structural Tees, WT, MT Or ST, Deduct	-19.37	
			For Skewed Or Sloped Connections, Add	7.84	
05 12 23 00-0328	LF		W12 x 14 A992/A36 Structural Beam Or Girder	61.91	21.79
			For Hot Dip Galvanizing, Add	10.73	
			For High Strength Low Alloy A572-50 Steel, Add	5.57	
			For High Strength Low Alloy A588 Steel, Add	12.38	
			For Each Additional Top Copes >2, Add	0.39	
			For Structural Tees, WT, MT Or ST, Deduct	-18.18	
			For Skewed Or Sloped Connections, Add	7.43	
05 12 23 00-0329	LF		W10 x 68 A992/A36 Structural Beam Or Girder	157.48	25.02
			For Hot Dip Galvanizing, Add	36.32	
			For High Strength Low Alloy A572-50 Steel, Add	14.17	
			For High Strength Low Alloy A588 Steel, Add	31.50	
			For Each Additional Top Copes >2, Add	1.31	
			For Structural Tees, WT, MT Or ST, Deduct	-51.13	
			For Skewed Or Sloped Connections, Add	18.90	
05 12 23 00-0330	LF		W10 x 60 A992/A36 Structural Beam Or Girder	143.51	24.55
			For Hot Dip Galvanizing, Add	32.58	
			For High Strength Low Alloy A572-50 Steel, Add	12.92	
			For High Strength Low Alloy A588 Steel, Add	28.70	
			For Each Additional Top Copes >2, Add	1.17	
			For Structural Tees, WT, MT Or ST, Deduct	-46.31	
			For Skewed Or Sloped Connections, Add	17.22	
05 12 23 00-0331	LF		W10 x 54 A992/A36 Structural Beam Or Girder	132.80	24.07
			For Hot Dip Galvanizing, Add	29.71	
			For High Strength Low Alloy A572-50 Steel, Add	11.95	
			For High Strength Low Alloy A588 Steel, Add	26.56	
			For Each Additional Top Copes >2, Add	1.07	
			For Structural Tees, WT, MT Or ST, Deduct	-42.62	
			For Skewed Or Sloped Connections, Add	15.94	
05 12 23 00-0332	LF		W10 x 49 A992/A36 Structural Beam Or Girder	124.04	23.83
			For Hot Dip Galvanizing, Add	27.38	
			For High Strength Low Alloy A572-50 Steel, Add	11.16	
			For High Strength Low Alloy A588 Steel, Add	24.81	
			For Each Additional Top Copes >2, Add	0.99	
			For Structural Tees, WT, MT Or ST, Deduct	-39.61	
			For Skewed Or Sloped Connections, Add	14.88	
05 12 23 00-0333	LF		W10 x 45 A992/A36 Structural Beam Or Girder	116.97	23.71
			For Hot Dip Galvanizing, Add	25.48	
			For High Strength Low Alloy A572-50 Steel, Add	10.53	
			For High Strength Low Alloy A588 Steel, Add	23.39	
			For Each Additional Top Copes >2, Add	0.92	
			For Structural Tees, WT, MT Or ST, Deduct	-37.17	
			For Skewed Or Sloped Connections, Add	14.04	
05 12 23 00-0334	LF		W10 x 39 A992/A36 Structural Beam Or Girder	106.45	23.23
			For Hot Dip Galvanizing, Add	22.66	
			For High Strength Low Alloy A572-50 Steel, Add	9.58	
			For High Strength Low Alloy A588 Steel, Add	21.29	
			For Each Additional Top Copes >2, Add	0.82	
			For Structural Tees, WT, MT Or ST, Deduct	-33.54	
			For Skewed Or Sloped Connections, Add	12.77	
05 12 23 00-0335	LF		W10 x 33 A992/A36 Structural Beam Or Girder	95.93	22.87
			For Hot Dip Galvanizing, Add	19.84	
			For High Strength Low Alloy A572-50 Steel, Add	8.63	
			For High Strength Low Alloy A588 Steel, Add	19.19	
			For Each Additional Top Copes >2, Add	0.72	
			For Structural Tees, WT, MT Or ST, Deduct	-29.91	
			For Skewed Or Sloped Connections, Add	11.51	
05 12 23 00-0336	LF		W10 x 30 A992/A36 Structural Beam Or Girder	90.54	22.75
			For Hot Dip Galvanizing, Add	18.38	
			For High Strength Low Alloy A572-50 Steel, Add	8.15	
			For High Strength Low Alloy A588 Steel, Add	18.11	
			For Each Additional Top Copes >2, Add	0.66	
			For Structural Tees, WT, MT Or ST, Deduct	-28.04	
			For Skewed Or Sloped Connections, Add	10.86	



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

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0337 LF W10 x 26 A992/A36 Structural Beam Or Girder	83.66	22.64
For Hot Dip Galvanizing, Add	16.54	
For High Strength Low Alloy A572-50 Steel, Add	7.53	
For High Strength Low Alloy A588 Steel, Add	16.73	
For Each Additional Top Copes >2, Add	0.60	
For Structural Tees, WT, MT Or ST, Deduct	-25.67	
For Skewed Or Sloped Connections, Add	10.04	
05 12 23 00-0338 LF W10 x 22 A992/A36 Structural Beam Or Girder	76.46	22.28
For Hot Dip Galvanizing, Add	14.64	
For High Strength Low Alloy A572-50 Steel, Add	6.88	
For High Strength Low Alloy A588 Steel, Add	15.29	
For Each Additional Top Copes >2, Add	0.53	
For Structural Tees, WT, MT Or ST, Deduct	-23.20	
For Skewed Or Sloped Connections, Add	9.18	
05 12 23 00-0339 LF W10 x 19 A992/A36 Structural Beam Or Girder	71.26	22.15
For Hot Dip Galvanizing, Add	13.23	
For High Strength Low Alloy A572-50 Steel, Add	6.41	
For High Strength Low Alloy A588 Steel, Add	14.25	
For Each Additional Top Copes >2, Add	0.48	
For Structural Tees, WT, MT Or ST, Deduct	-21.40	
For Skewed Or Sloped Connections, Add	8.55	
05 12 23 00-0340 LF W10 x 17 A992/A36 Structural Beam Or Girder	67.62	22.03
For Hot Dip Galvanizing, Add	12.25	
For High Strength Low Alloy A572-50 Steel, Add	6.09	
For High Strength Low Alloy A588 Steel, Add	13.52	
For Each Additional Top Copes >2, Add	0.44	
For Structural Tees, WT, MT Or ST, Deduct	-20.15	
For Skewed Or Sloped Connections, Add	8.11	
05 12 23 00-0341 LF W10 x 15 A992/A36 Structural Beam Or Girder	64.18	21.79
For Hot Dip Galvanizing, Add	11.33	
For High Strength Low Alloy A572-50 Steel, Add	5.78	
For High Strength Low Alloy A588 Steel, Add	12.84	
For Each Additional Top Copes >2, Add	0.41	
For Structural Tees, WT, MT Or ST, Deduct	-18.96	
For Skewed Or Sloped Connections, Add	7.70	
05 12 23 00-0342 LF W10 x 12 A992/A36 Structural Beam Or Girder	58.98	21.79
For Hot Dip Galvanizing, Add	9.92	
For High Strength Low Alloy A572-50 Steel, Add	5.31	
For High Strength Low Alloy A588 Steel, Add	11.80	
For Each Additional Top Copes >2, Add	0.36	
For Structural Tees, WT, MT Or ST, Deduct	-17.16	
For Skewed Or Sloped Connections, Add	7.08	
05 12 23 00-0343 LF W8 x 35 A992/A36 Structural Beam Or Girder	99.37	23.11
For Hot Dip Galvanizing, Add	20.76	
For High Strength Low Alloy A572-50 Steel, Add	8.94	
For High Strength Low Alloy A588 Steel, Add	19.87	
For Each Additional Top Copes >2, Add	0.75	
For Structural Tees, WT, MT Or ST, Deduct	-31.10	
For Skewed Or Sloped Connections, Add	11.92	
05 12 23 00-0344 LF W8 x 31 A992/A36 Structural Beam Or Girder	92.30	22.75
For Hot Dip Galvanizing, Add	18.87	
For High Strength Low Alloy A572-50 Steel, Add	8.31	
For High Strength Low Alloy A588 Steel, Add	18.46	
For Each Additional Top Copes >2, Add	0.68	
For Structural Tees, WT, MT Or ST, Deduct	-28.66	
For Skewed Or Sloped Connections, Add	11.08	
05 12 23 00-0345 LF W8 x 28 A992/A36 Structural Beam Or Girder	84.89	21.43
For Hot Dip Galvanizing, Add	17.21	
For High Strength Low Alloy A572-50 Steel, Add	7.64	
For High Strength Low Alloy A588 Steel, Add	16.98	
For Each Additional Top Copes >2, Add	0.62	
For Structural Tees, WT, MT Or ST, Deduct	-26.28	
For Skewed Or Sloped Connections, Add	10.19	
05 12 23 00-0346 LF W8 x 24 A992/A36 Structural Beam Or Girder	77.31	20.12
For Hot Dip Galvanizing, Add	15.51	
For High Strength Low Alloy A572-50 Steel, Add	6.96	
For High Strength Low Alloy A588 Steel, Add	15.46	
For Each Additional Top Copes >2, Add	0.56	
For Structural Tees, WT, MT Or ST, Deduct	-23.84	
For Skewed Or Sloped Connections, Add	9.28	
05 12 23 00-0347 LF W8 x 21 A992/A36 Structural Beam Or Girder	71.94	18.68
For Hot Dip Galvanizing, Add	14.41	
For High Strength Low Alloy A572-50 Steel, Add	6.47	
For High Strength Low Alloy A588 Steel, Add	14.39	
For Each Additional Top Copes >2, Add	0.52	
For Structural Tees, WT, MT Or ST, Deduct	-22.18	
For Skewed Or Sloped Connections, Add	8.63	
05 12 23 00-0348 LF W8 x 18 A992/A36 Structural Beam Or Girder	62.79	17.36
For Hot Dip Galvanizing, Add	12.27	
For High Strength Low Alloy A572-50 Steel, Add	5.65	
For High Strength Low Alloy A588 Steel, Add	12.56	
For Each Additional Top Copes >2, Add	0.44	
For Structural Tees, WT, MT Or ST, Deduct	-19.19	
For Skewed Or Sloped Connections, Add	7.53	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0349	LF		W8 x 10 A992/A36 Structural Beam Or Girder	37.13	12.46
			For Hot Dip Galvanizing, Add	6.65	
			For High Strength Low Alloy A572-50 Steel, Add	3.34	
			For High Strength Low Alloy A588 Steel, Add	7.43	
			For Each Additional Top Copes >2, Add	0.24	
			For Structural Tees, WT, MT Or ST, Deduct	-11.02	
			For Skewed Or Sloped Connections, Add	4.46	
05 12 23 00-0350	LF		W6 x 9 A992/A36 Structural Beam Or Girder	34.42	10.18
			For Hot Dip Galvanizing, Add	6.56	
			For High Strength Low Alloy A572-50 Steel, Add	3.10	
			For High Strength Low Alloy A588 Steel, Add	6.88	
			For Each Additional Top Copes >2, Add	0.24	
			For Structural Tees, WT, MT Or ST, Deduct	-10.43	
			For Skewed Or Sloped Connections, Add	4.13	
05 12 23 00-0351			A992/A36 Structural Steel, M Shapes (05 12 23 00-0133)		
			Note: Includes material delivery and erection.		
05 12 23 00-0352	LF		M14 x 18 A992/A36 Structural Steel	65.85	15.62
			For Hot Dip Galvanizing, Add	13.65	
			For High Strength Low Alloy A572-50 Steel, Add	5.93	
			For High Strength Low Alloy A588 Grade B Steel, Add	13.17	
05 12 23 00-0353	LF		M12 x 11.8 A992/A36 Structural Steel	46.99	13.82
			For Hot Dip Galvanizing, Add	8.95	
			For High Strength Low Alloy A572-50 Steel, Add	4.23	
			For High Strength Low Alloy A588 Grade B Steel, Add	9.40	
05 12 23 00-0354	LF		M10 x 9 A992/A36 Structural Steel	36.42	11.09
			For Hot Dip Galvanizing, Add	6.83	
			For High Strength Low Alloy A572-50 Steel, Add	3.28	
			For High Strength Low Alloy A588 Grade B Steel, Add	7.28	
05 12 23 00-0355	LF		M8 x 6.5 A992/A36 Structural Steel	26.31	8.01
			For Hot Dip Galvanizing, Add	4.93	
			For High Strength Low Alloy A572-50 Steel, Add	2.37	
			For High Strength Low Alloy A588 Grade B Steel, Add	5.26	
05 12 23 00-0356	LF		M6 x 20 A992/A36 Structural Steel	75.02	19.29
			For Hot Dip Galvanizing, Add	15.17	
			For High Strength Low Alloy A572-50 Steel, Add	6.75	
			For High Strength Low Alloy A588 Grade B Steel, Add	15.00	
05 12 23 00-0357	LF		M6 x 4.4 A992/A36 Structural Steel	17.79	5.42
			For Hot Dip Galvanizing, Add	3.33	
			For High Strength Low Alloy A572-50 Steel, Add	1.60	
			For High Strength Low Alloy A588 Grade B Steel, Add	3.56	
05 12 23 00-0358	LF		M5 x 18.9 A992/A36 Structural Steel	72.17	19.29
			For Hot Dip Galvanizing, Add	14.31	
			For High Strength Low Alloy A572-50 Steel, Add	6.50	
			For High Strength Low Alloy A588 Grade B Steel, Add	14.43	
05 12 23 00-0359	LF		M4 x 13 A992/A36 Structural Steel	59.00	18.93
			For Hot Dip Galvanizing, Add	10.79	
			For High Strength Low Alloy A572-50 Steel, Add	5.31	
			For High Strength Low Alloy A588 Grade B Steel, Add	11.80	
05 12 23 00-0360			A992/A36 Structural Steel, S Shapes (05 12 23 00-0133)		
			Note: Includes material delivery and erection.		
05 12 23 00-0361	LF		S24 x 121 A992/A36 Structural Steel	397.65	79.15
			For Hot Dip Galvanizing, Add	86.93	
			For High Strength Low Alloy A572-50 Steel, Add	35.79	
			For High Strength Low Alloy A588 Grade B Steel, Add	79.53	
05 12 23 00-0362	LF		S24 x 106 A992/A36 Structural Steel	352.25	72.98
			For Hot Dip Galvanizing, Add	76.15	
			For High Strength Low Alloy A572-50 Steel, Add	31.70	
			For High Strength Low Alloy A588 Grade B Steel, Add	70.45	
05 12 23 00-0363	LF		S24 x 100 A992/A36 Structural Steel	336.17	72.47
			For Hot Dip Galvanizing, Add	71.84	
			For High Strength Low Alloy A572-50 Steel, Add	30.26	
			For High Strength Low Alloy A588 Grade B Steel, Add	67.23	
05 12 23 00-0364	LF		S24 x 90 A992/A36 Structural Steel	306.22	68.66
			For Hot Dip Galvanizing, Add	64.66	
			For High Strength Low Alloy A572-50 Steel, Add	27.56	
			For High Strength Low Alloy A588 Grade B Steel, Add	61.24	
05 12 23 00-0365	LF		S24 x 80 A992/A36 Structural Steel	275.61	64.25
			For Hot Dip Galvanizing, Add	57.48	
			For High Strength Low Alloy A572-50 Steel, Add	24.80	
			For High Strength Low Alloy A588 Grade B Steel, Add	55.12	
05 12 23 00-0366	LF		S20 x 96 A992/A36 Structural Steel	322.72	69.58
			For Hot Dip Galvanizing, Add	68.97	
			For High Strength Low Alloy A572-50 Steel, Add	29.04	
			For High Strength Low Alloy A588 Grade B Steel, Add	64.54	
05 12 23 00-0367	LF		S20 x 86 A992/A36 Structural Steel	292.60	65.61
			For Hot Dip Galvanizing, Add	61.79	
			For High Strength Low Alloy A572-50 Steel, Add	26.33	
			For High Strength Low Alloy A588 Grade B Steel, Add	58.52	
05 12 23 00-0368	LF		S20 x 75 A992/A36 Structural Steel	258.38	60.24
			For Hot Dip Galvanizing, Add	53.88	
			For High Strength Low Alloy A572-50 Steel, Add	23.25	
			For High Strength Low Alloy A588 Grade B Steel, Add	51.68	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0369	LF	S20 x 66 A992/A36 Structural Steel	.....	230.35	55.79
		<i>For Hot Dip Galvanizing, Add</i>	.....	47.42	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	.....	20.73	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	.....	46.07	
05 12 23 00-0370	LF	S18 x 70 A992/A36 Structural Steel	.....	244.32	59.18
		<i>For Hot Dip Galvanizing, Add</i>	.....	50.29	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	.....	21.99	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	.....	48.86	
05 12 23 00-0371	LF	S18 x 54.7 A992/A36 Structural Steel	.....	193.51	48.67
		<i>For Hot Dip Galvanizing, Add</i>	.....	39.30	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	.....	17.42	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	.....	38.70	
05 12 23 00-0372	LF	S15 x 50 A992/A36 Structural Steel	.....	179.38	46.83
		<i>For Hot Dip Galvanizing, Add</i>	.....	35.92	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	.....	16.14	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	.....	35.88	
05 12 23 00-0373	LF	S15 x 42.9 A992/A36 Structural Steel	.....	156.17	42.29
		<i>For Hot Dip Galvanizing, Add</i>	.....	30.82	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	.....	14.06	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	.....	31.23	
05 12 23 00-0374	LF	S12 x 50 A992/A36 Structural Steel	.....	176.89	44.49
		<i>For Hot Dip Galvanizing, Add</i>	.....	35.92	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	.....	15.92	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	.....	35.38	
05 12 23 00-0375	LF	S12 x 40.8 A992/A36 Structural Steel	.....	146.37	38.22
		<i>For Hot Dip Galvanizing, Add</i>	.....	29.31	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	.....	13.17	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	.....	29.27	
05 12 23 00-0376	LF	S12 x 35 A992/A36 Structural Steel	.....	127.39	34.51
		<i>For Hot Dip Galvanizing, Add</i>	.....	25.14	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	.....	11.47	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	.....	25.48	
05 12 23 00-0377	LF	S12 x 31.8 A992/A36 Structural Steel	.....	117.52	33.00
		<i>For Hot Dip Galvanizing, Add</i>	.....	22.85	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	.....	10.58	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	.....	23.50	
05 12 23 00-0378	LF	S10 x 35 A992/A36 Structural Steel	.....	129.34	36.33
		<i>For Hot Dip Galvanizing, Add</i>	.....	25.14	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	.....	11.64	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	.....	25.87	
05 12 23 00-0379	LF	S10 x 25.4 A992/A36 Structural Steel	.....	95.34	27.75
		<i>For Hot Dip Galvanizing, Add</i>	.....	18.25	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	.....	8.58	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	.....	19.07	
05 12 23 00-0380	LF	S8 x 23 A992/A36 Structural Steel	.....	86.34	25.12
		<i>For Hot Dip Galvanizing, Add</i>	.....	16.53	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	.....	7.77	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	.....	17.27	
05 12 23 00-0381	LF	S8 x 18.4 A992/A36 Structural Steel	.....	70.20	21.16
		<i>For Hot Dip Galvanizing, Add</i>	.....	13.22	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	.....	6.32	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	.....	14.04	
05 12 23 00-0382	LF	S7 x 20 A992/A36 Structural Steel	.....	76.30	23.00
		<i>For Hot Dip Galvanizing, Add</i>	.....	14.37	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	.....	6.87	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	.....	15.26	
05 12 23 00-0383	LF	S7 x 15.3 A992/A36 Structural Steel	.....	59.36	18.53
		<i>For Hot Dip Galvanizing, Add</i>	.....	10.99	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	.....	5.34	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	.....	11.87	
05 12 23 00-0384	LF	S6 x 17.25 A992/A36 Structural Steel	.....	66.22	20.22
		<i>For Hot Dip Galvanizing, Add</i>	.....	12.39	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	.....	5.96	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	.....	13.24	
05 12 23 00-0385	LF	S6 x 12.5 A992/A36 Structural Steel	.....	56.63	18.68
		<i>For Hot Dip Galvanizing, Add</i>	.....	10.16	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	.....	5.10	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	.....	11.33	
05 12 23 00-0386	LF	S5 x 14.75 A992/A36 Structural Steel	.....	60.40	19.04
		<i>For Hot Dip Galvanizing, Add</i>	.....	11.14	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	.....	5.44	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	.....	12.08	
05 12 23 00-0387	LF	S5 x 10 A992/A36 Structural Steel	.....	51.05	18.57
		<i>For Hot Dip Galvanizing, Add</i>	.....	8.65	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	.....	4.59	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	.....	10.21	
05 12 23 00-0388	LF	S4 x 9.5 A992/A36 Structural Steel	.....	49.60	18.57
		<i>For Hot Dip Galvanizing, Add</i>	.....	8.25	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	.....	4.46	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	.....	9.92	
05 12 23 00-0389	LF	S4 x 7.7 A992/A36 Structural Steel	.....	46.27	18.57
		<i>For Hot Dip Galvanizing, Add</i>	.....	7.36	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	.....	4.16	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	.....	9.25	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0390	LF		S3 x 7.5 A992/A36 Structural Steel.....	45.95	18.57
			<i>For Hot Dip Galvanizing, Add</i>	7.27	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	4.14	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	9.19	
05 12 23 00-0391	LF		S3 x 5.7 A992/A36 Structural Steel.....	41.98	18.44
			<i>For Hot Dip Galvanizing, Add</i>	6.20	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	3.78	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	8.40	
05 12 23 00-0392			A992/A36 Structural Steel, HP Shapes <small>(05 12 23 00-0133)</small>		
			Note: Includes material delivery and erection.		
05 12 23 00-0393	LF		HP14 x 117 A992/A36 Structural Steel.....	247.49	23.45
			<i>For Hot Dip Galvanizing, Add</i>	61.74	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	22.27	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	49.50	
05 12 23 00-0394	LF		HP14 x 102 A992/A36 Structural Steel.....	216.42	21.82
			<i>For Hot Dip Galvanizing, Add</i>	53.60	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	19.48	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	43.28	
05 12 23 00-0395	LF		HP14 x 89 A992/A36 Structural Steel.....	192.72	20.47
			<i>For Hot Dip Galvanizing, Add</i>	47.42	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.34	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	38.54	
05 12 23 00-0396	LF		HP14 x 73 A992/A36 Structural Steel.....	159.32	19.29
			<i>For Hot Dip Galvanizing, Add</i>	38.51	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.34	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	31.86	
05 12 23 00-0397	LF		HP13 x 100 A992/A36 Structural Steel.....	212.19	21.39
			<i>For Hot Dip Galvanizing, Add</i>	52.55	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	19.10	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	42.44	
05 12 23 00-0398	LF		HP13 x 87 A992/A36 Structural Steel.....	188.39	20.01
			<i>For Hot Dip Galvanizing, Add</i>	46.36	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	16.96	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	37.68	
05 12 23 00-0399	LF		HP13 x 73 A992/A36 Structural Steel.....	159.32	19.29
			<i>For Hot Dip Galvanizing, Add</i>	38.51	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.34	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	31.86	
05 12 23 00-0400	LF		HP13 x 60 A992/A36 Structural Steel.....	134.77	18.49
			<i>For Hot Dip Galvanizing, Add</i>	31.93	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.13	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	26.95	
05 12 23 00-0401	LF		HP12 x 84 A992/A36 Structural Steel.....	177.50	21.10
			<i>For Hot Dip Galvanizing, Add</i>	43.02	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.98	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	35.50	
05 12 23 00-0402	LF		HP12 x 74 A992/A36 Structural Steel.....	156.70	19.90
			<i>For Hot Dip Galvanizing, Add</i>	37.60	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.10	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	31.34	
05 12 23 00-0403	LF		HP12 x 63 A992/A36 Structural Steel.....	134.78	18.30
			<i>For Hot Dip Galvanizing, Add</i>	31.99	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.13	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	26.96	
05 12 23 00-0404	LF		HP12 x 53 A992/A36 Structural Steel.....	123.52	17.40
			<i>For Hot Dip Galvanizing, Add</i>	29.13	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.12	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	24.70	
05 12 23 00-0405	LF		HP10 x 57 A992/A36 Structural Steel.....	130.16	17.85
			<i>For Hot Dip Galvanizing, Add</i>	30.84	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.71	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	26.03	
05 12 23 00-0406	LF		HP10 x 42 A992/A36 Structural Steel.....	107.07	16.73
			<i>For Hot Dip Galvanizing, Add</i>	24.76	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.64	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	21.41	
05 12 23 00-0407	LF		HP8 x 36 A992/A36 Structural Steel.....	92.97	15.78
			<i>For Hot Dip Galvanizing, Add</i>	21.13	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.37	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	18.59	
05 12 23 00-0408			Lightweight Framing Steel Shapes <small>(05 12 23)</small>		
			Note: Includes cutting to length. Excludes fasteners or welds. When used with structural steel shapes by TON, connecting bolts or welds are considered included with structural steel tasks by TON.		
05 12 23 00-0409			Angle Iron - L <small>(05 12 23 00-0408)</small>		
05 12 23 00-0410			1/8" Thick <small>(05 12 23 00-0409)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0411 LF 1/2" x 1/2" x 1/8" Thick, Plain Steel Angle Iron.....	2.75	1.60
For >100 To 250, Deduct	-0.16	
For >250 To 500, Deduct	-0.23	
For >500 To 1,000, Deduct	-0.35	
For >1,000, Deduct	-0.47	
For 316 Stainless Steel, Add	1.95	
For Aluminum, Add	0.11	
For Galvanized Steel, Add	0.38	
For 304 Stainless Steel, Add	1.74	
For High Strength Steel (HSS), Add	0.55	
05 12 23 00-0412 LF 3/4" x 1/2" x 1/8" Thick, Plain Steel Angle Iron.....	3.19	1.81
For >100 To 250, Deduct	-0.18	
For >250 To 500, Deduct	-0.26	
For >500 To 1,000, Deduct	-0.40	
For >1,000, Deduct	-0.54	
For 316 Stainless Steel, Add	2.46	
For Aluminum, Add	0.14	
For Galvanized Steel, Add	0.48	
For 304 Stainless Steel, Add	2.19	
For High Strength Steel (HSS), Add	0.64	
05 12 23 00-0413 LF 3/4" x 3/4" x 1/8" Thick, Plain Steel Angle Iron.....	3.62	2.01
For >100 To 250, Deduct	-0.20	
For >250 To 500, Deduct	-0.29	
For >500 To 1,000, Deduct	-0.45	
For >1,000, Deduct	-0.61	
For 316 Stainless Steel, Add	3.04	
For Aluminum, Add	0.17	
For Galvanized Steel, Add	0.59	
For 304 Stainless Steel, Add	2.71	
For High Strength Steel (HSS), Add	0.72	
05 12 23 00-0414 LF 1" x 3/4" x 1/8" Thick, Plain Steel Angle Iron	4.06	2.23
For >100 To 250, Deduct	-0.22	
For >250 To 500, Deduct	-0.32	
For >500 To 1,000, Deduct	-0.50	
For >1,000, Deduct	-0.67	
For 316 Stainless Steel, Add	3.52	
For Aluminum, Add	0.20	
For Galvanized Steel, Add	0.68	
For 304 Stainless Steel, Add	3.14	
For High Strength Steel (HSS), Add	0.81	
05 12 23 00-0415 LF 1" x 1" x 1/8" Thick, Plain Steel Angle Iron	4.49	2.40
For >100 To 250, Deduct	-0.24	
For >250 To 500, Deduct	-0.35	
For >500 To 1,000, Deduct	-0.55	
For >1,000, Deduct	-0.74	
For 316 Stainless Steel, Add	4.10	
For Aluminum, Add	0.23	
For Galvanized Steel, Add	0.79	
For 304 Stainless Steel, Add	3.65	
For High Strength Steel (HSS), Add	0.90	
05 12 23 00-0416 LF 1-1/4" x 1-1/4" x 1/8" Thick, Plain Steel Angle Iron	5.39	2.83
For >100 To 250, Deduct	-0.28	
For >250 To 500, Deduct	-0.42	
For >500 To 1,000, Deduct	-0.65	
For >1,000, Deduct	-0.88	
For 316 Stainless Steel, Add	5.18	
For Aluminum, Add	0.29	
For Galvanized Steel, Add	1.00	
For 304 Stainless Steel, Add	4.62	
For High Strength Steel (HSS), Add	1.08	
05 12 23 00-0417 LF 1-1/2" x 1" x 1/8" Thick, Plain Steel Angle Iron	5.39	2.83
For >100 To 250, Deduct	-0.28	
For >250 To 500, Deduct	-0.42	
For >500 To 1,000, Deduct	-0.65	
For >1,000, Deduct	-0.88	
For 316 Stainless Steel, Add	5.18	
For Aluminum, Add	0.29	
For Galvanized Steel, Add	1.00	
For 304 Stainless Steel, Add	4.62	
For High Strength Steel (HSS), Add	1.08	
05 12 23 00-0418 LF 1-1/2" x 1-1/2" x 1/8" Thick, Plain Steel Angle Iron	6.47	3.39
For >100 To 250, Deduct	-0.34	
For >250 To 500, Deduct	-0.50	
For >500 To 1,000, Deduct	-0.78	
For >1,000, Deduct	-1.05	
For 316 Stainless Steel, Add	6.24	
For Aluminum, Add	0.35	
For Galvanized Steel, Add	1.21	
For 304 Stainless Steel, Add	5.56	
For High Strength Steel (HSS), Add	1.29	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0419	LF		2" x 2" x 1/8" Thick, Plain Steel Angle Iron.....	8.80	4.60
			<i>For >100 To 250, Deduct</i>	-0.46	
			<i>For >250 To 500, Deduct</i>	-0.68	
			<i>For >500 To 1,000, Deduct</i>	-1.05	
			<i>For >1,000, Deduct</i>	-1.43	
			<i>For 316 Stainless Steel, Add</i>	8.51	
			<i>For Aluminum, Add</i>	0.48	
			<i>For Galvanized Steel, Add</i>	1.65	
			<i>For 304 Stainless Steel, Add</i>	7.58	
			<i>For High Strength Steel (HSS), Add</i>	1.76	
05 12 23 00-0420			3/16" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0421	LF		1-1/4" x 1-1/4" x 3/16" Thick, Plain Steel Angle Iron	6.36	2.99
			<i>For >100 To 250, Deduct</i>	-0.30	
			<i>For >250 To 500, Deduct</i>	-0.46	
			<i>For >500 To 1,000, Deduct</i>	-0.72	
			<i>For >1,000, Deduct</i>	-0.97	
			<i>For 316 Stainless Steel, Add</i>	7.62	
			<i>For Aluminum, Add</i>	0.43	
			<i>For Galvanized Steel, Add</i>	1.48	
			<i>For 304 Stainless Steel, Add</i>	6.78	
			<i>For High Strength Steel (HSS), Add</i>	1.27	
05 12 23 00-0422	LF		1-1/2" x 1" x 3/16" Thick, Plain Steel Angle Iron	6.36	2.99
			<i>For >100 To 250, Deduct</i>	-0.30	
			<i>For >250 To 500, Deduct</i>	-0.46	
			<i>For >500 To 1,000, Deduct</i>	-0.72	
			<i>For >1,000, Deduct</i>	-0.97	
			<i>For 316 Stainless Steel, Add</i>	7.62	
			<i>For Aluminum, Add</i>	0.43	
			<i>For Galvanized Steel, Add</i>	1.48	
			<i>For 304 Stainless Steel, Add</i>	6.78	
			<i>For High Strength Steel (HSS), Add</i>	1.27	
05 12 23 00-0423	LF		1-1/2" x 1-1/2" x 3/16" Thick, Plain Steel Angle Iron	7.16	3.21
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.50	
			<i>For >500 To 1,000, Deduct</i>	-0.79	
			<i>For >1,000, Deduct</i>	-1.07	
			<i>For 316 Stainless Steel, Add</i>	9.25	
			<i>For Aluminum, Add</i>	0.52	
			<i>For Galvanized Steel, Add</i>	1.79	
			<i>For 304 Stainless Steel, Add</i>	8.24	
			<i>For High Strength Steel (HSS), Add</i>	1.43	
05 12 23 00-0424	LF		2" x 2" x 3/16" Thick, Plain Steel Angle Iron.....	8.51	3.44
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.56	
			<i>For >500 To 1,000, Deduct</i>	-0.88	
			<i>For >1,000, Deduct</i>	-1.21	
			<i>For 316 Stainless Steel, Add</i>	12.58	
			<i>For Aluminum, Add</i>	0.71	
			<i>For Galvanized Steel, Add</i>	2.44	
			<i>For 304 Stainless Steel, Add</i>	11.20	
			<i>For High Strength Steel (HSS), Add</i>	1.70	
05 12 23 00-0425	LF		2-1/2" x 2" x 3/16" Thick, Plain Steel Angle Iron	9.33	3.68
			<i>For >100 To 250, Deduct</i>	-0.37	
			<i>For >250 To 500, Deduct</i>	-0.60	
			<i>For >500 To 1,000, Deduct</i>	-0.96	
			<i>For >1,000, Deduct</i>	-1.31	
			<i>For 316 Stainless Steel, Add</i>	14.18	
			<i>For Aluminum, Add</i>	0.80	
			<i>For Galvanized Steel, Add</i>	2.75	
			<i>For 304 Stainless Steel, Add</i>	12.63	
			<i>For High Strength Steel (HSS), Add</i>	1.87	
05 12 23 00-0426	LF		2-1/2" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron	10.20	3.94
			<i>For >100 To 250, Deduct</i>	-0.39	
			<i>For >250 To 500, Deduct</i>	-0.65	
			<i>For >500 To 1,000, Deduct</i>	-1.04	
			<i>For >1,000, Deduct</i>	-1.42	
			<i>For 316 Stainless Steel, Add</i>	15.84	
			<i>For Aluminum, Add</i>	0.89	
			<i>For Galvanized Steel, Add</i>	3.07	
			<i>For 304 Stainless Steel, Add</i>	14.11	
			<i>For High Strength Steel (HSS), Add</i>	2.04	
05 12 23 00-0427	LF		3" x 2" x 3/16" Thick, Plain Steel Angle Iron.....	10.19	3.94
			<i>For >100 To 250, Deduct</i>	-0.39	
			<i>For >250 To 500, Deduct</i>	-0.65	
			<i>For >500 To 1,000, Deduct</i>	-1.03	
			<i>For >1,000, Deduct</i>	-1.42	
			<i>For 316 Stainless Steel, Add</i>	15.81	
			<i>For Aluminum, Add</i>	0.89	
			<i>For Galvanized Steel, Add</i>	3.06	
			<i>For 304 Stainless Steel, Add</i>	14.08	
			<i>For High Strength Steel (HSS), Add</i>	2.04	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0428	LF		3" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron	11.26	4.35
			<i>For >100 To 250, Deduct</i>	-0.44	
			<i>For >250 To 500, Deduct</i>	-0.72	
			<i>For >500 To 1,000, Deduct</i>	-1.14	
			<i>For >1,000, Deduct</i>	-1.57	
			<i>For 316 Stainless Steel, Add</i>	17.47	
			<i>For Aluminum, Add</i>	0.98	
			<i>For Galvanized Steel, Add</i>	3.39	
			<i>For 304 Stainless Steel, Add</i>	15.56	
			<i>For High Strength Steel (HSS), Add</i>	2.25	
05 12 23 00-0429	LF		3" x 3" x 3/16" Thick, Plain Steel Angle Iron	12.32	4.76
			<i>For >100 To 250, Deduct</i>	-0.48	
			<i>For >250 To 500, Deduct</i>	-0.78	
			<i>For >500 To 1,000, Deduct</i>	-1.25	
			<i>For >1,000, Deduct</i>	-1.72	
			<i>For 316 Stainless Steel, Add</i>	19.10	
			<i>For Aluminum, Add</i>	1.07	
			<i>For Galvanized Steel, Add</i>	3.70	
			<i>For 304 Stainless Steel, Add</i>	17.01	
			<i>For High Strength Steel (HSS), Add</i>	2.46	
05 12 23 00-0430			1/4" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0431	LF		1-1/2" x 1" x 1/4" Thick, Plain Steel Angle Iron	7.26	3.16
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.50	
			<i>For >500 To 1,000, Deduct</i>	-0.78	
			<i>For >1,000, Deduct</i>	-1.07	
			<i>For 316 Stainless Steel, Add</i>	9.76	
			<i>For Aluminum, Add</i>	0.55	
			<i>For Galvanized Steel, Add</i>	1.89	
			<i>For 304 Stainless Steel, Add</i>	8.69	
			<i>For High Strength Steel (HSS), Add</i>	1.45	
05 12 23 00-0432	LF		1-1/2" x 1-1/2" x 1/4" Thick, Plain Steel Angle Iron	8.24	3.38
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.54	
			<i>For >500 To 1,000, Deduct</i>	-0.86	
			<i>For >1,000, Deduct</i>	-1.18	
			<i>For 316 Stainless Steel, Add</i>	11.94	
			<i>For Aluminum, Add</i>	0.67	
			<i>For Galvanized Steel, Add</i>	2.31	
			<i>For 304 Stainless Steel, Add</i>	10.63	
			<i>For High Strength Steel (HSS), Add</i>	1.65	
05 12 23 00-0433	LF		2" x 2" x 1/4" Thick, Plain Steel Angle Iron	9.93	3.60
			<i>For >100 To 250, Deduct</i>	-0.36	
			<i>For >250 To 500, Deduct</i>	-0.61	
			<i>For >500 To 1,000, Deduct</i>	-0.98	
			<i>For >1,000, Deduct</i>	-1.35	
			<i>For 316 Stainless Steel, Add</i>	16.38	
			<i>For Aluminum, Add</i>	0.92	
			<i>For Galvanized Steel, Add</i>	3.17	
			<i>For 304 Stainless Steel, Add</i>	14.59	
			<i>For High Strength Steel (HSS), Add</i>	1.99	
05 12 23 00-0434	LF		2-1/2" x 2" x 1/4" Thick, Plain Steel Angle Iron	11.15	3.99
			<i>For >100 To 250, Deduct</i>	-0.40	
			<i>For >250 To 500, Deduct</i>	-0.68	
			<i>For >500 To 1,000, Deduct</i>	-1.09	
			<i>For >1,000, Deduct</i>	-1.50	
			<i>For 316 Stainless Steel, Add</i>	18.66	
			<i>For Aluminum, Add</i>	1.05	
			<i>For Galvanized Steel, Add</i>	3.61	
			<i>For 304 Stainless Steel, Add</i>	16.62	
			<i>For High Strength Steel (HSS), Add</i>	2.23	
05 12 23 00-0435	LF		2-1/2" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron	12.42	4.37
			<i>For >100 To 250, Deduct</i>	-0.44	
			<i>For >250 To 500, Deduct</i>	-0.75	
			<i>For >500 To 1,000, Deduct</i>	-1.21	
			<i>For >1,000, Deduct</i>	-1.66	
			<i>For 316 Stainless Steel, Add</i>	21.06	
			<i>For Aluminum, Add</i>	1.18	
			<i>For Galvanized Steel, Add</i>	4.08	
			<i>For 304 Stainless Steel, Add</i>	18.75	
			<i>For High Strength Steel (HSS), Add</i>	2.48	
05 12 23 00-0436	LF		3" x 2" x 1/4" Thick, Plain Steel Angle Iron	12.42	4.37
			<i>For >100 To 250, Deduct</i>	-0.44	
			<i>For >250 To 500, Deduct</i>	-0.75	
			<i>For >500 To 1,000, Deduct</i>	-1.21	
			<i>For >1,000, Deduct</i>	-1.66	
			<i>For 316 Stainless Steel, Add</i>	21.06	
			<i>For Aluminum, Add</i>	1.18	
			<i>For Galvanized Steel, Add</i>	4.08	
			<i>For 304 Stainless Steel, Add</i>	18.75	
			<i>For High Strength Steel (HSS), Add</i>	2.48	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0437	LF		3" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron	13.72	4.86
			<i>For >100 To 250, Deduct</i>	-0.49	
			<i>For >250 To 500, Deduct</i>	-0.83	
			<i>For >500 To 1,000, Deduct</i>	-1.33	
			<i>For >1,000, Deduct</i>	-1.84	
			<i>For 316 Stainless Steel, Add</i>	23.17	
			<i>For Aluminum, Add</i>	1.30	
			<i>For Galvanized Steel, Add</i>	4.49	
			<i>For 304 Stainless Steel, Add</i>	20.63	
			<i>For High Strength Steel (HSS), Add</i>	2.74	
05 12 23 00-0438	LF		3" x 3" x 1/4" Thick, Plain Steel Angle Iron.....	14.99	5.34
			<i>For >100 To 250, Deduct</i>	-0.53	
			<i>For >250 To 500, Deduct</i>	-0.91	
			<i>For >500 To 1,000, Deduct</i>	-1.46	
			<i>For >1,000, Deduct</i>	-2.01	
			<i>For 316 Stainless Steel, Add</i>	25.18	
			<i>For Aluminum, Add</i>	1.42	
			<i>For Galvanized Steel, Add</i>	4.88	
			<i>For 304 Stainless Steel, Add</i>	22.43	
			<i>For High Strength Steel (HSS), Add</i>	3.00	
05 12 23 00-0439	LF		3-1/2" x 3" x 1/4" Thick, Plain Steel Angle Iron	16.32	5.74
			<i>For >100 To 250, Deduct</i>	-0.57	
			<i>For >250 To 500, Deduct</i>	-0.98	
			<i>For >500 To 1,000, Deduct</i>	-1.58	
			<i>For >1,000, Deduct</i>	-2.18	
			<i>For 316 Stainless Steel, Add</i>	27.74	
			<i>For Aluminum, Add</i>	1.56	
			<i>For Galvanized Steel, Add</i>	5.38	
			<i>For 304 Stainless Steel, Add</i>	24.71	
			<i>For High Strength Steel (HSS), Add</i>	3.26	
05 12 23 00-0440	LF		3-1/2" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	17.33	0.59
			<i>For >100 To 250, Deduct</i>	-0.60	
			<i>For >250 To 500, Deduct</i>	-1.03	
			<i>For >500 To 1,000, Deduct</i>	-1.67	
			<i>For >1,000, Deduct</i>	-2.30	
			<i>For 316 Stainless Steel, Add</i>	29.89	
			<i>For Aluminum, Add</i>	1.68	
			<i>For Galvanized Steel, Add</i>	5.79	
			<i>For 304 Stainless Steel, Add</i>	26.62	
			<i>For High Strength Steel (HSS), Add</i>	3.47	
05 12 23 00-0441	LF		4" x 3" x 1/4" Thick, Plain Steel Angle Iron.....	17.33	6.00
			<i>For >100 To 250, Deduct</i>	-0.60	
			<i>For >250 To 500, Deduct</i>	-1.03	
			<i>For >500 To 1,000, Deduct</i>	-1.67	
			<i>For >1,000, Deduct</i>	-2.30	
			<i>For 316 Stainless Steel, Add</i>	29.89	
			<i>For Aluminum, Add</i>	1.68	
			<i>For Galvanized Steel, Add</i>	5.79	
			<i>For 304 Stainless Steel, Add</i>	26.62	
			<i>For High Strength Steel (HSS), Add</i>	3.47	
05 12 23 00-0442	LF		4" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	18.28	6.25
			<i>For >100 To 250, Deduct</i>	-0.62	
			<i>For >250 To 500, Deduct</i>	-1.08	
			<i>For >500 To 1,000, Deduct</i>	-1.75	
			<i>For >1,000, Deduct</i>	-2.41	
			<i>For 316 Stainless Steel, Add</i>	31.84	
			<i>For Aluminum, Add</i>	1.79	
			<i>For Galvanized Steel, Add</i>	6.17	
			<i>For 304 Stainless Steel, Add</i>	28.36	
			<i>For High Strength Steel (HSS), Add</i>	3.66	
05 12 23 00-0443	LF		4" x 4" x 1/4" Thick, Plain Steel Angle Iron.....	19.30	6.51
			<i>For >100 To 250, Deduct</i>	-0.65	
			<i>For >250 To 500, Deduct</i>	-1.13	
			<i>For >500 To 1,000, Deduct</i>	-1.83	
			<i>For >1,000, Deduct</i>	-2.53	
			<i>For 316 Stainless Steel, Add</i>	33.98	
			<i>For Aluminum, Add</i>	1.91	
			<i>For Galvanized Steel, Add</i>	6.58	
			<i>For 304 Stainless Steel, Add</i>	30.27	
			<i>For High Strength Steel (HSS), Add</i>	3.86	
05 12 23 00-0444	LF		5" x 3" x 1/4" Thick, Plain Steel Angle Iron.....	19.30	6.51
			<i>For >100 To 250, Deduct</i>	-0.65	
			<i>For >250 To 500, Deduct</i>	-1.13	
			<i>For >500 To 1,000, Deduct</i>	-1.83	
			<i>For >1,000, Deduct</i>	-2.53	
			<i>For 316 Stainless Steel, Add</i>	33.98	
			<i>For Aluminum, Add</i>	1.91	
			<i>For Galvanized Steel, Add</i>	6.58	
			<i>For 304 Stainless Steel, Add</i>	30.27	
			<i>For High Strength Steel (HSS), Add</i>	3.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0445 LF 5" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	20.39	6.86
For >100 To 250, Deduct	-0.69	
For >250 To 500, Deduct	-1.20	
For >500 To 1,000, Deduct	-1.93	
For >1,000, Deduct	-2.67	
For 316 Stainless Steel, Add	35.97	
For Aluminum, Add	2.02	
For Galvanized Steel, Add	6.97	
For 304 Stainless Steel, Add	32.03	
For High Strength Steel (HSS), Add	4.08	
05 12 23 00-0446 5/16" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0447 LF 2-1/2" x 2" x 5/16" Thick, Plain Steel Angle Iron	13.43	4.64
For >100 To 250, Deduct	-0.46	
For >250 To 500, Deduct	-0.80	
For >500 To 1,000, Deduct	-1.29	
For >1,000, Deduct	-1.78	
For 316 Stainless Steel, Add	23.17	
For Aluminum, Add	1.30	
For Galvanized Steel, Add	4.49	
For 304 Stainless Steel, Add	20.63	
For High Strength Steel (HSS), Add	2.69	
05 12 23 00-0448 LF 2-1/2" x 2-1/2" x 5/16" Thick, Plain Steel Angle Iron	14.61	4.92
For >100 To 250, Deduct	-0.49	
For >250 To 500, Deduct	-0.86	
For >500 To 1,000, Deduct	-1.39	
For >1,000, Deduct	-1.92	
For 316 Stainless Steel, Add	25.76	
For Aluminum, Add	1.45	
For Galvanized Steel, Add	4.99	
For 304 Stainless Steel, Add	22.94	
For High Strength Steel (HSS), Add	2.92	
05 12 23 00-0449 LF 3" x 2" x 5/16" Thick, Plain Steel Angle Iron	14.61	4.92
For >100 To 250, Deduct	-0.49	
For >250 To 500, Deduct	-0.86	
For >500 To 1,000, Deduct	-1.39	
For >1,000, Deduct	-1.92	
For 316 Stainless Steel, Add	25.76	
For Aluminum, Add	1.45	
For Galvanized Steel, Add	4.99	
For 304 Stainless Steel, Add	22.94	
For High Strength Steel (HSS), Add	2.92	
05 12 23 00-0450 LF 3" x 2-1/2" x 5/16" Thick, Plain Steel Angle Iron	16.20	5.39
For >100 To 250, Deduct	-0.54	
For >250 To 500, Deduct	-0.94	
For >500 To 1,000, Deduct	-1.53	
For >1,000, Deduct	-2.11	
For 316 Stainless Steel, Add	28.83	
For Aluminum, Add	1.62	
For Galvanized Steel, Add	5.59	
For 304 Stainless Steel, Add	25.68	
For High Strength Steel (HSS), Add	3.24	
05 12 23 00-0451 LF 3" x 3" x 5/16" Thick, Plain Steel Angle Iron	17.63	5.87
For >100 To 250, Deduct	-0.59	
For >250 To 500, Deduct	-1.03	
For >500 To 1,000, Deduct	-1.66	
For >1,000, Deduct	-2.30	
For 316 Stainless Steel, Add	31.42	
For Aluminum, Add	1.77	
For Galvanized Steel, Add	6.09	
For 304 Stainless Steel, Add	27.99	
For High Strength Steel (HSS), Add	3.53	
05 12 23 00-0452 LF 3-1/2" x 3" x 5/16" Thick, Plain Steel Angle Iron	18.83	6.16
For >100 To 250, Deduct	-0.62	
For >250 To 500, Deduct	-1.09	
For >500 To 1,000, Deduct	-1.76	
For >1,000, Deduct	-2.44	
For 316 Stainless Steel, Add	33.98	
For Aluminum, Add	1.91	
For Galvanized Steel, Add	6.58	
For 304 Stainless Steel, Add	30.27	
For High Strength Steel (HSS), Add	3.77	
05 12 23 00-0453 LF 3-1/2" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	20.18	6.46
For >100 To 250, Deduct	-0.65	
For >250 To 500, Deduct	-1.15	
For >500 To 1,000, Deduct	-1.87	
For >1,000, Deduct	-2.59	
For 316 Stainless Steel, Add	36.99	
For Aluminum, Add	2.08	
For Galvanized Steel, Add	7.17	
For 304 Stainless Steel, Add	32.95	
For High Strength Steel (HSS), Add	4.04	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0454	LF		4" x 3" x 5/16" Thick, Plain Steel Angle Iron.....	20.18	6.46
			<i>For >100 To 250, Deduct</i>	-0.65	
			<i>For >250 To 500, Deduct</i>	-1.15	
			<i>For >500 To 1,000, Deduct</i>	-1.87	
			<i>For >1,000, Deduct</i>	-2.59	
			<i>For 316 Stainless Steel, Add</i>	36.99	
			<i>For Aluminum, Add</i>	2.08	
			<i>For Galvanized Steel, Add</i>	7.17	
			<i>For 304 Stainless Steel, Add</i>	32.95	
			<i>For High Strength Steel (HSS), Add</i>	4.04	
05 12 23 00-0455	LF		4" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	21.47	6.83
			<i>For >100 To 250, Deduct</i>	-0.68	
			<i>For >250 To 500, Deduct</i>	-1.22	
			<i>For >500 To 1,000, Deduct</i>	-1.98	
			<i>For >1,000, Deduct</i>	-2.75	
			<i>For 316 Stainless Steel, Add</i>	39.55	
			<i>For Aluminum, Add</i>	2.22	
			<i>For Galvanized Steel, Add</i>	7.66	
			<i>For 304 Stainless Steel, Add</i>	35.23	
			<i>For High Strength Steel (HSS), Add</i>	4.29	
05 12 23 00-0456	LF		4" x 4" x 5/16" Thick, Plain Steel Angle Iron.....	22.72	7.14
			<i>For >100 To 250, Deduct</i>	-0.71	
			<i>For >250 To 500, Deduct</i>	-1.28	
			<i>For >500 To 1,000, Deduct</i>	-2.09	
			<i>For >1,000, Deduct</i>	-2.89	
			<i>For 316 Stainless Steel, Add</i>	42.24	
			<i>For Aluminum, Add</i>	2.38	
			<i>For Galvanized Steel, Add</i>	8.18	
			<i>For 304 Stainless Steel, Add</i>	37.62	
			<i>For High Strength Steel (HSS), Add</i>	4.54	
05 12 23 00-0457	LF		5" x 3" x 5/16" Thick, Plain Steel Angle Iron.....	22.72	7.14
			<i>For >100 To 250, Deduct</i>	-0.71	
			<i>For >250 To 500, Deduct</i>	-1.28	
			<i>For >500 To 1,000, Deduct</i>	-2.09	
			<i>For >1,000, Deduct</i>	-2.89	
			<i>For 316 Stainless Steel, Add</i>	42.24	
			<i>For Aluminum, Add</i>	2.38	
			<i>For Galvanized Steel, Add</i>	8.18	
			<i>For 304 Stainless Steel, Add</i>	37.62	
			<i>For High Strength Steel (HSS), Add</i>	4.54	
05 12 23 00-0458	LF		5" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	23.88	7.44
			<i>For >100 To 250, Deduct</i>	-0.74	
			<i>For >250 To 500, Deduct</i>	-1.34	
			<i>For >500 To 1,000, Deduct</i>	-2.19	
			<i>For >1,000, Deduct</i>	-3.03	
			<i>For 316 Stainless Steel, Add</i>	44.70	
			<i>For Aluminum, Add</i>	2.51	
			<i>For Galvanized Steel, Add</i>	8.66	
			<i>For 304 Stainless Steel, Add</i>	39.81	
			<i>For High Strength Steel (HSS), Add</i>	4.78	
05 12 23 00-0459	LF		5" x 5" x 5/16" Thick, Plain Steel Angle Iron.....	26.91	7.75
			<i>For >100 To 250, Deduct</i>	-0.77	
			<i>For >250 To 500, Deduct</i>	-1.45	
			<i>For >500 To 1,000, Deduct</i>	-2.38	
			<i>For >1,000, Deduct</i>	-3.31	
			<i>For 316 Stainless Steel, Add</i>	53.06	
			<i>For Aluminum, Add</i>	2.98	
			<i>For Galvanized Steel, Add</i>	10.28	
			<i>For 304 Stainless Steel, Add</i>	47.25	
			<i>For High Strength Steel (HSS), Add</i>	5.38	
05 12 23 00-0460	LF		6" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	26.50	8.07
			<i>For >100 To 250, Deduct</i>	-0.81	
			<i>For >250 To 500, Deduct</i>	-1.47	
			<i>For >500 To 1,000, Deduct</i>	-2.40	
			<i>For >1,000, Deduct</i>	-3.33	
			<i>For 316 Stainless Steel, Add</i>	50.34	
			<i>For Aluminum, Add</i>	2.83	
			<i>For Galvanized Steel, Add</i>	9.75	
			<i>For 304 Stainless Steel, Add</i>	44.83	
			<i>For High Strength Steel (HSS), Add</i>	5.30	
05 12 23 00-0461			3/8" Thick (05 12 23 00-0409)		
05 12 23 00-0462	LF		3" x 2" x 3/8" Thick, Plain Steel Angle Iron.....	16.33	5.15
			<i>For >100 To 250, Deduct</i>	-0.51	
			<i>For >250 To 500, Deduct</i>	-0.92	
			<i>For >500 To 1,000, Deduct</i>	-1.50	
			<i>For >1,000, Deduct</i>	-2.08	
			<i>For 316 Stainless Steel, Add</i>	30.30	
			<i>For Aluminum, Add</i>	1.70	
			<i>For Galvanized Steel, Add</i>	5.87	
			<i>For 304 Stainless Steel, Add</i>	26.99	
			<i>For High Strength Steel (HSS), Add</i>	3.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0463 LF 3" x 2-1/2" x 3/8" Thick, Plain Steel Angle Iron	18.06	5.57
For >100 To 250, Deduct	-0.56	
For >250 To 500, Deduct	-1.01	
For >500 To 1,000, Deduct	-1.65	
For >1,000, Deduct	-2.28	
For 316 Stainless Steel, Add	33.98	
For Aluminum, Add	1.91	
For Galvanized Steel, Add	6.58	
For 304 Stainless Steel, Add	30.27	
For High Strength Steel (HSS), Add	3.61	
05 12 23 00-0464 LF 3" x 3" x 3/8" Thick, Plain Steel Angle Iron	19.56	6.01
For >100 To 250, Deduct	-0.60	
For >250 To 500, Deduct	-1.09	
For >500 To 1,000, Deduct	-1.78	
For >1,000, Deduct	-2.47	
For 316 Stainless Steel, Add	36.99	
For Aluminum, Add	2.08	
For Galvanized Steel, Add	7.17	
For 304 Stainless Steel, Add	32.95	
For High Strength Steel (HSS), Add	3.91	
05 12 23 00-0465 LF 3-1/2" x 3" x 3/8" Thick, Plain Steel Angle Iron	20.94	6.17
For >100 To 250, Deduct	-0.62	
For >250 To 500, Deduct	-1.14	
For >500 To 1,000, Deduct	-1.87	
For >1,000, Deduct	-2.60	
For 316 Stainless Steel, Add	40.70	
For Aluminum, Add	2.29	
For Galvanized Steel, Add	7.89	
For 304 Stainless Steel, Add	36.25	
For High Strength Steel (HSS), Add	4.19	
05 12 23 00-0466 LF 3-1/2" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	22.33	6.51
For >100 To 250, Deduct	-0.65	
For >250 To 500, Deduct	-1.21	
For >500 To 1,000, Deduct	-1.98	
For >1,000, Deduct	-2.76	
For 316 Stainless Steel, Add	43.68	
For Aluminum, Add	2.46	
For Galvanized Steel, Add	8.46	
For 304 Stainless Steel, Add	38.90	
For High Strength Steel (HSS), Add	4.47	
05 12 23 00-0467 LF 4" x 3" x 3/8" Thick, Plain Steel Angle Iron	22.33	6.51
For >100 To 250, Deduct	-0.65	
For >250 To 500, Deduct	-1.21	
For >500 To 1,000, Deduct	-1.98	
For >1,000, Deduct	-2.76	
For 316 Stainless Steel, Add	43.68	
For Aluminum, Add	2.46	
For Galvanized Steel, Add	8.46	
For 304 Stainless Steel, Add	38.90	
For High Strength Steel (HSS), Add	4.47	
05 12 23 00-0468 LF 4" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	24.06	7.10
For >100 To 250, Deduct	-0.71	
For >250 To 500, Deduct	-1.31	
For >500 To 1,000, Deduct	-2.15	
For >1,000, Deduct	-2.99	
For 316 Stainless Steel, Add	46.75	
For Aluminum, Add	2.63	
For Galvanized Steel, Add	9.06	
For 304 Stainless Steel, Add	41.64	
For High Strength Steel (HSS), Add	4.81	
05 12 23 00-0469 LF 4" x 4" x 3/8" Thick, Plain Steel Angle Iron	25.46	7.30
For >100 To 250, Deduct	-0.73	
For >250 To 500, Deduct	-1.37	
For >500 To 1,000, Deduct	-2.25	
For >1,000, Deduct	-3.13	
For 316 Stainless Steel, Add	50.34	
For Aluminum, Add	2.83	
For Galvanized Steel, Add	9.75	
For 304 Stainless Steel, Add	44.83	
For High Strength Steel (HSS), Add	5.09	
05 12 23 00-0470 LF 5" x 3" x 3/8" Thick, Plain Steel Angle Iron	25.85	7.59
For >100 To 250, Deduct	-0.76	
For >250 To 500, Deduct	-1.41	
For >500 To 1,000, Deduct	-2.30	
For >1,000, Deduct	-3.20	
For 316 Stainless Steel, Add	50.34	
For Aluminum, Add	2.83	
For Galvanized Steel, Add	9.75	
For 304 Stainless Steel, Add	44.83	
For High Strength Steel (HSS), Add	5.17	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0471	LF		5" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	27.61	8.17
			<i>For >100 To 250, Deduct</i>	-0.82	
			<i>For >250 To 500, Deduct</i>	-1.51	
			<i>For >500 To 1,000, Deduct</i>	-2.47	
			<i>For >1,000, Deduct</i>	-3.43	
			<i>For 316 Stainless Steel, Add</i>	53.44	
			<i>For Aluminum, Add</i>	3.01	
			<i>For Galvanized Steel, Add</i>	10.35	
			<i>For 304 Stainless Steel, Add</i>	47.60	
			<i>For High Strength Steel (HSS), Add</i>	5.52	
05 12 23 00-0472	LF		5" x 5" x 3/8" Thick, Plain Steel Angle Iron.....	32.50	9.53
			<i>For >100 To 250, Deduct</i>	-0.95	
			<i>For >250 To 500, Deduct</i>	-1.77	
			<i>For >500 To 1,000, Deduct</i>	-2.90	
			<i>For >1,000, Deduct</i>	-4.03	
			<i>For 316 Stainless Steel, Add</i>	63.36	
			<i>For Aluminum, Add</i>	3.56	
			<i>For Galvanized Steel, Add</i>	12.28	
			<i>For 304 Stainless Steel, Add</i>	56.43	
			<i>For High Strength Steel (HSS), Add</i>	6.50	
05 12 23 00-0473	LF		6" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	30.59	8.86
			<i>For >100 To 250, Deduct</i>	-0.89	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500 To 1,000, Deduct</i>	-2.71	
			<i>For >1,000, Deduct</i>	-3.77	
			<i>For 316 Stainless Steel, Add</i>	60.10	
			<i>For Aluminum, Add</i>	3.38	
			<i>For Galvanized Steel, Add</i>	11.64	
			<i>For 304 Stainless Steel, Add</i>	53.52	
			<i>For High Strength Steel (HSS), Add</i>	6.12	
05 12 23 00-0474	LF		6" x 4" x 3/8" Thick, Plain Steel Angle Iron.....	32.50	9.53
			<i>For >100 To 250, Deduct</i>	-0.95	
			<i>For >250 To 500, Deduct</i>	-1.77	
			<i>For >500 To 1,000, Deduct</i>	-2.90	
			<i>For >1,000, Deduct</i>	-4.03	
			<i>For 316 Stainless Steel, Add</i>	63.36	
			<i>For Aluminum, Add</i>	3.56	
			<i>For Galvanized Steel, Add</i>	12.28	
			<i>For 304 Stainless Steel, Add</i>	56.43	
			<i>For High Strength Steel (HSS), Add</i>	6.50	
05 12 23 00-0475	LF		6" x 6" x 3/8" Thick, Plain Steel Angle Iron.....	39.22	11.44
			<i>For >100 To 250, Deduct</i>	-1.14	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500 To 1,000, Deduct</i>	-3.49	
			<i>For >1,000, Deduct</i>	-4.85	
			<i>For 316 Stainless Steel, Add</i>	76.74	
			<i>For Aluminum, Add</i>	4.32	
			<i>For Galvanized Steel, Add</i>	14.87	
			<i>For 304 Stainless Steel, Add</i>	68.34	
			<i>For High Strength Steel (HSS), Add</i>	7.84	
05 12 23 00-0476	LF		7" x 4" x 3/8" Thick, Plain Steel Angle Iron.....	35.86	10.48
			<i>For >100 To 250, Deduct</i>	-1.05	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500 To 1,000, Deduct</i>	-3.19	
			<i>For >1,000, Deduct</i>	-4.44	
			<i>For 316 Stainless Steel, Add</i>	70.02	
			<i>For Aluminum, Add</i>	3.94	
			<i>For Galvanized Steel, Add</i>	13.57	
			<i>For 304 Stainless Steel, Add</i>	62.36	
			<i>For High Strength Steel (HSS), Add</i>	7.17	
05 12 23 00-0477			1/2" Thick (05 12 23 00-0409)		
05 12 23 00-0478	LF		3" x 3" x 1/2" Thick, Plain Steel Angle Iron.....	23.31	6.14
			<i>For >100 To 250, Deduct</i>	-0.61	
			<i>For >250 To 500, Deduct</i>	-1.20	
			<i>For >500 To 1,000, Deduct</i>	-1.98	
			<i>For >1,000, Deduct</i>	-2.77	
			<i>For 316 Stainless Steel, Add</i>	48.42	
			<i>For Aluminum, Add</i>	2.72	
			<i>For Galvanized Steel, Add</i>	9.38	
			<i>For 304 Stainless Steel, Add</i>	43.12	
			<i>For High Strength Steel (HSS), Add</i>	4.66	
05 12 23 00-0479	LF		4" x 3" x 1/2" Thick, Plain Steel Angle Iron.....	27.54	7.25
			<i>For >100 To 250, Deduct</i>	-0.73	
			<i>For >250 To 500, Deduct</i>	-1.41	
			<i>For >500 To 1,000, Deduct</i>	-2.34	
			<i>For >1,000, Deduct</i>	-3.27	
			<i>For 316 Stainless Steel, Add</i>	57.18	
			<i>For Aluminum, Add</i>	3.22	
			<i>For Galvanized Steel, Add</i>	11.08	
			<i>For 304 Stainless Steel, Add</i>	50.93	
			<i>For High Strength Steel (HSS), Add</i>	5.51	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0480	LF		4" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron	29.50	7.77
			<i>For >100 To 250, Deduct</i>	-0.78	
			<i>For >250 To 500, Deduct</i>	-1.51	
			<i>For >500 To 1,000, Deduct</i>	-2.51	
			<i>For >1,000, Deduct</i>	-3.51	
			<i>For 316 Stainless Steel, Add</i>	61.28	
			<i>For Aluminum, Add</i>	3.45	
			<i>For Galvanized Steel, Add</i>	11.87	
			<i>For 304 Stainless Steel, Add</i>	54.58	
			<i>For High Strength Steel (HSS), Add</i>	5.90	
05 12 23 00-0481	LF		4" x 4" x 1/2" Thick, Plain Steel Angle Iron	31.74	8.36
			<i>For >100 To 250, Deduct</i>	-0.84	
			<i>For >250 To 500, Deduct</i>	-1.63	
			<i>For >500 To 1,000, Deduct</i>	-2.70	
			<i>For >1,000, Deduct</i>	-3.77	
			<i>For 316 Stainless Steel, Add</i>	65.92	
			<i>For Aluminum, Add</i>	3.71	
			<i>For Galvanized Steel, Add</i>	12.77	
			<i>For 304 Stainless Steel, Add</i>	58.71	
			<i>For High Strength Steel (HSS), Add</i>	6.35	
05 12 23 00-0482	LF		5" x 3" x 1/2" Thick, Plain Steel Angle Iron	31.74	8.36
			<i>For >100 To 250, Deduct</i>	-0.84	
			<i>For >250 To 500, Deduct</i>	-1.63	
			<i>For >500 To 1,000, Deduct</i>	-2.70	
			<i>For >1,000, Deduct</i>	-3.77	
			<i>For 316 Stainless Steel, Add</i>	65.92	
			<i>For Aluminum, Add</i>	3.71	
			<i>For Galvanized Steel, Add</i>	12.77	
			<i>For 304 Stainless Steel, Add</i>	58.71	
			<i>For High Strength Steel (HSS), Add</i>	6.35	
05 12 23 00-0483	LF		5" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron	33.72	8.88
			<i>For >100 To 250, Deduct</i>	-0.89	
			<i>For >250 To 500, Deduct</i>	-1.73	
			<i>For >500 To 1,000, Deduct</i>	-2.87	
			<i>For >1,000, Deduct</i>	-4.01	
			<i>For 316 Stainless Steel, Add</i>	70.05	
			<i>For Aluminum, Add</i>	3.94	
			<i>For Galvanized Steel, Add</i>	13.57	
			<i>For 304 Stainless Steel, Add</i>	62.39	
			<i>For High Strength Steel (HSS), Add</i>	6.74	
05 12 23 00-0484	LF		5" x 5" x 1/2" Thick, Plain Steel Angle Iron	40.17	10.57
			<i>For >100 To 250, Deduct</i>	-1.06	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500 To 1,000, Deduct</i>	-3.42	
			<i>For >1,000, Deduct</i>	-4.78	
			<i>For 316 Stainless Steel, Add</i>	83.42	
			<i>For Aluminum, Add</i>	4.69	
			<i>For Galvanized Steel, Add</i>	16.16	
			<i>For 304 Stainless Steel, Add</i>	74.30	
			<i>For High Strength Steel (HSS), Add</i>	8.03	
05 12 23 00-0485	LF		6" x 4" x 1/2" Thick, Plain Steel Angle Iron	40.17	10.57
			<i>For >100 To 250, Deduct</i>	-1.06	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500 To 1,000, Deduct</i>	-3.42	
			<i>For >1,000, Deduct</i>	-4.78	
			<i>For 316 Stainless Steel, Add</i>	83.42	
			<i>For Aluminum, Add</i>	4.69	
			<i>For Galvanized Steel, Add</i>	16.16	
			<i>For 304 Stainless Steel, Add</i>	74.30	
			<i>For High Strength Steel (HSS), Add</i>	8.03	
05 12 23 00-0486	LF		6" x 6" x 1/2" Thick, Plain Steel Angle Iron	48.60	12.79
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-2.49	
			<i>For >500 To 1,000, Deduct</i>	-4.14	
			<i>For >1,000, Deduct</i>	-5.78	
			<i>For 316 Stainless Steel, Add</i>	100.93	
			<i>For Aluminum, Add</i>	5.68	
			<i>For Galvanized Steel, Add</i>	19.55	
			<i>For 304 Stainless Steel, Add</i>	89.89	
			<i>For High Strength Steel (HSS), Add</i>	9.72	
05 12 23 00-0487	LF		7" x 4" x 1/2" Thick, Plain Steel Angle Iron	44.37	11.68
			<i>For >100 To 250, Deduct</i>	-1.17	
			<i>For >250 To 500, Deduct</i>	-2.28	
			<i>For >500 To 1,000, Deduct</i>	-3.78	
			<i>For >1,000, Deduct</i>	-5.27	
			<i>For 316 Stainless Steel, Add</i>	92.16	
			<i>For Aluminum, Add</i>	5.18	
			<i>For Galvanized Steel, Add</i>	17.86	
			<i>For 304 Stainless Steel, Add</i>	82.08	
			<i>For High Strength Steel (HSS), Add</i>	8.87	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0488	LF		8" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	48.60	12.79
			<i>For >100 To 250, Deduct</i>	-1.28	
			<i>For >250 To 500, Deduct</i>	-2.49	
			<i>For >500 To 1,000, Deduct</i>	-4.14	
			<i>For >1,000, Deduct</i>	-5.78	
			<i>For 316 Stainless Steel, Add</i>	100.93	
			<i>For Aluminum, Add</i>	5.68	
			<i>For Galvanized Steel, Add</i>	19.55	
			<i>For 304 Stainless Steel, Add</i>	89.89	
			<i>For High Strength Steel (HSS), Add</i>	9.72	
05 12 23 00-0489	LF		8" x 6" x 1/2" Thick, Plain Steel Angle Iron.....	57.04	15.02
			<i>For >100 To 250, Deduct</i>	-1.50	
			<i>For >250 To 500, Deduct</i>	-2.93	
			<i>For >500 To 1,000, Deduct</i>	-4.85	
			<i>For >1,000, Deduct</i>	-6.78	
			<i>For 316 Stainless Steel, Add</i>	118.46	
			<i>For Aluminum, Add</i>	6.66	
			<i>For Galvanized Steel, Add</i>	22.95	
			<i>For 304 Stainless Steel, Add</i>	105.51	
			<i>For High Strength Steel (HSS), Add</i>	11.41	
05 12 23 00-0490	LF		8" x 8" x 1/2" Thick, Plain Steel Angle Iron.....	65.46	17.24
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-3.36	
			<i>For >500 To 1,000, Deduct</i>	-5.57	
			<i>For >1,000, Deduct</i>	-7.78	
			<i>For 316 Stainless Steel, Add</i>	135.94	
			<i>For Aluminum, Add</i>	7.65	
			<i>For Galvanized Steel, Add</i>	26.34	
			<i>For 304 Stainless Steel, Add</i>	121.07	
			<i>For High Strength Steel (HSS), Add</i>	13.09	
05 12 23 00-0491			5/8" Thick (05 12 23 00-0409)		
05 12 23 00-0492	LF		4" x 4" x 5/8" Thick, Plain Steel Angle Iron.....	38.04	9.58
			<i>For >100 To 250, Deduct</i>	-0.96	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500 To 1,000, Deduct</i>	-3.18	
			<i>For >1,000, Deduct</i>	-4.45	
			<i>For 316 Stainless Steel, Add</i>	80.86	
			<i>For Aluminum, Add</i>	4.55	
			<i>For Galvanized Steel, Add</i>	15.67	
			<i>For High Strength Steel (HSS), Add</i>	7.61	
05 12 23 00-0493	LF		5" x 3-1/2" x 5/8" Thick, Plain Steel Angle Iron	40.72	10.25
			<i>For >100 To 250, Deduct</i>	-1.03	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500 To 1,000, Deduct</i>	-3.40	
			<i>For >1,000, Deduct</i>	-4.76	
			<i>For 316 Stainless Steel, Add</i>	86.56	
			<i>For Aluminum, Add</i>	4.87	
			<i>For Galvanized Steel, Add</i>	16.77	
			<i>For High Strength Steel (HSS), Add</i>	8.14	
05 12 23 00-0494	LF		5" x 5" x 5/8" Thick, Plain Steel Angle Iron.....	48.45	12.20
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-2.43	
			<i>For >500 To 1,000, Deduct</i>	-4.05	
			<i>For >1,000, Deduct</i>	-5.67	
			<i>For 316 Stainless Steel, Add</i>	102.98	
			<i>For Aluminum, Add</i>	5.79	
			<i>For Galvanized Steel, Add</i>	19.95	
			<i>For High Strength Steel (HSS), Add</i>	9.69	
05 12 23 00-0495	LF		6" x 4" x 5/8" Thick, Plain Steel Angle Iron.....	48.45	12.20
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-2.43	
			<i>For >500 To 1,000, Deduct</i>	-4.05	
			<i>For >1,000, Deduct</i>	-5.67	
			<i>For 316 Stainless Steel, Add</i>	102.98	
			<i>For Aluminum, Add</i>	5.79	
			<i>For Galvanized Steel, Add</i>	19.95	
			<i>For High Strength Steel (HSS), Add</i>	9.69	
05 12 23 00-0496	LF		6" x 6" x 5/8" Thick, Plain Steel Angle Iron.....	58.64	14.77
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-2.94	
			<i>For >500 To 1,000, Deduct</i>	-4.90	
			<i>For >1,000, Deduct</i>	-6.86	
			<i>For 316 Stainless Steel, Add</i>	124.64	
			<i>For Aluminum, Add</i>	7.01	
			<i>For Galvanized Steel, Add</i>	24.15	
			<i>For High Strength Steel (HSS), Add</i>	11.73	
05 12 23 00-0497	LF		7" x 4" x 5/8" Thick, Plain Steel Angle Iron.....	53.54	13.49
			<i>For >100 To 250, Deduct</i>	-1.35	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500 To 1,000, Deduct</i>	-4.47	
			<i>For >1,000, Deduct</i>	-6.26	
			<i>For 316 Stainless Steel, Add</i>	113.82	
			<i>For Aluminum, Add</i>	6.40	
			<i>For Galvanized Steel, Add</i>	22.05	
			<i>For High Strength Steel (HSS), Add</i>	10.71	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0498 LF 8" x 6" x 5/8" Thick, Plain Steel Angle Iron	69.05	17.39
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-3.46	
For >500 To 1,000, Deduct	-5.77	
For >1,000, Deduct	-8.08	
For 316 Stainless Steel, Add	146.78	
For Aluminum, Add	8.26	
For Galvanized Steel, Add	28.44	
For High Strength Steel (HSS), Add	13.81	
05 12 23 00-0499 LF 8" x 8" x 5/8" Thick, Plain Steel Angle Iron	79.23	19.95
For >100 To 250, Deduct	-2.00	
For >250 To 500, Deduct	-3.98	
For >500 To 1,000, Deduct	-6.62	
For >1,000, Deduct	-9.27	
For 316 Stainless Steel, Add	168.42	
For Aluminum, Add	9.47	
For Galvanized Steel, Add	32.63	
For High Strength Steel (HSS), Add	15.85	
05 12 23 00-0500 3/4" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0501 LF 4" x 4" x 3/4" Thick, Plain Steel Angle Iron	43.90	10.58
For >100 To 250, Deduct	-1.06	
For >250 To 500, Deduct	-2.16	
For >500 To 1,000, Deduct	-3.61	
For >1,000, Deduct	-5.06	
For 316 Stainless Steel, Add	95.33	
For Aluminum, Add	5.36	
For Galvanized Steel, Add	18.47	
For High Strength Steel (HSS), Add	8.78	
05 12 23 00-0502 LF 5" x 3-1/2" x 3/4" Thick, Plain Steel Angle Iron	46.96	11.33
For >100 To 250, Deduct	-1.13	
For >250 To 500, Deduct	-2.31	
For >500 To 1,000, Deduct	-3.86	
For >1,000, Deduct	-5.41	
For 316 Stainless Steel, Add	101.95	
For Aluminum, Add	5.73	
For Galvanized Steel, Add	19.75	
For High Strength Steel (HSS), Add	9.39	
05 12 23 00-0503 LF 5" x 5" x 3/4" Thick, Plain Steel Angle Iron	55.98	13.51
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-2.75	
For >500 To 1,000, Deduct	-4.60	
For >1,000, Deduct	-6.45	
For 316 Stainless Steel, Add	121.57	
For Aluminum, Add	6.84	
For Galvanized Steel, Add	23.55	
For High Strength Steel (HSS), Add	11.20	
05 12 23 00-0504 LF 6" x 4" x 3/4" Thick, Plain Steel Angle Iron	55.98	13.51
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-2.75	
For >500 To 1,000, Deduct	-4.60	
For >1,000, Deduct	-6.45	
For 316 Stainless Steel, Add	121.57	
For Aluminum, Add	6.84	
For Galvanized Steel, Add	23.55	
For High Strength Steel (HSS), Add	11.20	
05 12 23 00-0505 LF 6" x 6" x 3/4" Thick, Plain Steel Angle Iron	68.08	16.41
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-3.34	
For >500 To 1,000, Deduct	-5.59	
For >1,000, Deduct	-7.84	
For 316 Stainless Steel, Add	147.81	
For Aluminum, Add	8.31	
For Galvanized Steel, Add	28.64	
For High Strength Steel (HSS), Add	13.62	
05 12 23 00-0506 LF 7" x 4" x 3/4" Thick, Plain Steel Angle Iron	62.14	14.99
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-3.05	
For >500 To 1,000, Deduct	-5.11	
For >1,000, Deduct	-7.16	
For 316 Stainless Steel, Add	134.91	
For Aluminum, Add	7.59	
For Galvanized Steel, Add	26.14	
For High Strength Steel (HSS), Add	12.43	
05 12 23 00-0507 LF 8" x 4" x 3/4" Thick, Plain Steel Angle Iron	68.08	16.41
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-3.34	
For >500 To 1,000, Deduct	-5.59	
For >1,000, Deduct	-7.84	
For 316 Stainless Steel, Add	147.81	
For Aluminum, Add	8.31	
For Galvanized Steel, Add	28.64	
For High Strength Steel (HSS), Add	13.62	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0508	LF		8" x 6" x 3/4" Thick, Plain Steel Angle Iron.....	80.18	19.33
			<i>For >100 To 250, Deduct</i>	-1.93	
			<i>For >250 To 500, Deduct</i>	-3.94	
			<i>For >500 To 1,000, Deduct</i>	-6.59	
			<i>For >1,000, Deduct</i>	-9.23	
			<i>For 316 Stainless Steel, Add</i>	174.11	
			<i>For Aluminum, Add</i>	9.79	
			<i>For Galvanized Steel, Add</i>	33.73	
			<i>For High Strength Steel (HSS), Add</i>	16.04	
05 12 23 00-0509	LF		8" x 8" x 3/4" Thick, Plain Steel Angle Iron.....	92.27	22.25
			<i>For >100 To 250, Deduct</i>	-2.22	
			<i>For >250 To 500, Deduct</i>	-4.53	
			<i>For >500 To 1,000, Deduct</i>	-7.58	
			<i>For >1,000, Deduct</i>	-10.63	
			<i>For 316 Stainless Steel, Add</i>	200.35	
			<i>For Aluminum, Add</i>	11.27	
			<i>For Galvanized Steel, Add</i>	38.82	
			<i>For High Strength Steel (HSS), Add</i>	18.45	
05 12 23 00-0510			7/8" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0511	LF		5" x 5" x 7/8" Thick, Plain Steel Angle Iron.....	63.13	14.51
			<i>For >100 To 250, Deduct</i>	-1.45	
			<i>For >250 To 500, Deduct</i>	-3.03	
			<i>For >500 To 1,000, Deduct</i>	-5.09	
			<i>For >1,000, Deduct</i>	-7.15	
			<i>For 316 Stainless Steel, Add</i>	140.06	
			<i>For Aluminum, Add</i>	7.88	
			<i>For Galvanized Steel, Add</i>	27.14	
			<i>For High Strength Steel (HSS), Add</i>	12.63	
05 12 23 00-0512	LF		6" x 4" x 7/8" Thick, Plain Steel Angle Iron.....	63.13	14.51
			<i>For >100 To 250, Deduct</i>	-1.45	
			<i>For >250 To 500, Deduct</i>	-3.03	
			<i>For >500 To 1,000, Deduct</i>	-5.09	
			<i>For >1,000, Deduct</i>	-7.15	
			<i>For 316 Stainless Steel, Add</i>	140.06	
			<i>For Aluminum, Add</i>	7.88	
			<i>For Galvanized Steel, Add</i>	27.14	
			<i>For High Strength Steel (HSS), Add</i>	12.63	
05 12 23 00-0513	LF		6" x 6" x 7/8" Thick, Plain Steel Angle Iron.....	76.84	17.67
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-3.69	
			<i>For >500 To 1,000, Deduct</i>	-6.20	
			<i>For >1,000, Deduct</i>	-8.71	
			<i>For 316 Stainless Steel, Add</i>	170.50	
			<i>For Aluminum, Add</i>	9.59	
			<i>For Galvanized Steel, Add</i>	33.03	
			<i>For High Strength Steel (HSS), Add</i>	15.37	
05 12 23 00-0514	LF		8" x 6" x 7/8" Thick, Plain Steel Angle Iron.....	90.76	20.87
			<i>For >100 To 250, Deduct</i>	-2.09	
			<i>For >250 To 500, Deduct</i>	-4.36	
			<i>For >500 To 1,000, Deduct</i>	-7.32	
			<i>For >1,000, Deduct</i>	-10.29	
			<i>For 316 Stainless Steel, Add</i>	201.38	
			<i>For Aluminum, Add</i>	11.33	
			<i>For Galvanized Steel, Add</i>	39.02	
			<i>For High Strength Steel (HSS), Add</i>	18.15	
05 12 23 00-0515	LF		8" x 8" x 7/8" Thick, Plain Steel Angle Iron.....	104.44	24.03
			<i>For >100 To 250, Deduct</i>	-2.40	
			<i>For >250 To 500, Deduct</i>	-5.01	
			<i>For >500 To 1,000, Deduct</i>	-8.42	
			<i>For >1,000, Deduct</i>	-11.84	
			<i>For 316 Stainless Steel, Add</i>	231.74	
			<i>For Aluminum, Add</i>	13.04	
			<i>For Galvanized Steel, Add</i>	44.90	
			<i>For High Strength Steel (HSS), Add</i>	20.89	
05 12 23 00-0516			Bar Channel <small>(05 12 23 00-0408)</small>		
05 12 23 00-0517	LF		1" x 1/2" x 1/8" Thick Bar Channel.....	4.96	
			<i>For 316 Stainless Steel, Add</i>	5.60	
			<i>For Aluminum, Add</i>	0.32	
			<i>For Galvanized Steel, Add</i>	1.09	
			<i>For 304 Stainless Steel, Add</i>	4.99	
			<i>For High Strength Steel (HSS), Add</i>	0.99	
05 12 23 00-0518	LF		1-1/4" x 1/2" x 1/8" Thick Bar Channel.....	5.59	
			<i>For 316 Stainless Steel, Add</i>	6.72	
			<i>For Aluminum, Add</i>	0.38	
			<i>For Galvanized Steel, Add</i>	1.30	
			<i>For 304 Stainless Steel, Add</i>	5.99	
			<i>For High Strength Steel (HSS), Add</i>	1.12	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0519 LF 1-1/2" x 1/2" x 1/8" Thick Bar Channel.....	6.09	
For 316 Stainless Steel, Add	7.42	
For Aluminum, Add	0.42	
For Galvanized Steel, Add	1.44	
For 304 Stainless Steel, Add	6.61	
For High Strength Steel (HSS), Add	1.22	
05 12 23 00-0520 LF 1-1/2" x 3/4" x 1/8" Thick Bar Channel.....	6.94	
For 316 Stainless Steel, Add	7.74	
For Aluminum, Add	0.44	
For Galvanized Steel, Add	1.50	
For 304 Stainless Steel, Add	6.90	
For High Strength Steel (HSS), Add	1.39	
05 12 23 00-0521 LF 2" x 1/2" x 1/8" Thick Bar Channel.....	7.48	
For 316 Stainless Steel, Add	9.47	
For Aluminum, Add	0.53	
For Galvanized Steel, Add	1.84	
For 304 Stainless Steel, Add	8.44	
05 12 23 00-0522 LF 2" x 1" x 1/8" Thick Bar Channel.....	9.76	
For 316 Stainless Steel, Add	10.59	
For Aluminum, Add	0.60	
For Galvanized Steel, Add	2.05	
For 304 Stainless Steel, Add	9.43	
05 12 23 00-0523 Channels - C <small>(05 12 23 00-0408)</small>		
05 12 23 00-0524 LF C2 x 1.78 - 2" Wide Channel	8.11	3.98
For >100 To 250, Deduct	-0.40	
For >250 To 500, Deduct	-0.60	
For >500 To 1,000, Deduct	-0.94	
For >1,000, Deduct	-1.27	
For 316 Stainless Steel, Add	8.99	
For Aluminum, Add	0.51	
For Galvanized Steel, Add	1.74	
For 304 Stainless Steel, Add	8.01	
05 12 23 00-0525 LF C3 x 4.1 - 3" Wide Channel	14.22	5.72
For >100 To 250, Deduct	-0.57	
For >250 To 500, Deduct	-0.93	
For >500 To 1,000, Deduct	-1.47	
For >1,000, Deduct	-2.02	
For 316 Stainless Steel, Add	21.12	
For Aluminum, Add	1.19	
For Galvanized Steel, Add	4.09	
For 304 Stainless Steel, Add	18.81	
05 12 23 00-0526 LF C3 x 5 - 3" Wide Channel	17.35	6.98
For >100 To 250, Deduct	-0.70	
For >250 To 500, Deduct	-1.13	
For >500 To 1,000, Deduct	-1.80	
For >1,000, Deduct	-2.46	
For 316 Stainless Steel, Add	25.76	
For Aluminum, Add	1.45	
For Galvanized Steel, Add	4.99	
For 304 Stainless Steel, Add	22.94	
05 12 23 00-0527 LF C3 x 6 - 3" Wide Channel	20.83	8.37
For >100 To 250, Deduct	-0.84	
For >250 To 500, Deduct	-1.36	
For >500 To 1,000, Deduct	-2.16	
For >1,000, Deduct	-2.96	
For 316 Stainless Steel, Add	30.91	
For Aluminum, Add	1.74	
For Galvanized Steel, Add	5.99	
For 304 Stainless Steel, Add	27.53	
05 12 23 00-0528 LF C4 x 5.4 - 4" Wide Channel	17.84	6.86
For >100 To 250, Deduct	-0.69	
For >250 To 500, Deduct	-1.13	
For >500 To 1,000, Deduct	-1.81	
For >1,000, Deduct	-2.48	
For 316 Stainless Steel, Add	27.81	
For Aluminum, Add	1.56	
For Galvanized Steel, Add	5.39	
For 304 Stainless Steel, Add	24.77	
05 12 23 00-0529 LF C4 x 7.25 - 4" Wide Channel	23.96	9.21
For >100 To 250, Deduct	-0.92	
For >250 To 500, Deduct	-1.52	
For >500 To 1,000, Deduct	-2.43	
For >1,000, Deduct	-3.33	
For 316 Stainless Steel, Add	37.34	
For Aluminum, Add	2.10	
For Galvanized Steel, Add	7.24	
For 304 Stainless Steel, Add	33.26	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0530	LF		C5 x 6.7 - 5" Wide Channel.....	21.45	8.00
			<i>For >100 To 250, Deduct</i>	-0.80	
			<i>For >250 To 500, Deduct</i>	-1.34	
			<i>For >500 To 1,000, Deduct</i>	-2.14	
			<i>For >1,000, Deduct</i>	-2.94	
			<i>For 316 Stainless Steel, Add</i>	34.50	
			<i>For Aluminum, Add</i>	1.94	
			<i>For Galvanized Steel, Add</i>	6.68	
			<i>For 304 Stainless Steel, Add</i>	30.72	
05 12 23 00-0531	LF		C5 x 9 - 5" Wide Channel.....	28.81	10.75
			<i>For >100 To 250, Deduct</i>	-1.07	
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500 To 1,000, Deduct</i>	-2.87	
			<i>For >1,000, Deduct</i>	-3.95	
			<i>For 316 Stainless Steel, Add</i>	46.34	
			<i>For Aluminum, Add</i>	2.61	
			<i>For Galvanized Steel, Add</i>	8.98	
			<i>For 304 Stainless Steel, Add</i>	41.27	
05 12 23 00-0532	LF		C6 x 8.2 - 6" Wide Channel.....	26.01	9.61
			<i>For >100 To 250, Deduct</i>	-0.96	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500 To 1,000, Deduct</i>	-2.58	
			<i>For >1,000, Deduct</i>	-3.55	
			<i>For 316 Stainless Steel, Add</i>	42.24	
			<i>For Aluminum, Add</i>	2.38	
			<i>For Galvanized Steel, Add</i>	8.18	
			<i>For 304 Stainless Steel, Add</i>	37.62	
05 12 23 00-0533	LF		C6 x 10.5 - 6" Wide Channel.....	33.30	12.31
			<i>For >100 To 250, Deduct</i>	-1.23	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500 To 1,000, Deduct</i>	-3.31	
			<i>For >1,000, Deduct</i>	-4.55	
			<i>For 316 Stainless Steel, Add</i>	54.08	
			<i>For Aluminum, Add</i>	3.04	
			<i>For Galvanized Steel, Add</i>	10.48	
			<i>For 304 Stainless Steel, Add</i>	48.17	
05 12 23 00-0534	LF		C6 x 13 - 6" Wide Channel.....	41.23	15.23
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-2.55	
			<i>For >500 To 1,000, Deduct</i>	-4.09	
			<i>For >1,000, Deduct</i>	-5.63	
			<i>For 316 Stainless Steel, Add</i>	66.94	
			<i>For Aluminum, Add</i>	3.77	
			<i>For Galvanized Steel, Add</i>	12.97	
			<i>For 304 Stainless Steel, Add</i>	59.62	
05 12 23 00-0535	LF		C7 x 9.8 - 7" Wide Channel.....	31.02	11.44
			<i>For >100 To 250, Deduct</i>	-1.14	
			<i>For >250 To 500, Deduct</i>	-1.92	
			<i>For >500 To 1,000, Deduct</i>	-3.08	
			<i>For >1,000, Deduct</i>	-4.23	
			<i>For 316 Stainless Steel, Add</i>	50.46	
			<i>For Aluminum, Add</i>	2.84	
			<i>For Galvanized Steel, Add</i>	9.78	
			<i>For 304 Stainless Steel, Add</i>	44.94	
05 12 23 00-0536	LF		C7 x 12.25 - 7" Wide Channel.....	38.77	14.29
			<i>For >100 To 250, Deduct</i>	-1.43	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500 To 1,000, Deduct</i>	-3.84	
			<i>For >1,000, Deduct</i>	-5.29	
			<i>For 316 Stainless Steel, Add</i>	63.07	
			<i>For Aluminum, Add</i>	3.55	
			<i>For Galvanized Steel, Add</i>	12.22	
			<i>For 304 Stainless Steel, Add</i>	56.17	
05 12 23 00-0537	LF		C7 x 14.75 - 7" Wide Channel.....	46.70	17.22
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-2.89	
			<i>For >500 To 1,000, Deduct</i>	-4.63	
			<i>For >1,000, Deduct</i>	-6.37	
			<i>For 316 Stainless Steel, Add</i>	75.97	
			<i>For Aluminum, Add</i>	4.27	
			<i>For Galvanized Steel, Add</i>	14.72	
			<i>For 304 Stainless Steel, Add</i>	67.66	
05 12 23 00-0538	LF		C8 x 11.5 - 8" Wide Channel.....	35.29	12.58
			<i>For >100 To 250, Deduct</i>	-1.26	
			<i>For >250 To 500, Deduct</i>	-2.14	
			<i>For >500 To 1,000, Deduct</i>	-3.44	
			<i>For >1,000, Deduct</i>	-4.74	
			<i>For 316 Stainless Steel, Add</i>	59.23	
			<i>For Aluminum, Add</i>	3.33	
			<i>For Galvanized Steel, Add</i>	11.48	
			<i>For 304 Stainless Steel, Add</i>	52.75	



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

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0539	LF		C8 x 13.75 - 8" Wide Channel	42.19	15.05
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-2.56	
			For >500 To 1,000, Deduct	-4.12	
			For >1,000, Deduct	-5.67	
			For 316 Stainless Steel, Add	70.82	
			For Aluminum, Add	3.98	
			For Galvanized Steel, Add	13.72	
			For 304 Stainless Steel, Add	63.07	
05 12 23 00-0540	LF		C8 x 18.75 - 8" Wide Channel	57.52	20.52
			For >100 To 250, Deduct	-2.05	
			For >250 To 500, Deduct	-3.49	
			For >500 To 1,000, Deduct	-5.61	
			For >1,000, Deduct	-7.73	
			For 316 Stainless Steel, Add	96.54	
			For Aluminum, Add	5.43	
			For Galvanized Steel, Add	18.71	
			For 304 Stainless Steel, Add	85.98	
05 12 23 00-0541	LF		C9 x 13.4 - 9" Wide Channel	41.11	14.67
			For >100 To 250, Deduct	-1.47	
			For >250 To 500, Deduct	-2.49	
			For >500 To 1,000, Deduct	-4.01	
			For >1,000, Deduct	-5.53	
			For 316 Stainless Steel, Add	68.99	
			For Aluminum, Add	3.88	
			For Galvanized Steel, Add	13.37	
			For 304 Stainless Steel, Add	61.45	
05 12 23 00-0542	LF		C9 x 15 - 9" Wide Channel	46.02	16.41
			For >100 To 250, Deduct	-1.64	
			For >250 To 500, Deduct	-2.79	
			For >500 To 1,000, Deduct	-4.49	
			For >1,000, Deduct	-6.19	
			For 316 Stainless Steel, Add	77.25	
			For Aluminum, Add	4.35	
			For Galvanized Steel, Add	14.97	
			For 304 Stainless Steel, Add	68.80	
05 12 23 00-0543	LF		C9 x 20 - 9" Wide Channel	61.36	21.88
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-3.72	
			For >500 To 1,000, Deduct	-5.99	
			For >1,000, Deduct	-8.25	
			For 316 Stainless Steel, Add	102.98	
			For Aluminum, Add	5.79	
			For Galvanized Steel, Add	19.95	
			For 304 Stainless Steel, Add	91.71	
05 12 23 00-0544	LF		C10 x 15.3 - 10" Wide Channel	46.94	16.73
			For >100 To 250, Deduct	-1.67	
			For >250 To 500, Deduct	-2.85	
			For >500 To 1,000, Deduct	-4.58	
			For >1,000, Deduct	-6.31	
			For 316 Stainless Steel, Add	78.78	
			For Aluminum, Add	4.43	
			For Galvanized Steel, Add	15.26	
			For 304 Stainless Steel, Add	70.17	
05 12 23 00-0545	LF		C10 x 20 - 10" Wide Channel	61.36	21.88
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-3.72	
			For >500 To 1,000, Deduct	-5.99	
			For >1,000, Deduct	-8.25	
			For 316 Stainless Steel, Add	102.98	
			For Aluminum, Add	5.79	
			For Galvanized Steel, Add	19.95	
			For 304 Stainless Steel, Add	91.71	
05 12 23 00-0546	LF		C10 x 25 - 10" Wide Channel	76.70	27.35
			For >100 To 250, Deduct	-2.74	
			For >250 To 500, Deduct	-4.65	
			For >500 To 1,000, Deduct	-7.48	
			For >1,000, Deduct	-10.31	
			For 316 Stainless Steel, Add	128.74	
			For Aluminum, Add	7.24	
			For Galvanized Steel, Add	24.94	
			For 304 Stainless Steel, Add	114.66	
05 12 23 00-0547	LF		C10 x 30 - 10" Wide Channel	92.04	32.82
			For >100 To 250, Deduct	-3.28	
			For >250 To 500, Deduct	-5.58	
			For >500 To 1,000, Deduct	-8.98	
			For >1,000, Deduct	-12.37	
			For 316 Stainless Steel, Add	154.50	
			For Aluminum, Add	8.69	
			For Galvanized Steel, Add	29.93	
			For 304 Stainless Steel, Add	137.60	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0548	LF		C12 x 20.7 - 12" Wide Channel.....	63.51	22.65
			<i>For >100 To 250, Deduct</i>	-2.27	
			<i>For >250 To 500, Deduct</i>	-3.85	
			<i>For >500 To 1,000, Deduct</i>	-6.20	
			<i>For >1,000, Deduct</i>	-8.54	
			<i>For 316 Stainless Steel, Add</i>	106.59	
			<i>For Aluminum, Add</i>	6.00	
			<i>For Galvanized Steel, Add</i>	20.65	
			<i>For 304 Stainless Steel, Add</i>	94.93	
05 12 23 00-0549	LF		C12 x 25 - 12" Wide Channel.....	76.70	27.35
			<i>For >100 To 250, Deduct</i>	-2.74	
			<i>For >250 To 500, Deduct</i>	-4.65	
			<i>For >500 To 1,000, Deduct</i>	-7.48	
			<i>For >1,000, Deduct</i>	-10.31	
			<i>For 316 Stainless Steel, Add</i>	128.74	
			<i>For Aluminum, Add</i>	7.24	
			<i>For Galvanized Steel, Add</i>	24.94	
			<i>For 304 Stainless Steel, Add</i>	114.66	
05 12 23 00-0550	LF		C12 x 30 - 12" Wide Channel.....	92.04	32.82
			<i>For >100 To 250, Deduct</i>	-3.28	
			<i>For >250 To 500, Deduct</i>	-5.58	
			<i>For >500 To 1,000, Deduct</i>	-8.98	
			<i>For >1,000, Deduct</i>	-12.37	
			<i>For 316 Stainless Steel, Add</i>	154.50	
			<i>For Aluminum, Add</i>	8.69	
			<i>For Galvanized Steel, Add</i>	29.93	
			<i>For 304 Stainless Steel, Add</i>	137.60	
05 12 23 00-0551	LF		C15 x 33.9 - 15" Wide Channel.....	104.00	37.09
			<i>For >100 To 250, Deduct</i>	-3.71	
			<i>For >250 To 500, Deduct</i>	-6.31	
			<i>For >500 To 1,000, Deduct</i>	-10.15	
			<i>For >1,000, Deduct</i>	-13.98	
			<i>For 316 Stainless Steel, Add</i>	174.56	
			<i>For Aluminum, Add</i>	9.82	
			<i>For Galvanized Steel, Add</i>	33.82	
			<i>For 304 Stainless Steel, Add</i>	155.47	
05 12 23 00-0552	LF		C15 x 40 - 15" Wide Channel.....	122.72	43.76
			<i>For >100 To 250, Deduct</i>	-4.38	
			<i>For >250 To 500, Deduct</i>	-7.44	
			<i>For >500 To 1,000, Deduct</i>	-11.97	
			<i>For >1,000, Deduct</i>	-16.50	
			<i>For 316 Stainless Steel, Add</i>	205.98	
			<i>For Aluminum, Add</i>	11.59	
			<i>For Galvanized Steel, Add</i>	39.91	
			<i>For 304 Stainless Steel, Add</i>	183.45	
05 12 23 00-0553	LF		C15 x 50 - 15" Wide Channel.....	153.40	54.70
			<i>For >100 To 250, Deduct</i>	-5.47	
			<i>For >250 To 500, Deduct</i>	-9.31	
			<i>For >500 To 1,000, Deduct</i>	-14.96	
			<i>For >1,000, Deduct</i>	-20.62	
			<i>For 316 Stainless Steel, Add</i>	257.47	
			<i>For Aluminum, Add</i>	14.48	
			<i>For Galvanized Steel, Add</i>	49.89	
			<i>For 304 Stainless Steel, Add</i>	229.31	
05 12 23 00-0554			Miscellaneous Channels - MC <small>(05 12 23 00-0408)</small>		
05 12 23 00-0555	LF		MC6 x 12 - 6" Wide Channel.....	38.06	14.06
			<i>For >100 To 250, Deduct</i>	-1.41	
			<i>For >250 To 500, Deduct</i>	-2.36	
			<i>For >500 To 1,000, Deduct</i>	-3.78	
			<i>For >1,000, Deduct</i>	-5.20	
			<i>For 316 Stainless Steel, Add</i>	61.79	
			<i>For Aluminum, Add</i>	3.48	
			<i>For Galvanized Steel, Add</i>	11.97	
			<i>For 304 Stainless Steel, Add</i>	55.03	
05 12 23 00-0556	LF		MC6 x 15.1 - 6" Wide Channel.....	47.89	17.69
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.97	
			<i>For >500 To 1,000, Deduct</i>	-4.75	
			<i>For >1,000, Deduct</i>	-6.54	
			<i>For 316 Stainless Steel, Add</i>	77.76	
			<i>For Aluminum, Add</i>	4.37	
			<i>For Galvanized Steel, Add</i>	15.07	
			<i>For 304 Stainless Steel, Add</i>	69.26	
05 12 23 00-0557	LF		MC6 x 15.3 - 6" Wide Channel.....	48.52	17.92
			<i>For >100 To 250, Deduct</i>	-1.79	
			<i>For >250 To 500, Deduct</i>	-3.01	
			<i>For >500 To 1,000, Deduct</i>	-4.82	
			<i>For >1,000, Deduct</i>	-6.63	
			<i>For 316 Stainless Steel, Add</i>	78.78	
			<i>For Aluminum, Add</i>	4.43	
			<i>For Galvanized Steel, Add</i>	15.26	
			<i>For 304 Stainless Steel, Add</i>	70.17	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0558	LF		MC6 x 16.3 - 6" Wide Channel	51.70	19.09
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-3.20	
			For >500 To 1,000, Deduct	-5.13	
			For >1,000, Deduct	-7.06	
			For 316 Stainless Steel, Add	83.94	
			For Aluminum, Add	4.72	
			For Galvanized Steel, Add	16.26	
			For 304 Stainless Steel, Add	74.76	
05 12 23 00-0559	LF		MC6 x 18 - 6" Wide Channel	57.09	21.09
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-3.54	
			For >500 To 1,000, Deduct	-5.67	
			For >1,000, Deduct	-7.80	
			For 316 Stainless Steel, Add	92.70	
			For Aluminum, Add	5.21	
			For Galvanized Steel, Add	17.96	
			For 304 Stainless Steel, Add	82.56	
05 12 23 00-0560	LF		MC7 x 17.6 - 7" Wide Channel	55.71	20.55
			For >100 To 250, Deduct	-2.05	
			For >250 To 500, Deduct	-3.45	
			For >500 To 1,000, Deduct	-5.52	
			For >1,000, Deduct	-7.60	
			For 316 Stainless Steel, Add	90.62	
			For Aluminum, Add	5.10	
			For Galvanized Steel, Add	17.56	
			For 304 Stainless Steel, Add	80.71	
05 12 23 00-0561	LF		MC7 x 19.1 - 7" Wide Channel	60.47	22.30
			For >100 To 250, Deduct	-2.23	
			For >250 To 500, Deduct	-3.74	
			For >500 To 1,000, Deduct	-6.00	
			For >1,000, Deduct	-8.25	
			For 316 Stainless Steel, Add	98.37	
			For Aluminum, Add	5.53	
			For Galvanized Steel, Add	19.06	
			For 304 Stainless Steel, Add	87.61	
05 12 23 00-0562	LF		MC7 x 22.7 - 7" Wide Channel	71.86	26.50
			For >100 To 250, Deduct	-2.65	
			For >250 To 500, Deduct	-4.45	
			For >500 To 1,000, Deduct	-7.13	
			For >1,000, Deduct	-9.81	
			For 316 Stainless Steel, Add	116.90	
			For Aluminum, Add	6.58	
			For Galvanized Steel, Add	22.65	
			For 304 Stainless Steel, Add	104.11	
05 12 23 00-0563	LF		MC8 x 8.5 - 8" Wide Channel	26.09	9.30
			For >100 To 250, Deduct	-0.93	
			For >250 To 500, Deduct	-1.58	
			For >500 To 1,000, Deduct	-2.55	
			For >1,000, Deduct	-3.51	
			For 316 Stainless Steel, Add	43.78	
			For Aluminum, Add	2.46	
			For Galvanized Steel, Add	8.48	
			For 304 Stainless Steel, Add	38.99	
05 12 23 00-0564	LF		MC8 x 18.7 - 8" Wide Channel	57.37	20.46
			For >100 To 250, Deduct	-2.05	
			For >250 To 500, Deduct	-3.48	
			For >500 To 1,000, Deduct	-5.60	
			For >1,000, Deduct	-7.71	
			For 316 Stainless Steel, Add	96.29	
			For Aluminum, Add	5.42	
			For Galvanized Steel, Add	18.66	
			For 304 Stainless Steel, Add	85.76	
05 12 23 00-0565	LF		MC8 x 20 - 8" Wide Channel	61.36	21.88
			For >100 To 250, Deduct	-2.19	
			For >250 To 500, Deduct	-3.72	
			For >500 To 1,000, Deduct	-5.99	
			For >1,000, Deduct	-8.25	
			For 316 Stainless Steel, Add	102.98	
			For Aluminum, Add	5.79	
			For Galvanized Steel, Add	19.95	
			For 304 Stainless Steel, Add	91.71	
05 12 23 00-0566	LF		MC8 x 21.4 - 8" Wide Channel	65.67	23.42
			For >100 To 250, Deduct	-2.34	
			For >250 To 500, Deduct	-3.98	
			For >500 To 1,000, Deduct	-6.41	
			For >1,000, Deduct	-8.83	
			For 316 Stainless Steel, Add	110.21	
			For Aluminum, Add	6.20	
			For Galvanized Steel, Add	21.35	
			For 304 Stainless Steel, Add	98.15	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0567	LF		MC8 x 22.8 - 8" Wide Channel.....	69.94	24.95
			<i>For >100 To 250, Deduct</i>	-2.49	
			<i>For >250 To 500, Deduct</i>	-4.24	
			<i>For >500 To 1,000, Deduct</i>	-6.82	
			<i>For >1,000, Deduct</i>	-9.40	
			<i>For 316 Stainless Steel, Add</i>	117.41	
			<i>For Aluminum, Add</i>	6.60	
			<i>For Galvanized Steel, Add</i>	22.75	
			<i>For 304 Stainless Steel, Add</i>	104.57	
05 12 23 00-0568	LF		MC9 x 23.9 - 9" Wide Channel.....	73.33	26.15
			<i>For >100 To 250, Deduct</i>	-2.62	
			<i>For >250 To 500, Deduct</i>	-4.45	
			<i>For >500 To 1,000, Deduct</i>	-7.15	
			<i>For >1,000, Deduct</i>	-9.86	
			<i>For 316 Stainless Steel, Add</i>	123.07	
			<i>For Aluminum, Add</i>	6.92	
			<i>For Galvanized Steel, Add</i>	23.85	
			<i>For 304 Stainless Steel, Add</i>	109.61	
05 12 23 00-0569	LF		MC9 x 25.4 - 9" Wide Channel.....	77.92	27.79
			<i>For >100 To 250, Deduct</i>	-2.78	
			<i>For >250 To 500, Deduct</i>	-4.73	
			<i>For >500 To 1,000, Deduct</i>	-7.60	
			<i>For >1,000, Deduct</i>	-10.48	
			<i>For 316 Stainless Steel, Add</i>	130.78	
			<i>For Aluminum, Add</i>	7.36	
			<i>For Galvanized Steel, Add</i>	25.34	
			<i>For 304 Stainless Steel, Add</i>	116.48	
05 12 23 00-0570	LF		MC10 x 6.5 - 10" Wide Channel.....	19.95	7.11
			<i>For >100 To 250, Deduct</i>	-0.71	
			<i>For >250 To 500, Deduct</i>	-1.21	
			<i>For >500 To 1,000, Deduct</i>	-1.95	
			<i>For >1,000, Deduct</i>	-2.68	
			<i>For 316 Stainless Steel, Add</i>	33.47	
			<i>For Aluminum, Add</i>	1.88	
			<i>For Galvanized Steel, Add</i>	6.49	
			<i>For 304 Stainless Steel, Add</i>	29.81	
05 12 23 00-0571	LF		MC10 x 8.4 - 10" Wide Channel.....	25.77	9.19
			<i>For >100 To 250, Deduct</i>	-0.92	
			<i>For >250 To 500, Deduct</i>	-1.56	
			<i>For >500 To 1,000, Deduct</i>	-2.51	
			<i>For >1,000, Deduct</i>	-3.46	
			<i>For 316 Stainless Steel, Add</i>	43.26	
			<i>For Aluminum, Add</i>	2.43	
			<i>For Galvanized Steel, Add</i>	8.38	
			<i>For 304 Stainless Steel, Add</i>	38.53	
05 12 23 00-0572	LF		MC10 x 21.9 - 10" Wide Channel.....	67.18	23.97
			<i>For >100 To 250, Deduct</i>	-2.40	
			<i>For >250 To 500, Deduct</i>	-4.08	
			<i>For >500 To 1,000, Deduct</i>	-6.55	
			<i>For >1,000, Deduct</i>	-9.03	
			<i>For 316 Stainless Steel, Add</i>	112.77	
			<i>For Aluminum, Add</i>	6.34	
			<i>For Galvanized Steel, Add</i>	21.85	
			<i>For 304 Stainless Steel, Add</i>	100.43	
05 12 23 00-0573	LF		MC10 x 24.9 - 10" Wide Channel.....	76.40	27.25
			<i>For >100 To 250, Deduct</i>	-2.72	
			<i>For >250 To 500, Deduct</i>	-4.63	
			<i>For >500 To 1,000, Deduct</i>	-7.45	
			<i>For >1,000, Deduct</i>	-10.27	
			<i>For 316 Stainless Steel, Add</i>	128.22	
			<i>For Aluminum, Add</i>	7.21	
			<i>For Galvanized Steel, Add</i>	24.84	
			<i>For 304 Stainless Steel, Add</i>	114.20	
05 12 23 00-0574	LF		MC10 x 25.3 - 10" Wide Channel.....	77.62	27.69
			<i>For >100 To 250, Deduct</i>	-2.77	
			<i>For >250 To 500, Deduct</i>	-4.71	
			<i>For >500 To 1,000, Deduct</i>	-7.57	
			<i>For >1,000, Deduct</i>	-10.44	
			<i>For 316 Stainless Steel, Add</i>	130.27	
			<i>For Aluminum, Add</i>	7.33	
			<i>For Galvanized Steel, Add</i>	25.24	
			<i>For 304 Stainless Steel, Add</i>	116.02	
05 12 23 00-0575	LF		MC10 x 28.3 - 10" Wide Channel.....	86.83	30.96
			<i>For >100 To 250, Deduct</i>	-3.10	
			<i>For >250 To 500, Deduct</i>	-5.27	
			<i>For >500 To 1,000, Deduct</i>	-8.47	
			<i>For >1,000, Deduct</i>	-11.67	
			<i>For 316 Stainless Steel, Add</i>	145.73	
			<i>For Aluminum, Add</i>	8.20	
			<i>For Galvanized Steel, Add</i>	28.23	
			<i>For 304 Stainless Steel, Add</i>	129.79	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0576 LF MC10 x 28.5 - 10" Wide Channel.....	87.44	31.19
For >100 To 250, Deduct	-3.12	
For >250 To 500, Deduct	-5.30	
For >500 To 1,000, Deduct	-8.53	
For >1,000, Deduct	-11.76	
For 316 Stainless Steel, Add	146.75	
For Aluminum, Add	8.25	
For Galvanized Steel, Add	28.43	
For 304 Stainless Steel, Add	130.70	
05 12 23 00-0577 LF MC10 x 33.6 - 10" Wide Channel.....	103.09	36.76
For >100 To 250, Deduct	-3.68	
For >250 To 500, Deduct	-6.25	
For >500 To 1,000, Deduct	-10.06	
For >1,000, Deduct	-13.86	
For 316 Stainless Steel, Add	173.02	
For Aluminum, Add	9.73	
For Galvanized Steel, Add	33.52	
For 304 Stainless Steel, Add	154.10	
05 12 23 00-0578 LF MC10 x 41.1 - 10" Wide Channel.....	126.09	44.97
For >100 To 250, Deduct	-4.50	
For >250 To 500, Deduct	-7.65	
For >500 To 1,000, Deduct	-12.30	
For >1,000, Deduct	-16.95	
For 316 Stainless Steel, Add	211.65	
For Aluminum, Add	11.91	
For Galvanized Steel, Add	41.01	
For 304 Stainless Steel, Add	188.50	
05 12 23 00-0579 LF MC12 x 30.9 - 12" Wide Channel.....	94.81	33.81
For >100 To 250, Deduct	-3.38	
For >250 To 500, Deduct	-5.75	
For >500 To 1,000, Deduct	-9.25	
For >1,000, Deduct	-12.75	
For 316 Stainless Steel, Add	159.10	
For Aluminum, Add	8.95	
For Galvanized Steel, Add	30.83	
For 304 Stainless Steel, Add	141.70	
05 12 23 00-0580 LF MC12 x 32.9 - 12" Wide Channel.....	100.94	35.99
For >100 To 250, Deduct	-3.60	
For >250 To 500, Deduct	-6.12	
For >500 To 1,000, Deduct	-9.85	
For >1,000, Deduct	-13.57	
For 316 Stainless Steel, Add	169.41	
For Aluminum, Add	9.53	
For Galvanized Steel, Add	32.82	
For 304 Stainless Steel, Add	150.88	
05 12 23 00-0581 LF MC12 x 35 - 12" Wide Channel	107.38	38.29
For >100 To 250, Deduct	-3.83	
For >250 To 500, Deduct	-6.51	
For >500 To 1,000, Deduct	-10.48	
For >1,000, Deduct	-14.44	
For 316 Stainless Steel, Add	180.22	
For Aluminum, Add	10.14	
For Galvanized Steel, Add	34.92	
For 304 Stainless Steel, Add	160.51	
05 12 23 00-0582 LF MC12 x 37 - 12" Wide Channel	113.52	40.49
For >100 To 250, Deduct	-4.05	
For >250 To 500, Deduct	-6.89	
For >500 To 1,000, Deduct	-11.07	
For >1,000, Deduct	-15.26	
For 316 Stainless Steel, Add	190.53	
For Aluminum, Add	10.72	
For Galvanized Steel, Add	36.91	
For 304 Stainless Steel, Add	169.69	
05 12 23 00-0583 LF MC12 x 40 - 12" Wide Channel	122.72	43.76
For >100 To 250, Deduct	-4.38	
For >250 To 500, Deduct	-7.44	
For >500 To 1,000, Deduct	-11.97	
For >1,000, Deduct	-16.50	
For 316 Stainless Steel, Add	205.98	
For Aluminum, Add	11.59	
For Galvanized Steel, Add	39.91	
For 304 Stainless Steel, Add	183.45	
05 12 23 00-0584 LF MC12 x 45 - 12" Wide Channel	138.06	49.24
For >100 To 250, Deduct	-4.92	
For >250 To 500, Deduct	-8.38	
For >500 To 1,000, Deduct	-13.47	
For >1,000, Deduct	-18.56	
For 316 Stainless Steel, Add	231.71	
For Aluminum, Add	13.03	
For Galvanized Steel, Add	44.89	
For 304 Stainless Steel, Add	206.37	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0585	LF		MC12 x 50 - 12" Wide Channel.....	153.40	54.71
			For >100 To 250, Deduct	-5.47	
			For >250 To 500, Deduct	-9.31	
			For >500 To 1,000, Deduct	-14.96	
			For >1,000, Deduct	-20.62	
			For 316 Stainless Steel, Add	257.47	
			For Aluminum, Add	14.48	
			For Galvanized Steel, Add	49.89	
			For 304 Stainless Steel, Add	229.31	
05 12 23 00-0586	LF		MC13 x 31.8 - 13" Wide Channel.....	97.57	34.80
			For >100 To 250, Deduct	-3.48	
			For >250 To 500, Deduct	-5.92	
			For >500 To 1,000, Deduct	-9.52	
			For >1,000, Deduct	-13.12	
			For 316 Stainless Steel, Add	163.74	
			For Aluminum, Add	9.21	
			For Galvanized Steel, Add	31.73	
			For 304 Stainless Steel, Add	145.83	
05 12 23 00-0587	LF		MC13 x 35 - 13" Wide Channel.....	107.38	38.29
			For >100 To 250, Deduct	-3.83	
			For >250 To 500, Deduct	-6.51	
			For >500 To 1,000, Deduct	-10.48	
			For >1,000, Deduct	-14.44	
			For 316 Stainless Steel, Add	180.22	
			For Aluminum, Add	10.14	
			For Galvanized Steel, Add	34.92	
			For 304 Stainless Steel, Add	160.51	
05 12 23 00-0588	LF		MC13 x 40 - 13" Wide Channel.....	122.72	43.76
			For >100 To 250, Deduct	-4.38	
			For >250 To 500, Deduct	-7.44	
			For >500 To 1,000, Deduct	-11.97	
			For >1,000, Deduct	-16.50	
			For 316 Stainless Steel, Add	205.98	
			For Aluminum, Add	11.59	
			For Galvanized Steel, Add	39.91	
			For 304 Stainless Steel, Add	183.45	
05 12 23 00-0589	LF		MC13 x 50 - 13" Wide Channel.....	153.40	54.71
			For >100 To 250, Deduct	-5.47	
			For >250 To 500, Deduct	-9.31	
			For >500 To 1,000, Deduct	-14.96	
			For >1,000, Deduct	-20.62	
			For 316 Stainless Steel, Add	257.47	
			For Aluminum, Add	14.48	
			For Galvanized Steel, Add	49.89	
			For 304 Stainless Steel, Add	229.31	
05 12 23 00-0590	LF		MC18 x 42.7 - 18" Wide Channel.....	131.00	46.72
			For >100 To 250, Deduct	-4.67	
			For >250 To 500, Deduct	-7.95	
			For >500 To 1,000, Deduct	-12.78	
			For >1,000, Deduct	-17.61	
			For 316 Stainless Steel, Add	219.87	
			For Aluminum, Add	12.37	
			For Galvanized Steel, Add	42.60	
			For 304 Stainless Steel, Add	195.82	
05 12 23 00-0591	LF		MC18 x 45.8 - 18" Wide Channel.....	140.51	50.12
			For >100 To 250, Deduct	-5.01	
			For >250 To 500, Deduct	-8.52	
			For >500 To 1,000, Deduct	-13.71	
			For >1,000, Deduct	-18.89	
			For 316 Stainless Steel, Add	235.84	
			For Aluminum, Add	13.27	
			For Galvanized Steel, Add	45.69	
			For 304 Stainless Steel, Add	210.05	
05 12 23 00-0592	LF		MC18 x 51.9 - 18" Wide Channel.....	159.24	56.79
			For >100 To 250, Deduct	-5.68	
			For >250 To 500, Deduct	-9.66	
			For >500 To 1,000, Deduct	-15.53	
			For >1,000, Deduct	-21.41	
			For 316 Stainless Steel, Add	267.26	
			For Aluminum, Add	15.03	
			For Galvanized Steel, Add	51.78	
			For 304 Stainless Steel, Add	238.03	
05 12 23 00-0593	LF		MC18 x 58 - 18" Wide Channel.....	177.94	63.45
			For >100 To 250, Deduct	-6.35	
			For >250 To 500, Deduct	-10.79	
			For >500 To 1,000, Deduct	-17.36	
			For >1,000, Deduct	-23.92	
			For 316 Stainless Steel, Add	298.66	
			For Aluminum, Add	16.80	
			For Galvanized Steel, Add	57.86	
			For 304 Stainless Steel, Add	265.99	

05 12 23 00-0594 Structural Bar Tees (05 12 23 00-0408)



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0595 LF 3/4" x 3/4" x 1/8" Structural Bar Tee	5.18	2.91
For >100 To 250, Deduct	-0.29	
For >250 To 500, Deduct	-0.42	
For >500 To 1,000, Deduct	-0.65	
For >1,000, Deduct	-0.87	
For 316 Stainless Steel, Add	4.16	
For Aluminum, Add	0.23	
For Galvanized Steel, Add	0.81	
For 304 Stainless Steel, Add	3.71	
05 12 23 00-0596 LF 1" x 1" x 1/8" Structural Bar Tee	6.36	3.43
For >100 To 250, Deduct	-0.34	
For >250 To 500, Deduct	-0.50	
For >500 To 1,000, Deduct	-0.78	
For >1,000, Deduct	-1.05	
For 316 Stainless Steel, Add	5.70	
For Aluminum, Add	0.32	
For Galvanized Steel, Add	1.10	
For 304 Stainless Steel, Add	5.07	
05 12 23 00-0597 LF 1-1/2" x 1-1/2" x 1/4" Structural Bar Tee	10.38	3.96
For >100 To 250, Deduct	-0.40	
For >250 To 500, Deduct	-0.66	
For >500 To 1,000, Deduct	-1.05	
For >1,000, Deduct	-1.44	
For 316 Stainless Steel, Add	16.32	
For Aluminum, Add	0.92	
For Galvanized Steel, Add	3.16	
For 304 Stainless Steel, Add	14.54	
05 12 23 00-0598 LF 2" x 2" x 1/4" Structural Bar Tee	14.51	5.18
For >100 To 250, Deduct	-0.52	
For >250 To 500, Deduct	-0.88	
For >500 To 1,000, Deduct	-1.42	
For >1,000, Deduct	-1.95	
For 316 Stainless Steel, Add	24.32	
For Aluminum, Add	1.37	
For Galvanized Steel, Add	4.71	
For 304 Stainless Steel, Add	21.66	
05 12 23 00-0599 LF 2-1/2" x 2-1/2" x 3/8" Structural Bar Tee	21.99	6.25
For >100 To 250, Deduct	-0.63	
For >250 To 500, Deduct	-1.18	
For >500 To 1,000, Deduct	-1.93	
For >1,000, Deduct	-2.69	
For 316 Stainless Steel, Add	43.68	
For Aluminum, Add	2.46	
For Galvanized Steel, Add	8.46	
For 304 Stainless Steel, Add	38.90	
05 12 23 00-0600 LF 3" x 3" x 3/8" Structural Bar Tee	27.05	8.00
For >100 To 250, Deduct	-0.80	
For >250 To 500, Deduct	-1.48	
For >500 To 1,000, Deduct	-2.42	
For >1,000, Deduct	-3.36	
For 316 Stainless Steel, Add	52.42	
For Aluminum, Add	2.95	
For Galvanized Steel, Add	10.16	
For 304 Stainless Steel, Add	46.68	
05 12 23 00-0601 Structural Zees (05 12 23 00-0408)		
05 12 23 00-0602 LF 1-1/4" x 1-3/4" x 1-3/4" x 3/16" Structural Zee	12.89	3.96
For >100 To 250, Deduct	-0.40	
For >250 To 500, Deduct	-0.72	
For >500 To 1,000, Deduct	-1.17	
For >1,000, Deduct	-1.63	
For 316 Stainless Steel, Add	24.35	
For Aluminum, Add	1.37	
For Galvanized Steel, Add	4.72	
For 304 Stainless Steel, Add	21.69	
05 12 23 00-0603 LF 2-11/16" x 3" x 2-11/16" x 1/4" Structural Zee.....	24.50	4.73
For >100 To 250, Deduct	-0.47	
For >250 To 500, Deduct	-1.09	
For >500 To 1,000, Deduct	-1.86	
For >1,000, Deduct	-2.63	
For 316 Stainless Steel, Add	58.24	
For Aluminum, Add	3.28	
For Galvanized Steel, Add	11.28	
For 304 Stainless Steel, Add	51.87	
05 12 23 00-0604 LF 3-1/16" x 4" x 3-1/16" x 1/4" Structural Zee.....	29.40	5.34
For >100 To 250, Deduct	-0.53	
For >250 To 500, Deduct	-1.27	
For >500 To 1,000, Deduct	-2.18	
For >1,000, Deduct	-3.10	
For 316 Stainless Steel, Add	71.30	
For Aluminum, Add	4.01	
For Galvanized Steel, Add	13.81	
For 304 Stainless Steel, Add	63.50	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0605	LF		3-1/4" x 5" x 3-1/4" x 5/16" Structural Zee.....	39.65	6.10
			<i>For >100 To 250, Deduct</i>	-0.61	
			<i>For >250 To 500, Deduct</i>	-1.60	
			<i>For >500 To 1,000, Deduct</i>	-2.80	
			<i>For >1,000, Deduct</i>	-3.99	
			<i>For 316 Stainless Steel, Add</i>	100.86	
			<i>For Aluminum, Add</i>	5.67	
			<i>For Galvanized Steel, Add</i>	19.54	
			<i>For 304 Stainless Steel, Add</i>	89.83	
05 12 23 00-0606	LF		3-1/2" x 6" x 3-1/2" x 3/8" Structural Zee.....	51.51	6.63
			<i>For >100 To 250, Deduct</i>	-0.66	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500 To 1,000, Deduct</i>	-3.46	
			<i>For >1,000, Deduct</i>	-4.97	
			<i>For 316 Stainless Steel, Add</i>	136.51	
			<i>For Aluminum, Add</i>	7.68	
			<i>For Galvanized Steel, Add</i>	26.45	
			<i>For 304 Stainless Steel, Add</i>	121.58	
05 12 23 00-0607			Junior I-Beams (05 12 23 00-0408)		
05 12 23 00-0608	LF		3" Junior I-Beam, 2.9 LB/LF.....	17.65	5.72
			<i>For >100 To 250, Deduct</i>	-0.57	
			<i>For >250 To 500, Deduct</i>	-1.01	
			<i>For >500 To 1,000, Deduct</i>	-1.64	
			<i>For >1,000, Deduct</i>	-2.28	
			<i>For 316 Stainless Steel, Add</i>	32.10	
			<i>For Aluminum, Add</i>	1.81	
			<i>For Galvanized Steel, Add</i>	6.22	
			<i>For 304 Stainless Steel, Add</i>	28.59	
05 12 23 00-0609	LF		4" Junior I-Beam, 3.2 LB/LF.....	19.41	6.25
			<i>For >100 To 250, Deduct</i>	-0.63	
			<i>For >250 To 500, Deduct</i>	-1.11	
			<i>For >500 To 1,000, Deduct</i>	-1.80	
			<i>For >1,000, Deduct</i>	-2.50	
			<i>For 316 Stainless Steel, Add</i>	35.42	
			<i>For Aluminum, Add</i>	1.99	
			<i>For Galvanized Steel, Add</i>	6.86	
			<i>For 304 Stainless Steel, Add</i>	31.55	
05 12 23 00-0610	LF		5" Junior I-Beam, 3.8 LB/LF.....	22.29	6.86
			<i>For >100 To 250, Deduct</i>	-0.69	
			<i>For >250 To 500, Deduct</i>	-1.24	
			<i>For >500 To 1,000, Deduct</i>	-2.03	
			<i>For >1,000, Deduct</i>	-2.82	
			<i>For 316 Stainless Steel, Add</i>	42.05	
			<i>For Aluminum, Add</i>	2.37	
			<i>For Galvanized Steel, Add</i>	8.15	
			<i>For 304 Stainless Steel, Add</i>	37.45	
05 12 23 00-0611	LF		6" Junior I-Beam, 4.4 LB/LF.....	25.18	7.47
			<i>For >100 To 250, Deduct</i>	-0.75	
			<i>For >250 To 500, Deduct</i>	-1.38	
			<i>For >500 To 1,000, Deduct</i>	-2.26	
			<i>For >1,000, Deduct</i>	-3.13	
			<i>For 316 Stainless Steel, Add</i>	48.67	
			<i>For Aluminum, Add</i>	2.74	
			<i>For Galvanized Steel, Add</i>	9.43	
			<i>For 304 Stainless Steel, Add</i>	43.35	
05 12 23 00-0612	LF		7" Junior I-Beam, 5.5 LB/LF.....	29.69	8.00
			<i>For >100 To 250, Deduct</i>	-0.80	
			<i>For >250 To 500, Deduct</i>	-1.54	
			<i>For >500 To 1,000, Deduct</i>	-2.55	
			<i>For >1,000, Deduct</i>	-3.56	
			<i>For 316 Stainless Steel, Add</i>	60.86	
			<i>For Aluminum, Add</i>	3.42	
			<i>For Galvanized Steel, Add</i>	11.79	
			<i>For 304 Stainless Steel, Add</i>	54.21	
05 12 23 00-0613	LF		8" Junior I-Beam, 6.5 LB/LF.....	33.87	8.54
			<i>For >100 To 250, Deduct</i>	-0.85	
			<i>For >250 To 500, Deduct</i>	-1.70	
			<i>For >500 To 1,000, Deduct</i>	-2.83	
			<i>For >1,000, Deduct</i>	-3.96	
			<i>For 316 Stainless Steel, Add</i>	71.94	
			<i>For Aluminum, Add</i>	4.05	
			<i>For Galvanized Steel, Add</i>	13.94	
			<i>For 304 Stainless Steel, Add</i>	64.07	
05 12 23 00-0614	LF		10" Junior I-Beam, 9 LB/LF.....	44.13	9.76
			<i>For >100 To 250, Deduct</i>	-0.98	
			<i>For >250 To 500, Deduct</i>	-2.08	
			<i>For >500 To 1,000, Deduct</i>	-3.51	
			<i>For >1,000, Deduct</i>	-4.94	
			<i>For 316 Stainless Steel, Add</i>	99.58	
			<i>For Aluminum, Add</i>	5.60	
			<i>For Galvanized Steel, Add</i>	19.29	
			<i>For 304 Stainless Steel, Add</i>	88.69	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0615	LF		12" Junior I-Beam, 11.8 LB/LF.....	56.25	11.59
			<i>For >100 To 250, Deduct</i>	-1.16	
			<i>For >250 To 500, Deduct</i>	-2.57	
			<i>For >500 To 1,000, Deduct</i>	-4.36	
			<i>For >1,000, Deduct</i>	-6.15	
			<i>For 316 Stainless Steel, Add</i>	130.56	
			<i>For Aluminum, Add</i>	7.34	
			<i>For Galvanized Steel, Add</i>	25.30	
			<i>For 304 Stainless Steel, Add</i>	116.28	
05 12 23 00-0616			Round Stock <small>(05 12 23 00-0408)</small>		
05 12 23 00-0617	LF		1/4" Carbon Steel Rounds, ASTM A108.....	2.26	
			<i>For 316 Stainless Steel, Add</i>	3.97	
			<i>For Aluminum, Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	0.77	
			<i>For 304 Stainless Steel, Add</i>	3.53	
05 12 23 00-0618	LF		3/8" Carbon Steel Rounds, ASTM A108.....	3.61	
			<i>For 316 Stainless Steel, Add</i>	7.84	
			<i>For Aluminum, Add</i>	0.44	
			<i>For Galvanized Steel, Add</i>	1.52	
			<i>For 304 Stainless Steel, Add</i>	6.98	
05 12 23 00-0619	LF		1/2" Carbon Steel Rounds, ASTM A108.....	5.00	
			<i>For 316 Stainless Steel, Add</i>	11.94	
			<i>For Aluminum, Add</i>	0.67	
			<i>For Galvanized Steel, Add</i>	2.31	
			<i>For 304 Stainless Steel, Add</i>	10.63	
05 12 23 00-0620	LF		5/8" Carbon Steel Rounds, ASTM A108.....	7.63	
			<i>For 316 Stainless Steel, Add</i>	19.90	
			<i>For Aluminum, Add</i>	1.12	
			<i>For Galvanized Steel, Add</i>	3.86	
			<i>For 304 Stainless Steel, Add</i>	17.73	
05 12 23 00-0621	LF		3/4" Carbon Steel Rounds, ASTM A108.....	9.08	
			<i>For 316 Stainless Steel, Add</i>	23.65	
			<i>For Aluminum, Add</i>	1.33	
			<i>For Galvanized Steel, Add</i>	4.58	
			<i>For 304 Stainless Steel, Add</i>	21.06	
05 12 23 00-0622	LF		7/8" Carbon Steel Rounds, ASTM A108.....	10.60	
			<i>For 316 Stainless Steel, Add</i>	27.65	
			<i>For Aluminum, Add</i>	1.56	
			<i>For Galvanized Steel, Add</i>	5.36	
			<i>For 304 Stainless Steel, Add</i>	24.62	
05 12 23 00-0623	LF		1" Carbon Steel Rounds, ASTM A108.....	15.47	
			<i>For 316 Stainless Steel, Add</i>	42.11	
			<i>For Aluminum, Add</i>	2.37	
			<i>For Galvanized Steel, Add</i>	8.16	
			<i>For 304 Stainless Steel, Add</i>	37.51	
05 12 23 00-0624	LF		1-1/8" Carbon Steel Rounds, ASTM A108.....	18.81	
			<i>For 316 Stainless Steel, Add</i>	51.17	
			<i>For Aluminum, Add</i>	2.88	
			<i>For Galvanized Steel, Add</i>	9.91	
			<i>For 304 Stainless Steel, Add</i>	45.57	
05 12 23 00-0625	LF		1-1/4" Carbon Steel Rounds, ASTM A108.....	22.45	
			<i>For 316 Stainless Steel, Add</i>	60.22	
			<i>For Aluminum, Add</i>	3.39	
			<i>For Galvanized Steel, Add</i>	11.67	
			<i>For 304 Stainless Steel, Add</i>	53.64	
05 12 23 00-0626	LF		1-3/8" Carbon Steel Rounds, ASTM A108.....	27.20	
			<i>For 316 Stainless Steel, Add</i>	73.50	
			<i>For Aluminum, Add</i>	4.13	
			<i>For Galvanized Steel, Add</i>	14.24	
			<i>For 304 Stainless Steel, Add</i>	65.46	
05 12 23 00-0627	LF		1-1/2" Carbon Steel Rounds, ASTM A108.....	30.27	
			<i>For 316 Stainless Steel, Add</i>	80.61	
			<i>For Aluminum, Add</i>	4.53	
			<i>For Galvanized Steel, Add</i>	15.62	
			<i>For 304 Stainless Steel, Add</i>	71.79	
05 12 23 00-0628	LF		1-5/8" Carbon Steel Rounds, ASTM A108.....	34.90	
			<i>For 316 Stainless Steel, Add</i>	91.36	
			<i>For Aluminum, Add</i>	5.14	
			<i>For Galvanized Steel, Add</i>	17.70	
			<i>For 304 Stainless Steel, Add</i>	81.37	
05 12 23 00-0629	LF		1-3/4" Carbon Steel Rounds, ASTM A108.....	41.70	
			<i>For 316 Stainless Steel, Add</i>	106.30	
			<i>For Aluminum, Add</i>	5.98	
			<i>For Galvanized Steel, Add</i>	20.60	
			<i>For 304 Stainless Steel, Add</i>	94.68	
05 12 23 00-0630	LF		1-7/8" Carbon Steel Rounds, ASTM A108.....	50.11	
			<i>For 316 Stainless Steel, Add</i>	124.54	
			<i>For Aluminum, Add</i>	7.01	
			<i>For Galvanized Steel, Add</i>	24.13	
			<i>For 304 Stainless Steel, Add</i>	110.92	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0631	LF		2" Carbon Steel Rounds, ASTM A108	57.21	
			For 316 Stainless Steel, Add	138.53	
			For Aluminum, Add	7.79	
			For Galvanized Steel, Add	26.84	
			For 304 Stainless Steel, Add	123.38	
05 12 23 00-0632	LF		2-1/8" Carbon Steel Rounds, ASTM A108	66.74	
			For 316 Stainless Steel, Add	158.21	
			For Aluminum, Add	8.90	
			For Galvanized Steel, Add	30.65	
			For 304 Stainless Steel, Add	140.90	
05 12 23 00-0633	LF		2-1/4" Carbon Steel Rounds, ASTM A108	75.48	
			For 316 Stainless Steel, Add	177.89	
			For Aluminum, Add	10.01	
			For Galvanized Steel, Add	34.47	
			For 304 Stainless Steel, Add	158.43	
05 12 23 00-0634	LF		2-3/8" Carbon Steel Rounds, ASTM A108	86.44	
			For 316 Stainless Steel, Add	203.46	
			For Aluminum, Add	11.44	
			For Galvanized Steel, Add	39.42	
			For 304 Stainless Steel, Add	181.20	
05 12 23 00-0635	LF		2-1/2" Carbon Steel Rounds, ASTM A108	95.36	
			For 316 Stainless Steel, Add	219.26	
			For Aluminum, Add	12.33	
			For Galvanized Steel, Add	42.48	
			For 304 Stainless Steel, Add	195.28	
05 12 23 00-0636	LF		2-5/8" Carbon Steel Rounds, ASTM A108	116.87	
			For 316 Stainless Steel, Add	278.53	
			For Aluminum, Add	15.67	
			For Galvanized Steel, Add	53.96	
			For 304 Stainless Steel, Add	248.06	
05 12 23 00-0637	LF		2-3/4" Carbon Steel Rounds, ASTM A108	133.07	
			For 316 Stainless Steel, Add	317.63	
			For Aluminum, Add	17.87	
			For Galvanized Steel, Add	61.54	
			For 304 Stainless Steel, Add	282.89	
05 12 23 00-0638	LF		2-7/8" Carbon Steel Rounds, ASTM A108	148.40	
			For 316 Stainless Steel, Add	353.95	
			For Aluminum, Add	19.91	
			For Galvanized Steel, Add	68.58	
			For 304 Stainless Steel, Add	315.24	
05 12 23 00-0639	LF		3" Carbon Steel Rounds, ASTM A108	155.69	
			For 316 Stainless Steel, Add	364.54	
			For Aluminum, Add	20.51	
			For Galvanized Steel, Add	70.63	
			For 304 Stainless Steel, Add	324.67	
05 12 23 00-0640	LF		3-1/8" Carbon Steel Rounds, ASTM A108	162.20	
			For 316 Stainless Steel, Add	372.64	
			For Aluminum, Add	20.96	
			For Galvanized Steel, Add	72.20	
			For 304 Stainless Steel, Add	331.88	
05 12 23 00-0641	LF		3-1/4" Carbon Steel Rounds, ASTM A108	170.92	
			For 316 Stainless Steel, Add	387.84	
			For Aluminum, Add	21.82	
			For Galvanized Steel, Add	75.14	
			For 304 Stainless Steel, Add	345.42	
05 12 23 00-0642	LF		3-1/2" Carbon Steel Rounds, ASTM A108	208.48	
			For 316 Stainless Steel, Add	492.13	
			For Aluminum, Add	27.68	
			For Galvanized Steel, Add	95.35	
			For 304 Stainless Steel, Add	438.30	
05 12 23 00-0643	LF		3-5/8" Carbon Steel Rounds, ASTM A108	231.71	
			For 316 Stainless Steel, Add	550.53	
			For Aluminum, Add	30.97	
			For Galvanized Steel, Add	106.66	
			For 304 Stainless Steel, Add	490.31	
05 12 23 00-0644	LF		3-3/4" Carbon Steel Rounds, ASTM A108	248.66	
			For 316 Stainless Steel, Add	588.90	
			For Aluminum, Add	33.13	
			For Galvanized Steel, Add	114.10	
			For 304 Stainless Steel, Add	524.49	
05 12 23 00-0645	LF		4" Carbon Steel Rounds, ASTM A108	279.12	
			For 316 Stainless Steel, Add	670.46	
			For Aluminum, Add	37.71	
			For Galvanized Steel, Add	129.90	
			For 304 Stainless Steel, Add	597.13	
05 12 23 00-0646			Square Stock <small>(05 12 23 00-0408)</small>		
05 12 23 00-0647	LF		3/8" Square Bar Stock	1.93	
			For 316 Stainless Steel, Add	2.46	
			For Aluminum, Add	0.14	
			For Galvanized Steel, Add	0.48	
			For 304 Stainless Steel, Add	2.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0648 LF 1/2" Square Bar Stock	2.63	
For 316 Stainless Steel, Add	4.35	
For Aluminum, Add	0.24	
For Galvanized Steel, Add	0.84	
For 304 Stainless Steel, Add	3.88	
05 12 23 00-0649 LF 5/8" Square Bar Stock	3.53	
For 316 Stainless Steel, Add	6.78	
For Aluminum, Add	0.38	
For Galvanized Steel, Add	1.31	
For 304 Stainless Steel, Add	6.04	
05 12 23 00-0650 LF 3/4" Square Bar Stock	4.75	
For 316 Stainless Steel, Add	9.79	
For Aluminum, Add	0.55	
For Galvanized Steel, Add	1.90	
For 304 Stainless Steel, Add	8.72	
05 12 23 00-0651 LF 7/8" Square Bar Stock	6.23	
For 316 Stainless Steel, Add	13.66	
For Aluminum, Add	0.77	
For Galvanized Steel, Add	2.65	
For 304 Stainless Steel, Add	12.17	
05 12 23 00-0652 LF 1" Square Bar Stock	7.77	
For 316 Stainless Steel, Add	17.47	
For Aluminum, Add	0.98	
For Galvanized Steel, Add	3.39	
For 304 Stainless Steel, Add	15.56	
05 12 23 00-0653 LF 1-1/4" Square Bar Stock	12.15	
For 316 Stainless Steel, Add	27.26	
For Aluminum, Add	1.53	
For Galvanized Steel, Add	5.28	
For 304 Stainless Steel, Add	24.28	
05 12 23 00-0654 LF 1-1/2" Square Bar Stock	17.36	
For 316 Stainless Steel, Add	39.30	
For Aluminum, Add	2.21	
For Galvanized Steel, Add	7.61	
For 304 Stainless Steel, Add	35.00	
05 12 23 00-0655 LF 1-3/4" Square Bar Stock	25.55	
For 316 Stainless Steel, Add	54.62	
For Aluminum, Add	3.07	
For Galvanized Steel, Add	10.58	
For 304 Stainless Steel, Add	48.65	
05 12 23 00-0656 LF 2" Square Bar Stock	36.06	
For 316 Stainless Steel, Add	69.86	
For Aluminum, Add	3.93	
For Galvanized Steel, Add	13.53	
For 304 Stainless Steel, Add	62.22	
 05 12 23 00-0657 Steel Tubing <small>(05 12 23 00-0408)</small>		
Note: General purpose low-carbon steel.		
05 12 23 00-0658 Square Steel Tubing <small>(05 12 23 00-0657)</small>		
05 12 23 00-0659 0.06" Wall Thickness <small>(05 12 23 00-0658)</small>		
05 12 23 00-0660 LF 1/2" x 1/2" x 0.06" Square Steel Tubing	2.74	0.54
For >100 To 250, Deduct	-0.05	
For >250 To 500, Deduct	-0.12	
For >500 To 1,000, Deduct	-0.21	
For >1,000, Deduct	-0.30	
For 316 Stainless Steel, Add	6.43	
For Aluminum, Add	0.36	
For Galvanized Steel, Add	1.25	
For 304 Stainless Steel, Add	5.73	
05 12 23 00-0661 LF 3/4" x 3/4" x 0.06" Square Steel Tubing	4.21	0.86
For >100 To 250, Deduct	-0.09	
For >250 To 500, Deduct	-0.19	
For >500 To 1,000, Deduct	-0.33	
For >1,000, Deduct	-0.46	
For 316 Stainless Steel, Add	9.79	
For Aluminum, Add	0.55	
For Galvanized Steel, Add	1.90	
For 304 Stainless Steel, Add	8.72	
05 12 23 00-0662 LF 1" x 1" x 0.06" Square Steel Tubing	5.65	1.56
For >100 To 250, Deduct	-0.12	
For >250 To 500, Deduct	-0.26	
For >500 To 1,000, Deduct	-0.44	
For >1,000, Deduct	-0.62	
For 316 Stainless Steel, Add	13.09	
For Aluminum, Add	0.74	
For Galvanized Steel, Add	2.54	
For 304 Stainless Steel, Add	11.66	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0663	LF		1-1/4" x 1-1/4" x 0.06" Square Steel Tubing.....	7.48	1.48
			<i>For >100 To 250, Deduct</i>	-0.15	
			<i>For >250 To 500, Deduct</i>	-0.34	
			<i>For >500 To 1,000, Deduct</i>	-0.57	
			<i>For >1,000, Deduct</i>	-0.81	
			<i>For 316 Stainless Steel, Add</i>	17.60	
			<i>For Aluminum, Add</i>	0.99	
			<i>For Galvanized Steel, Add</i>	3.41	
			<i>For 304 Stainless Steel, Add</i>	15.68	
05 12 23 00-0664	LF		1-1/2" x 1-1/2" x 0.06" Square Steel Tubing.....	8.85	1.79
			<i>For >100 To 250, Deduct</i>	-0.18	
			<i>For >250 To 500, Deduct</i>	-0.40	
			<i>For >500 To 1,000, Deduct</i>	-0.68	
			<i>For >1,000, Deduct</i>	-0.96	
			<i>For 316 Stainless Steel, Add</i>	20.67	
			<i>For Aluminum, Add</i>	1.16	
			<i>For Galvanized Steel, Add</i>	4.01	
			<i>For 304 Stainless Steel, Add</i>	18.41	
05 12 23 00-0665			0.083" Wall Thickness <small>(05 12 23 00-0658)</small>		
05 12 23 00-0666	LF		3/4" x 3/4" x 0.083" Square Steel Tubing.....	4.89	1.01
			<i>For >100 To 250, Deduct</i>	-0.10	
			<i>For >250 To 500, Deduct</i>	-0.22	
			<i>For >500 To 1,000, Deduct</i>	-0.38	
			<i>For >1,000, Deduct</i>	-0.53	
			<i>For 316 Stainless Steel, Add</i>	11.36	
			<i>For Aluminum, Add</i>	0.64	
			<i>For Galvanized Steel, Add</i>	2.20	
			<i>For 304 Stainless Steel, Add</i>	10.12	
05 12 23 00-0667	LF		1" x 1" x 0.083" Square Steel Tubing.....	7.14	1.38
			<i>For >100 To 250, Deduct</i>	-0.14	
			<i>For >250 To 500, Deduct</i>	-0.32	
			<i>For >500 To 1,000, Deduct</i>	-0.54	
			<i>For >1,000, Deduct</i>	-0.77	
			<i>For 316 Stainless Steel, Add</i>	16.96	
			<i>For Aluminum, Add</i>	0.95	
			<i>For Galvanized Steel, Add</i>	3.29	
			<i>For 304 Stainless Steel, Add</i>	15.11	
05 12 23 00-0668	LF		1-1/4" x 1-1/4" x 0.083" Square Steel Tubing.....	8.61	1.75
			<i>For >100 To 250, Deduct</i>	-0.18	
			<i>For >250 To 500, Deduct</i>	-0.39	
			<i>For >500 To 1,000, Deduct</i>	-0.67	
			<i>For >1,000, Deduct</i>	-0.94	
			<i>For 316 Stainless Steel, Add</i>	20.03	
			<i>For Aluminum, Add</i>	1.13	
			<i>For Galvanized Steel, Add</i>	3.88	
			<i>For 304 Stainless Steel, Add</i>	17.84	
05 12 23 00-0669	LF		1-1/2" x 1-1/2" x 0.083" Square Steel Tubing.....	10.40	2.14
			<i>For >100 To 250, Deduct</i>	-0.21	
			<i>For >250 To 500, Deduct</i>	-0.47	
			<i>For >500 To 1,000, Deduct</i>	-0.81	
			<i>For >1,000, Deduct</i>	-1.14	
			<i>For 316 Stainless Steel, Add</i>	24.16	
			<i>For Aluminum, Add</i>	1.36	
			<i>For Galvanized Steel, Add</i>	4.68	
			<i>For 304 Stainless Steel, Add</i>	21.52	
05 12 23 00-0670	LF		2" x 2" x 0.083" Square Steel Tubing.....	13.31	2.85
			<i>For >100 To 250, Deduct</i>	-0.29	
			<i>For >250 To 500, Deduct</i>	-0.62	
			<i>For >500 To 1,000, Deduct</i>	-1.05	
			<i>For >1,000, Deduct</i>	-1.47	
			<i>For 316 Stainless Steel, Add</i>	30.43	
			<i>For Aluminum, Add</i>	1.71	
			<i>For Galvanized Steel, Add</i>	5.90	
			<i>For 304 Stainless Steel, Add</i>	27.10	
05 12 23 00-0671			0.12" Wall Thickness <small>(05 12 23 00-0658)</small>		
05 12 23 00-0672	LF		1" x 1" x 0.12" Square Steel Tubing.....	7.85	1.64
			<i>For >100 To 250, Deduct</i>	-0.17	
			<i>For >250 To 500, Deduct</i>	-0.36	
			<i>For >500 To 1,000, Deduct</i>	-0.61	
			<i>For >1,000, Deduct</i>	-0.86	
			<i>For 316 Stainless Steel, Add</i>	18.08	
			<i>For Aluminum, Add</i>	1.02	
			<i>For Galvanized Steel, Add</i>	3.50	
			<i>For 304 Stainless Steel, Add</i>	16.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0673 LF 1-1/4" x 1-1/4" x 0.12" Square Steel Tubing	10.10	2.11
For >100 To 250, Deduct	-0.21	
For >250 To 500, Deduct	-0.46	
For >500 To 1,000, Deduct	-0.79	
For >1,000, Deduct	-1.11	
For 316 Stainless Steel, Add	23.33	
For Aluminum, Add	1.31	
For Galvanized Steel, Add	4.52	
For 304 Stainless Steel, Add	20.78	
05 12 23 00-0674 LF 1-1/2" x 1-1/2" x 0.12" Square Steel Tubing	12.41	2.58
For >100 To 250, Deduct	-0.26	
For >250 To 500, Deduct	-0.57	
For >500 To 1,000, Deduct	-0.96	
For >1,000, Deduct	-1.36	
For 316 Stainless Steel, Add	28.70	
For Aluminum, Add	1.61	
For Galvanized Steel, Add	5.56	
For 304 Stainless Steel, Add	25.56	
05 12 23 00-0675 LF 2" x 2" x 0.12" Square Steel Tubing	16.80	3.51
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.77	
For >500 To 1,000, Deduct	-1.31	
For >1,000, Deduct	-1.85	
For 316 Stainless Steel, Add	38.75	
For Aluminum, Add	2.18	
For Galvanized Steel, Add	7.51	
For 304 Stainless Steel, Add	34.51	
05 12 23 00-0676 1/8" Wall Thickness (05 12 23 00-0658)		
05 12 23 00-0677 LF 2" x 2" x 1/8" Square Steel Tubing	14.96	3.65
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.74	
For >500 To 1,000, Deduct	-1.24	
For >1,000, Deduct	-1.73	
For 316 Stainless Steel, Add	32.29	
For Aluminum, Add	1.82	
For Galvanized Steel, Add	6.26	
For 304 Stainless Steel, Add	28.76	
05 12 23 00-0678 LF 2-1/2" x 2-1/2" x 1/8" Square Steel Tubing	19.79	4.63
For >100 To 250, Deduct	-0.46	
For >250 To 500, Deduct	-0.96	
For >500 To 1,000, Deduct	-1.61	
For >1,000, Deduct	-2.25	
For 316 Stainless Steel, Add	43.62	
For Aluminum, Add	2.45	
For Galvanized Steel, Add	8.45	
For 304 Stainless Steel, Add	38.85	
05 12 23 00-0679 LF 3" x 3" x 1/8" Square Steel Tubing	23.14	5.59
For >100 To 250, Deduct	-0.56	
For >250 To 500, Deduct	-1.14	
For >500 To 1,000, Deduct	-1.90	
For >1,000, Deduct	-2.67	
For 316 Stainless Steel, Add	50.18	
For Aluminum, Add	2.82	
For Galvanized Steel, Add	9.72	
For 304 Stainless Steel, Add	44.69	
05 12 23 00-0680 LF 3-1/2" x 3-1/2" x 1/8" Square Steel Tubing	26.79	6.57
For >100 To 250, Deduct	-0.66	
For >250 To 500, Deduct	-1.33	
For >500 To 1,000, Deduct	-2.22	
For >1,000, Deduct	-3.10	
For 316 Stainless Steel, Add	57.70	
For Aluminum, Add	3.25	
For Galvanized Steel, Add	11.18	
For 304 Stainless Steel, Add	51.39	
05 12 23 00-0681 LF 4" x 4" x 1/8" Square Steel Tubing	29.42	7.54
For >100 To 250, Deduct	-0.75	
For >250 To 500, Deduct	-1.49	
For >500 To 1,000, Deduct	-2.48	
For >1,000, Deduct	-3.46	
For 316 Stainless Steel, Add	61.95	
For Aluminum, Add	3.48	
For Galvanized Steel, Add	12.00	
For 304 Stainless Steel, Add	55.18	

05 12 23 00-0682 3/16" Wall Thickness (05 12 23 00-0658)

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0683 LF 2" x 2" x 3/16" Square Steel Tubing.....	16.98	4.12
For >100 To 250, Deduct	-0.41	
For >250 To 500, Deduct	-0.84	
For >500 To 1,000, Deduct	-1.40	
For >1,000, Deduct	-1.96	
For 316 Stainless Steel, Add	36.77	
For Aluminum, Add	2.07	
For Galvanized Steel, Add	7.12	
For 304 Stainless Steel, Add	32.75	
05 12 23 00-0684 LF 2-1/2" x 2-1/2" x 3/16" Square Steel Tubing.....	21.97	5.33
For >100 To 250, Deduct	-0.53	
For >250 To 500, Deduct	-1.08	
For >500 To 1,000, Deduct	-1.81	
For >1,000, Deduct	-2.54	
For 316 Stainless Steel, Add	47.55	
For Aluminum, Add	2.67	
For Galvanized Steel, Add	9.21	
For 304 Stainless Steel, Add	42.35	
05 12 23 00-0685 LF 3" x 3" x 3/16" Square Steel Tubing.....	27.00	6.55
For >100 To 250, Deduct	-0.65	
For >250 To 500, Deduct	-1.33	
For >500 To 1,000, Deduct	-2.22	
For >1,000, Deduct	-3.12	
For 316 Stainless Steel, Add	58.46	
For Aluminum, Add	3.29	
For Galvanized Steel, Add	11.33	
For 304 Stainless Steel, Add	52.07	
05 12 23 00-0686 LF 3-1/2" x 3-1/2" x 3/16" Square Steel Tubing.....	32.03	7.77
For >100 To 250, Deduct	-0.78	
For >250 To 500, Deduct	-1.58	
For >500 To 1,000, Deduct	-2.64	
For >1,000, Deduct	-3.70	
For 316 Stainless Steel, Add	69.34	
For Aluminum, Add	3.90	
For Galvanized Steel, Add	13.44	
For 304 Stainless Steel, Add	61.76	
05 12 23 00-0687 LF 4" x 4" x 3/16" Square Steel Tubing.....	37.02	8.98
For >100 To 250, Deduct	-0.90	
For >250 To 500, Deduct	-1.82	
For >500 To 1,000, Deduct	-3.05	
For >1,000, Deduct	-4.27	
For 316 Stainless Steel, Add	80.16	
For Aluminum, Add	4.51	
For Galvanized Steel, Add	15.53	
For 304 Stainless Steel, Add	71.39	
05 12 23 00-0688 LF 4-1/2" x 4-1/2" x 3/16" Square Steel Tubing.....	42.05	10.20
For >100 To 250, Deduct	-1.02	
For >250 To 500, Deduct	-2.07	
For >500 To 1,000, Deduct	-3.46	
For >1,000, Deduct	-4.85	
For 316 Stainless Steel, Add	91.04	
For Aluminum, Add	5.12	
For Galvanized Steel, Add	17.64	
For 304 Stainless Steel, Add	81.08	
05 12 23 00-0689 LF 5" x 5" x 3/16" Square Steel Tubing.....	47.04	11.41
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-2.32	
For >500 To 1,000, Deduct	-3.87	
For >1,000, Deduct	-5.43	
For 316 Stainless Steel, Add	101.86	
For Aluminum, Add	5.73	
For Galvanized Steel, Add	19.73	
For 304 Stainless Steel, Add	90.72	
05 12 23 00-0690 LF 6" x 6" x 3/16" Square Steel Tubing.....	57.10	13.85
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-2.81	
For >500 To 1,000, Deduct	-4.70	
For >1,000, Deduct	-6.59	
For 316 Stainless Steel, Add	123.62	
For Aluminum, Add	6.95	
For Galvanized Steel, Add	23.95	
For 304 Stainless Steel, Add	110.10	
05 12 23 00-0691 1/4" Wall Thickness <small>(05 12 23 00-0658)</small>		
05 12 23 00-0692 LF 2" x 2" x 1/4" Square Steel Tubing.....	18.20	4.12
For >100 To 250, Deduct	-0.41	
For >250 To 500, Deduct	-0.87	
For >500 To 1,000, Deduct	-1.46	
For >1,000, Deduct	-2.05	
For 316 Stainless Steel, Add	40.64	
For Aluminum, Add	2.29	
For Galvanized Steel, Add	7.87	
For 304 Stainless Steel, Add	36.20	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0693	LF		2-1/2" x 2-1/2" x 1/4" Square Steel Tubing	23.91	5.42
			<i>For >100 To 250, Deduct</i>	-0.54	
			<i>For >250 To 500, Deduct</i>	-1.14	
			<i>For >500 To 1,000, Deduct</i>	-1.92	
			<i>For >1,000, Deduct</i>	-2.70	
			<i>For 316 Stainless Steel, Add</i>	53.38	
			<i>For Aluminum, Add</i>	3.00	
			<i>For Galvanized Steel, Add</i>	10.34	
			<i>For 304 Stainless Steel, Add</i>	47.54	
05 12 23 00-0694	LF		3" x 3" x 1/4" Square Steel Tubing.....	29.63	6.71
			<i>For >100 To 250, Deduct</i>	-0.67	
			<i>For >250 To 500, Deduct</i>	-1.41	
			<i>For >500 To 1,000, Deduct</i>	-2.38	
			<i>For >1,000, Deduct</i>	-3.34	
			<i>For 316 Stainless Steel, Add</i>	66.14	
			<i>For Aluminum, Add</i>	3.72	
			<i>For Galvanized Steel, Add</i>	12.82	
			<i>For 304 Stainless Steel, Add</i>	58.91	
05 12 23 00-0695	LF		3-1/2" x 3-1/2" x 1/4" Square Steel Tubing	35.34	8.01
			<i>For >100 To 250, Deduct</i>	-0.80	
			<i>For >250 To 500, Deduct</i>	-1.68	
			<i>For >500 To 1,000, Deduct</i>	-2.84	
			<i>For >1,000, Deduct</i>	-3.99	
			<i>For 316 Stainless Steel, Add</i>	78.91	
			<i>For Aluminum, Add</i>	4.44	
			<i>For Galvanized Steel, Add</i>	15.29	
			<i>For 304 Stainless Steel, Add</i>	70.28	
05 12 23 00-0696	LF		4" x 4" x 1/4" Square Steel Tubing.....	41.07	9.31
			<i>For >100 To 250, Deduct</i>	-0.93	
			<i>For >250 To 500, Deduct</i>	-1.96	
			<i>For >500 To 1,000, Deduct</i>	-3.30	
			<i>For >1,000, Deduct</i>	-4.63	
			<i>For 316 Stainless Steel, Add</i>	91.68	
			<i>For Aluminum, Add</i>	5.16	
			<i>For Galvanized Steel, Add</i>	17.76	
			<i>For 304 Stainless Steel, Add</i>	81.65	
05 12 23 00-0697	LF		4-1/2" x 4-1/2" x 1/4" Square Steel Tubing	46.78	10.60
			<i>For >100 To 250, Deduct</i>	-1.06	
			<i>For >250 To 500, Deduct</i>	-2.23	
			<i>For >500 To 1,000, Deduct</i>	-3.75	
			<i>For >1,000, Deduct</i>	-5.28	
			<i>For 316 Stainless Steel, Add</i>	104.45	
			<i>For Aluminum, Add</i>	5.88	
			<i>For Galvanized Steel, Add</i>	20.24	
			<i>For 304 Stainless Steel, Add</i>	93.02	
05 12 23 00-0698	LF		5" x 5" x 1/4" Square Steel Tubing.....	52.54	11.91
			<i>For >100 To 250, Deduct</i>	-1.19	
			<i>For >250 To 500, Deduct</i>	-2.51	
			<i>For >500 To 1,000, Deduct</i>	-4.22	
			<i>For >1,000, Deduct</i>	-5.93	
			<i>For 316 Stainless Steel, Add</i>	117.28	
			<i>For Aluminum, Add</i>	6.60	
			<i>For Galvanized Steel, Add</i>	22.72	
			<i>For 304 Stainless Steel, Add</i>	104.45	
05 12 23 00-0699	LF		6" x 6" x 1/4" Square Steel Tubing.....	63.97	14.50
			<i>For >100 To 250, Deduct</i>	-1.45	
			<i>For >250 To 500, Deduct</i>	-3.05	
			<i>For >500 To 1,000, Deduct</i>	-5.13	
			<i>For >1,000, Deduct</i>	-7.22	
			<i>For 316 Stainless Steel, Add</i>	142.82	
			<i>For Aluminum, Add</i>	8.03	
			<i>For Galvanized Steel, Add</i>	27.67	
			<i>For 304 Stainless Steel, Add</i>	127.20	
05 12 23 00-0700			Rectangular Steel Tubing <small>(05 12 23 00-0657)</small>		
05 12 23 00-0701			3/16" Wall Thickness <small>(05 12 23 00-0700)</small>		
05 12 23 00-0702	LF		3" x 2" x 3/16" Square Steel Tubing.....	21.97	5.33
			<i>For >100 To 250, Deduct</i>	-0.53	
			<i>For >250 To 500, Deduct</i>	-1.08	
			<i>For >500 To 1,000, Deduct</i>	-1.81	
			<i>For >1,000, Deduct</i>	-2.54	
			<i>For 316 Stainless Steel, Add</i>	47.55	
			<i>For Aluminum, Add</i>	2.67	
			<i>For Galvanized Steel, Add</i>	9.21	
			<i>For 304 Stainless Steel, Add</i>	42.35	
05 12 23 00-0703	LF		4" x 2" x 3/16" Square Steel Tubing.....	27.00	6.55
			<i>For >100 To 250, Deduct</i>	-0.65	
			<i>For >250 To 500, Deduct</i>	-1.33	
			<i>For >500 To 1,000, Deduct</i>	-2.22	
			<i>For >1,000, Deduct</i>	-3.12	
			<i>For 316 Stainless Steel, Add</i>	58.46	
			<i>For Aluminum, Add</i>	3.29	
			<i>For Galvanized Steel, Add</i>	11.33	
			<i>For 304 Stainless Steel, Add</i>	52.07	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0704	LF		4" x 3" x 3/16" Square Steel Tubing.....	32.03	7.77
			<i>For >100 To 250, Deduct</i>	-0.78	
			<i>For >250 To 500, Deduct</i>	-1.58	
			<i>For >500 To 1,000, Deduct</i>	-2.64	
			<i>For >1,000, Deduct</i>	-3.70	
			<i>For 316 Stainless Steel, Add</i>	69.34	
			<i>For Aluminum, Add</i>	3.90	
			<i>For Galvanized Steel, Add</i>	13.44	
			<i>For 304 Stainless Steel, Add</i>	61.76	
05 12 23 00-0705	LF		5" x 2" x 3/16" Square Steel Tubing.....	32.03	7.77
			<i>For >100 To 250, Deduct</i>	-0.78	
			<i>For >250 To 500, Deduct</i>	-1.58	
			<i>For >500 To 1,000, Deduct</i>	-2.64	
			<i>For >1,000, Deduct</i>	-3.70	
			<i>For 316 Stainless Steel, Add</i>	69.34	
			<i>For Aluminum, Add</i>	3.90	
			<i>For Galvanized Steel, Add</i>	13.44	
			<i>For 304 Stainless Steel, Add</i>	61.76	
05 12 23 00-0706	LF		5" x 3" x 3/16" Square Steel Tubing.....	37.02	8.98
			<i>For >100 To 250, Deduct</i>	-0.90	
			<i>For >250 To 500, Deduct</i>	-1.82	
			<i>For >500 To 1,000, Deduct</i>	-3.05	
			<i>For >1,000, Deduct</i>	-4.27	
			<i>For 316 Stainless Steel, Add</i>	80.16	
			<i>For Aluminum, Add</i>	4.51	
			<i>For Galvanized Steel, Add</i>	15.53	
			<i>For 304 Stainless Steel, Add</i>	71.39	
05 12 23 00-0707	LF		5" x 4" x 3/16" Square Steel Tubing.....	42.05	10.20
			<i>For >100 To 250, Deduct</i>	-1.02	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500 To 1,000, Deduct</i>	-3.46	
			<i>For >1,000, Deduct</i>	-4.85	
			<i>For 316 Stainless Steel, Add</i>	91.04	
			<i>For Aluminum, Add</i>	5.12	
			<i>For Galvanized Steel, Add</i>	17.64	
			<i>For 304 Stainless Steel, Add</i>	81.08	
05 12 23 00-0708	LF		6" x 2" x 3/16" Square Steel Tubing.....	37.02	8.98
			<i>For >100 To 250, Deduct</i>	-0.90	
			<i>For >250 To 500, Deduct</i>	-1.82	
			<i>For >500 To 1,000, Deduct</i>	-3.05	
			<i>For >1,000, Deduct</i>	-4.27	
			<i>For 316 Stainless Steel, Add</i>	80.16	
			<i>For Aluminum, Add</i>	4.51	
			<i>For Galvanized Steel, Add</i>	15.53	
			<i>For 304 Stainless Steel, Add</i>	71.39	
05 12 23 00-0709	LF		6" x 3" x 3/16" Square Steel Tubing.....	42.05	10.20
			<i>For >100 To 250, Deduct</i>	-1.02	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500 To 1,000, Deduct</i>	-3.46	
			<i>For >1,000, Deduct</i>	-4.85	
			<i>For 316 Stainless Steel, Add</i>	91.04	
			<i>For Aluminum, Add</i>	5.12	
			<i>For Galvanized Steel, Add</i>	17.64	
			<i>For 304 Stainless Steel, Add</i>	81.08	
05 12 23 00-0710	LF		6" x 4" x 3/16" Square Steel Tubing.....	47.04	11.41
			<i>For >100 To 250, Deduct</i>	-1.14	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500 To 1,000, Deduct</i>	-3.87	
			<i>For >1,000, Deduct</i>	-5.43	
			<i>For 316 Stainless Steel, Add</i>	101.86	
			<i>For Aluminum, Add</i>	5.73	
			<i>For Galvanized Steel, Add</i>	19.73	
			<i>For 304 Stainless Steel, Add</i>	90.72	
05 12 23 00-0711			1/4" Wall Thickness (05 12 23 00-0700)		
05 12 23 00-0712	LF		3" x 2" x 1/4" Square Steel Tubing.....	23.91	5.42
			<i>For >100 To 250, Deduct</i>	-0.54	
			<i>For >250 To 500, Deduct</i>	-1.14	
			<i>For >500 To 1,000, Deduct</i>	-1.92	
			<i>For >1,000, Deduct</i>	-2.70	
			<i>For 316 Stainless Steel, Add</i>	53.38	
			<i>For Aluminum, Add</i>	3.00	
			<i>For Galvanized Steel, Add</i>	10.34	
			<i>For 304 Stainless Steel, Add</i>	47.54	
05 12 23 00-0713	LF		4" x 2" x 1/4" Square Steel Tubing.....	29.63	6.71
			<i>For >100 To 250, Deduct</i>	-0.67	
			<i>For >250 To 500, Deduct</i>	-1.41	
			<i>For >500 To 1,000, Deduct</i>	-2.38	
			<i>For >1,000, Deduct</i>	-3.34	
			<i>For 316 Stainless Steel, Add</i>	66.14	
			<i>For Aluminum, Add</i>	3.72	
			<i>For Galvanized Steel, Add</i>	12.82	
			<i>For 304 Stainless Steel, Add</i>	58.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0714 LF 4" x 3" x 1/4" Square Steel Tubing.....	35.34	8.01
For >100 To 250, Deduct	-0.80	
For >250 To 500, Deduct	-1.68	
For >500 To 1,000, Deduct	-2.84	
For >1,000, Deduct	-3.99	
For 316 Stainless Steel, Add	78.91	
For Aluminum, Add	4.44	
For Galvanized Steel, Add	15.29	
For 304 Stainless Steel, Add	70.28	
05 12 23 00-0715 LF 5" x 2" x 1/4" Square Steel Tubing.....	35.34	8.01
For >100 To 250, Deduct	-0.80	
For >250 To 500, Deduct	-1.68	
For >500 To 1,000, Deduct	-2.84	
For >1,000, Deduct	-3.99	
For 316 Stainless Steel, Add	78.91	
For Aluminum, Add	4.44	
For Galvanized Steel, Add	15.29	
For 304 Stainless Steel, Add	70.28	
05 12 23 00-0716 LF 5" x 3" x 1/4" Square Steel Tubing.....	41.07	9.31
For >100 To 250, Deduct	-0.93	
For >250 To 500, Deduct	-1.96	
For >500 To 1,000, Deduct	-3.30	
For >1,000, Deduct	-4.63	
For 316 Stainless Steel, Add	91.68	
For Aluminum, Add	5.16	
For Galvanized Steel, Add	17.76	
For 304 Stainless Steel, Add	81.65	
05 12 23 00-0717 LF 5" x 4" x 1/4" Square Steel Tubing.....	46.78	10.60
For >100 To 250, Deduct	-1.06	
For >250 To 500, Deduct	-2.23	
For >500 To 1,000, Deduct	-3.75	
For >1,000, Deduct	-5.28	
For 316 Stainless Steel, Add	104.45	
For Aluminum, Add	5.88	
For Galvanized Steel, Add	20.24	
For 304 Stainless Steel, Add	93.02	
05 12 23 00-0718 LF 6" x 2" x 1/4" Square Steel Tubing.....	41.07	9.31
For >100 To 250, Deduct	-0.93	
For >250 To 500, Deduct	-1.96	
For >500 To 1,000, Deduct	-3.30	
For >1,000, Deduct	-4.63	
For 316 Stainless Steel, Add	91.68	
For Aluminum, Add	5.16	
For Galvanized Steel, Add	17.76	
For 304 Stainless Steel, Add	81.65	
05 12 23 00-0719 LF 6" x 3" x 1/4" Square Steel Tubing.....	46.78	10.60
For >100 To 250, Deduct	-1.06	
For >250 To 500, Deduct	-2.23	
For >500 To 1,000, Deduct	-3.75	
For >1,000, Deduct	-5.28	
For 316 Stainless Steel, Add	104.45	
For Aluminum, Add	5.88	
For Galvanized Steel, Add	20.24	
For 304 Stainless Steel, Add	93.02	
05 12 23 00-0720 LF 6" x 4" x 1/4" Square Steel Tubing.....	52.54	11.91
For >100 To 250, Deduct	-1.19	
For >250 To 500, Deduct	-2.51	
For >500 To 1,000, Deduct	-4.22	
For >1,000, Deduct	-5.93	
For 316 Stainless Steel, Add	117.28	
For Aluminum, Add	6.60	
For Galvanized Steel, Add	22.72	
For 304 Stainless Steel, Add	104.45	
05 12 23 00-0721 Round Steel Tubing <small>(05 12 23 00-0657)</small>		
05 12 23 00-0722 0.065" Wall Thickness <small>(05 12 23 00-0721)</small>		
05 12 23 00-0723 LF 1" Diameter x 0.065" Round Steel Tubing.....	4.89	0.99
For >100 To 250, Deduct	-0.10	
For >250 To 500, Deduct	-0.22	
For >500 To 1,000, Deduct	-0.38	
For >1,000, Deduct	-0.53	
For 316 Stainless Steel, Add	11.42	
For Aluminum, Add	0.64	
For Galvanized Steel, Add	2.21	
For 304 Stainless Steel, Add	10.17	
05 12 23 00-0724 LF 1-1/4" Diameter x 0.065" Round Steel Tubing.....	6.19	1.26
For >100 To 250, Deduct	-0.13	
For >250 To 500, Deduct	-0.28	
For >500 To 1,000, Deduct	-0.48	
For >1,000, Deduct	-0.67	
For 316 Stainless Steel, Add	14.46	
For Aluminum, Add	0.81	
For Galvanized Steel, Add	2.80	
For 304 Stainless Steel, Add	12.88	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0725	LF		1-1/2" Diameter x 0.065" Round Steel Tubing	7.50	1.52
			<i>For >100 To 250, Deduct</i>	-0.15	
			<i>For >250 To 500, Deduct</i>	-0.34	
			<i>For >500 To 1,000, Deduct</i>	-0.58	
			<i>For >1,000, Deduct</i>	-0.82	
			<i>For 316 Stainless Steel, Add</i>	17.50	
			<i>For Aluminum, Add</i>	0.98	
			<i>For Galvanized Steel, Add</i>	3.39	
			<i>For 304 Stainless Steel, Add</i>	15.59	
05 12 23 00-0726	LF		2" Diameter x 0.065" Round Steel Tubing	10.11	2.05
			<i>For >100 To 250, Deduct</i>	-0.20	
			<i>For >250 To 500, Deduct</i>	-0.46	
			<i>For >500 To 1,000, Deduct</i>	-0.78	
			<i>For >1,000, Deduct</i>	-1.10	
			<i>For 316 Stainless Steel, Add</i>	23.62	
			<i>For Aluminum, Add</i>	1.33	
			<i>For Galvanized Steel, Add</i>	4.58	
			<i>For 304 Stainless Steel, Add</i>	21.03	
05 12 23 00-0727	LF		2-1/2" Diameter x 0.065" Round Steel Tubing	12.73	2.58
			<i>For >100 To 250, Deduct</i>	-0.26	
			<i>For >250 To 500, Deduct</i>	-0.58	
			<i>For >500 To 1,000, Deduct</i>	-0.98	
			<i>For >1,000, Deduct</i>	-1.38	
			<i>For 316 Stainless Steel, Add</i>	29.73	
			<i>For Aluminum, Add</i>	1.67	
			<i>For Galvanized Steel, Add</i>	5.76	
			<i>For 304 Stainless Steel, Add</i>	26.48	
05 12 23 00-0728	LF		3" Diameter x 0.065" Round Steel Tubing	15.34	3.10
			<i>For >100 To 250, Deduct</i>	-0.31	
			<i>For >250 To 500, Deduct</i>	-0.69	
			<i>For >500 To 1,000, Deduct</i>	-1.18	
			<i>For >1,000, Deduct</i>	-1.67	
			<i>For 316 Stainless Steel, Add</i>	35.84	
			<i>For Aluminum, Add</i>	2.02	
			<i>For Galvanized Steel, Add</i>	6.94	
			<i>For 304 Stainless Steel, Add</i>	31.92	
05 12 23 00-0729	LF		3-1/2" Diameter x 0.065" Round Steel Tubing	17.96	3.64
			<i>For >100 To 250, Deduct</i>	-0.36	
			<i>For >250 To 500, Deduct</i>	-0.81	
			<i>For >500 To 1,000, Deduct</i>	-1.38	
			<i>For >1,000, Deduct</i>	-1.95	
			<i>For 316 Stainless Steel, Add</i>	41.95	
			<i>For Aluminum, Add</i>	2.36	
			<i>For Galvanized Steel, Add</i>	8.13	
			<i>For 304 Stainless Steel, Add</i>	37.36	
05 12 23 00-0730	LF		4" Diameter x 0.065" Round Steel Tubing	20.57	4.16
			<i>For >100 To 250, Deduct</i>	-0.42	
			<i>For >250 To 500, Deduct</i>	-0.93	
			<i>For >500 To 1,000, Deduct</i>	-1.58	
			<i>For >1,000, Deduct</i>	-2.24	
			<i>For 316 Stainless Steel, Add</i>	48.06	
			<i>For Aluminum, Add</i>	2.70	
			<i>For Galvanized Steel, Add</i>	9.31	
			<i>For 304 Stainless Steel, Add</i>	42.81	
05 12 23 00-0731			0.083" Wall Thickness (05 12 23 00-0721)	5.31	1.09
05 12 23 00-0732	LF		1" Diameter x 0.083" Round Steel Tubing	5.31	1.09
			<i>For >100 To 250, Deduct</i>	-0.11	
			<i>For >250 To 500, Deduct</i>	-0.24	
			<i>For >500 To 1,000, Deduct</i>	-0.41	
			<i>For >1,000, Deduct</i>	-0.58	
			<i>For 316 Stainless Steel, Add</i>	12.35	
			<i>For Aluminum, Add</i>	0.69	
			<i>For Galvanized Steel, Add</i>	2.39	
			<i>For 304 Stainless Steel, Add</i>	11.00	
05 12 23 00-0733	LF		1-1/4" Diameter x 0.083" Round Steel Tubing	6.75	1.38
			<i>For >100 To 250, Deduct</i>	-0.14	
			<i>For >250 To 500, Deduct</i>	-0.31	
			<i>For >500 To 1,000, Deduct</i>	-0.52	
			<i>For >1,000, Deduct</i>	-0.74	
			<i>For 316 Stainless Steel, Add</i>	15.71	
			<i>For Aluminum, Add</i>	0.88	
			<i>For Galvanized Steel, Add</i>	3.04	
			<i>For 304 Stainless Steel, Add</i>	13.99	
05 12 23 00-0734	LF		1-1/2" Diameter x 0.083" Round Steel Tubing	8.20	1.67
			<i>For >100 To 250, Deduct</i>	-0.17	
			<i>For >250 To 500, Deduct</i>	-0.37	
			<i>For >500 To 1,000, Deduct</i>	-0.63	
			<i>For >1,000, Deduct</i>	-0.90	
			<i>For 316 Stainless Steel, Add</i>	19.07	
			<i>For Aluminum, Add</i>	1.07	
			<i>For Galvanized Steel, Add</i>	3.70	
			<i>For 304 Stainless Steel, Add</i>	16.99	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0735 LF 2" Diameter x 0.083" Round Steel Tubing	11.09	2.27
For >100 To 250, Deduct	-0.23	
For >250 To 500, Deduct	-0.50	
For >500 To 1,000, Deduct	-0.86	
For >1,000, Deduct	-1.21	
For 316 Stainless Steel, Add	25.82	
For Aluminum, Add	1.45	
For Galvanized Steel, Add	5.00	
For 304 Stainless Steel, Add	23.00	
05 12 23 00-0736 LF 2-1/2" Diameter x 0.083" Round Steel Tubing	13.99	2.86
For >100 To 250, Deduct	-0.29	
For >250 To 500, Deduct	-0.64	
For >500 To 1,000, Deduct	-1.08	
For >1,000, Deduct	-1.53	
For 316 Stainless Steel, Add	32.58	
For Aluminum, Add	1.83	
For Galvanized Steel, Add	6.31	
For 304 Stainless Steel, Add	29.01	
05 12 23 00-0737 LF 3" Diameter x 0.083" Round Steel Tubing	16.88	3.45
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.77	
For >500 To 1,000, Deduct	-1.30	
For >1,000, Deduct	-1.84	
For 316 Stainless Steel, Add	39.30	
For Aluminum, Add	2.21	
For Galvanized Steel, Add	7.61	
For 304 Stainless Steel, Add	35.00	
05 12 23 00-0738 LF 3-1/2" Diameter x 0.083" Round Steel Tubing	19.77	4.04
For >100 To 250, Deduct	-0.40	
For >250 To 500, Deduct	-0.90	
For >500 To 1,000, Deduct	-1.53	
For >1,000, Deduct	-2.16	
For 316 Stainless Steel, Add	46.02	
For Aluminum, Add	2.59	
For Galvanized Steel, Add	8.92	
For 304 Stainless Steel, Add	40.98	
05 12 23 00-0739 LF 4" Diameter x 0.083" Round Steel Tubing	22.67	4.64
For >100 To 250, Deduct	-0.46	
For >250 To 500, Deduct	-1.03	
For >500 To 1,000, Deduct	-1.75	
For >1,000, Deduct	-2.47	
For 316 Stainless Steel, Add	52.77	
For Aluminum, Add	2.97	
For Galvanized Steel, Add	10.22	
For 304 Stainless Steel, Add	47.00	
05 12 23 00-0740 0.125" Wall Thickness <small>(05 12 23 00-0721)</small>		
05 12 23 00-0741 LF 2" Diameter x 0.125" Round Steel Tubing	11.74	2.86
For >100 To 250, Deduct	-0.29	
For >250 To 500, Deduct	-0.58	
For >500 To 1,000, Deduct	-0.97	
For >1,000, Deduct	-1.36	
For 316 Stainless Steel, Add	25.34	
For Aluminum, Add	1.43	
For Galvanized Steel, Add	4.91	
For 304 Stainless Steel, Add	22.57	
05 12 23 00-0742 LF 2-1/2" Diameter x 0.125" Round Steel Tubing	14.87	3.63
For >100 To 250, Deduct	-0.36	
For >250 To 500, Deduct	-0.73	
For >500 To 1,000, Deduct	-1.23	
For >1,000, Deduct	-1.72	
For 316 Stainless Steel, Add	32.10	
For Aluminum, Add	1.81	
For Galvanized Steel, Add	6.22	
For 304 Stainless Steel, Add	28.59	
05 12 23 00-0743 LF 3" Diameter x 0.125" Round Steel Tubing	18.00	4.39
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.89	
For >500 To 1,000, Deduct	-1.49	
For >1,000, Deduct	-2.08	
For 316 Stainless Steel, Add	38.85	
For Aluminum, Add	2.19	
For Galvanized Steel, Add	7.53	
For 304 Stainless Steel, Add	34.60	
05 12 23 00-0744 LF 3-1/2" Diameter x 0.125" Round Steel Tubing	21.12	5.15
For >100 To 250, Deduct	-0.52	
For >250 To 500, Deduct	-1.04	
For >500 To 1,000, Deduct	-1.74	
For >1,000, Deduct	-2.44	
For 316 Stainless Steel, Add	45.60	
For Aluminum, Add	2.57	
For Galvanized Steel, Add	8.84	
For 304 Stainless Steel, Add	40.61	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0745	LF		4" Diameter x 0.125" Round Steel Tubing	24.25	5.92
			<i>For >100 To 250, Deduct</i>	-0.59	
			<i>For >250 To 500, Deduct</i>	-1.20	
			<i>For >500 To 1,000, Deduct</i>	-2.00	
			<i>For >1,000, Deduct</i>	-2.81	
			<i>For 316 Stainless Steel, Add</i>	52.35	
			<i>For Aluminum, Add</i>	2.94	
			<i>For Galvanized Steel, Add</i>	10.14	
			<i>For 304 Stainless Steel, Add</i>	46.63	
05 12 23 00-0746			Flat Steel Bar (05 12 23 00-0408)		
05 12 23 00-0747			1/8" Thick (05 12 23 00-0746)		
05 12 23 00-0748	LF		1/8" Thick x 1" Wide Flat Steel Bar	3.18	1.42
			<i>For 316 Stainless Steel, Add</i>	3.33	
			<i>For Aluminum, Add</i>	0.19	
			<i>For Galvanized Steel, Add</i>	0.64	
			<i>For 304 Stainless Steel, Add</i>	2.96	
05 12 23 00-0749	LF		1/8" Thick x 2" Wide Flat Steel Bar	4.94	2.14
			<i>For 316 Stainless Steel, Add</i>	5.54	
			<i>For Aluminum, Add</i>	0.31	
			<i>For Galvanized Steel, Add</i>	1.07	
			<i>For 304 Stainless Steel, Add</i>	4.93	
05 12 23 00-0750	LF		1/8" Thick x 4" Wide Flat Steel Bar	7.66	3.01
			<i>For 316 Stainless Steel, Add</i>	10.05	
			<i>For Aluminum, Add</i>	0.57	
			<i>For Galvanized Steel, Add</i>	1.95	
			<i>For 304 Stainless Steel, Add</i>	8.95	
05 12 23 00-0751	LF		1/8" Thick x 6" Wide Flat Steel Bar	10.38	4.09
			<i>For 316 Stainless Steel, Add</i>	13.60	
			<i>For Aluminum, Add</i>	0.77	
			<i>For Galvanized Steel, Add</i>	2.64	
			<i>For 304 Stainless Steel, Add</i>	12.11	
05 12 23 00-0752			3/16" Thick (05 12 23 00-0746)		
05 12 23 00-0753	LF		3/16" Thick x 1" Wide Flat Steel Bar	4.23	1.77
			<i>For 316 Stainless Steel, Add</i>	5.06	
			<i>For Aluminum, Add</i>	0.28	
			<i>For Galvanized Steel, Add</i>	0.98	
			<i>For 304 Stainless Steel, Add</i>	4.50	
05 12 23 00-0754	LF		3/16" Thick x 2" Wide Flat Steel Bar	6.71	2.65
			<i>For 316 Stainless Steel, Add</i>	8.74	
			<i>For Aluminum, Add</i>	0.49	
			<i>For Galvanized Steel, Add</i>	1.69	
			<i>For 304 Stainless Steel, Add</i>	7.78	
05 12 23 00-0755	LF		3/16" Thick x 4" Wide Flat Steel Bar	9.19	3.05
			<i>For 316 Stainless Steel, Add</i>	14.75	
			<i>For Aluminum, Add</i>	0.83	
			<i>For Galvanized Steel, Add</i>	2.86	
			<i>For 304 Stainless Steel, Add</i>	13.14	
05 12 23 00-0756	LF		3/16" Thick x 6" Wide Flat Steel Bar	12.71	4.23
			<i>For 316 Stainless Steel, Add</i>	20.38	
			<i>For Aluminum, Add</i>	1.15	
			<i>For Galvanized Steel, Add</i>	3.95	
			<i>For 304 Stainless Steel, Add</i>	18.15	
05 12 23 00-0757			1/4" Thick (05 12 23 00-0746)		
05 12 23 00-0758	LF		1/4" Thick x 1" Wide Flat Steel Bar	4.36	1.87
			<i>For 316 Stainless Steel, Add</i>	4.99	
			<i>For Aluminum, Add</i>	0.28	
			<i>For Galvanized Steel, Add</i>	0.97	
			<i>For 304 Stainless Steel, Add</i>	4.45	
05 12 23 00-0759	LF		1/4" Thick x 2" Wide Flat Steel Bar	7.37	2.80
			<i>For 316 Stainless Steel, Add</i>	10.11	
			<i>For Aluminum, Add</i>	0.57	
			<i>For Galvanized Steel, Add</i>	1.96	
			<i>For 304 Stainless Steel, Add</i>	9.01	
05 12 23 00-0760	LF		1/4" Thick x 4" Wide Flat Steel Bar	10.93	3.21
			<i>For 316 Stainless Steel, Add</i>	19.58	
			<i>For Aluminum, Add</i>	1.10	
			<i>For Galvanized Steel, Add</i>	3.79	
			<i>For 304 Stainless Steel, Add</i>	17.44	
05 12 23 00-0761	LF		1/4" Thick x 6" Wide Flat Steel Bar	15.79	4.74
			<i>For 316 Stainless Steel, Add</i>	27.74	
			<i>For Aluminum, Add</i>	1.56	
			<i>For Galvanized Steel, Add</i>	5.38	
			<i>For 304 Stainless Steel, Add</i>	24.71	
05 12 23 00-0762			3/8" Thick (05 12 23 00-0746)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0763 LF 3/8" Thick x 1" Wide Flat Steel Bar	5.61	2.11
For 316 Stainless Steel, Add	7.84	
For Aluminum, Add	0.44	
For Galvanized Steel, Add	1.52	
For 304 Stainless Steel, Add	6.98	
05 12 23 00-0764 LF 3/8" Thick x 2" Wide Flat Steel Bar	9.27	3.15
For 316 Stainless Steel, Add	14.50	
For Aluminum, Add	0.82	
For Galvanized Steel, Add	2.81	
For 304 Stainless Steel, Add	12.91	
05 12 23 00-0765 LF 3/8" Thick x 4" Wide Flat Steel Bar	14.46	3.60
For 316 Stainless Steel, Add	28.96	
For Aluminum, Add	1.63	
For Galvanized Steel, Add	5.61	
For 304 Stainless Steel, Add	25.79	
05 12 23 00-0766 LF 3/8" Thick x 6" Wide Flat Steel Bar	20.75	5.33
For 316 Stainless Steel, Add	40.77	
For Aluminum, Add	2.29	
For Galvanized Steel, Add	7.90	
For 304 Stainless Steel, Add	36.31	
05 12 23 00-0767 1/2" Thick <small>(05 12 23 00-0746)</small>		
05 12 23 00-0768 LF 1/2" Thick x 1" Wide Flat Steel Bar	6.62	2.31
For 316 Stainless Steel, Add	10.05	
For Aluminum, Add	0.57	
For Galvanized Steel, Add	1.95	
For 304 Stainless Steel, Add	8.95	
05 12 23 00-0769 LF 1/2" Thick x 2" Wide Flat Steel Bar	10.99	3.48
For 316 Stainless Steel, Add	18.50	
For Aluminum, Add	1.04	
For Galvanized Steel, Add	3.58	
For 304 Stainless Steel, Add	16.47	
05 12 23 00-0770 LF 1/2" Thick x 4" Wide Flat Steel Bar	15.79	3.95
For 316 Stainless Steel, Add	31.49	
For Aluminum, Add	1.77	
For Galvanized Steel, Add	6.10	
For 304 Stainless Steel, Add	28.04	
05 12 23 00-0771 LF 1/2" Thick x 6" Wide Flat Steel Bar	28.44	5.87
For 316 Stainless Steel, Add	62.82	
For Aluminum, Add	3.53	
For Galvanized Steel, Add	12.17	
For 304 Stainless Steel, Add	55.95	
05 12 23 00-0772 Flat Steel Plate <small>(05 12 23 00-0408)</small>		
05 12 23 00-0773 SF 1/8" Thick Flat Steel Plate	16.61	6.13
For 316 Stainless Steel, Add	23.71	
For Aluminum, Add	1.33	
For Galvanized Steel, Add	4.59	
For 304 Stainless Steel, Add	21.12	
05 12 23 00-0774 SF 3/16" Thick Flat Steel Plate	18.80	6.34
For 316 Stainless Steel, Add	29.66	
For Aluminum, Add	1.67	
For Galvanized Steel, Add	5.75	
For 304 Stainless Steel, Add	26.42	
05 12 23 00-0775 SF 1/4" Thick Flat Steel Plate	22.49	7.11
For 316 Stainless Steel, Add	37.82	
For Aluminum, Add	2.13	
For Galvanized Steel, Add	7.33	
For 304 Stainless Steel, Add	33.69	
05 12 23 00-0776 SF 3/8" Thick Flat Steel Plate	30.55	8.00
For 316 Stainless Steel, Add	59.36	
For Aluminum, Add	3.34	
For Galvanized Steel, Add	11.50	
For 304 Stainless Steel, Add	52.87	
05 12 23 00-0777 SF 1/2" Thick Flat Steel Plate	36.31	8.80
For 316 Stainless Steel, Add	73.95	
For Aluminum, Add	4.16	
For Galvanized Steel, Add	14.33	
For 304 Stainless Steel, Add	65.86	
05 12 23 00-0778 SF 3/4" Thick Flat Steel Plate	59.84	10.90
For 316 Stainless Steel, Add	138.66	
For Aluminum, Add	7.80	
For Galvanized Steel, Add	26.86	
For 304 Stainless Steel, Add	123.49	
05 12 23 00-0779 SF 1" Thick Flat Steel Plate	79.96	13.62
For 316 Stainless Steel, Add	189.86	
For Aluminum, Add	10.68	
For Galvanized Steel, Add	36.78	
For 304 Stainless Steel, Add	169.09	

05 14 Structural Aluminum Framing (05 10)

05	05 Metals
	05 10 Structural Metal Framing
	05 14 Structural Aluminum Framing



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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05 14 13 Architecturally-Exposed Structural Aluminum Framing (05 14)

05 14 13 00-0001	Rolled Or Plate Shapes (05 14 13) Note: 1" through 10" member.		
05 14 13 00-0002	LB Structural Aluminum, Up To 2,000 LB / Order 1" To 10" Rolled / Plate Structural Members	6.20	0.84
05 14 13 00-0003	LB Structural Aluminum, >2,000 - 9,999 LB / Order 1" To 10" Rolled / Plate Structural Members	5.48	0.78
05 14 13 00-0004	Aluminum Extrusions (05 14 13)		
05 14 13 00-0005	LB Aluminum Extrusions, Stock Shapes 1" To 10" Rolled / Plate Structural Members	11.18	3.48
05 14 13 00-0006	LB Aluminum Extrusions, Custom Shapes 1" To 10" Rolled / Plate Structural Members	11.72	3.48
05 14 13 00-0007	Aluminum Tubing (05 14 13)		
05 14 13 00-0008	LB Aluminum Extrusions, Tubular Shapes 1" To 10" Rolled / Plate Structural Members	9.64	3.48
05 14 13 00-0009	LF 1" x 1" Aluminum Tubing, 1/8" Wall Thickness	9.64	5.59
05 14 13 00-0010	LF 1-1/4" x 1-1/4" Aluminum Tubing, 1/8" Wall Thickness	11.39	6.10
05 14 13 00-0011	LF 1-1/2" x 1-1/2" Aluminum Tubing, 1/8" Wall Thickness	13.13	7.12
05 14 13 00-0012	LF 2" x 2" Aluminum Tubing, 1/8" Wall Thickness	15.27	7.63
05 14 13 00-0013	LF 4" x 4" Aluminum Tubing, 1/4" Wall Thickness	39.40	9.66
05 14 13 00-0014	LF 2" x 5" Aluminum Tubing, 1/4" Wall Thickness	32.57	8.64
05 14 13 00-0015	Columns (05 14 13) Note: Baked on paint finish, load bearing.		
05 14 13 00-0016	Round Columns (05 14 13 00-0015)		
05 14 13 00-0017	LF 6" Diameter Aluminum Column	37.55	6.66
05 14 13 00-0018	LF 8" Diameter Aluminum Column	49.91	9.55
05 14 13 00-0019	LF 10" Diameter Aluminum Column	60.33	10.74
05 14 13 00-0020	LF 12" Diameter Aluminum Column	87.64	11.23
05 14 13 00-0021	LF 15" Diameter Aluminum Column	111.06	13.03
05 14 13 00-0022	EA 6" Diameter Aluminum Base And Cap	71.95	12.43
05 14 13 00-0023	EA 8" Diameter Aluminum Base And Cap	81.88	13.42
05 14 13 00-0024	EA 10" Diameter Aluminum Base And Cap	102.17	14.91
05 14 13 00-0025	EA 12" Diameter Aluminum Base And Cap	170.82	15.91
05 14 13 00-0026	EA 15" Diameter Aluminum Base And Cap	257.49	17.40
05 14 13 00-0027	Octagonal Columns (05 14 13 00-0015)		
05 14 13 00-0028	LF 6" Diameter Aluminum Column	40.94	6.66
05 14 13 00-0029	LF 8" Diameter Aluminum Column	56.07	9.55
05 14 13 00-0030	LF 10" Diameter Aluminum Column	68.11	10.74
05 14 13 00-0031	LF 12" Diameter Aluminum Column	100.69	11.23
05 14 13 00-0032	LF 15" Diameter Aluminum Column	128.09	13.03
05 14 13 00-0033	EA 6" Diameter Aluminum Base And Cap	81.37	12.43
05 14 13 00-0034	EA 8" Diameter Aluminum Base And Cap	92.89	13.42
05 14 13 00-0035	EA 10" Diameter Aluminum Base And Cap	116.64	14.91
05 14 13 00-0036	EA 12" Diameter Aluminum Base And Cap	198.63	15.91
05 14 13 00-0037	EA 15" Diameter Aluminum Base And Cap	302.03	17.40
05 14 13 00-0038	Fluted Columns (05 14 13 00-0015)		
05 14 13 00-0039	LF 6" Diameter Aluminum Column	45.11	6.66
05 14 13 00-0040	LF 8" Diameter Aluminum Column	61.61	9.55
05 14 13 00-0041	LF 10" Diameter Aluminum Column	75.10	10.74
05 14 13 00-0042	LF 12" Diameter Aluminum Column	112.43	11.23
05 14 13 00-0043	LF 15" Diameter Aluminum Column	143.40	13.03
05 14 13 00-0044	EA 6" Diameter Aluminum Base And Cap	89.85	12.43
05 14 13 00-0045	EA 8" Diameter Aluminum Base And Cap	102.80	13.42
05 14 13 00-0046	EA 10" Diameter Aluminum Base And Cap	129.66	14.91
05 14 13 00-0047	EA 12" Diameter Aluminum Base And Cap	223.65	15.91
05 14 13 00-0048	EA 15" Diameter Aluminum Base And Cap	342.11	17.40
05 14 13 00-0049	Square Columns (05 14 13 00-0015)		
05 14 13 00-0050	LF 6" Aluminum Column	47.95	6.66
05 14 13 00-0051	LF 8" Aluminum Column	65.39	9.55
05 14 13 00-0052	LF 10" Aluminum Column	79.89	10.74
05 14 13 00-0053	LF 12" Aluminum Column	120.46	11.23
05 14 13 00-0054	LF 15" Aluminum Column	153.88	13.03
05 14 13 00-0055	EA 6" Aluminum Base And Cap	95.64	12.43
05 14 13 00-0056	EA 8" Aluminum Base And Cap	109.57	13.42
05 14 13 00-0057	EA 10" Aluminum Base And Cap	138.56	14.91
05 14 13 00-0058	EA 12" Aluminum Base And Cap	240.76	15.91
05 14 13 00-0059	EA 15" Aluminum Base And Cap	369.53	17.40
05 14 13 00-0060	Ornamental Or Decorative Cap And Bases (05 14 13 00-0015)		
05 14 13 00-0061	EA 8" Corinthian Capital And Base	509.25	14.91



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 14 13 00-0062	EA		10" Corinthian Capital And Base.....	746.76	17.40
05 14 13 00-0063	EA		12" Corinthian Capital And Base.....	1,176.87	19.89
05 14 13 00-0064	EA		8" Scamozzi Capital And Base.....	257.25	14.91
05 14 13 00-0065	EA		10" Scamozzi Capital And Base.....	343.15	17.40
05 14 13 00-0066	EA		12" Scamozzi Capital And Base.....	681.47	19.89

05 15 Wire Rope Assemblies ^(05 10)

05 15 16 Steel Wire Rope Assemblies ^(05 15)

05 15 16 00-0001 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope ^(05 15 16)

05 15 16 00-0002	LF		1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	0.95	0.10
			For >500, Deduct	-0.16	
05 15 16 00-0003	LF		5/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.30	0.10
			For >500, Deduct	-0.21	
05 15 16 00-0004	LF		3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.58	0.20
			For >500, Deduct	-0.24	
05 15 16 00-0005	LF		7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.96	0.20
			For >500, Deduct	-0.28	
05 15 16 00-0006	LF		1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.31	0.30
			For >500, Deduct	-0.32	
05 15 16 00-0007	LF		9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.85	0.40
			For >500, Deduct	-0.39	
05 15 16 00-0008	LF		5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.42	0.40
			For >500, Deduct	-0.46	
05 15 16 00-0009	LF		3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	4.77	0.72
			For >500, Deduct	-0.63	
05 15 16 00-0010	LF		7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	6.43	0.82
			For >500, Deduct	-0.85	
05 15 16 00-0011	LF		1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	8.10	1.12
			For >500, Deduct	-1.04	
05 15 16 00-0012	LF		1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	10.01	1.42
			For >500, Deduct	-1.29	
05 15 16 00-0013	LF		1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	12.21	1.72
			For >500, Deduct	-1.57	

05 15 16 00-0014 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope ^(05 15 16)

05 15 16 00-0015	LF		1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.10	0.10
			For >500, Deduct	-0.19	
05 15 16 00-0016	LF		5/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.45	0.10
			For >500, Deduct	-0.24	
05 15 16 00-0017	LF		3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.84	0.20
			For >500, Deduct	-0.29	
05 15 16 00-0018	LF		7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.15	0.20
			For >500, Deduct	-0.32	
05 15 16 00-0019	LF		1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.59	0.30
			For >500, Deduct	-0.38	
05 15 16 00-0020	LF		9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.03	0.40
			For >500, Deduct	-0.43	
05 15 16 00-0021	LF		5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.57	0.40
			For >500, Deduct	-0.49	
05 15 16 00-0022	LF		3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.22	0.72
			For >500, Deduct	-0.72	
05 15 16 00-0023	LF		7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	6.76	0.82
			For >500, Deduct	-0.92	
05 15 16 00-0024	LF		1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	8.40	1.12
			For >500, Deduct	-1.11	

05	Metals
05 10	Structural Metal Framing
05 15	Wire Rope Assemblies



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0025	LF		1-1/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	10.76	1.42
			<i>For >500, Deduct</i>	-1.43	
05 15 16 00-0026	LF		1-1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	13.05	1.72
			<i>For >500, Deduct</i>	-1.74	
05 15 16 00-0027			6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope <small>(05 15 16)</small>		
05 15 16 00-0028	LF		1/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	0.89	0.10
			<i>For >500, Deduct</i>	-0.14	
05 15 16 00-0029	LF		5/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.23	0.10
			<i>For >500, Deduct</i>	-0.19	
05 15 16 00-0030	LF		3/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.50	0.20
			<i>For >500, Deduct</i>	-0.22	
05 15 16 00-0031	LF		7/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.81	0.20
			<i>For >500, Deduct</i>	-0.25	
05 15 16 00-0032	LF		1/2" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.22	0.30
			<i>For >500, Deduct</i>	-0.30	
05 15 16 00-0033	LF		9/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.81	0.40
			<i>For >500, Deduct</i>	-0.38	
05 15 16 00-0034	LF		5/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	3.31	0.40
			<i>For >500, Deduct</i>	-0.44	
05 15 16 00-0035	LF		3/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	4.67	0.72
			<i>For >500, Deduct</i>	-0.61	
05 15 16 00-0036	LF		7/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	5.83	0.82
			<i>For >500, Deduct</i>	-0.73	
05 15 16 00-0037	LF		1" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	7.48	1.12
			<i>For >500, Deduct</i>	-0.92	
05 15 16 00-0038			6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope <small>(05 15 16)</small>		
05 15 16 00-0039	LF		1/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	0.88	0.10
			<i>For >500, Deduct</i>	-0.14	
05 15 16 00-0040	LF		5/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.19	0.10
			<i>For >500, Deduct</i>	-0.18	
05 15 16 00-0041	LF		3/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.50	0.20
			<i>For >500, Deduct</i>	-0.22	
05 15 16 00-0042	LF		7/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.81	0.20
			<i>For >500, Deduct</i>	-0.25	
05 15 16 00-0043	LF		1/2" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.30	0.30
			<i>For >500, Deduct</i>	-0.32	
05 15 16 00-0044	LF		9/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.77	0.40
			<i>For >500, Deduct</i>	-0.37	
05 15 16 00-0045	LF		5/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.46	0.40
			<i>For >500, Deduct</i>	-0.47	
05 15 16 00-0046	LF		3/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	4.85	0.72
			<i>For >500, Deduct</i>	-0.65	
05 15 16 00-0047	LF		7/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	6.39	0.82
			<i>For >500, Deduct</i>	-0.84	
05 15 16 00-0048	LF		1" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.96	1.12
			<i>For >500, Deduct</i>	-1.03	
05 15 16 00-0049			6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope <small>(05 15 16)</small>		
05 15 16 00-0050	LF		3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	1.68	0.20
			<i>For >500, Deduct</i>	-0.26	
05 15 16 00-0051	LF		7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.02	0.20
			<i>For >500, Deduct</i>	-0.30	
05 15 16 00-0052	LF		1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.40	0.30
			<i>For >500, Deduct</i>	-0.34	
05 15 16 00-0053	LF		9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.20	0.40
			<i>For >500, Deduct</i>	-0.46	
05 15 16 00-0054	LF		5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.59	0.40
			<i>For >500, Deduct</i>	-0.50	
05 15 16 00-0055	LF		3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	4.94	0.72
			<i>For >500, Deduct</i>	-0.67	
05 15 16 00-0056	LF		7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	6.41	0.82
			<i>For >500, Deduct</i>	-0.85	
05 15 16 00-0057	LF		1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	8.45	1.12
			<i>For >500, Deduct</i>	-1.11	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 15 16 00-0058	LF		1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	10.27	1.42
				<i>For >500, Deduct</i>	-1.34	
	05 15 16 00-0059	LF		1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	12.43	1.72
				<i>For >500, Deduct</i>	-1.61	
	05 15 16 00-0060			6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope <small>(05 15 16)</small>		
	05 15 16 00-0061	LF		3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	1.72	0.20
				<i>For >500, Deduct</i>	-0.27	
	05 15 16 00-0062	LF		7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.12	0.20
				<i>For >500, Deduct</i>	-0.32	
	05 15 16 00-0063	LF		1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.54	0.30
				<i>For >500, Deduct</i>	-0.37	
	05 15 16 00-0064	LF		9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.50	0.40
				<i>For >500, Deduct</i>	-0.52	
	05 15 16 00-0065	LF		5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.64	0.40
				<i>For >500, Deduct</i>	-0.51	
	05 15 16 00-0066	LF		3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	5.04	0.72
				<i>For >500, Deduct</i>	-0.69	
	05 15 16 00-0067	LF		7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	6.71	0.82
				<i>For >500, Deduct</i>	-0.91	
	05 15 16 00-0068	LF		1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	8.55	1.12
				<i>For >500, Deduct</i>	-1.13	
	05 15 16 00-0069			19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope <small>(05 15 16)</small>		
	05 15 16 00-0070	LF		1/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	1.66	0.10
				<i>For >500, Deduct</i>	-0.29	
	05 15 16 00-0071	LF		5/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	1.83	0.10
				<i>For >500, Deduct</i>	-0.31	
	05 15 16 00-0072	LF		3/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	2.18	0.20
				<i>For >500, Deduct</i>	-0.36	
	05 15 16 00-0073	LF		7/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	2.95	0.20
				<i>For >500, Deduct</i>	-0.48	
	05 15 16 00-0074	LF		1/2" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	3.32	0.20
				<i>For >500, Deduct</i>	-0.56	
	05 15 16 00-0075	LF		9/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	3.97	0.40
				<i>For >500, Deduct</i>	-0.62	
	05 15 16 00-0076	LF		5/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	4.74	0.40
				<i>For >500, Deduct</i>	-0.73	
	05 15 16 00-0077	LF		3/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope.....	6.57	0.61
				<i>For >500, Deduct</i>	-1.00	
	05 15 16 00-0078			7x7, Galvanized Finish, Aircraft Cable <small>(05 15 16)</small>		
	05 15 16 00-0079	LF		1/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable.....	0.23	0.07
				<i>For >500, Deduct</i>	-0.03	
	05 15 16 00-0080	LF		3/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable.....	0.27	0.08
				<i>For >500, Deduct</i>	-0.03	
	05 15 16 00-0081	LF		1/8" Diameter, 7x7, Galvanized Finish, Aircraft Cable.....	0.30	0.09
				<i>For >500, Deduct</i>	-0.03	
	05 15 16 00-0082	LF		5/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable.....	0.35	0.10
				<i>For >500, Deduct</i>	-0.04	
	05 15 16 00-0083	LF		3/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable.....	0.42	0.10
				<i>For >500, Deduct</i>	-0.05	
	05 15 16 00-0084			7x19, Galvanized Finish, Aircraft Cable <small>(05 15 16)</small>		
	05 15 16 00-0085	LF		1/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable.....	0.39	0.09
				<i>For >500, Deduct</i>	-0.05	
	05 15 16 00-0086	LF		5/32" Diameter, 7x19, Galvanized Finish, Aircraft Cable.....	0.43	0.10
				<i>For >500, Deduct</i>	-0.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0087 LF 3/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable <i>For >500, Deduct</i>	0.49 -0.06	0.10
05 15 16 00-0088 LF 1/4" Diameter, 7x19, Galvanized Finish, Aircraft Cable <i>For >500, Deduct</i>	0.55 -0.08	0.10
05 15 16 00-0089 LF 5/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable <i>For >500, Deduct</i>	0.84 -0.11	0.10
05 15 16 00-0090 LF 3/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable <i>For >500, Deduct</i>	1.14 -0.15	0.10
05 15 16 00-0091 Heavy Duty, Galvanized Steel, Wire Rope Thimbles (05 15 16)		
05 15 16 00-0092 EA 1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	12.22	3.05
05 15 16 00-0093 EA 5/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	13.49	3.05
05 15 16 00-0094 EA 3/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	14.90	3.05
05 15 16 00-0095 EA 7/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	18.77	3.05
05 15 16 00-0096 EA 1/2" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	18.79	3.05
05 15 16 00-0097 EA 9/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	20.10	3.05
05 15 16 00-0098 EA 5/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	35.92	4.68
05 15 16 00-0100 EA 7/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	42.58	5.69
05 15 16 00-0101 EA 1" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	75.02	9.35
05 15 16 00-0102 EA 1-1/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	106.99	12.71
05 15 16 00-0103 EA 1-1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	106.99	12.71
05 15 16 00-0104 Galvanized Steel, Wire Rope Clips (05 15 16)		
05 15 16 00-0105 EA 1/8" Diameter, Galvanized Steel, Wire Rope Clip	14.26	3.05
05 15 16 00-0106 EA 3/16" Diameter, Galvanized Steel, Wire Rope Clip	14.52	3.05
05 15 16 00-0107 EA 1/4" Diameter, Galvanized Steel, Wire Rope Clip	16.25	3.05
05 15 16 00-0108 EA 5/16" Diameter, Galvanized Steel, Wire Rope Clip	16.52	3.05
05 15 16 00-0109 EA 3/8" Diameter, Galvanized Steel, Wire Rope Clip	16.91	3.05
05 15 16 00-0110 EA 7/16" Diameter, Galvanized Steel, Wire Rope Clip	20.63	3.05
05 15 16 00-0111 EA 1/2" Diameter, Galvanized Steel, Wire Rope Clip	20.92	3.05
05 15 16 00-0112 EA 9/16" Diameter, Galvanized Steel, Wire Rope Clip	23.67	3.05
05 15 16 00-0113 EA 5/8" Diameter, Galvanized Steel, Wire Rope Clip	24.06	3.05
05 15 16 00-0114 EA 3/4" Diameter, Galvanized Steel, Wire Rope Clip	33.28	4.06
05 15 16 00-0115 EA 7/8" Diameter, Galvanized Steel, Wire Rope Clip	50.11	6.10
05 15 16 00-0116 EA 1" Diameter, Galvanized Steel, Wire Rope Clip	54.67	6.10
05 15 16 00-0117 EA 1-1/8" Diameter, Galvanized Steel, Wire Rope Clip	64.80	8.13
05 15 16 00-0118 EA 1-1/4" Diameter, Galvanized Steel, Wire Rope Clip	94.21	12.20
05 15 16 00-0119 Steel, Open Swage Sockets (05 15 16)		
05 15 16 00-0120 EA 1/4" Diameter, Steel, Open Swage Socket	66.10	3.05
05 15 16 00-0121 EA 5/16" Diameter, Steel, Open Swage Socket	104.30	3.05
05 15 16 00-0122 EA 3/8" Diameter, Steel, Open Swage Socket	108.32	4.06
05 15 16 00-0123 EA 7/16" Diameter, Steel, Open Swage Socket	129.49	5.08
05 15 16 00-0124 EA 1/2" Diameter, Steel, Open Swage Socket	129.49	5.08
05 15 16 00-0125 EA 9/16" Diameter, Steel, Open Swage Socket	193.10	11.19
05 15 16 00-0126 EA 5/8" Diameter, Steel, Open Swage Socket	193.10	11.19
05 15 16 00-0127 EA 3/4" Diameter, Steel, Open Swage Socket	253.03	21.35
05 15 16 00-0128 EA 7/8" Diameter, Steel, Open Swage Socket	341.96	30.50
05 15 16 00-0129 EA 1" Diameter, Steel, Open Swage Socket	485.43	46.77
05 15 16 00-0130 EA 1-1/8" Diameter, Steel, Open Swage Socket	649.17	73.21
05 15 16 00-0131 EA 1-1/4" Diameter, Steel, Open Swage Socket	755.99	84.39
05 15 16 00-0132 Steel, Closed Swage Sockets (05 15 16)		
05 15 16 00-0133 EA 1/4" Diameter, Steel, Closed Swage Socket	53.66	3.05
05 15 16 00-0134 EA 5/16" Diameter, Steel, Closed Swage Socket	71.76	3.05
05 15 16 00-0135 EA 3/8" Diameter, Steel, Closed Swage Socket	71.76	3.05
05 15 16 00-0136 EA 7/16" Diameter, Steel, Closed Swage Socket	89.90	4.06
05 15 16 00-0137 EA 1/2" Diameter, Steel, Closed Swage Socket	91.02	4.06
05 15 16 00-0138 EA 9/16" Diameter, Steel, Closed Swage Socket	126.74	7.12
05 15 16 00-0139 EA 5/8" Diameter, Steel, Closed Swage Socket	131.58	8.13
05 15 16 00-0140 EA 3/4" Diameter, Steel, Closed Swage Socket	164.92	13.21
05 15 16 00-0141 EA 7/8" Diameter, Steel, Closed Swage Socket	215.54	19.32
05 15 16 00-0142 EA 1" Diameter, Steel, Closed Swage Socket	308.11	26.44
05 15 16 00-0143 EA 1-1/8" Diameter, Steel, Closed Swage Socket	384.95	36.60
05 15 16 00-0144 EA 1-1/4" Diameter, Steel, Closed Swage Socket	528.95	56.94
05 15 16 00-0145 Galvanized Steel, Open Spelter Sockets (05 15 16)		
05 15 16 00-0146 EA 1/4" Galvanized Steel, Open Spelter Socket	109.01	3.05
05 15 16 00-0147 EA 5/16" Galvanized Steel, Open Spelter Socket	112.54	3.05
05 15 16 00-0148 EA 3/8" Galvanized Steel, Open Spelter Socket	112.54	3.05
05 15 16 00-0149 EA 7/16" Galvanized Steel, Open Spelter Socket	127.85	6.10
05 15 16 00-0150 EA 1/2" Galvanized Steel, Open Spelter Socket	127.85	6.10
05 15 16 00-0151 EA 9/16" Galvanized Steel, Open Spelter Socket	170.01	10.17
05 15 16 00-0152 EA 5/8" Galvanized Steel, Open Spelter Socket	170.01	10.17



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0153	EA		3/4" Galvanized Steel, Open Spelter Socket	217.74	15.25
05 15 16 00-0154	EA		7/8" Galvanized Steel, Open Spelter Socket	328.06	25.42
05 15 16 00-0155	EA		1" Galvanized Steel, Open Spelter Socket	589.73	39.65
05 15 16 00-0156	EA		1-1/8" Galvanized Steel, Open Spelter Socket	710.23	64.06
05 15 16 00-0157	EA		1-1/4" Galvanized Steel, Open Spelter Socket	958.87	84.39
05 15 16 00-0158 Galvanized Steel, Closed Spelter Sockets (05 15 16)					
05 15 16 00-0159	EA		1/4" Galvanized Steel, Closed Spelter Socket	91.79	3.05
05 15 16 00-0160	EA		5/16" Galvanized Steel, Closed Spelter Socket	92.22	3.05
05 15 16 00-0161	EA		3/8" Galvanized Steel, Closed Spelter Socket	92.22	3.05
05 15 16 00-0162	EA		7/16" Galvanized Steel, Closed Spelter Socket	104.99	5.08
05 15 16 00-0163	EA		1/2" Galvanized Steel, Closed Spelter Socket	104.99	5.08
05 15 16 00-0164	EA		9/16" Galvanized Steel, Closed Spelter Socket	149.14	9.15
05 15 16 00-0165	EA		5/8" Galvanized Steel, Closed Spelter Socket	149.14	9.15
05 15 16 00-0166	EA		3/4" Galvanized Steel, Closed Spelter Socket	185.45	13.21
05 15 16 00-0167	EA		7/8" Galvanized Steel, Closed Spelter Socket	271.55	20.33
05 15 16 00-0168	EA		1" Galvanized Steel, Closed Spelter Socket	411.11	31.52
05 15 16 00-0169	EA		1-1/8" Galvanized Steel, Closed Spelter Socket	538.93	42.71
05 15 16 00-0170	EA		1-1/4" Galvanized Steel, Closed Spelter Socket	681.99	56.94
05 15 16 00-0171 Forged Steel, Jaw And Jaw Turnbuckles (05 15 16)					
05 15 16 00-0172	EA		1/4" x 4", Forged Steel, Jaw And Jaw Turnbuckle	63.89	3.05
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-8.06	
05 15 16 00-0173	EA		5/16" x 4-1/2", Forged Steel, Jaw And Jaw Turnbuckle	68.36	3.05
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-8.73	
05 15 16 00-0174	EA		3/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle	76.63	3.05
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-9.97	
05 15 16 00-0175	EA		1/2" x 6", Forged Steel, Jaw And Jaw Turnbuckle	86.23	4.06
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-10.37	
05 15 16 00-0176	EA		1/2" x 9", Forged Steel, Jaw And Jaw Turnbuckle	113.19	5.08
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-13.80	
05 15 16 00-0177	EA		1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle	128.70	6.10
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-15.63	
05 15 16 00-0178	EA		5/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle	132.41	8.13
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-15.17	
05 15 16 00-0179	EA		5/8" x 9", Forged Steel, Jaw And Jaw Turnbuckle	162.75	8.13
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-19.33	
05 15 16 00-0180	EA		5/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle	184.33	9.15
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-22.20	
05 15 16 00-0181	EA		3/4" x 6", Forged Steel, Jaw And Jaw Turnbuckle	178.76	11.19
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-20.33	
05 15 16 00-0182	EA		3/4" x 9", Forged Steel, Jaw And Jaw Turnbuckle	204.44	13.21
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-22.64	
05 15 16 00-0183	EA		3/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle	250.75	14.23
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-28.90	
05 15 16 00-0184	EA		3/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle	301.71	17.29
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-34.74	
05 15 16 00-0185	EA		7/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle	347.09	24.40
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-37.54	
05 15 16 00-0186	EA		7/8" x 18", Forged Steel, Jaw And Jaw Turnbuckle	420.02	28.47
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-46.06	
05 15 16 00-0187	EA		1" x 6", Forged Steel, Jaw And Jaw Turnbuckle	359.76	24.40
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-39.44	
05 15 16 00-0188	EA		1" x 12", Forged Steel, Jaw And Jaw Turnbuckle	415.15	31.52
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-43.21	
05 15 16 00-0189	EA		1" x 18", Forged Steel, Jaw And Jaw Turnbuckle	565.39	39.65
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-61.35	
05 15 16 00-0190	EA		1" x 24", Forged Steel, Jaw And Jaw Turnbuckle	634.40	46.77
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-67.43	
05 15 16 00-0191	EA		1-1/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle	711.21	56.94
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-72.79	
05 15 16 00-0192	EA		1-1/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle	854.68	64.06
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-90.07	
05 15 16 00-0193	EA		1-1/4" x 24", Forged Steel, Jaw And Jaw Turnbuckle	1,098.72	73.21
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-121.23	
05 15 16 00-0194	EA		1-1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle	1,091.84	78.29
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-116.85	
05 15 16 00-0195	EA		1-1/2" x 18", Forged Steel, Jaw And Jaw Turnbuckle	1,214.92	101.67
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-121.23	
05 15 16 00-0196	EA		1-1/2" x 24", Forged Steel, Jaw And Jaw Turnbuckle	2,139.42	132.17
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-244.66	
05 15 16 00-0197	EA		2" x 24", Forged Steel, Jaw And Jaw Turnbuckle	3,548.50	254.19
			For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-379.76	
05 15 16 00-0198 Galvanized Steel, Drop Forged, Shoulder Eye Bolts (05 15 16)					
05 15 16 00-0199	EA		1/4" Diameter Thread, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	14.65	
05 15 16 00-0200	EA		5/16" Diameter Thread, 7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	14.72	
05 15 16 00-0201	EA		3/8" Diameter Thread, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	16.40	
05 15 16 00-0202	EA		7/16" Diameter Thread, 1-3/32" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	19.50	
05 15 16 00-0203	EA		1/2" Diameter Thread, 1-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt	19.43	

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0204	EA		5/8" Diameter Thread, 1-3/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	26.15	
05 15 16 00-0205	EA		3/4" Diameter Thread, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	31.04	
05 15 16 00-0206	EA		7/8" Diameter Thread, 1-11/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	41.49	
05 15 16 00-0207	EA		1" Diameter Thread, 1-13/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	54.94	
05 15 16 00-0208	EA		1-1/8" Diameter Thread, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	79.26	
05 15 16 00-0209	EA		1-1/4" Diameter Thread, 2-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	94.09	
05 15 16 00-0210	EA		1-1/2" Diameter Thread, 2-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	169.20	
05 15 16 00-0211	EA		1-3/4" Diameter Thread, 2-7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	193.89	
05 15 16 00-0212	EA		2" Diameter Thread, 3-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	239.31	
05 15 16 00-0213			Galvanized Steel, Drop Forged, Eye Bolts <small>(05 15 16)</small>		
05 15 16 00-0214	EA		1/4" Diameter Thread, 3" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	18.85	
05 15 16 00-0215	EA		1/4" Diameter Thread, 4" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	17.19	
05 15 16 00-0216	EA		5/16" Diameter Thread, 2-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	22.74	
05 15 16 00-0217	EA		5/16" Diameter Thread, 4-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	15.79	
05 15 16 00-0218	EA		3/8" Diameter Thread, 2-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	20.75	
05 15 16 00-0219	EA		3/8" Diameter Thread, 3" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	30.52	
05 15 16 00-0220	EA		3/8" Diameter Thread, 4" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	29.67	
05 15 16 00-0221	EA		3/8" Diameter Thread, 4-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	28.27	
05 15 16 00-0222	EA		3/8" Diameter Thread, 5" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	25.50	
05 15 16 00-0223	EA		3/8" Diameter Thread, 6" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	26.32	
05 15 16 00-0224	EA		1/2" Diameter Thread, 2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	23.53	
05 15 16 00-0225	EA		1/2" Diameter Thread, 3" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	19.14	
05 15 16 00-0226	EA		1/2" Diameter Thread, 3-1/4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	24.42	
05 15 16 00-0227	EA		1/2" Diameter Thread, 4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	32.77	
05 15 16 00-0228	EA		1/2" Diameter Thread, 4-1/2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	25.30	
05 15 16 00-0229	EA		5/8" Diameter Thread, 6" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	39.70	
05 15 16 00-0230	EA		1/2" Diameter Thread, 8" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	35.19	
05 15 16 00-0231	EA		1/2" Diameter Thread, 10" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	32.31	
05 15 16 00-0232	EA		1/2" Diameter Thread, 12" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	37.68	
05 15 16 00-0233	EA		5/8" Diameter Thread, 4" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	38.30	
05 15 16 00-0234	EA		5/8" Diameter Thread, 4-1/2" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	34.31	
05 15 16 00-0235	EA		5/8" Diameter Thread, 6" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	42.71	
05 15 16 00-0236	EA		5/8" Diameter Thread, 8" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	48.72	
05 15 16 00-0237	EA		5/8" Diameter Thread, 10" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	55.91	
05 15 16 00-0238	EA		5/8" Diameter Thread, 12" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	46.54	
05 15 16 00-0239	EA		3/4" Diameter Thread, 4-1/2" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	46.40	
05 15 16 00-0240	EA		3/4" Diameter Thread, 6" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	47.33	
05 15 16 00-0241	EA		3/4" Diameter Thread, 8" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	52.16	
05 15 16 00-0242	EA		3/4" Diameter Thread, 10" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	56.13	
05 15 16 00-0243	EA		3/4" Diameter Thread, 12" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	65.24	
05 15 16 00-0244	EA		1" Diameter Thread, 8" Shank Length, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	85.91	
05 15 19			Stainless Steel Wire Rope Assemblies <small>(05 15)</small>		
05 15 19 00-0001			7x7, 304 Stainless Steel, Aircraft Cable <small>(05 15 19)</small>		
05 15 19 00-0002	LF		1/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.25	0.07
			<i>For >500, Deduct</i>	-0.03	
05 15 19 00-0003	LF		3/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.33	0.08
			<i>For >500, Deduct</i>	-0.04	
05 15 19 00-0004	LF		1/8" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.42	0.09
			<i>For >500, Deduct</i>	-0.06	
05 15 19 00-0005	LF		5/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.55	0.10
			<i>For >500, Deduct</i>	-0.08	
05 15 19 00-0006	LF		3/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.69	0.10
			<i>For >500, Deduct</i>	-0.10	
05 15 19 00-0007			7x19, 304 Stainless Steel, Aircraft Cable <small>(05 15 19)</small>		
05 15 19 00-0008	LF		1/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	0.48	0.09
			<i>For >500, Deduct</i>	-0.07	
05 15 19 00-0009	LF		5/32" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	0.56	0.10
			<i>For >500, Deduct</i>	-0.08	
05 15 19 00-0010	LF		3/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	0.65	0.10
			<i>For >500, Deduct</i>	-0.09	
05 15 19 00-0011	LF		1/4" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	0.82	0.10
			<i>For >500, Deduct</i>	-0.13	
05 15 19 00-0012	LF		5/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	1.25	0.10
			<i>For >500, Deduct</i>	-0.20	
05 15 19 00-0013	LF		3/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	1.87	0.20
			<i>For >500, Deduct</i>	-0.30	
05 15 19 00-0014			7x7, 316 Stainless Steel, Aircraft Cable <small>(05 15 19)</small>		
05 15 19 00-0015	LF		1/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....	0.25	0.07
			<i>For >500, Deduct</i>	-0.03	
05 15 19 00-0016	LF		3/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....	0.33	0.08
			<i>For >500, Deduct</i>	-0.04	
05 15 19 00-0017	LF		1/8" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....	0.42	0.09
			<i>For >500, Deduct</i>	-0.06	



Metals	05	05
Structural Metal Framing	05 10	
Wire Rope Assemblies	05 15	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 19 00-0018	LF		5/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable..... <i>For >500, Deduct</i>	0.55 -0.08	0.10
05 15 19 00-0019	LF		3/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable..... <i>For >500, Deduct</i>	0.69 -0.10	0.10
05 15 19 00-0020			7x19, 316 Stainless Steel, Aircraft Cable <small>(05 15 19)</small>		
05 15 19 00-0021	LF		1/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable..... <i>For >500, Deduct</i>	0.48 -0.07	0.09
05 15 19 00-0022	LF		5/32" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable..... <i>For >500, Deduct</i>	0.56 -0.08	0.10
05 15 19 00-0023	LF		3/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable..... <i>For >500, Deduct</i>	0.65 -0.09	0.10
05 15 19 00-0024	LF		1/4" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable..... <i>For >500, Deduct</i>	0.82 -0.13	0.10
05 15 19 00-0025	LF		5/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable..... <i>For >500, Deduct</i>	1.25 -0.20	0.10
05 15 19 00-0026	LF		3/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable..... <i>For >500, Deduct</i>	1.87 -0.30	0.10

05 40 Cold-Formed Metal Framing (05)

Note: Includes all connecting bolts and welds.

05 41 Structural Metal Stud Framing (05 40)

Note: Includes studs, bridging, fasteners, and metal stiffener at half height. Do not deduct for openings of less than 25 SF.

05 41 00 00-0001 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)

05 41 00 00-0002	SF		2-1/2" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners..... <i>For Walls >10' High, Add</i> <i>For Curved Wall, Add</i> <i>For Up To 200, Add</i> <i>For >200 To 500, Add</i> <i>For 12" On Center, Add</i> <i>For 24" On Center, Deduct</i>	4.90 0.98 0.66 1.42 0.71 0.87 -0.87	0.94
05 41 00 00-0003	SF		3-5/8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners..... <i>For Walls >10' High, Add</i> <i>For Curved Wall, Add</i> <i>For Up To 200, Add</i> <i>For >200 To 500, Add</i> <i>For 12" On Center, Add</i> <i>For 24" On Center, Deduct</i>	5.47 1.09 0.69 1.55 0.78 0.98 -0.98	0.94
05 41 00 00-0004	SF		4" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners..... <i>For Walls >10' High, Add</i> <i>For Curved Wall, Add</i> <i>For Up To 200, Add</i> <i>For >200 To 500, Add</i> <i>For 12" On Center, Add</i> <i>For 24" On Center, Deduct</i>	5.71 1.14 0.72 1.62 0.81 1.02 -1.02	0.94
05 41 00 00-0005	SF		6" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners..... <i>For Walls >10' High, Add</i> <i>For Curved Wall, Add</i> <i>For Up To 200, Add</i> <i>For >200 To 500, Add</i> <i>For 12" On Center, Add</i> <i>For 24" On Center, Deduct</i>	7.28 1.46 0.75 1.96 0.98 1.33 -1.33	1.05
05 41 00 00-0006	SF		8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners..... <i>For Walls >10' High, Add</i> <i>For Curved Wall, Add</i> <i>For Up To 200, Add</i> <i>For >200 To 500, Add</i> <i>For 12" On Center, Add</i> <i>For 24" On Center, Deduct</i>	8.13 1.63 0.78 2.15 1.07 1.50 -1.50	1.15

05 41 00 00-0007 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)

05 41 00 00-0008	SF		2-1/2" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners..... <i>For Walls >10' High, Add</i> <i>For Curved Wall, Add</i> <i>For Up To 200, Add</i> <i>For >200 To 500, Add</i> <i>For 12" On Center, Add</i> <i>For 24" On Center, Deduct</i>	5.26 1.05 0.69 1.51 0.76 0.94 -0.94	0.94
05 41 00 00-0009	SF		3-5/8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners..... <i>For Walls >10' High, Add</i> <i>For Curved Wall, Add</i> <i>For Up To 200, Add</i> <i>For >200 To 500, Add</i> <i>For 12" On Center, Add</i> <i>For 24" On Center, Deduct</i>	6.10 1.22 0.73 1.70 0.85 1.10 -1.10	0.95

05 Metals**05 40 Cold-Formed Metal Framing****05 41 Structural Metal Stud Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 41 00 00-0010 SF 4" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	6.43	0.95
For Walls >10' High, Add	1.29	
For Curved Wall, Add	0.75	
For Up To 200, Add	1.79	
For >200 To 500, Add	0.89	
For 12" On Center, Add	1.16	
For 24" On Center, Deduct	-1.16	
05 41 00 00-0011 SF 6" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	8.14	1.15
For Walls >10' High, Add	1.63	
For Curved Wall, Add	0.79	
For Up To 200, Add	2.15	
For >200 To 500, Add	1.08	
For 12" On Center, Add	1.50	
For 24" On Center, Deduct	-1.50	
05 41 00 00-0012 SF 8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	8.99	1.25
For Walls >10' High, Add	1.80	
For Curved Wall, Add	0.83	
For Up To 200, Add	2.35	
For >200 To 500, Add	1.18	
For 12" On Center, Add	1.66	
For 24" On Center, Deduct	-1.66	
05 41 00 00-0013 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)		
05 41 00 00-0014 SF 3-5/8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	7.24	1.31
For Walls >10' High, Add	1.45	
For Curved Wall, Add	0.87	
For Up To 200, Add	2.03	
For >200 To 500, Add	1.01	
For 12" On Center, Add	1.30	
For 24" On Center, Deduct	-1.30	
05 41 00 00-0015 SF 4" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	7.45	1.33
For Walls >10' High, Add	1.49	
For Curved Wall, Add	0.89	
For Up To 200, Add	2.08	
For >200 To 500, Add	1.04	
For 12" On Center, Add	1.34	
For 24" On Center, Deduct	-1.34	
05 41 00 00-0016 SF 6" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	9.36	1.40
For Walls >10' High, Add	1.87	
For Curved Wall, Add	0.93	
For Up To 200, Add	2.49	
For >200 To 500, Add	1.25	
For 12" On Center, Add	1.72	
For 24" On Center, Deduct	-1.72	
05 41 00 00-0017 SF 8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	10.29	1.46
For Walls >10' High, Add	2.06	
For Curved Wall, Add	0.98	
For Up To 200, Add	2.71	
For >200 To 500, Add	1.35	
For 12" On Center, Add	1.90	
For 24" On Center, Deduct	-1.90	
05 42 Cold-Formed Metal Joist Framing (05 40)		
05 42 13 Cold-Formed Metal Floor Joist Framing (05 42)		
Note: Floor or roof joist framing		
05 42 13 00-0001 Steel Joists, 20 Gauge (05 42 13)		
05 42 13 00-0002 LF 5-1/2" - 20 Gauge Steel Joists	10.40	2.24
05 42 13 00-0003 LF 6" - 20 Gauge Steel Joists	11.31	2.82
05 42 13 00-0004 LF 7-1/4" - 20 Gauge Steel Joists	12.22	3.09
05 42 13 00-0005 LF 8" - 20 Gauge Steel Joists	13.73	3.29
05 42 13 00-0006 Steel Joists, 18 Gauge (05 42 13)		
05 42 13 00-0007 LF 5-1/2" - 18 Gauge Steel Joists	11.59	2.49
05 42 13 00-0008 LF 6" - 18 Gauge Steel Joists	12.63	3.13
05 42 13 00-0009 LF 7-1/4" - 18 Gauge Steel Joists	13.69	3.43
05 42 13 00-0010 LF 8" - 18 Gauge Steel Joists	14.08	3.65
05 42 13 00-0011 Steel Joists, 16 Gauge (05 42 13)		
05 42 13 00-0012 LF 7-1/4" - 16 Gauge Steel Joists	14.82	3.46
05 42 13 00-0013 LF 8" - 16 Gauge Steel Joists	15.65	3.65
05 42 13 00-0014 Steel Joists, 14 Gauge (05 42 13)		
05 42 13 00-0015 LF 9-1/4" - 14 Gauge Steel Joists	17.69	3.65
05 42 13 00-0016 LF 11-1/2" - 14 Gauge Steel Joists	19.23	3.85



Metals	05	05
Cold-Formed Metal Framing	05 40	
Cold-Formed Metal Joist Framing	05 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 42 13 00-0017 Steel Joists, 12 Gauge <small>(05 42 13)</small>		
05 42 13 00-0018 LF 9-1/4" - 12 Gauge Steel Joists.....	21.07	4.01
05 42 13 00-0019 LF 11-1/2" - 12 Gauge Steel Joists.....	23.06	4.23
05 42 13 00-0020 Steel Joists, 10 Gauge <small>(05 42 13)</small>		
05 42 13 00-0021 LF 9-1/4" - 10 Gauge Steel Joists.....	24.53	4.42
05 42 13 00-0022 LF 11-1/2" - 10 Gauge Steel Joists.....	26.96	4.66
05 42 13 00-0023 Steel Joists, 8 Gauge <small>(05 42 13)</small>		
05 42 13 00-0024 LF 9-1/4" - 8 Gauge Steel Joists.....	28.02	4.86
05 42 13 00-0025 LF 11-1/2" - 8 Gauge Steel Joists.....	30.89	5.12
05 42 23 Cold-Formed Metal Roof Joist Framing <small>(05 42)</small>		
See CSI section 05 42 13 00-0000 for metal joist framing.		
05 43 Slotted Channel Framing <small>(05 40)</small>		
05 43 00 00-0001 Unistrut Channel <small>(05 43)</small>		
Note: Excludes fasteners and accessories.		
05 43 00 00-0002 Steel Unistrut Channel <small>(05 43 00 00-0001)</small>		
05 43 00 00-0003 LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel.....	11.19	2.30
For Powder Coating, Add 0.99		
For Galvanizing, Add 1.12		
05 43 00 00-0004 LF 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....	11.51	2.30
For Powder Coating, Add 1.04		
For Galvanizing, Add 1.18		
05 43 00 00-0005 LF 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	12.01	2.30
For Powder Coating, Add 1.11		
For Galvanizing, Add 1.26		
05 43 00 00-0006 LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel.....	10.55	2.30
For Powder Coating, Add 0.89		
For Galvanizing, Add 1.01		
05 43 00 00-0007 LF 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel.....	9.15	2.30
For Powder Coating, Add 0.68		
For Galvanizing, Add 0.78		
05 43 00 00-0008 Stainless Steel Unistrut Channel <small>(05 43 00 00-0001)</small>		
05 43 00 00-0009 304 Stainless Steel Unistrut Channel <small>(05 43 00 00-0008)</small>		
05 43 00 00-0010 LF 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	24.19	2.30
05 43 00 00-0011 LF 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	28.98	2.30
05 43 00 00-0012 LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	27.79	2.30
05 43 00 00-0013 LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	35.18	2.30
05 43 00 00-0014 316 Stainless Steel Unistrut Channel <small>(05 43 00 00-0008)</small>		
05 43 00 00-0015 LF 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....	39.72	2.30
05 43 00 00-0016 Unistrut Closure Strips <small>(05 43)</small>		
05 43 00 00-0017 LF Steel Raceway Closure Strip For Unistrut Channel.....	5.98	0.50
05 43 00 00-0018 Lock Nuts With Spring For Unistrut Channel <small>(05 43)</small>		
Note: Includes hex bolt.		
05 43 00 00-0019 Steel Lock Nuts With Spring For Unistrut Channel <small>(05 43 00 00-0018)</small>		
Note: Includes hex bolt.		
05 43 00 00-0020 EA 1/4-20, Steel Lock Nut With Spring For Unistrut Channel.....	7.00	
05 43 00 00-0021 EA 3/8-16, Steel Lock Nut With Spring For Unistrut Channel.....	7.68	
05 43 00 00-0022 EA 1/2-13, Steel Lock Nut With Spring For Unistrut Channel.....	8.19	
05 43 00 00-0023 EA 5/8-11, Steel Lock Nut With Spring For Unistrut Channel.....	10.95	
05 43 00 00-0024 Stainless Steel Lock Nuts With Spring For Unistrut Channel <small>(05 43 00 00-0018)</small>		
Note: Includes hex bolt.		
05 43 00 00-0025 EA 1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	14.08	
05 43 00 00-0026 EA 3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	14.95	
05 43 00 00-0027 EA 1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	20.98	
05 43 00 00-0028 EA 5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	35.56	
05 43 00 00-0029 Lock Nuts Without Spring For Unistrut Channel <small>(05 43)</small>		
Note: Includes hex bolt.		
05 43 00 00-0030 Steel Lock Nuts Without Spring For Unistrut Channel <small>(05 43 00 00-0029)</small>		
Note: Includes hex bolt.		

05 Metals**05 40 Cold-Formed Metal Framing****05 43 Slotted Channel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 43 00 00-0031 EA 1/4-20, Steel Lock Nut Without Spring For Unistrut Channel	7.02	
05 43 00 00-0032 EA 3/8-16, Steel Lock Nut Without Spring For Unistrut Channel	7.78	
05 43 00 00-0033 EA 1/2-13, Steel Lock Nut Without Spring For Unistrut Channel	8.23	
05 43 00 00-0034 EA 5/8-11, Steel Lock Nut Without Spring For Unistrut Channel	11.75	
05 43 00 00-0035 Stainless Steel Lock Nuts Without Spring For Unistrut Channel (05 43 00 00-0029) Note: Includes hex bolt.		
05 43 00 00-0036 EA 1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	10.22	
05 43 00 00-0037 EA 3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	12.22	
05 43 00 00-0038 EA 1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	13.28	
05 43 00 00-0039 EA 5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	34.66	
05 43 00 00-0040 Beam Clamp For Unistrut Channel (05 43)		
05 43 00 00-0041 EA 1-5/8" Channel, P2675 Unistrut Beam Clamp	21.76	7.63
05 43 00 00-0042 EA 1-5/8" Channel, P2676 Unistrut Beam Clamp	27.82	7.63
05 43 00 00-0043 EA Add For Unistrut Swivel Nut, P2676.....	3.30	
05 43 00 00-0044 Beam Clamp Clevis Hangers For Unistrut Channel (05 43)		
05 43 00 00-0045 EA Up To 3/8" Rod, Beam Clamp Clevis Hanger (Unistrut P2674)	23.86	7.63
05 43 00 00-0046 EA Up To 1/2" Rod, Beam Clamp Clevis Hanger (Unistrut P2677)	28.68	7.63
05 43 00 00-0047 EA Add For Unistrut Swivel Nut	3.30	
05 43 00 00-0048 EA 6-Hole ElectroGalvanized Steel Shelf Bracket For Unistrut	166.50	10.17
05 45 Metal Support Assemblies (05 40)		
05 45 16 Electrical Metal Supports (05 45) See CSI section 26 05 29 00-0000 for metal supports.		
05 50 Metal Fabrications (05)		
05 51 Metal Stairs (05 50)		
05 51 13 Metal Pan Stairs (05 51) Note: Open concrete filled metal pan stair and landing including steel stringer, safety nosing and concrete. Excludes handrail. See CSI section 05 52 13 00-0000 for handrails.		
05 51 13 00-0001 Open Concrete Filled Metal Pan Stair And Landing (05 51 13) Note: Includes steel stringer, safety nosing and concrete. Excludes handrail.		
05 51 13 00-0002 RSR 3'-6" Wide Open Concrete Filled Metal Pan Tread Stair	950.55	29.83
For Closed Riser, Add	109.98	
05 51 13 00-0003 RSR 4'-0" Wide Open Concrete Filled Metal Pan Tread Stair	1,080.00	34.80
For Closed Riser, Add	124.83	
05 51 13 00-0004 RSR 5'-0" Wide Open Concrete Filled Metal Pan Tread Stair	1,202.67	40.77
For Closed Riser, Add	138.73	
05 51 13 00-0005 SF Concrete Filled Steel Pan Landing.....	81.99	4.97
Note: Conventional shape.		
05 51 19 Metal Grating Stairs (05 51) Note: Open steel grating tread metal stair and landing including steel stringers, safety nosing and 2 pipe handrail.		
05 51 19 00-0001 Open Steel Grating Tread Metal Stair And Landing (05 51 19) Note: Includes steel stringers, safety nosing and 2 pipe handrail.		
05 51 19 00-0002 RSR 3'-6" Wide Open Steel Grating Tread Metal Stair.....	459.80	39.78
For Closed Riser, Add	55.40	
For Galvanized Steel, Add	95.06	
05 51 19 00-0003 RSR 4'-0" Wide Open Steel Grating Tread Metal Stair.....	489.83	45.75
For Closed Riser, Add	58.65	
For Galvanized Steel, Add	99.59	
05 51 19 00-0004 RSR 5'-0" Wide Open Steel Grating Tread Metal Stair.....	541.96	53.70
For Closed Riser, Add	64.55	
For Galvanized Steel, Add	108.64	
05 51 19 00-0005 SF Steel Grating Landing With Framing And 2 Pipe Handrail	85.07	4.97
Note: Conventional shape.		
For Galvanized Steel, Add	16.30	
05 51 33 Metal Ladders (05 51) Note: Includes factory prime.		
05 51 33 13 Vertical Metal Ladders (05 51 33)		
05 51 33 13-0001 Vertical Ladders (05 51 33 13) Note: Climbing rungs are 3/4" corrugated steel round rungs on 12" centers. Stand-off brackets are 7"		
05 51 33 13-0002 VLF 20" Wide Vertical Steel Ladder Primed.....	87.31	11.93
For Galvanized Steel, Add	12.47	
For Aluminum, Add	24.94	
05 51 33 13-0003 VLF 24" Wide Vertical Steel Ladder Primed.....	99.95	11.93
For Galvanized Steel, Add	15.63	
For Aluminum, Add	31.26	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 51 33 13-0004			VLF 20" Wide Vertical Steel Caged Ladder Primed <i>For Galvanized Steel, Add</i>	208.28 36.22	19.89
				<i>For Aluminum, Add</i>	72.45	
	05 51 33 13-0005			VLF 24" Wide Vertical Steel Caged Ladder Primed <i>For Galvanized Steel, Add</i>	233.56 42.54	19.89
				<i>For Aluminum, Add</i>	85.09	
	05 51 33 13-0006			Vertical Ladders Options <small>(05 51 33 13)</small>		
	05 51 33 13-0007	EA		20" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed Note: Extends 42" above landing surface. Includes mounting bracket.	340.38	37.29
				<i>For Galvanized Steel, Add</i>	66.45	
				<i>For Aluminum, Add</i>	132.90	
	05 51 33 13-0008	EA		24" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed Note: Extends 42" above landing surface. Includes mounting bracket.	372.71	39.78
				<i>For Galvanized Steel, Add</i>	73.29	
				<i>For Aluminum, Add</i>	146.58	
	05 51 33 13-0009	EA		Security Cage Entry Gate With Lockable Hasp	513.46	12.43
	05 51 33 13-0010	EA		6' Security Ladder Guard.....	1,093.14	74.58
	05 51 33 13-0011	EA		8' Security Ladder Guard.....	1,307.57	87.01
	05 51 33 13-0012	EA		Safety Chain Attachment	199.69	
	05 51 33 13-0013			Welded Steel Ladder Cages <small>(05 51 33 13)</small>		
				Note: For existing fixed ladders up to 20" wide. Excludes the ladder.		
	05 51 33 13-0014			Powder Coated, Welded Steel Ladder Cages <small>(05 51 33 13-0013)</small>		
	05 51 33 13-0015	EA		7-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,016.95	149.16
	05 51 33 13-0016	EA		8-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,191.81	154.13
	05 51 33 13-0017	EA		9-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,330.83	159.10
	05 51 33 13-0018	EA		10-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,479.41	164.07
	05 51 33 13-0019	EA		11-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,565.85	169.05
	05 51 33 13-0020	EA		12-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,707.26	174.02
	05 51 33 13-0021	EA		13-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,831.94	178.99
	05 51 33 13-0022	EA		14-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,994.86	183.96
	05 51 33 13-0023	EA		15-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,153.01	188.93
	05 51 33 13-0024	EA		16-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,282.46	193.91
	05 51 33 13-0025	EA		17-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,440.61	198.87
	05 51 33 13-0026	EA		18-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,593.97	203.85
	05 51 33 13-0027	EA		19-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,744.95	208.82
	05 51 33 13-0028	EA		20-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,020.21	213.80
	05 51 33 13-0029	EA		21-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,101.86	218.76
	05 51 33 13-0030	EA		22-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,243.27	223.74
	05 51 33 13-0031	EA		23-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,372.72	228.71
	05 51 33 13-0032	EA		24-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,492.63	233.68
	05 51 33 13-0033	EA		25-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,760.72	238.65
	05 51 33 13-0034	EA		26-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,904.52	243.63
	05 51 33 13-0035	EA		27-1/2' Length, Powder Coated, Welded Steel Ladder Cage	5,038.76	248.60
	05 51 33 13-0036			Stainless Steel, Welded Steel Ladder Cages <small>(05 51 33 13-0013)</small>		
	05 51 33 13-0037	EA		7-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	4,843.37	149.16
	05 51 33 13-0038	EA		8-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	5,175.01	154.13
	05 51 33 13-0039	EA		9-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	5,727.99	159.10
	05 51 33 13-0040	EA		10-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	6,000.32	164.07
	05 51 33 13-0041	EA		11-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	6,229.31	169.05
	05 51 33 13-0042	EA		12-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	6,533.58	174.02
	05 51 33 13-0043	EA		13-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	7,082.00	178.99
	05 51 33 13-0044	EA		14-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	7,358.90	183.96
	05 51 33 13-0045	EA		15-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	7,644.93	188.93
	05 51 33 13-0046	EA		16-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	7,958.32	193.91
	05 51 33 13-0047	EA		17-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	8,518.15	198.87
	05 51 33 13-0048	EA		18-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	8,797.33	203.85
	05 51 33 13-0049	EA		19-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	9,062.82	208.82
	05 51 33 13-0050	EA		20-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	9,503.99	213.80
	05 51 33 13-0051	EA		21-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	9,999.93	218.76
	05 51 33 13-0052	EA		22-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	10,274.54	223.74
	05 51 33 13-0053	EA		23-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	10,555.99	228.71
	05 51 33 13-0054	EA		24-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	10,819.21	233.68
	05 51 33 13-0055	EA		25-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	11,497.67	238.65
	05 51 33 13-0056	EA		26-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	11,760.88	243.63
	05 51 33 13-0057	EA		27-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	12,030.93	248.60
	05 51 33 16			Inclined Metal Ladders <small>(05 51 33)</small>		
	05 51 33 16-0001			Industrial Ship Ladder, Incline Stairs <small>(05 51 33 16)</small>		
				Note: Includes factory prime.		
	05 51 33 16-0002	RSR		3' Wide Industrial Steel Ship Ladder With 2 Rails Each Side..... <i>For Aluminum, Add</i>	327.03 113.80	49.72

05	Metals
05 50	Metal Fabrications
05 51	Metal Stairs



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

05 51 33 23 Alternating Tread Ladders (05 51 33)

05 51 33 23-0001	Vertical Ladders With Alternating Tread <small>(05 51 33 23)</small>		
05 51 33 23-0002	EA 4' Vertical Height Aluminum Alternating Tread Ladder	2,081.91	149.16
	For Stainless Steel, Add	196.80	
	For Primed Steel, Deduct	-191.42	
05 51 33 23-0003	EA 5' Vertical Height Aluminum Alternating Tread Ladder	2,384.06	158.11
	For Stainless Steel, Add	240.90	
	For Primed Steel, Deduct	-223.30	
05 51 33 23-0004	EA 6' Vertical Height Aluminum Alternating Tread Ladder	2,646.39	158.11
	For Stainless Steel, Add	288.67	
	For Primed Steel, Deduct	-241.55	
05 51 33 23-0005	EA 7' Vertical Height Aluminum Alternating Tread Ladder	3,021.60	198.68
	For Stainless Steel, Add	347.24	
	For Primed Steel, Deduct	-256.61	
05 51 33 23-0006	EA 8' Vertical Height Aluminum Alternating Tread Ladder	3,317.76	205.71
	For Stainless Steel, Add	388.99	
	For Primed Steel, Deduct	-298.53	
05 51 33 23-0007	EA 9' Vertical Height Aluminum Alternating Tread Ladder	3,549.55	205.71
	For Stainless Steel, Add	453.51	
	For Primed Steel, Deduct	-293.53	
05 51 33 23-0008	EA 10' Vertical Height Aluminum Alternating Tread Ladder.....	3,898.06	229.48
	For Stainless Steel, Add	497.40	
	For Primed Steel, Deduct	-327.55	
05 51 33 23-0009	EA 11' Vertical Height Aluminum Alternating Tread Ladder.....	4,157.77	229.48
	For Stainless Steel, Add	546.61	
	For Primed Steel, Deduct	-347.07	
05 51 33 23-0010	EA 12' Vertical Height Aluminum Alternating Tread Ladder.....	4,359.83	229.48
	For Stainless Steel, Add	623.99	
	For Primed Steel, Deduct	-346.65	

05 52 Metal Railings (05 50)

05 52 13 Pipe and Tube Railings (05 52)

Note: Includes embedded steel sleeves, grouting, connection bolts (where necessary) and drilling of bolt (where necessary).

05 52 13 00-0001	Welded Steel Pipe Railing <small>(05 52 13)</small>		
Note: Includes field welds and touch-up of welds.			
05 52 13 00-0002	One Rail, Up To 42" High, Welded Steel Pipe Railings <small>(05 52 13 00-0001)</small>		
Note: Includes factory primed posts and one rail.			
05 52 13 00-0003	LF 1" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	35.44	9.94
	For Schedule 80 Handrail, Add	4.08	
	For 11 Gauge A513 Steel Tubing, Deduct	-3.42	
	For 12 Gauge A513 Steel Tubing, Deduct	-3.89	
	For 14 Gauge A513 Steel Tubing, Deduct	-5.13	
	For 16 Gauge A513 Steel Tubing, Deduct	-6.06	
	For Additional Off Set Handrail, ADA Attachment, Add	12.47	
	For Aluminum, Satin Finish, Add	6.53	
	For Aluminum, Clear Anodized Finish, Add	10.11	
	For Aluminum, Dark Anodized Finish, Add	11.66	
	For Galvanizing, Add	6.22	
	For Wrought Iron, Add	3.54	
	For Solid Steel Rails, Add	7.09	
	For 304 Stainless Steel, Add	49.76	
	For 316 Stainless Steel, Add	55.98	
	For 2" Wheel Guard, Add	1.48	
	For 4" High Kick Plate, Add	1.94	
	For 6" High Kick Plate, Add	3.11	
	For Curved Rail, Add	15.30	
	For Mounting On Stairs, Add	10.63	
	For Mounting On Slopes, Add	3.54	
	For Post Base Flange With Screws, Add Per Post	19.49	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.48	
	For Custom Design Or Shapes (Square Tops, etc), Add	12.75	
	For Nylon Coating, Add	2.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0004 LF 1-1/4" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	38.12	9.94
For Schedule 80 Handrail, Add	6.30	
For 11 Gauge A513 Steel Tubing, Deduct	-4.01	
For 12 Gauge A513 Steel Tubing, Deduct	-4.56	
For 14 Gauge A513 Steel Tubing, Deduct	-6.02	
For 16 Gauge A513 Steel Tubing, Deduct	-7.11	
For Additional Off Set Handrail, ADA Attachment, Add	12.47	
For Aluminum, Satin Finish, Add	7.66	
For Aluminum, Clear Anodized Finish, Add	11.85	
For Aluminum, Dark Anodized Finish, Add	13.67	
For Galvanizing, Add	7.29	
For Wrought Iron, Add	3.81	
For Solid Steel Rails, Add	7.62	
For 304 Stainless Steel, Add	58.34	
For 316 Stainless Steel, Add	65.63	
For 2" Wheel Guard, Add	1.73	
For 4" High Kick Plate, Add	2.28	
For 6" High Kick Plate, Add	3.65	
For Curved Rail, Add	16.91	
For Mounting On Stairs, Add	11.44	
For Mounting On Slopes, Add	3.81	
For Post Base Flange With Screws, Add Per Post	19.49	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.48	
For Custom Design Or Shapes (Square Tops, etc), Add	14.09	
For Nylon Coating, Add	2.73	
05 52 13 00-0005 LF 1-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	40.80	9.94
For Schedule 80 Handrail, Add	6.30	
For 11 Gauge A513 Steel Tubing, Deduct	-4.60	
For 12 Gauge A513 Steel Tubing, Deduct	-5.23	
For 14 Gauge A513 Steel Tubing, Deduct	-6.90	
For 16 Gauge A513 Steel Tubing, Deduct	-8.15	
For Additional Off Set Handrail, ADA Attachment, Add	12.47	
For Aluminum, Satin Finish, Add	8.78	
For Aluminum, Clear Anodized Finish, Add	13.59	
For Aluminum, Dark Anodized Finish, Add	15.68	
For Galvanizing, Add	8.36	
For Wrought Iron, Add	4.08	
For Solid Steel Rails, Add	8.16	
For 304 Stainless Steel, Add	66.91	
For 316 Stainless Steel, Add	75.28	
For 2" Wheel Guard, Add	1.99	
For 4" High Kick Plate, Add	2.61	
For 6" High Kick Plate, Add	4.18	
For Curved Rail, Add	18.51	
For Mounting On Stairs, Add	12.24	
For Mounting On Slopes, Add	4.08	
For Post Base Flange With Screws, Add Per Post	19.49	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.48	
For Custom Design Or Shapes (Square Tops, etc), Add	15.43	
For Nylon Coating, Add	3.14	
05 52 13 00-0006 LF 2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	45.44	9.94
For Schedule 80 Handrail, Add	7.19	
For 11 Gauge A513 Steel Tubing, Deduct	-5.62	
For 12 Gauge A513 Steel Tubing, Deduct	-6.39	
For 14 Gauge A513 Steel Tubing, Deduct	-8.43	
For 16 Gauge A513 Steel Tubing, Deduct	-9.96	
For Additional Off Set Handrail, ADA Attachment, Add	12.47	
For Aluminum, Satin Finish, Add	10.73	
For Aluminum, Clear Anodized Finish, Add	16.61	
For Aluminum, Dark Anodized Finish, Add	19.16	
For Galvanizing, Add	10.22	
For Wrought Iron, Add	4.54	
For Solid Steel Rails, Add	9.09	
For 304 Stainless Steel, Add	81.76	
For 316 Stainless Steel, Add	91.98	
For 2" Wheel Guard, Add	2.43	
For 4" High Kick Plate, Add	3.19	
For 6" High Kick Plate, Add	5.11	
For Curved Rail, Add	21.30	
For Mounting On Stairs, Add	13.63	
For Mounting On Slopes, Add	4.54	
For Post Base Flange With Screws, Add Per Post	19.49	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.48	
For Custom Design Or Shapes (Square Tops, etc), Add	17.75	
For Nylon Coating, Add	3.83	

05	05 Metals
	05 50 Metal Fabrications
	05 52 Metal Railings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0007 LF 2-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	51.01	9.94
For Schedule 80 Handrail, Add	8.10	
For 11 Gauge A513 Steel Tubing, Deduct	-6.85	
For 12 Gauge A513 Steel Tubing, Deduct	-7.78	
For 14 Gauge A513 Steel Tubing, Deduct	-10.27	
For 16 Gauge A513 Steel Tubing, Deduct	-12.14	
For Additional Off Set Handrail, ADA Attachment, Add	12.47	
For Aluminum, Satin Finish, Add	13.07	
For Aluminum, Clear Anodized Finish, Add	20.23	
For Aluminum, Dark Anodized Finish, Add	23.34	
For Galvanizing, Add	12.45	
For Wrought Iron, Add	5.10	
For Solid Steel Rails, Add	10.20	
For 304 Stainless Steel, Add	99.58	
For 316 Stainless Steel, Add	112.03	
For 2" Wheel Guard, Add	2.96	
For 4" High Kick Plate, Add	3.89	
For 6" High Kick Plate, Add	6.22	
For Curved Rail, Add	24.64	
For Mounting On Stairs, Add	15.30	
For Mounting On Slopes, Add	5.10	
For Post Base Flange With Screws, Add Per Post	19.49	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.48	
For Custom Design Or Shapes (Square Tops, etc), Add	20.53	
For Nylon Coating, Add	4.67	
05 52 13 00-0008 Two Rail, Up To 42" High, Welded Steel Pipe Railings <small>(05 52 13 00-0001)</small>		
Note: Includes factory primed posts and two rails.		
05 52 13 00-0009 LF 1" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	47.10	9.94
For Schedule 80 Handrail, Add	4.08	
For 11 Gauge A513 Steel Tubing, Deduct	-5.99	
For 12 Gauge A513 Steel Tubing, Deduct	-6.80	
For 14 Gauge A513 Steel Tubing, Deduct	-8.98	
For 16 Gauge A513 Steel Tubing, Deduct	-10.61	
For Additional Off Set Handrail, ADA Attachment, Add	12.47	
For Aluminum, Satin Finish, Add	11.43	
For Aluminum, Clear Anodized Finish, Add	17.69	
For Aluminum, Dark Anodized Finish, Add	20.41	
For Galvanizing, Add	10.88	
For Wrought Iron, Add	4.71	
For Solid Steel Rails, Add	9.42	
For 304 Stainless Steel, Add	87.07	
For 316 Stainless Steel, Add	97.96	
For 2" Wheel Guard, Add	2.58	
For 4" High Kick Plate, Add	3.40	
For 6" High Kick Plate, Add	5.44	
For Curved Rail, Add	22.29	
For Mounting On Stairs, Add	14.13	
For Mounting On Slopes, Add	4.71	
For Post Base Flange With Screws, Add Per Post	19.49	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.48	
For Custom Design Or Shapes (Square Tops, etc), Add	18.58	
For Nylon Coating, Add	4.08	
05 52 13 00-0010 LF 1-1/4" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	51.79	9.94
For Schedule 80 Handrail, Add	6.30	
For 11 Gauge A513 Steel Tubing, Deduct	-7.02	
For 12 Gauge A513 Steel Tubing, Deduct	-7.98	
For 14 Gauge A513 Steel Tubing, Deduct	-10.53	
For 16 Gauge A513 Steel Tubing, Deduct	-12.44	
For Additional Off Set Handrail, ADA Attachment, Add	12.47	
For Aluminum, Satin Finish, Add	13.40	
For Aluminum, Clear Anodized Finish, Add	20.74	
For Aluminum, Dark Anodized Finish, Add	23.93	
For Galvanizing, Add	12.76	
For Wrought Iron, Add	5.18	
For Solid Steel Rails, Add	10.36	
For 304 Stainless Steel, Add	102.08	
For 316 Stainless Steel, Add	114.84	
For 2" Wheel Guard, Add	3.03	
For 4" High Kick Plate, Add	3.99	
For 6" High Kick Plate, Add	6.38	
For Curved Rail, Add	25.11	
For Mounting On Stairs, Add	15.54	
For Mounting On Slopes, Add	5.18	
For Post Base Flange With Screws, Add Per Post	19.49	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.48	
For Custom Design Or Shapes (Square Tops, etc), Add	20.92	
For Nylon Coating, Add	4.79	



Metals	05	05
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0011 LF 1-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	56.47	9.94
For Schedule 80 Handrail, Add	6.30	
For 11 Gauge A513 Steel Tubing, Deduct	-8.05	
For 12 Gauge A513 Steel Tubing, Deduct	-9.15	
For 14 Gauge A513 Steel Tubing, Deduct	-12.07	
For 16 Gauge A513 Steel Tubing, Deduct	-14.27	
For Additional Off Set Handrail, ADA Attachment, Add	12.47	
For Aluminum, Satin Finish, Add	15.36	
For Aluminum, Clear Anodized Finish, Add	23.78	
For Aluminum, Dark Anodized Finish, Add	27.44	
For Galvanizing, Add	14.63	
For Wrought Iron, Add	5.65	
For Solid Steel Rails, Add	11.29	
For 304 Stainless Steel, Add	117.06	
For 316 Stainless Steel, Add	131.69	
For 2" Wheel Guard, Add	3.48	
For 4" High Kick Plate, Add	4.57	
For 6" High Kick Plate, Add	7.32	
For Curved Rail, Add	27.92	
For Mounting On Stairs, Add	16.94	
For Mounting On Slopes, Add	5.65	
For Post Base Flange With Screws, Add Per Post	19.49	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.48	
For Custom Design Or Shapes (Square Tops, etc), Add	23.26	
For Nylon Coating, Add	5.49	
05 52 13 00-0012 LF 2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	64.60	9.94
For Schedule 80 Handrail, Add	7.19	
For 11 Gauge A513 Steel Tubing, Deduct	-9.84	
For 12 Gauge A513 Steel Tubing, Deduct	-11.18	
For 14 Gauge A513 Steel Tubing, Deduct	-14.75	
For 16 Gauge A513 Steel Tubing, Deduct	-17.44	
For Additional Off Set Handrail, ADA Attachment, Add	12.47	
For Aluminum, Satin Finish, Add	18.78	
For Aluminum, Clear Anodized Finish, Add	29.06	
For Aluminum, Dark Anodized Finish, Add	33.53	
For Galvanizing, Add	17.88	
For Wrought Iron, Add	6.46	
For Solid Steel Rails, Add	12.92	
For 304 Stainless Steel, Add	143.07	
For 316 Stainless Steel, Add	160.96	
For 2" Wheel Guard, Add	4.25	
For 4" High Kick Plate, Add	5.59	
For 6" High Kick Plate, Add	8.94	
For Curved Rail, Add	32.79	
For Mounting On Stairs, Add	19.38	
For Mounting On Slopes, Add	6.46	
For Post Base Flange With Screws, Add Per Post	19.49	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.48	
For Custom Design Or Shapes (Square Tops, etc), Add	27.33	
For Nylon Coating, Add	6.71	
05 52 13 00-0013 LF 2-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	74.34	9.94
For Schedule 80 Handrail, Add	8.10	
For 11 Gauge A513 Steel Tubing, Deduct	-11.98	
For 12 Gauge A513 Steel Tubing, Deduct	-13.61	
For 14 Gauge A513 Steel Tubing, Deduct	-17.97	
For 16 Gauge A513 Steel Tubing, Deduct	-21.24	
For Additional Off Set Handrail, ADA Attachment, Add	12.47	
For Aluminum, Satin Finish, Add	22.87	
For Aluminum, Clear Anodized Finish, Add	35.39	
For Aluminum, Dark Anodized Finish, Add	40.84	
For Galvanizing, Add	21.78	
For Wrought Iron, Add	7.43	
For Solid Steel Rails, Add	14.87	
For 304 Stainless Steel, Add	174.24	
For 316 Stainless Steel, Add	196.02	
For 2" Wheel Guard, Add	5.17	
For 4" High Kick Plate, Add	6.81	
For 6" High Kick Plate, Add	10.89	
For Curved Rail, Add	38.64	
For Mounting On Stairs, Add	22.30	
For Mounting On Slopes, Add	7.43	
For Post Base Flange With Screws, Add Per Post	19.49	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.48	
For Custom Design Or Shapes (Square Tops, etc), Add	32.20	
For Nylon Coating, Add	8.17	

05 52 13 00-0014 Three Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)
 Note: Includes factory primed posts and three rails.



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

05 52 13 00-0015	LF 1" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	73.86	11.93
	For Schedule 80 Handrail, Add	5.96	
	For 11 Gauge A513 Steel Tubing, Deduct	-11.00	
	For 12 Gauge A513 Steel Tubing, Deduct	-12.50	
	For 14 Gauge A513 Steel Tubing, Deduct	-16.50	
	For 16 Gauge A513 Steel Tubing, Deduct	-19.50	
	For Additional Off Set Handrail, ADA Attachment, Add	13.26	
	For Aluminum, Satin Finish, Add	21.00	
	For Aluminum, Clear Anodized Finish, Add	32.49	
	For Aluminum, Dark Anodized Finish, Add	37.49	
	For Galvanizing, Add	20.00	
	For Wrought Iron, Add	7.39	
	For Solid Steel Rails, Add	14.77	
	For 304 Stainless Steel, Add	159.97	
	For 316 Stainless Steel, Add	179.96	
	For 2" Wheel Guard, Add	4.75	
	For 4" High Kick Plate, Add	6.25	
	For 6" High Kick Plate, Add	10.00	
	For Curved Rail, Add	37.16	
	For Mounting On Stairs, Add	22.16	
	For Mounting On Slopes, Add	7.39	
	For Post Base Flange With Screws, Add Per Post	19.89	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.08	
	For Custom Design Or Shapes (Square Tops, etc), Add	30.96	
	For Nylon Coating, Add	7.50	
05 52 13 00-0016	LF 1-1/4" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	82.47	11.93
	For Schedule 80 Handrail, Add	8.92	
	For 11 Gauge A513 Steel Tubing, Deduct	-12.89	
	For 12 Gauge A513 Steel Tubing, Deduct	-14.65	
	For 14 Gauge A513 Steel Tubing, Deduct	-19.34	
	For 16 Gauge A513 Steel Tubing, Deduct	-22.85	
	For Additional Off Set Handrail, ADA Attachment, Add	13.26	
	For Aluminum, Satin Finish, Add	24.61	
	For Aluminum, Clear Anodized Finish, Add	38.09	
	For Aluminum, Dark Anodized Finish, Add	43.95	
	For Galvanizing, Add	23.44	
	For Wrought Iron, Add	8.25	
	For Solid Steel Rails, Add	16.49	
	For 304 Stainless Steel, Add	187.52	
	For 316 Stainless Steel, Add	210.96	
	For 2" Wheel Guard, Add	5.57	
	For 4" High Kick Plate, Add	7.33	
	For 6" High Kick Plate, Add	11.72	
	For Curved Rail, Add	42.32	
	For Mounting On Stairs, Add	24.74	
	For Mounting On Slopes, Add	8.25	
	For Post Base Flange With Screws, Add Per Post	19.89	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.08	
	For Custom Design Or Shapes (Square Tops, etc), Add	35.27	
	For Nylon Coating, Add	8.79	
05 52 13 00-0017	LF 1-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	91.08	11.93
	For Schedule 80 Handrail, Add	8.92	
	For 11 Gauge A513 Steel Tubing, Deduct	-14.79	
	For 12 Gauge A513 Steel Tubing, Deduct	-16.80	
	For 14 Gauge A513 Steel Tubing, Deduct	-22.18	
	For 16 Gauge A513 Steel Tubing, Deduct	-26.21	
	For Additional Off Set Handrail, ADA Attachment, Add	13.26	
	For Aluminum, Satin Finish, Add	28.23	
	For Aluminum, Clear Anodized Finish, Add	43.69	
	For Aluminum, Dark Anodized Finish, Add	50.41	
	For Galvanizing, Add	26.88	
	For Wrought Iron, Add	9.11	
	For Solid Steel Rails, Add	18.22	
	For 304 Stainless Steel, Add	215.07	
	For 316 Stainless Steel, Add	241.96	
	For 2" Wheel Guard, Add	6.38	
	For 4" High Kick Plate, Add	8.40	
	For 6" High Kick Plate, Add	13.44	
	For Curved Rail, Add	47.49	
	For Mounting On Stairs, Add	27.32	
	For Mounting On Slopes, Add	9.11	
	For Post Base Flange With Screws, Add Per Post	19.89	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.08	
	For Custom Design Or Shapes (Square Tops, etc), Add	39.57	
	For Nylon Coating, Add	10.08	



Metals	05	05
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0018 LF 2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	106.04	11.93
For Schedule 80 Handrail, Add	10.11	
For 11 Gauge A513 Steel Tubing, Deduct	-18.08	
For 12 Gauge A513 Steel Tubing, Deduct	-20.54	
For 14 Gauge A513 Steel Tubing, Deduct	-27.12	
For 16 Gauge A513 Steel Tubing, Deduct	-32.05	
For Additional Off Set Handrail, ADA Attachment, Add	13.26	
For Aluminum, Satin Finish, Add	34.51	
For Aluminum, Clear Anodized Finish, Add	53.41	
For Aluminum, Dark Anodized Finish, Add	61.63	
For Galvanizing, Add	32.87	
For Wrought Iron, Add	10.60	
For Solid Steel Rails, Add	21.21	
For 304 Stainless Steel, Add	262.94	
For 316 Stainless Steel, Add	295.81	
For 2" Wheel Guard, Add	7.81	
For 4" High Kick Plate, Add	10.27	
For 6" High Kick Plate, Add	16.43	
For Curved Rail, Add	56.46	
For Mounting On Stairs, Add	31.81	
For Mounting On Slopes, Add	10.60	
For Post Base Flange With Screws, Add Per Post	19.89	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.08	
For Custom Design Or Shapes (Square Tops, etc), Add	47.05	
For Nylon Coating, Add	12.33	
05 52 13 00-0019 LF 2-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	123.86	11.93
For Schedule 80 Handrail, Add	11.32	
For 11 Gauge A513 Steel Tubing, Deduct	-22.00	
For 12 Gauge A513 Steel Tubing, Deduct	-25.00	
For 14 Gauge A513 Steel Tubing, Deduct	-33.00	
For 16 Gauge A513 Steel Tubing, Deduct	-39.00	
For Additional Off Set Handrail, ADA Attachment, Add	13.26	
For Aluminum, Satin Finish, Add	42.00	
For Aluminum, Clear Anodized Finish, Add	64.99	
For Aluminum, Dark Anodized Finish, Add	74.99	
For Galvanizing, Add	40.00	
For Wrought Iron, Add	12.39	
For Solid Steel Rails, Add	24.77	
For 304 Stainless Steel, Add	319.97	
For 316 Stainless Steel, Add	359.96	
For 2" Wheel Guard, Add	9.50	
For 4" High Kick Plate, Add	12.50	
For 6" High Kick Plate, Add	20.00	
For Curved Rail, Add	67.16	
For Mounting On Stairs, Add	37.16	
For Mounting On Slopes, Add	12.39	
For Post Base Flange With Screws, Add Per Post	19.89	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.08	
For Custom Design Or Shapes (Square Tops, etc), Add	55.96	
For Nylon Coating, Add	15.00	
05 52 13 00-0020 Four Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)		
Note: Includes factory primed posts and four rails.		
05 52 13 00-0021 LF 1" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	89.21	13.92
For Schedule 80 Handrail, Add	8.08	
For 11 Gauge A513 Steel Tubing, Deduct	-13.50	
For 12 Gauge A513 Steel Tubing, Deduct	-15.34	
For 14 Gauge A513 Steel Tubing, Deduct	-20.25	
For 16 Gauge A513 Steel Tubing, Deduct	-23.93	
For Additional Off Set Handrail, ADA Attachment, Add	14.06	
For Aluminum, Satin Finish, Add	25.77	
For Aluminum, Clear Anodized Finish, Add	39.88	
For Aluminum, Dark Anodized Finish, Add	46.02	
For Galvanizing, Add	24.54	
For Wrought Iron, Add	8.92	
For Solid Steel Rails, Add	17.84	
For 304 Stainless Steel, Add	196.35	
For 316 Stainless Steel, Add	220.90	
For 2" Wheel Guard, Add	5.83	
For 4" High Kick Plate, Add	7.67	
For 6" High Kick Plate, Add	12.27	
For Curved Rail, Add	45.17	
For Mounting On Stairs, Add	26.76	
For Mounting On Slopes, Add	8.92	
For Post Base Flange With Screws, Add Per Post	20.29	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.68	
For Custom Design Or Shapes (Square Tops, etc), Add	37.64	
For Nylon Coating, Add	9.20	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52	13 00-0022	LF	1-1/4" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	96.85	13.92
			<i>For Schedule 80 Handrail, Add</i>	11.78	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-15.18	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-17.25	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-22.77	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-26.91	
			<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	14.06	
			<i>For Aluminum, Satin Finish, Add</i>	28.98	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	44.85	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	51.75	
			<i>For Galvanizing, Add</i>	27.60	
			<i>For Wrought Iron, Add</i>	9.69	
			<i>For Solid Steel Rails, Add</i>	19.37	
			<i>For 304 Stainless Steel, Add</i>	220.80	
			<i>For 316 Stainless Steel, Add</i>	248.40	
			<i>For 2" Wheel Guard, Add</i>	6.56	
			<i>For 4" High Kick Plate, Add</i>	8.63	
			<i>For 6" High Kick Plate, Add</i>	13.80	
			<i>For Curved Rail, Add</i>	49.76	
			<i>For Mounting On Stairs, Add</i>	29.06	
			<i>For Mounting On Slopes, Add</i>	9.69	
			<i>For Post Base Flange With Screws, Add Per Post</i>	20.29	
			<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	30.68	
			<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	41.46	
			<i>For Nylon Coating, Add</i>	10.35	
05 52	13 00-0023	LF	1-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	104.50	13.92
			<i>For Schedule 80 Handrail, Add</i>	11.78	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-16.86	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-19.16	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-25.29	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-29.89	
			<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	14.06	
			<i>For Aluminum, Satin Finish, Add</i>	32.19	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	49.82	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	57.49	
			<i>For Galvanizing, Add</i>	30.66	
			<i>For Wrought Iron, Add</i>	10.45	
			<i>For Solid Steel Rails, Add</i>	20.90	
			<i>For 304 Stainless Steel, Add</i>	245.28	
			<i>For 316 Stainless Steel, Add</i>	275.94	
			<i>For 2" Wheel Guard, Add</i>	7.28	
			<i>For 4" High Kick Plate, Add</i>	9.58	
			<i>For 6" High Kick Plate, Add</i>	15.33	
			<i>For Curved Rail, Add</i>	54.35	
			<i>For Mounting On Stairs, Add</i>	31.35	
			<i>For Mounting On Slopes, Add</i>	10.45	
			<i>For Post Base Flange With Screws, Add Per Post</i>	20.29	
			<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	30.68	
			<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	45.29	
			<i>For Nylon Coating, Add</i>	11.50	
05 52	13 00-0024	LF	2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	121.52	13.92
			<i>For Schedule 80 Handrail, Add</i>	13.27	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-20.61	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-23.42	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-30.91	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-36.53	
			<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	14.06	
			<i>For Aluminum, Satin Finish, Add</i>	39.34	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	60.89	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	70.25	
			<i>For Galvanizing, Add</i>	37.47	
			<i>For Wrought Iron, Add</i>	12.15	
			<i>For Solid Steel Rails, Add</i>	24.30	
			<i>For 304 Stainless Steel, Add</i>	299.74	
			<i>For 316 Stainless Steel, Add</i>	337.21	
			<i>For 2" Wheel Guard, Add</i>	8.90	
			<i>For 4" High Kick Plate, Add</i>	11.71	
			<i>For 6" High Kick Plate, Add</i>	18.73	
			<i>For Curved Rail, Add</i>	64.56	
			<i>For Mounting On Stairs, Add</i>	36.46	
			<i>For Mounting On Slopes, Add</i>	12.15	
			<i>For Post Base Flange With Screws, Add Per Post</i>	20.29	
			<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	30.68	
			<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	53.80	
			<i>For Nylon Coating, Add</i>	14.05	



Metals	05	05
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0025 LF 2-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	141.47	13.92
For Schedule 80 Handrail, Add	14.78	
For 11 Gauge A513 Steel Tubing, Deduct	-25.00	
For 12 Gauge A513 Steel Tubing, Deduct	-28.41	
For 14 Gauge A513 Steel Tubing, Deduct	-37.49	
For 16 Gauge A513 Steel Tubing, Deduct	-44.31	
For Additional Off Set Handrail, ADA Attachment, Add	14.06	
For Aluminum, Satin Finish, Add	47.72	
For Aluminum, Clear Anodized Finish, Add	73.85	
For Aluminum, Dark Anodized Finish, Add	85.22	
For Galvanizing, Add	45.45	
For Wrought Iron, Add	14.15	
For Solid Steel Rails, Add	28.29	
For 304 Stainless Steel, Add	363.58	
For 316 Stainless Steel, Add	409.03	
For 2" Wheel Guard, Add	10.79	
For 4" High Kick Plate, Add	14.20	
For 6" High Kick Plate, Add	22.72	
For Curved Rail, Add	76.53	
For Mounting On Stairs, Add	42.44	
For Mounting On Slopes, Add	14.15	
For Post Base Flange With Screws, Add Per Post	20.29	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.68	
For Custom Design Or Shapes (Square Tops, etc), Add	63.77	
For Nylon Coating, Add	17.04	
05 52 13 00-0026 Railing Infill Panels (05 52 13)		
Note: Includes field welds and touch-up of welds.		
05 52 13 00-0027 Wire Mesh Or Welded Wire Mesh, Railing Infill Panels (05 52 13 00-0026)		
Note: Square weave or square welded wire mesh.		
05 52 13 00-0028 SF Powder Coated Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	13.86	
05 52 13 00-0029 SF Galvanized Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	14.72	
05 52 13 00-0030 SF Aluminum, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	15.47	
05 52 13 00-0031 SF Stainless Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	26.16	
05 52 13 00-0032 Perforated Metal, Railing Infill Panels (05 52 13 00-0026)		
05 52 13 00-0033 SF Powder Coated Steel, Perforated Metal, Railing Infill Panel	13.59	
05 52 13 00-0034 SF Galvanized Steel, Perforated Metal, Railing Infill Panel	14.05	
05 52 13 00-0035 SF Aluminum, Perforated Metal, Railing Infill Panel	15.04	
05 52 13 00-0036 SF Stainless Steel, Perforated Metal, Railing Infill Panel	30.19	
05 52 13 00-0037 Expanded Metal, Railing Infill Panels (05 52 13 00-0026)		
05 52 13 00-0038 SF Powder Coated Steel, Expanded Metal, Railing Infill Panel	6.13	
05 52 13 00-0039 SF Galvanized Steel, Expanded Metal, Railing Infill Panel	12.53	
05 52 13 00-0040 SF Aluminum, Expanded Metal, Railing Infill Panel	16.46	
05 52 13 00-0041 SF Stainless Steel, Expanded Metal, Railing Infill Panel	24.53	
05 52 13 00-0042 Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings (05 52 13)		
Note: Includes factory primed, fasteners and field touch-up of welds.		
05 52 13 00-0043 LF 1" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	35.74	5.97
For Schedule 80 Handrail, Add	2.27	
For 11 Gauge A513 Steel Tubing, Deduct	-4.58	
For 12 Gauge A513 Steel Tubing, Deduct	-5.21	
For 14 Gauge A513 Steel Tubing, Deduct	-6.87	
For 16 Gauge A513 Steel Tubing, Deduct	-8.12	
For Stainless Steel, Add	41.66	
For Aluminum, Satin Finish, Add	8.75	
For Curved Rail, Add	10.72	
For Aluminum, Clear Anodized Finish, Add	13.54	
For Aluminum, Dark Anodized Finish, Add	15.62	
For Galvanized Finish, Add	6.25	
05 52 13 00-0044 LF 1-1/4" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	36.41	5.97
For Schedule 80 Handrail, Add	2.63	
For 11 Gauge A513 Steel Tubing, Deduct	-4.73	
For 12 Gauge A513 Steel Tubing, Deduct	-5.38	
For 14 Gauge A513 Steel Tubing, Deduct	-7.10	
For 16 Gauge A513 Steel Tubing, Deduct	-8.39	
For Stainless Steel, Add	43.00	
For Aluminum, Satin Finish, Add	9.03	
For Curved Rail, Add	10.92	
For Aluminum, Clear Anodized Finish, Add	13.98	
For Aluminum, Dark Anodized Finish, Add	16.13	
For Galvanized Finish, Add	6.45	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0045	LF		1-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	37.08	5.97
			<i>For Schedule 80 Handrail, Add</i>	7.57	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-4.88	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-5.54	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-7.32	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-8.65	
			<i>For Stainless Steel, Add</i>	44.34	
			<i>For Aluminum, Satin Finish, Add</i>	9.31	
			<i>For Curved Rail, Add</i>	11.12	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	14.41	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	16.63	
			<i>For Galvanized Finish, Add</i>	6.65	
05 52 13 00-0046	LF		2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	44.81	5.97
			<i>For Schedule 80 Handrail, Add</i>	3.31	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-6.58	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-7.48	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-9.87	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-11.66	
			<i>For Stainless Steel, Add</i>	59.80	
			<i>For Aluminum, Satin Finish, Add</i>	12.56	
			<i>For Curved Rail, Add</i>	13.44	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	19.44	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	22.43	
			<i>For Galvanized Finish, Add</i>	8.97	
05 52 13 00-0047	LF		2-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	51.19	5.97
			<i>For Schedule 80 Handrail, Add</i>	3.61	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-7.98	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-9.07	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-11.97	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-14.15	
			<i>For Stainless Steel, Add</i>	72.56	
			<i>For Aluminum, Satin Finish, Add</i>	15.24	
			<i>For Curved Rail, Add</i>	15.36	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	23.58	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	27.21	
			<i>For Galvanized Finish, Add</i>	10.88	
05 52 13 00-0048			Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings <small>(05 52 13)</small>		
			Note: Includes factory primed, fasteners and field touch-up of welds.		
05 52 13 00-0049	LF		1" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	43.63	6.26
			<i>For Schedule 80 Handrail, Add</i>	2.27	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-6.32	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-7.18	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-9.48	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-11.20	
			<i>For Stainless Steel, Add</i>	57.44	
			<i>For Aluminum, Satin Finish, Add</i>	12.06	
			<i>For Curved Rail, Add</i>	13.09	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	18.67	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	21.54	
			<i>For Galvanized Finish, Add</i>	8.62	
05 52 13 00-0050	LF		1-1/4" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	44.57	6.26
			<i>For Schedule 80 Handrail, Add</i>	2.63	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-6.53	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-7.42	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-9.79	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-11.57	
			<i>For Stainless Steel, Add</i>	59.32	
			<i>For Aluminum, Satin Finish, Add</i>	12.46	
			<i>For Curved Rail, Add</i>	13.37	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	19.28	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	22.25	
			<i>For Galvanized Finish, Add</i>	8.90	
05 52 13 00-0051	LF		1-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	45.28	6.26
			<i>For Schedule 80 Handrail, Add</i>	7.57	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-6.68	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-7.59	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-10.02	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-11.84	
			<i>For Stainless Steel, Add</i>	60.74	
			<i>For Aluminum, Satin Finish, Add</i>	12.76	
			<i>For Curved Rail, Add</i>	13.58	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	19.74	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	22.78	
			<i>For Galvanized Finish, Add</i>	9.11	



	Metals	05
	Metal Fabrications	05 50
	Metal Railings	05 52

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0052	LF		2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	56.06	6.26
			<i>For Schedule 80 Handrail, Add</i>	3.31	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-9.05	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-10.29	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-13.58	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-16.05	
			<i>For Stainless Steel, Add</i>	82.30	
			<i>For Aluminum, Satin Finish, Add</i>	17.28	
			<i>For Curved Rail, Add</i>	16.82	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	26.75	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	30.86	
			<i>For Galvanized Finish, Add</i>	12.35	
05 52 13 00-0053	LF		2-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	63.11	6.26
			<i>For Schedule 80 Handrail, Add</i>	3.61	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-10.60	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-12.05	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-15.91	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-18.80	
			<i>For Stainless Steel, Add</i>	96.40	
			<i>For Aluminum, Satin Finish, Add</i>	20.24	
			<i>For Curved Rail, Add</i>	18.93	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	31.33	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	36.15	
			<i>For Galvanized Finish, Add</i>	14.46	
05 52 13 00-0054			Remove/Reinstall Pipe Railing <small>(05 52 13)</small>		
05 52 13 00-0055	LF		Removal And Reinstallation Of Wall Bracket Mounted Pipe Railing.....	22.38	
05 52 13 00-0056	LF		Removal And Reinstallation Of Floor Mounted Pipe Railing.....	29.91	
05 52 13 00-0057	EA		Install New Galvanized Steel Pipe Railing Bracket.....	60.33	
			<i>For Stainless Steel, Add</i>	61.00	
05 53			Metal Gratings <small>(05 50)</small>		
05 53 13			Bar Gratings <small>(05 53)</small>		
05 53 13 00-0001			Welded Grating <small>(05 53 13)</small>		
			Note: Sizes are for height and width of bearing bars. Welded grating is open grid grating which has bearing bars and cross bars locked in place by resistance welding, or conventional hand welding. Resistance welded grating is produced on precise automated production equipment by combining hydraulic pressure with a powerful electric current to fuse - electroforge - the cross bar and bearing bar into a single rigid panel.		
05 53 13 00-0002			Steel, Welded Grating <small>(05 53 13 00-0001)</small>		
			Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0003	SF		3/4" x 1/8" Steel, Welded Grating.....	8.23	1.10
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	1.03	
			<i>For 304 Stainless Steel, Add</i>	19.39	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	1.76	
			<i>For Crossbars At 2" On-Center, Add</i>	0.65	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-1.62	
05 53 13 00-0004	SF		3/4" x 3/16" Steel, Welded Grating.....	10.73	1.10
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	1.45	
			<i>For 304 Stainless Steel, Add</i>	27.41	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	2.49	
			<i>For Crossbars At 2" On-Center, Add</i>	0.92	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-1.68	
05 53 13 00-0005	SF		1" x 1/8" Steel, Welded Grating.....	9.83	1.10
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	1.30	
			<i>For 304 Stainless Steel, Add</i>	24.52	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	2.23	
			<i>For Crossbars At 2" On-Center, Add</i>	0.83	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-1.66	
05 53 13 00-0006	SF		1" x 3/16" Steel, Welded Grating.....	13.22	1.10
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	1.88	
			<i>For 304 Stainless Steel, Add</i>	35.41	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	3.22	
			<i>For Crossbars At 2" On-Center, Add</i>	1.19	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-1.74	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0007	SF		1" x 1/4" Steel, Welded Grating.....	16.62	1.10
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.45	
			For 304 Stainless Steel, Add	46.32	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	4.21	
			For Crossbars At 2" On-Center, Add	1.56	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.83	
05 53 13 00-0008	SF		1-1/4" x 1/8" Steel, Welded Grating	11.46	1.10
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	1.58	
			For 304 Stainless Steel, Add	29.76	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	2.71	
			For Crossbars At 2" On-Center, Add	1.00	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.70	
05 53 13 00-0009	SF		1-1/4" x 3/16" Steel, Welded Grating	15.58	1.10
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.28	
			For 304 Stainless Steel, Add	42.98	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	3.91	
			For Crossbars At 2" On-Center, Add	1.45	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.80	
05 53 13 00-0010	SF		1-1/2" x 1/8" Steel, Welded Grating	13.08	1.10
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	1.85	
			For 304 Stainless Steel, Add	34.96	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	3.18	
			For Crossbars At 2" On-Center, Add	1.18	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.74	
05 53 13 00-0011	SF		1-1/2" x 3/16" Steel, Welded Grating	18.55	1.35
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.70	
			For 304 Stainless Steel, Add	50.94	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	4.63	
			For Crossbars At 2" On-Center, Add	1.71	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.19	
05 53 13 00-0012	SF		1-1/2" x 1/4" Steel, Welded Grating	23.71	1.35
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.58	
			For 304 Stainless Steel, Add	67.51	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	6.14	
			For Crossbars At 2" On-Center, Add	2.27	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.32	
05 53 13 00-0013	SF		1-3/4" x 3/16" Steel, Welded Grating	21.07	1.35
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.13	
			For 304 Stainless Steel, Add	59.03	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	5.37	
			For Crossbars At 2" On-Center, Add	1.99	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.26	
05 53 13 00-0014	SF		2" x 3/16" Steel, Welded Grating.....	23.43	1.35
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.53	
			For 304 Stainless Steel, Add	66.61	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	6.06	
			For Crossbars At 2" On-Center, Add	2.24	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.31	
05 53 13 00-0015	SF		2-1/4" x 3/16" Steel, Welded Grating	25.93	1.35
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.95	
			For 304 Stainless Steel, Add	74.63	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	6.79	
			For Crossbars At 2" On-Center, Add	2.51	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.38	



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	Metal Fabrications	05 50
	Metal Gratings	05 53

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0016 SF 2-1/2" x 3/16" Steel, Welded Grating.....	28.28	1.35
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.35	
For 304 Stainless Steel, Add	82.18	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	7.48	
For Crossbars At 2" On-Center, Add	2.76	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.44	
05 53 13 00-0017 Pressure Locked Grating <small>(05 53 13)</small>		
Note: Sizes are for height and width of bearing bars. Pressure locked grating is an open grid grating which is an assembly of tight-fitting, slotted bearing bars and cross bars, interlocked together. The permanent locking of the bars is accomplished by slotting the bearing bars with a wider 'dovetail' shape at the bottom of the slot. The bearing bar slot is usually 1/2 the depth of the cross bar. The cross bars are slotted to a depth slightly less than half its depth. When the bars are pressed together under hydraulic pressure, the cross bar material is forced into the 'dovetail' shape of the bearing bar notch, forming a strong, rigid unit.		
05 53 13 00-0018 Steel, Pressure Locked Grating <small>(05 53 13 00-0017)</small>		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0019 SF 3/4" x 1/8" Steel, Pressure Locked Grating.....	14.78	1.10
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.06	
For 304 Stainless Steel, Add	23.56	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	3.68	
For Crossbars At 2" On-Center, Add	1.36	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.78	
05 53 13 00-0020 SF 3/4" x 3/16" Steel, Pressure Locked Grating.....	17.99	1.10
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.59	
For 304 Stainless Steel, Add	29.56	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	4.61	
For Crossbars At 2" On-Center, Add	1.71	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.86	
05 53 13 00-0021 SF 1" x 1/8" Steel, Pressure Locked Grating.....	16.15	1.10
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.29	
For 304 Stainless Steel, Add	26.12	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	4.08	
For Crossbars At 2" On-Center, Add	1.51	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.82	
05 53 13 00-0022 SF 1" x 3/16" Steel, Pressure Locked Grating.....	21.67	1.10
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.19	
For 304 Stainless Steel, Add	36.45	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 7/16" On-Center, Add	28.25	
For Bearing Bars At 15/16" On-Center, Add	5.69	
For Crossbars At 2" On-Center, Add	2.10	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.95	
05 53 13 00-0023 SF 1-1/4" x 1/8" Steel, Pressure Locked Grating.....	17.99	1.10
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.59	
For 304 Stainless Steel, Add	29.56	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	4.61	
For Crossbars At 2" On-Center, Add	1.71	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.86	
05 53 13 00-0024 SF 1-1/4" x 3/16" Steel, Pressure Locked Grating.....	24.22	1.10
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.61	
For 304 Stainless Steel, Add	41.22	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	6.43	
For Crossbars At 2" On-Center, Add	2.38	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.02	
05 53 13 00-0025 SF 1-1/2" x 1/8" Steel, Pressure Locked Grating.....	19.92	1.10
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.91	
For 304 Stainless Steel, Add	33.17	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	5.18	
For Crossbars At 2" On-Center, Add	1.91	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.91	

05	Metals
05 50	Metal Fabrications
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0026	SF		1-1/2" x 3/16" Steel, Pressure Locked Grating.....	27.39	1.35
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	4.05	
			For 304 Stainless Steel, Add	46.23	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 7/16" On-Center, Add	35.83	
			For Bearing Bars At 15/16" On-Center, Add	7.22	
			For Crossbars At 2" On-Center, Add	2.67	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.41	
05 53 13 00-0027	SF		1-3/4" x 3/16" Steel, Pressure Locked Grating.....	30.09	1.35
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	4.50	
			For 304 Stainless Steel, Add	51.28	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	8.00	
			For Crossbars At 2" On-Center, Add	2.96	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.48	
05 53 13 00-0028	SF		2" x 3/16" Steel, Pressure Locked Grating.....	32.28	1.35
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	4.85	
			For 304 Stainless Steel, Add	55.38	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	8.64	
			For Crossbars At 2" On-Center, Add	3.20	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.54	
05 53 13 00-0029	SF		2-1/4" x 3/16" Steel, Pressure Locked Grating.....	34.39	1.35
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	5.20	
			For 304 Stainless Steel, Add	59.33	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	9.26	
			For Crossbars At 2" On-Center, Add	3.42	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.59	
05 53 13 00-0030	SF		2-1/2" x 3/16" Steel, Pressure Locked Grating.....	36.21	1.35
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	5.50	
			For 304 Stainless Steel, Add	62.73	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	9.79	
			For Crossbars At 2" On-Center, Add	3.62	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.63	
05 53 13 00-0031			Aluminum, Type 6063, Pressure Locked Grating (05 53 13 00-0017)		
			Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.		
05 53 13 00-0032	SF		3/4" x 1/8" Aluminum, Pressure Locked Grating.....	17.58	1.10
			For Bearing Bars At 15/16" On-Center, Add	4.49	
			For Crossbars At 2" On-Center, Add	1.66	
			For Set In Place Without Bolting, Deduct	-1.85	
			For Powder Coating, Add	2.31	
05 53 13 00-0033	SF		3/4" x 3/16" Aluminum, Pressure Locked Grating.....	23.89	1.10
			For Bearing Bars At 15/16" On-Center, Add	6.34	
			For Crossbars At 2" On-Center, Add	2.34	
			For Set In Place Without Bolting, Deduct	-2.01	
			For Powder Coating, Add	3.26	
05 53 13 00-0034	SF		1" x 1/8" Aluminum, Pressure Locked Grating.....	22.53	1.10
			For Bearing Bars At 15/16" On-Center, Add	5.94	
			For Crossbars At 2" On-Center, Add	2.20	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-1.98	
			For Powder Coating, Add	3.05	
05 53 13 00-0035	SF		1" x 3/16" Aluminum, Pressure Locked Grating.....	30.69	1.10
			For Bearing Bars At 7/16" On-Center, Add	41.33	
			For Bearing Bars At 15/16" On-Center, Add	8.32	
			For Crossbars At 2" On-Center, Add	3.08	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.18	
			For Powder Coating, Add	4.28	
05 53 13 00-0036	SF		1-1/4" x 1/8" Aluminum, Pressure Locked Grating.....	26.12	1.10
			For Bearing Bars At 15/16" On-Center, Add	6.99	
			For Crossbars At 2" On-Center, Add	2.58	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.07	
			For Powder Coating, Add	3.59	
05 53 13 00-0037	SF		1-1/4" x 3/16" Aluminum, Pressure Locked Grating.....	35.02	1.10
			For Bearing Bars At 15/16" On-Center, Add	9.59	
			For Crossbars At 2" On-Center, Add	3.55	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.29	
			For Powder Coating, Add	4.92	



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	Metal Fabrications	05 50
	Metal Gratings	05 53

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0038	SF		1-1/2" x 1/8" Aluminum, Pressure Locked Grating.....	29.50	1.10
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	7.97	
			<i>For Crossbars At 2" On-Center, Add</i>	2.95	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.15	
			<i>For Powder Coating, Add</i>	4.10	
05 53 13 00-0039	SF		1-1/2" x 3/16" Aluminum, Pressure Locked Grating.....	39.48	1.10
			<i>For Bearing Bars At 7/16" On-Center, Add</i>	54.07	
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	10.89	
			<i>For Crossbars At 2" On-Center, Add</i>	4.03	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.40	
			<i>For Powder Coating, Add</i>	5.59	
05 53 13 00-0040	SF		1-3/4" x 3/16" Aluminum, Pressure Locked Grating.....	43.75	1.10
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	12.14	
			<i>For Crossbars At 2" On-Center, Add</i>	4.49	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.51	
			<i>For Powder Coating, Add</i>	6.23	
05 53 13 00-0041	SF		2" x 3/16" Aluminum, Pressure Locked Grating.....	48.81	1.10
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	13.61	
			<i>For Crossbars At 2" On-Center, Add</i>	5.03	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.63	
			<i>For Powder Coating, Add</i>	6.99	
05 53 13 00-0042	SF		2-1/4" x 3/16" Aluminum, Pressure Locked Grating.....	52.78	1.10
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	14.77	
			<i>For Crossbars At 2" On-Center, Add</i>	5.46	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.73	
			<i>For Powder Coating, Add</i>	7.59	
05 53 13 00-0043	SF		2-1/2" x 3/16" Aluminum, Pressure Locked Grating.....	57.51	1.10
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	16.15	
			<i>For Crossbars At 2" On-Center, Add</i>	5.97	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.85	
			<i>For Powder Coating, Add</i>	8.30	
05 53 13 00-0044			Swage Locked Grating <small>(05 53 13)</small>		
			Note: Sizes are for height and width of bearing bars. Swage locked grating is an open grid grating where bearing bars are pre-punched to receive a cross bar without penetrating or cutting the top surface of the bearing bar. The cross bar is then inserted through the pre-punched hole and deformed by swaging or squeezing under hydraulic pressure to permanently lock the bars in place.		
05 53 13 00-0045			Steel, Swage Locked Grating <small>(05 53 13 00-0044)</small>		
			Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0046	SF		1" x 3/16" Steel, Swaged Grating.....	23.63	1.10
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	1.97	
			<i>For 304 Stainless Steel, Add</i>	35.55	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	13.72	
			<i>For Crossbars At 2" On-Center, Add</i>	1.72	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-2.00	
05 53 13 00-0047	SF		1-1/4" x 3/16" Steel, Swaged Grating.....	26.28	1.10
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	2.22	
			<i>For 304 Stainless Steel, Add</i>	39.94	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	15.42	
			<i>For Crossbars At 2" On-Center, Add</i>	1.93	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-2.07	
05 53 13 00-0048	SF		1-1/2" x 3/16" Steel, Swaged Grating.....	28.84	1.35
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	2.41	
			<i>For 304 Stainless Steel, Add</i>	43.37	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	16.74	
			<i>For Crossbars At 2" On-Center, Add</i>	2.09	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-2.45	
05 53 13 00-0049	SF		1-3/4" x 3/16" Steel, Swaged Grating.....	32.89	1.35
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	2.78	
			<i>For 304 Stainless Steel, Add</i>	50.09	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	19.33	
			<i>For Crossbars At 2" On-Center, Add</i>	2.42	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-2.55	

05 Metals

05 50 Metal Fabrications

05 53 Metal Gratings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0050	SF		2" x 3/16" Steel, Swaged Grating.....	36.96	1.35
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.15	
			For 304 Stainless Steel, Add	56.84	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	21.94	
			For Crossbars At 2" On-Center, Add	2.74	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.65	
05 53 13 00-0051	SF		2-1/4" x 3/16" Steel, Swaged Grating.....	41.02	1.35
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.53	
			For 304 Stainless Steel, Add	63.57	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	24.54	
			For Crossbars At 2" On-Center, Add	3.07	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.75	
05 53 13 00-0052	SF		2-1/2" x 3/16" Steel, Swaged Grating.....	45.09	1.35
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.90	
			For 304 Stainless Steel, Add	70.32	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	27.14	
			For Crossbars At 2" On-Center, Add	3.39	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.86	
05 53 13 00-0053			Aluminum Grating, Type 6063, Swage Locked <small>(05 53 13 00-0044)</small>		
			Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.		
05 53 13 00-0054	SF		1" x 1/8" Aluminum, Swaged Grating.....	20.79	1.10
			For Bearing Bars At 15/16" On-Center, Add	11.90	
			For Crossbars At 2" On-Center, Add	1.49	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-1.93	
			For Powder Coating, Add	2.79	
05 53 13 00-0055	SF		1" x 3/16" Aluminum, Swaged Grating.....	27.02	1.10
			For Bearing Bars At 15/16" On-Center, Add	15.89	
			For Crossbars At 2" On-Center, Add	1.99	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.09	
			For Powder Coating, Add	3.72	
05 53 13 00-0056	SF		1-1/4" x 1/8" Aluminum, Swaged Grating.....	23.59	1.10
			For Bearing Bars At 15/16" On-Center, Add	13.70	
			For Crossbars At 2" On-Center, Add	1.71	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.00	
			For Powder Coating, Add	3.21	
05 53 13 00-0057	SF		1-1/4" x 3/16" Aluminum, Swaged Grating.....	31.21	1.10
			For Bearing Bars At 15/16" On-Center, Add	18.57	
			For Crossbars At 2" On-Center, Add	2.32	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.19	
			For Powder Coating, Add	4.35	
05 53 13 00-0058	SF		1-1/2" x 1/8" Aluminum, Swaged Grating.....	26.91	1.10
			For Bearing Bars At 15/16" On-Center, Add	15.82	
			For Crossbars At 2" On-Center, Add	1.98	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.09	
			For Powder Coating, Add	3.71	
05 53 13 00-0059	SF		1-1/2" x 3/16" Aluminum, Swaged Grating.....	35.70	1.10
			For Bearing Bars At 15/16" On-Center, Add	21.45	
			For Crossbars At 2" On-Center, Add	2.68	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.31	
			For Powder Coating, Add	5.03	
05 53 13 00-0060	SF		1-3/4" x 3/16" Aluminum, Swaged Grating.....	40.87	1.10
			For Bearing Bars At 15/16" On-Center, Add	24.76	
			For Crossbars At 2" On-Center, Add	3.09	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.43	
			For Powder Coating, Add	5.80	
05 53 13 00-0061	SF		2" x 3/16" Aluminum, Swaged Grating.....	46.01	1.10
			For Bearing Bars At 15/16" On-Center, Add	28.04	
			For Crossbars At 2" On-Center, Add	3.51	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.56	
			For Powder Coating, Add	6.57	
05 53 13 00-0062	SF		2-1/4" x 3/16" Aluminum, Swaged Grating.....	51.17	1.10
			For Bearing Bars At 15/16" On-Center, Add	31.35	
			For Crossbars At 2" On-Center, Add	3.92	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.69	
			For Powder Coating, Add	7.35	



	Metals 05	
	Metal Fabrications 05 50	05
	Metal Gratings 05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0063 SF 2-1/2" x 3/16" Aluminum, Swaged Grating.....	56.31	1.10
For Bearing Bars At 15/16" On-Center, Add	34.64	
For Crossbars At 2" On-Center, Add	4.33	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.82	
For Powder Coating, Add	8.12	
05 53 13 00-0064 Riveted Grating <small>(05 53 13)</small>		
Note: Riveted grating is an open grid grating where bearing bars are pre-punched to receive a solid round rivet. Crimp/lacing bars are pre-punched as well and then formed into a reticulated shape. Bearing bars and crimp bars are then assembled and clamped in place by rivets which are cold driven under hydraulic pressure to permanently lock the assembly together.		
05 53 13 00-0065 Steel, Riveted Grating <small>(05 53 13 00-0064)</small>		
Note: 1" clear opening, bolted or tack welded in place, unpainted steel, all sizes.		
05 53 13 00-0066 SF 3/4" x 1/8", 7.0 LB/SF, Steel, Riveted Grating.....	44.13	1.10
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.01	
For 304 Stainless Steel, Add	36.03	
For 5/8" Clear Opening, Add	14.47	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.52	
05 53 13 00-0067 SF 3/4" x 3/16", 8.5 LB/SF, Steel, Riveted Grating.....	51.81	1.10
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.38	
For 304 Stainless Steel, Add	42.62	
For 5/8" Clear Opening, Add	17.12	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.71	
05 53 13 00-0068 SF 1" x 1/8", 8.0 LB/SF, Steel, Riveted Grating.....	47.67	1.10
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.18	
For 304 Stainless Steel, Add	39.07	
For 5/8" Clear Opening, Add	15.69	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.60	
05 53 13 00-0069 SF 1" x 3/16", 9.5 LB/SF, Steel, Riveted Grating.....	54.74	1.10
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.52	
For 304 Stainless Steel, Add	45.14	
For 5/8" Clear Opening, Add	18.13	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.78	
05 53 13 00-0070 SF 1-1/4" x 1/8", 9.0 LB/SF, Steel, Riveted Grating	50.60	1.10
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.32	
For 304 Stainless Steel, Add	41.58	
For 5/8" Clear Opening, Add	16.70	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.68	
05 53 13 00-0071 SF 1-1/4" x 3/16", 11.1 LB/SF, Steel, Riveted Grating	60.19	1.10
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.78	
For 304 Stainless Steel, Add	49.82	
For 5/8" Clear Opening, Add	20.01	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.92	
05 53 13 00-0072 SF 1-1/2" x 1/8", 10.1 LB/SF, Steel, Riveted Grating	53.91	1.35
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.46	
For 304 Stainless Steel, Add	44.01	
For 5/8" Clear Opening, Add	17.67	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.08	
05 53 13 00-0073 SF 1-1/2" x 3/16", 12.5 LB/SF, Steel, Riveted Grating	64.16	1.35
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.95	
For 304 Stainless Steel, Add	52.81	
For 5/8" Clear Opening, Add	21.21	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.33	
05 53 13 00-0074 SF 1-3/4" x 3/16", 14.0 LB/SF, Steel, Riveted Grating	69.39	1.35
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.20	
For 304 Stainless Steel, Add	57.30	
For 5/8" Clear Opening, Add	23.01	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.46	
05 53 13 00-0075 SF 2" x 3/16", 17.0 LB/SF, Steel, Riveted Grating.....	81.07	1.35
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.76	
For 304 Stainless Steel, Add	67.34	
For 5/8" Clear Opening, Add	27.04	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.76	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0076	SF		2-1/4" x 3/16", 18.5 LB/SF, Steel, Riveted Grating.....	85.14	1.35
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.96	
			For 304 Stainless Steel, Add	70.83	
			For 5/8" Clear Opening, Add	28.45	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-3.86	
05 53 13 00-0077	SF		2-1/2" x 3/16", 20.0 LB/SF, Steel, Riveted Grating.....	88.76	1.35
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	4.13	
			For 304 Stainless Steel, Add	73.94	
			For 5/8" Clear Opening, Add	29.70	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-3.95	
05 53 13 00-0078			Aluminum, Riveted Grating (05 53 13 00-0064)		
			Note: 1" clear opening, bolted in place and in all sizes.		
05 53 13 00-0079	SF		3/4" x 1/8", 2.4 LB/SF, Aluminum, Riveted Grating.....	44.67	1.10
			For 5/8" Clear Opening, Add	14.66	
			For Powder Coating, Add	6.37	
			For Set In Place Without Bolting, Deduct	-2.53	
05 53 13 00-0080	SF		3/4" x 3/16", 2.9 LB/SF, Aluminum, Riveted Grating.....	53.08	1.10
			For 5/8" Clear Opening, Add	17.56	
			For Powder Coating, Add	7.63	
			For Set In Place Without Bolting, Deduct	-2.74	
05 53 13 00-0081	SF		1" x 1/8", 2.7 LB/SF, Aluminum, Riveted Grating.....	49.16	1.10
			For 5/8" Clear Opening, Add	16.20	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	7.05	
			For Set In Place Without Bolting, Deduct	-2.64	
05 53 13 00-0082	SF		1" x 3/16", 3.2 LB/SF, Aluminum, Riveted Grating.....	57.37	1.10
			For 5/8" Clear Opening, Add	19.04	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	8.28	
			For Set In Place Without Bolting, Deduct	-2.85	
05 53 13 00-0083	SF		1-1/4" x 1/8", 3.1 LB/SF, Aluminum, Riveted Grating.....	55.17	1.10
			For 5/8" Clear Opening, Add	18.28	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	7.95	
			For Set In Place Without Bolting, Deduct	-2.79	
05 53 13 00-0084	SF		1-1/4" x 3/16", 3.8 LB/SF, Aluminum, Riveted Grating.....	66.57	1.10
			For 5/8" Clear Opening, Add	22.21	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	9.66	
			For Set In Place Without Bolting, Deduct	-3.08	
05 53 13 00-0085	SF		1-1/2" x 1/8", 3.4 LB/SF, Aluminum, Riveted Grating.....	59.28	1.10
			For 5/8" Clear Opening, Add	19.70	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	8.56	
			For Set In Place Without Bolting, Deduct	-2.89	
05 53 13 00-0086	SF		1-1/2" x 3/16", 4.3 LB/SF, Aluminum, Riveted Grating.....	73.75	1.10
			For 5/8" Clear Opening, Add	24.69	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	10.73	
			For Set In Place Without Bolting, Deduct	-3.26	
05 53 13 00-0087	SF		1-3/4" x 3/16", 4.8 LB/SF, Aluminum, Riveted Grating.....	81.34	1.10
			For 5/8" Clear Opening, Add	27.31	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	11.87	
			For Set In Place Without Bolting, Deduct	-3.45	
05 53 13 00-0088	SF		2" x 3/16", 5.8 LB/SF, Aluminum, Riveted Grating.....	96.92	1.10
			For 5/8" Clear Opening, Add	32.68	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	14.21	
			For Set In Place Without Bolting, Deduct	-3.84	
05 53 13 00-0089	SF		2-1/4" x 3/16", 6.4 LB/SF, Aluminum, Riveted Grating.....	105.76	1.10
			For 5/8" Clear Opening, Add	35.73	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	15.54	
			For Set In Place Without Bolting, Deduct	-4.06	
05 53 13 00-0090	SF		2-1/2" x 3/16", 7.2 LB/SF, Aluminum, Riveted Grating.....	117.62	1.10
			For 5/8" Clear Opening, Add	39.82	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	17.31	
			For Set In Place Without Bolting, Deduct	-4.35	
05 53 16			Plank Gratings (05 53)		
05 53 16 00-0001			Grate-Lock Steel Plank Grating (05 53 16)		
			Note: Smooth or traction grip surface.		
05 53 16 00-0002	SF		1-1/2" Height, 18 Gauge Steel Grate-Lock Plank Grating.....	16.39	0.85
			For Stair Tread Application, Add	1.89	
05 53 16 00-0003	SF		2-1/2" Height, 18 Gauge Steel Grate-Lock Plank Grating.....	17.49	1.05
			For Stair Tread Application, Add	2.06	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 16 00-0004	SF			3" Height, 18 Gauge Steel Grate-Lock Plank Grating..... <i>For Stair Tread Application, Add</i>	18.45 2.19	1.14
05 53 16 00-0005	SF			4" Height, 18 Gauge Steel Grate-Lock Plank Grating..... <i>For Stair Tread Application, Add</i>	20.15 2.39	1.24
05 53 16 00-0006	SF			1-1/2" Height, 16 Gauge Steel Grate-Lock Plank Grating..... <i>For Stair Tread Application, Add</i>	19.97 2.28	0.94
05 53 16 00-0007	SF			2-1/2" Height, 16 Gauge Steel Grate-Lock Plank Grating..... <i>For Stair Tread Application, Add</i>	21.24 2.47	1.14
05 53 16 00-0008	SF			1-1/2" Height, 14 Gauge Steel Grate-Lock Plank Grating..... <i>For Stair Tread Application, Add</i>	24.51 2.78	1.10
05 53 16 00-0009	SF			2-1/2" Height, 14 Gauge Steel Grate-Lock Plank Grating..... <i>For Stair Tread Application, Add</i>	26.09 3.01	1.35
05 53 16 00-0010	SF			3" Height, 14 Gauge Steel Grate-Lock Plank Grating..... <i>For Stair Tread Application, Add</i>	27.91 3.30	1.69
05 53 16 00-0011	SF			4" Height, 14 Gauge Steel Grate-Lock Plank Grating..... <i>For Stair Tread Application, Add</i>	30.81 3.65	1.89

05 54 Metal Floor Plates (05 50)

05 54 00 00-0001 Steel Floor Plates (05 54)

05 54 00 00-0002	SF			16 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	18.59	1.30
05 54 00 00-0003	SF			14 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	21.31	1.30
05 54 00 00-0004	SF			12 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	26.78	1.30
05 54 00 00-0005	SF			1/8" Steel Raised Or Diamond Pattern Floor Plates.....	35.86	1.39
05 54 00 00-0006	SF			1/4" Steel Raised Or Diamond Pattern Floor Plates.....	45.67	1.49

05 54 00 00-0007 Aluminum Alloy Floor Plates (05 54)

05 54 00 00-0008	SF			0.125" Aluminum Alloy Raised Or Diamond Pattern Floor Plate..... <i>For Powder Coating, Add</i>	27.89 3.86	1.10
05 54 00 00-0009	SF			0.188" Aluminum Alloy Raised Or Diamond Pattern Floor Plate..... <i>For Powder Coating, Add</i>	32.01 4.43	1.30
05 54 00 00-0010	SF			0.25" Aluminum Alloy Raised Or Diamond Pattern Floor Plate..... <i>For Powder Coating, Add</i>	36.14 5.00	1.39

05 54 00 00-0011 Type 304 Stainless Steel Floor Plates (05 54)

05 54 00 00-0012	SF			1/8" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....	28.48	1.49
05 54 00 00-0013	SF			3/16" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....	34.03	1.69
05 54 00 00-0014	SF			1/4" Type 304 Stainless Raised Or Diamond Pattern Steel Floor Plate.....	44.00	1.99

05 55 Metal Stair Treads and Nosings (05 50)

05 55 13 Metal Stair Treads (05 55)

05 55 13 00-0001 Abrasive Cast Aluminum Stair Treads (05 55 13)

Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.

05 55 13 00-0002	LF			8" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	66.79 14.26	6.10
05 55 13 00-0003	LF			9" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	73.63 15.97	6.10
05 55 13 00-0004	LF			10" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	80.45 17.67	6.10
05 55 13 00-0005	LF			11" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	87.30 19.38	6.10
05 55 13 00-0006	LF			12" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	94.10 21.08	6.10

05 55 13 00-0007 Abrasive Cast Iron Stair Treads (05 55 13)

Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.

05 55 13 00-0008	LF			8" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	93.30	6.10
05 55 13 00-0009	LF			9" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	103.43	6.10
05 55 13 00-0010	LF			10" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	113.57	6.10
05 55 13 00-0011	LF			11" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	123.70	6.10
05 55 13 00-0012	LF			12" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	133.85	6.10

05 55 13 00-0013 Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Treads (05 55 13)

Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.

05 55 13 00-0014	LF			6-1/2" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	34.83	6.10
05 55 13 00-0015	LF			9" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	41.02	6.10
05 55 13 00-0016	LF			11" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	43.75	6.10

05 Metals**05 50 Metal Fabrications****05 55 Metal Stair Treads and Nosings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 55 13 00-0017 Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Treads <small>(05 55 13)</small> Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.		
05 55 13 00-0018 LF 8" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread.....	51.92	6.10
For Epoxy Sealed For Corrosive Environment, Add	4.30	
For Two Color Tread, Add	3.22	
05 55 13 00-0019 LF 9" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread.....	52.43	6.10
For Epoxy Sealed For Corrosive Environment, Add	4.30	
For Two Color Tread, Add	3.22	
05 55 13 00-0020 LF 11" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread.....	63.57	6.10
For Epoxy Sealed For Corrosive Environment, Add	4.30	
For Two Color Tread, Add	3.22	
05 55 13 00-0021 LF 12" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread.....	73.33	6.10
For Epoxy Sealed For Corrosive Environment, Add	4.30	
For Two Color Tread, Add	3.22	
05 55 13 00-0022 LF 15" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread.....	86.06	6.10
For Epoxy Sealed For Corrosive Environment, Add	4.30	
For Two Color Tread, Add	3.22	
05 55 13 00-0023 Stair Landing Treads <small>(05 55 13)</small>		
05 55 13 00-0024 Abrasive Cast Aluminum Stair Landing Treads <small>(05 55 13 00-0023)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0025 SF 5/16" Thick, Abrasive Cast Aluminum Landing Treads.....	94.10	6.10
For 3/8" Thick, Add	21.08	
05 55 13 00-0026 Abrasive Cast Iron Stair Landing Treads <small>(05 55 13 00-0023)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0027 SF 3/8" Thick, Abrasive Cast Iron Landing Treads.....	133.85	6.10
05 55 13 00-0028 Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads <small>(05 55 13 00-0023)</small> Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 13 00-0029 SF 9/32" Thick, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads.....	87.17	6.10
For Epoxy Sealed For Corrosive Environment, Add	4.30	
05 55 13 00-0030 Open Cast Iron Stair Tread <small>(05 55 13)</small> Note: Includes steel stringers, safety nosing and 2 pipe handrail. Excludes landings.		
05 55 13 00-0031 RSR 3'-6" Wide, Open Cast Iron Stair Tread.....	651.19	39.78
For Closed Riser, Add	55.81	
05 55 13 00-0032 RSR 4'-0" Wide, Open Cast Iron Stair Tread.....	730.01	45.75
For Closed Riser, Add	62.41	
05 55 13 00-0033 RSR 5'-0" Wide, Open Cast Iron Stair Tread.....	803.96	53.70
For Closed Riser, Add	68.66	
05 55 16 Metal Stair Nosings <small>(05 55)</small>		
05 55 16 00-0001 Abrasive Cast Aluminum Nosings <small>(05 55 16)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0002 LF 3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing.....	27.97	4.17
For 3/8" Thick, Add	5.33	
05 55 16 00-0003 LF 4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing.....	34.57	4.17
For 3/8" Thick, Add	6.98	
05 55 16 00-0004 LF 6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing.....	49.27	4.17
For 3/8" Thick, Add	10.65	
05 55 16 00-0005 Abrasive Cast Iron Nosings <small>(05 55 16)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0006 LF 3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing.....	32.79	4.17
For 3/8" Thick, Add	6.53	
05 55 16 00-0007 LF 4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing.....	40.91	4.17
For 3/8" Thick, Add	8.56	
05 55 16 00-0008 LF 6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing.....	56.97	4.17
For 3/8" Thick, Add	12.58	
05 55 16 00-0009 Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosings <small>(05 55 16)</small> Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 16 00-0010 LF 1-7/8" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	23.50	4.17
05 55 16 00-0011 LF 3" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	26.68	4.17
05 55 16 00-0012 LF 4" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	29.11	4.17
05 55 16 00-0013 LF 6" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	36.65	4.17
05 55 16 00-0014 LF 1-7/8" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	24.36	4.17

05	05 Metals
	05 50 Metal Fabrications
	05 58 Formed Metal Fabrications



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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05 58 23 00-0040	Posts For 3-Rib Guard Rails <small>(05 58 23 00-0017)</small>		
	Note: Includes drilling, surface mounting plate and anchors.		
05 58 23 00-0041	EA 18" Height, Single Rail Post For 3-Rib Guard Rails	338.91	41.64
05 58 23 00-0042	EA 42" Height, Double Rail Post For 3-Rib Guard Rails	435.14	41.64

05 58 23 00-0043	All-Welded, Protective Guards <small>(05 58 23)</small>		
	Note: Surface mounted inverted-U style protective barriers. Includes painted finish, drilling, surface mounting plate and anchors.		

05 58 23 00-0044	All-Welded, Protective Guards <small>(05 58 23 00-0043)</small>		
05 58 23 00-0045	EA 36" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	442.12	55.52
05 58 23 00-0046	EA 48" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	465.21	55.52
05 58 23 00-0047	EA 36" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	478.60	55.52
05 58 23 00-0048	EA 48" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	498.46	55.52
05 58 23 00-0049	EA 36" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	493.84	55.52
05 58 23 00-0050	EA 48" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	518.31	55.52
05 58 23 00-0051	EA 36" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	525.24	55.52
05 58 23 00-0052	EA 48" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	533.09	55.52
05 58 23 00-0053	EA 48" Length, 42" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	570.49	55.52

05 58 23 00-0054	Corner Style, All-Welded, Protective Guards <small>(05 58 23 00-0043)</small>		
05 58 23 00-0055	EA 24" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard	585.27	55.52
05 58 23 00-0056	EA 30" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard	612.98	55.52
05 58 23 00-0057	EA 24" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard	624.52	55.52
05 58 23 00-0058	EA 30" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard	681.32	55.52

05 58 23 00-0059	Warehouse Safety Bollards <small>(05 58 23)</small>		
	Note: Includes painted finish, drilling, surface mounting plate and anchors.		
05 58 23 00-0060	EA 24" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	271.58	41.64
05 58 23 00-0061	EA 36" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	317.20	41.64
05 58 23 00-0062	EA 42" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	365.50	41.64
05 58 23 00-0063	EA 36" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	378.71	41.64
05 58 23 00-0064	EA 42" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	409.18	41.64

05 59 Metal Specialties (05 50)

05 59 65 Metal Chain (05 59)

05 59 65 00-0001	Alloy Steel Chain, Self Colored, Cut Length <small>(05 59 65)</small>		
	Note: Includes all connecting links, double clevis mid-Links, slip or grab hooks, or shackles as required.		
05 59 65 00-0002	LF 3/16" Diameter Alloy Steel Chain, Cut Length, Self Colored	5.94	0.96
	<i>For Plastic Dipped, Add</i>	0.60	
05 59 65 00-0003	LF 1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored	7.03	1.27
	<i>For Plastic Dipped, Add</i>	0.67	
05 59 65 00-0004	LF 3/8" Diameter Alloy Steel Chain, Cut Length, Self Colored	11.13	2.54
	<i>For Plastic Dipped, Add</i>	0.91	
05 59 65 00-0005	LF 1/2" Diameter Alloy Steel Chain, Cut Length, Self Colored	17.88	4.29
	<i>For Plastic Dipped, Add</i>	1.40	
05 59 65 00-0006	LF 5/8" Diameter Alloy Steel Chain, Cut Length, Self Colored	30.19	7.25
	<i>For Plastic Dipped, Add</i>	2.36	
05 59 65 00-0007	LF 3/4" Diameter Alloy Steel Chain, Cut Length, Self Colored	42.36	10.17
	<i>For Plastic Dipped, Add</i>	3.30	
05 59 65 00-0008	LF 7/8" Diameter Alloy Steel Chain, Cut Length, Self Colored	57.72	12.71
	<i>For Plastic Dipped, Add</i>	4.85	
05 59 65 00-0009	LF 1" Diameter Alloy Steel Chain, Cut Length, Self Colored	83.41	16.94
	<i>For Plastic Dipped, Add</i>	7.43	
05 59 65 00-0010	LF 1-1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored	135.59	25.42
	<i>For Plastic Dipped, Add</i>	12.71	

END OF SECTION 05



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 Thermal And Moisture Protection

07 10 Dampproofing and Waterproofing ⁽⁰⁷⁾

Note: The following tasks are for application to vertical (walls and foundations) surfaces. For horizontal (flat) surfaces apply the appropriate modifier to reduce the labor cost (where listed). Waterproofing is the treatment of a surface or structure to PREVENT the passage of water under hydrostatic pressure. Dampproofing is the treatment of a surface or structure to RESIST the passage of water in the absence of hydrostatic pressure.

07 11 Dampproofing ^(07 10)

07 11 13 Bituminous Dampproofing ^(07 11)

07 11 13 00-0001 Fibrous Asphalt Dampproofing, Brush, Roller Or Spray ^(07 11 13)

07 11 13 00-0002	CSF 1 Coat, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray	166.37
07 11 13 00-0003	CSF 2 Coats, Brush, Roller Or Spray, Fibrous Asphalt Dampproofing	252.50

07 11 13 00-0004 Fibrous Asphalt Dampproofing, Troweled On ^(07 11 13)

07 11 13 00-0005	CSF Primer And 1 Coat, Fibrous Asphalt Dampproofing, Troweled On	288.94
07 11 13 00-0006	CSF Primer And 2 Coats, Troweled On, Fibrous Asphalt Dampproofing	452.75

07 11 13 00-0007 Asphaltic Paint Dampproofing ^(07 11 13)

07 11 13 00-0008	CSF 1 Coat, Asphaltic Paint Dampproofing, Brushed On	132.39
07 11 13 00-0009	CSF 2 Coats, Brushed On, Asphaltic Paint Dampproofing	245.39

07 11 19 Sheet Dampproofing ^(07 11)

07 11 19 00-0001 Neoprene ^(07 11 19)

07 11 19 00-0002	SF 1/16" Patch Neoprene Roof (5 To 20 SF)	34.30
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07 13 Sheet Waterproofing ^(07 10)

07 13 13 Bituminous Sheet Waterproofing ^(07 13)

07 13 13 00-0001 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped ^(07 13 13)

07 13 13 00-0002	CSF 1 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	299.00	105.15
	<i>For 30 LB Felt, Add</i>	66.53	
	<i>For Application To Horizontal Surfaces, Deduct</i>	-31.54	
07 13 13 00-0003	CSF 2 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	376.18	118.29
	<i>For 30 LB Felt, Add</i>	104.70	
	<i>For Application To Horizontal Surfaces, Deduct</i>	-35.49	
07 13 13 00-0004	CSF 3 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	453.35	131.43
	<i>For 30 LB Felt, Add</i>	142.86	
	<i>For Application To Horizontal Surfaces, Deduct</i>	-39.43	
07 13 13 00-0005	CSF 4 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	530.51	144.58
	<i>For 30 LB Felt, Add</i>	181.02	
	<i>For Application To Horizontal Surfaces, Deduct</i>	-43.37	
07 13 13 00-0006	CSF 5 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	607.68	157.72
	<i>For 30 LB Felt, Add</i>	219.18	
	<i>For Application To Horizontal Surfaces, Deduct</i>	-47.32	

07 13 13 00-0007 Asphalt Coated Protective Board ^(07 13 13)

07 13 13 00-0008	CSF 1/8" Asphalt Coated Protective Board	258.28	103.68
	<i>For Application To Horizontal Surfaces, Deduct</i>	-34.58	
07 13 13 00-0009	CSF 1/4" Asphalt Coated Protective Board	344.25	107.66
	<i>For Application To Horizontal Surfaces, Deduct</i>	-35.89	
07 13 13 00-0010	CSF 3/8" Asphalt Coated Protective Board	447.85	112.19
	<i>For Application To Horizontal Surfaces, Deduct</i>	-37.38	
07 13 13 00-0011	CSF 1/2" Asphalt Coated Protective Board	500.59	116.71
	<i>For Application To Horizontal Surfaces, Deduct</i>	-38.91	

07 13 53 Elastomeric Sheet Waterproofing ^(07 13)

07 13 53 00-0001 Rubberized Membrane Sheet ^(07 13 53)

07 13 53 00-0002	SF 215 Mil Rubberized Asphalt Membrane Sheet, Vertical Surface	7.20	1.07
	<i>For Floor Surfaces, Deduct</i>	-1.06	

07 13 53 00-0003 Ethylene Propylene Diene Monomer (EPDM) ^(07 13 53)

07 13 53 00-0004	CSF 45 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane	387.72	150.72
	<i>For Application To Horizontal Surfaces, Deduct</i>	-45.21	
07 13 53 00-0005	CSF 60 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane	427.56	150.72
	<i>For Application To Horizontal Surfaces, Deduct</i>	-45.21	

07 Thermal And Moisture Protection**07 10 Dampproofing and Waterproofing****07 13 Sheet Waterproofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 13 53 00-0006			Butyl Sheet Waterproofing (07 13 53)		
07 13 53 00-0007	CSF		1/32" Butyl Sheet Waterproofing.....	100.18	37.68
			<i>For Joint Taping, Add</i>	13.69	
			<i>For Each Additional Ply, Add</i>	73.90	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.66	
07 13 53 00-0008	CSF		1/16" Butyl Sheet Waterproofing.....	120.04	37.68
			<i>For Joint Taping, Add</i>	14.69	
			<i>For Each Additional Ply, Add</i>	87.80	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.66	
07 13 53 00-0009			Butyl With Nylon (07 13 53)		
07 13 53 00-0010	CSF		1/32" Butyl Elastomeric Waterproofing With Nylon.....	111.53	37.68
			<i>For Joint Taping, Add</i>	14.26	
			<i>For Each Additional Ply, Add</i>	81.85	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.66	
07 13 53 00-0011	CSF		1/16" Butyl Elastomeric Waterproofing With Nylon.....	124.30	37.68
			<i>For Joint Taping, Add</i>	14.90	
			<i>For Each Additional Ply, Add</i>	90.79	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.66	
07 13 53 00-0012			Neoprene Sheet Waterproofing (07 13 53)		
07 13 53 00-0013	CSF		1/32" Neoprene Sheet Waterproofing.....	176.86	37.68
			<i>For Joint Taping, Add</i>	17.53	
			<i>For Each Additional Ply, Add</i>	127.58	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.66	
07 13 53 00-0014	CSF		1/16" Neoprene Sheet Waterproofing.....	261.40	37.68
			<i>For Joint Taping, Add</i>	21.75	
			<i>For Each Additional Ply, Add</i>	186.76	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.66	
07 13 53 00-0015			Neoprene With Nylon (07 13 53)		
07 13 53 00-0016	CSF		1/32" Neoprene Elastomeric Waterproofing With Nylon.....	185.68	37.68
			<i>For Joint Taping, Add</i>	17.97	
			<i>For Each Additional Ply, Add</i>	133.75	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.66	
07 13 53 00-0017	CSF		1/16" Neoprene Elastomeric Waterproofing With Nylon.....	275.50	37.68
			<i>For Joint Taping, Add</i>	22.46	
			<i>For Each Additional Ply, Add</i>	196.63	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.66	
07 13 53 00-0018			Plastic Vapor Barrier (Polyethylene) (07 13 53)		
07 13 53 00-0019	CSF		4 Mil Polyethylene Vapor Barrier.....	36.73	13.54
			<i>For Joint Taping, Add</i>	8.73	
			<i>For Each Additional Ply, Add</i>	28.71	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.50	
07 13 53 00-0020	CSF		6 Mil Polyethylene Vapor Barrier.....	37.71	13.54
			<i>For Joint Taping, Add</i>	8.78	
			<i>For Each Additional Ply, Add</i>	29.39	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.50	
07 13 53 00-0021	CSF		10 Mil Polyethylene Vapor Barrier.....	62.54	13.54
			<i>For Joint Taping, Add</i>	10.02	
			<i>For Each Additional Ply, Add</i>	46.78	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.50	
07 13 53 00-0022	CSF		60 Mil Polyethylene Vapor Barrier With Bentonite.....	102.31	13.54
			Note: Includes seam tape, liquid mastic, anchors and termination bar.		
			<i>For Each Additional Ply, Add</i>	74.95	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-5.00	
07 13 53 00-0023			Plastic Vapor Barrier (PVC) (07 13 53)		
07 13 53 00-0024	CSF		10 Mil Polyvinyl Chloride (PVC) Vapor Barrier.....	44.56	14.99
			<i>For Joint Taping, Add</i>	9.12	
			<i>For Each Additional Ply, Add</i>	34.19	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.50	
07 13 53 00-0025	CSF		20 Mil Polyvinyl Chloride (PVC) Vapor Barrier.....	56.31	15.54
			<i>For Joint Taping, Add</i>	9.97	
			<i>For Each Additional Ply, Add</i>	42.53	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.67	
07 13 53 00-0026	CSF		30 Mil Polyvinyl Chloride (PVC) Vapor Barrier.....	71.98	16.09
			<i>For Joint Taping, Add</i>	11.00	
			<i>For Each Additional Ply, Add</i>	53.61	
			<i>For Application To Horizontal Surfaces, Deduct</i>	-4.83	
07 13 53 00-0027			Vinyl Plastic Vapor Barrier (07 13 53)		
07 13 53 00-0028	CSF		4 Mil Vinyl Plastic Vapor Barrier With Fiberglass Insulation At Joints (Tu-Tuf #4).....	41.13	13.87



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 14 Fluid-Applied Waterproofing (07 10)

07 14 13 Hot Fluid-Applied Rubberized Asphalt Waterproofing (07 14)

07 14 13 00-0001 Hot Applied Rubberized Asphalt Waterproofing Coating (07 14 13)

07 14 13 00-0002	SF	90 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....		2.29	
		Note: Includes primer.			
		<i>For Application To Horizontal Surfaces, Deduct</i>		-0.20	
		<i>For Reinforcing Fabric, Add</i>		0.50	
07 14 13 00-0003	SF	125 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....		2.69	
		Note: Includes primer.			
		<i>For Application To Horizontal Surfaces, Deduct</i>		-0.21	
		<i>For Reinforcing Fabric, Add</i>		0.50	

07 14 16 Cold Fluid-Applied Waterproofing (07 14)

07 14 16 00-0001 Fluid Applied Rubber Based Polyurethane (07 14 16)

07 14 16 00-0002	SF	60 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing		3.74	
		<i>For Application To Horizontal Surfaces, Deduct</i>		-0.45	
07 14 16 00-0003	SF	90 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing		4.24	
		<i>For Application To Horizontal Surfaces, Deduct</i>		-0.48	
07 14 16 00-0004	SF	120 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing		4.80	
		<i>For Application To Horizontal Surfaces, Deduct</i>		-0.51	

07 14 16 00-0005 One Part Solution Of Chlorosulfonated Polyethylene Polymer (07 14 16)

07 14 16 00-0006	SF	15 Mil Finish Coat, 1 Part Solution, Chlorosulfonated Polyethylene (CSM) Polymer.....		2.53	
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07 14 16 00-0007 Copolymer Compound (07 14 16)

07 14 16 00-0008	SF	32 Mil, Fluid Elastomeric Copolymer Compound For Slabs.....		4.06	
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07 14 16 00-0009 Fluid Applied Neoprene (07 14 16)

07 14 16 00-0010	CSF	1/8" Fiberglass Reinforced, Fluid Applied Neoprene		483.80	
		<i>For Application To Horizontal Surfaces, Deduct</i>		-54.91	
07 14 16 00-0011	CSF	50 Mil, 4 Coats, Fluid Applied Neoprene		946.87	
		<i>For Application To Horizontal Surfaces, Deduct</i>		-107.71	
07 14 16 00-0012	CSF	90 Mil, 4 Coats, Fluid Applied Neoprene		1,534.16	
		<i>For Application To Horizontal Surfaces, Deduct</i>		-161.49	

07 16 Cementitious and Reactive Waterproofing (07 10)

07 16 13 Polymer Modified Cement Waterproofing (07 16)

07 16 13 00-0001	SF	Polymer Modified Cementitious Waterproofing Assembly, 2 Coats.....		4.43	
		Note: As manufactured by Thoro Consumer Products. Includes Thoroseal, Acryl 60, acrylic waterproof coating and white pigmented acrylic copolymer primer.			

07 16 16 Crystalline Waterproofing (07 16)

07 16 16 00-0001	SF	Crystalline Cementitious Waterproofing, 2 Coats (Xypex Concentrate).....		5.83	
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07 16 19 Metal Oxide Waterproofing (07 16)

07 16 19 00-0001 Metallic Oxide Waterproofing (07 16 19)

		Note: Includes one broom applied bond coat and three brush applied waterproof coats. Excludes concrete repairs to subbase and final protective concrete surface coat.			
07 16 19 00-0002	CSF	Catalyzed Metallic Waterproofing Treatment, Metal Oxide Waterproofing (Euclid Iron Waterpeller).....		465.47	
		<i>For Application To Horizontal Surfaces, Deduct</i>		-58.22	

07 19 Water Repellents (07 10)

07 19 13 Acrylic Sealer (07 19)

		Note: Per coat.			
07 19 13 00-0001	SF	Spray On Concrete, Acrylic Sealer		2.37	
07 19 13 00-0002	SF	Spray On Concrete Block/Brick, Acrylic Sealer.....		2.82	
07 19 13 00-0003	SF	Spray On Stone, Acrylic Sealer		3.10	

07 19 16 Silane Water Repellents (07 19)

07 19 16 00-0001 Silane Concrete Sealer (07 19 16)

07 19 16 00-0002	SF	Spray On Concrete, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB)		0.68	
07 19 16 00-0003	SF	Spray On Concrete Block/Brick, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB)		1.01	

07 Thermal And Moisture Protection**07 10 Dampproofing and Waterproofing****07 19 Water Repellents**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
07 19 16 00-0004		Silane/Siloxane Concrete Sealer <small>(07 19 16)</small>			
07 19 16 00-0005	SF	Spray On Concrete, Solvent Based, Silane/Siloxane Concrete Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40)		1.22	
		Note: 40% silane, alcohol based.			
07 19 16 00-0006	SF	Spray On Concrete Block/Brick, Solvent Based, Silane/Siloxane Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40)		1.78	
		Note: 40% silane, alcohol based.			
07 19 16 00-0007	SF	Spray On Concrete, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB)		0.46	
		Note: 200 SF/GAL			
07 19 16 00-0008	SF	Spray On Concrete Block/Masonry, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB)		0.68	

END OF SECTION 07



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 Finishes

09 01 Maintenance of Finishes (09)

09 01 90 Maintenance of Painting and Coating (09 01)

09 01 90 52 Maintenance Repainting (09 01 90)

09 01 90 52-0001 Cleaning And Preparation Of Painted And Unpainted Surfaces (09 01 90 52)
 Note: In excess of surface preparation required. Water blast and pressure washing includes mild detergent and rinsing of surface until detergent free. Sand blast and water blast includes canvas/plastic for protection of existing surfaces as well as for containment.

09 01 90 52-0002 Concrete And Masonry Surfaces, Surface Preparation (09 01 90 52-0001)

09 01 90 52-0003	SF Trisodium Phosphate (TSP), Clean Concrete Or Masonry Surfaces, Surface Preparation	0.52	
	For Up To 100, Add	0.38	
	For >100 To 250, Add	0.18	
	For >250 To 500, Add	0.08	
	For >5,000 To 10,000, Deduct	-0.03	
	For >10,000 To 15,000, Deduct	-0.05	
	For >15,000 To 30,000, Deduct	-0.08	
	For >30,000, Deduct	-0.10	
09 01 90 52-0004	SF Calcimine Removal/Washing, Concrete And Masonry Surfaces, Surface Preparation.....	0.54	
	For Up To 100, Add	0.88	
	For >100 To 250, Add	0.22	
	For >250 To 500, Add	0.11	
	For >5,000 To 10,000, Deduct	-0.03	
	For >10,000 To 15,000, Deduct	-0.05	
	For >15,000 To 30,000, Deduct	-0.08	
	For >30,000, Deduct	-0.10	
09 01 90 52-0005	SF Chemical Clean, Brush And Wash, Concrete And Masonry Surfaces, Surface Preparation	0.83	
	For Up To 100, Add	1.34	
	For >100 To 250, Add	0.34	
	For >250 To 500, Add	0.17	
	For >5,000 To 10,000, Deduct	-0.04	
	For >10,000 To 15,000, Deduct	-0.08	
	For >15,000 To 30,000, Deduct	-0.12	
	For >30,000, Deduct	-0.16	
09 01 90 52-0006	SF Hand Scrape, Concrete And Masonry Surfaces, Surface Preparation	0.70	
	For Up To 100, Add	1.40	
	For >100 To 250, Add	0.35	
	For >250 To 500, Add	0.18	
	For >5,000 To 10,000, Deduct	-0.04	
	For >10,000 To 15,000, Deduct	-0.07	
	For >15,000 To 30,000, Deduct	-0.11	
	For >30,000, Deduct	-0.14	
09 01 90 52-0007	SF Steam Clean, Concrete And Masonry Surfaces, Surface Preparation.....	0.75	
	For Up To 100, Add	1.22	
	For >100 To 250, Add	0.31	
	For >250 To 500, Add	0.15	
	For >5,000 To 10,000, Deduct	-0.03	
	For >10,000 To 15,000, Deduct	-0.07	
	For >15,000 To 30,000, Deduct	-0.11	
	For >30,000, Deduct	-0.14	
09 01 90 52-0008	SF Up To 5,000 PSI Pressure Wash, Concrete And Masonry Surfaces, Surface Preparation	0.50	
	For Up To 100, Add	0.74	
	For >100 To 250, Add	0.19	
	For >250 To 500, Add	0.09	
	For >5,000 To 10,000, Deduct	-0.02	
	For >10,000 To 15,000, Deduct	-0.04	
	For >15,000 To 30,000, Deduct	-0.07	
	For >30,000, Deduct	-0.09	
09 01 90 52-0009	SF 10,000 To 12,000 PSI Water Blast, Concrete And Masonry Surfaces, Surface Preparation	1.36	
	For Up To 100, Add	2.34	
	For >100 To 250, Add	0.59	
	For >250 To 500, Add	0.29	
	For >5,000 To 10,000, Deduct	-0.06	
	For >10,000 To 15,000, Deduct	-0.13	
	For >15,000 To 30,000, Deduct	-0.20	
	For >30,000, Deduct	-0.26	
09 01 90 52-0010	SF 30,000 To 40,000 PSI Water Blast, Concrete And Masonry Surfaces, Surface Preparation	2.23	
	For Up To 100, Add	4.08	
	For >100 To 250, Add	1.02	
	For >250 To 500, Add	0.51	
	For >5,000 To 10,000, Deduct	-0.11	
	For >10,000 To 15,000, Deduct	-0.22	
	For >15,000 To 30,000, Deduct	-0.33	
	For >30,000, Deduct	-0.44	

09 Finishes

09 01 Maintenance of Finishes

09 01 90 Maintenance of Painting and Coating



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

09 01 90 52-0011	SF	Sand Blasting, Concrete And Masonry Surfaces, Surface Preparation	3.44
		Note: 3 lbs of sand per SF	
		For 4.5 lbs Of Sand per SF, Where Multiple Pass Is Required, Add	2.00
		For 6 lbs Of Sand per SF, Where Multiple Pass Is Required, Add	4.14
		For 9 lbs Of Sand per SF, Where Multiple Pass Is Required, Add	6.88
		For Up To 100, Add	5.60
		For >100 To 250, Add	1.40
		For >250 To 500, Add	0.70
		For >5,000 To 10,000, Deduct	-0.16
		For >10,000 To 15,000, Deduct	-0.32
		For >15,000 To 30,000, Deduct	-0.50
		For >30,000, Deduct	-0.66
09 01 90 52-0012		Metal Surfaces, Surface Preparation (09 01 90 52-0001)	
09 01 90 52-0013	SF	Trisodium Phosphate (TSP), Clean Metal Surfaces, Surface Preparation.....	0.50
		For Up To 100, Add	0.36
		For >100 To 250, Add	0.17
		For >250 To 500, Add	0.07
		For >5,000 To 10,000, Deduct	-0.02
		For >10,000 To 15,000, Deduct	-0.05
		For >15,000 To 30,000, Deduct	-0.07
		For >30,000, Deduct	-0.10
09 01 90 52-0014	SF	Chemical Clean, Brush And Wash, Metal Surfaces, Surface Preparation	0.83
		For Up To 100, Add	0.50
		For >100 To 250, Add	0.23
		For >250 To 500, Add	0.10
		For >5,000 To 10,000, Deduct	-0.04
		For >10,000 To 15,000, Deduct	-0.08
		For >15,000 To 30,000, Deduct	-0.12
		For >30,000, Deduct	-0.16
09 01 90 52-0015	SF	Hand Scraping And Sanding, Metal Surfaces, Surface Preparation	0.70
		For Up To 100, Add	0.53
		For >100 To 250, Add	0.25
		For >250 To 500, Add	0.11
		For >5,000 To 10,000, Deduct	-0.04
		For >10,000 To 15,000, Deduct	-0.07
		For >15,000 To 30,000, Deduct	-0.11
		For >30,000, Deduct	-0.14
09 01 90 52-0016	SF	Up To 5,000 PSI Pressure Wash, Metal Surfaces, Surface Preparation	0.47
		For Up To 100, Add	0.28
		For >100 To 250, Add	0.13
		For >250 To 500, Add	0.06
		For >5,000 To 10,000, Deduct	-0.02
		For >10,000 To 15,000, Deduct	-0.04
		For >15,000 To 30,000, Deduct	-0.07
		For >30,000, Deduct	-0.09
09 01 90 52-0017	SF	Power Tool Cleaning, Metal Surfaces, Surface Preparation.....	1.28
		For Up To 100, Add	0.96
		For >100 To 250, Add	0.45
		For >250 To 500, Add	0.19
		For >5,000 To 10,000, Deduct	-0.06
		For >10,000 To 15,000, Deduct	-0.13
		For >15,000 To 30,000, Deduct	-0.19
		For >30,000, Deduct	-0.26
09 01 90 52-0018	SF	Steam Cleaning, Metal Surfaces, Surface Preparation.....	0.47
		For Up To 100, Add	0.25
		For >100 To 250, Add	0.12
		For >250 To 500, Add	0.05
		For >5,000 To 10,000, Deduct	-0.02
		For >10,000 To 15,000, Deduct	-0.04
		For >15,000 To 30,000, Deduct	-0.07
		For >30,000, Deduct	-0.09
09 01 90 52-0019	SF	Loose Mill Scale With Fine Powder, Commercial Blast, Metal Surfaces, Surface Preparation	1.04
		For Up To 100, Add	0.64
		For >100 To 250, Add	0.30
		For >250 To 500, Add	0.13
		For >5,000 To 10,000, Deduct	-0.05
		For >10,000 To 15,000, Deduct	-0.10
		For >15,000 To 30,000, Deduct	-0.15
		For >30,000, Deduct	-0.20
09 01 90 52-0020	SF	Tight Mill Scale With Fine Powder Rust, Commercial Blast, Metal Surfaces, Surface Preparation	1.42
		For Up To 100, Add	0.85
		For >100 To 250, Add	0.40
		For >250 To 500, Add	0.17
		For >5,000 To 10,000, Deduct	-0.07
		For >10,000 To 15,000, Deduct	-0.13
		For >15,000 To 30,000, Deduct	-0.20
		For >30,000, Deduct	-0.27
09 01 90 52-0021	SF	Exterior Coating Blistered Pitted, Rust, Commercial Blast, Metal Surfaces, Surface Preparation	2.07
		For Up To 100, Add	1.27
		For >100 To 250, Add	0.59
		For >250 To 500, Add	0.25
		For >5,000 To 10,000, Deduct	-0.10
		For >10,000 To 15,000, Deduct	-0.19
		For >15,000 To 30,000, Deduct	-0.30
		For >30,000, Deduct	-0.40



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0022 SF Badly Pitted With Rust Nodules, Commercial Blast, Metal Surfaces, Surface Preparation	3.48	
For Up To 100, Add	2.12	
For >100 To 250, Add	0.99	
For >250 To 500, Add	0.42	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 15,000, Deduct	-0.32	
For >15,000 To 30,000, Deduct	-0.50	
For >30,000, Deduct	-0.66	
09 01 90 52-0023 SF Loose Mill Scale With Fine Powder Rust, Near White Blast, Metal Surfaces, Surface Preparation	2.65	
For Up To 100, Add	1.59	
For >100 To 250, Add	0.74	
For >250 To 500, Add	0.32	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 15,000, Deduct	-0.24	
For >15,000 To 30,000, Deduct	-0.38	
For >30,000, Deduct	-0.50	
09 01 90 52-0024 SF Tight Mill Scale Little Rust, Near White Blast, Metal Surfaces, Surface Preparation	3.28	
For Up To 100, Add	1.96	
For >100 To 250, Add	0.91	
For >250 To 500, Add	0.39	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 15,000, Deduct	-0.30	
For >15,000 To 30,000, Deduct	-0.47	
For >30,000, Deduct	-0.62	
09 01 90 52-0025 SF Exterior Coat Blistered Pitted Rust, Near White Blast, Metal Surfaces, Surface Preparation	4.26	
For Up To 100, Add	2.55	
For >100 To 250, Add	1.19	
For >250 To 500, Add	0.51	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000 To 15,000, Deduct	-0.39	
For >15,000 To 30,000, Deduct	-0.61	
For >30,000, Deduct	-0.81	
09 01 90 52-0026 SF Badly Pitted Rust Nodules, Near White Blast, Metal Surfaces, Surface Preparation	5.32	
For Up To 100, Add	3.18	
For >100 To 250, Add	1.48	
For >250 To 500, Add	0.64	
For >5,000 To 10,000, Deduct	-0.24	
For >10,000 To 15,000, Deduct	-0.49	
For >15,000 To 30,000, Deduct	-0.77	
For >30,000, Deduct	-1.01	
09 01 90 52-0027 Tile Surfaces, Surface Preparation (09 01 90 52-0001)	0.46	
09 01 90 52-0028 SF Trisodium Phosphate (TSP), Clean Tile Surfaces, Surface Preparation	0.46	
For Up To 100, Add	0.33	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.07	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.05	
For >15,000 To 30,000, Deduct	-0.07	
For >30,000, Deduct	-0.09	
09 01 90 52-0029 CSF Chemical Alkaline Cleaner, Brush And Wash Tile Surfaces, Surface Preparation	45.12	
For Up To 100, Add	33.59	
For >100 To 250, Add	15.68	
For >250 To 500, Add	6.72	
For >5,000 To 10,000, Deduct	-2.25	
For >10,000 To 15,000, Deduct	-4.50	
For >15,000 To 30,000, Deduct	-6.76	
For >30,000, Deduct	-9.01	
09 01 90 52-0030 SF Up To 5,000 PSI, Pressure Wash Tile Surfaces, Surface Preparation	0.33	
For Up To 100, Add	0.20	
For >100 To 250, Add	0.09	
For >250 To 500, Add	0.04	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.03	
For >15,000 To 30,000, Deduct	-0.05	
For >30,000, Deduct	-0.06	
09 01 90 52-0031 Wood Surfaces, Surface Preparation (09 01 90 52-0001)	0.48	
09 01 90 52-0032 SF Trisodium Phosphate (TSP), Clean Wood Surfaces, Surface Preparation	0.48	
For Up To 100, Add	0.35	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.05	
For >15,000 To 30,000, Deduct	-0.07	
For >30,000, Deduct	-0.10	
09 01 90 52-0033 SF Chemical Clean, Brush And Wash Wood Surfaces, Surface Preparation	0.69	
For Up To 100, Add	0.40	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.06	
For >15,000 To 30,000, Deduct	-0.10	
For >30,000, Deduct	-0.13	

09 Finishes

09 01 Maintenance of Finishes

09 01 90 Maintenance of Painting and Coating



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0034	SF		Hand Scrape Wood Surfaces, Surface Preparation.....	0.76	
			For Up To 100, Add	0.57	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.11	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.08	
			For >15,000 To 30,000, Deduct	-0.11	
			For >30,000, Deduct	-0.15	
09 01 90 52-0035	SF		Steam Clean Wood Surfaces, Surface Preparation.....	0.73	
			For Up To 100, Add	0.44	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.07	
			For >15,000 To 30,000, Deduct	-0.11	
			For >30,000, Deduct	-0.14	
09 01 90 52-0036	SF		Up To 5,000 PSI, Pressure Wash Wood Surfaces, Surface Preparation.....	0.51	
			For Up To 100, Add	0.31	
			For >100 To 250, Add	0.14	
			For >250 To 500, Add	0.06	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 15,000, Deduct	-0.05	
			For >15,000 To 30,000, Deduct	-0.07	
			For >30,000, Deduct	-0.10	
09 01 90 52-0037	SF		Sanding Wood Paneling, Boards, Doors Or Other Wood Surfaces, Surface Preparation.....	0.94	
			For Up To 100, Add	0.65	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 15,000, Deduct	-0.09	
			For >15,000 To 30,000, Deduct	-0.14	
			For >30,000, Deduct	-0.18	
09 01 90 52-0038	SF		Sanding Wood Trim Surfaces, Surface Preparation.....	1.27	
			For Up To 100, Add	0.90	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.18	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 15,000, Deduct	-0.12	
			For >15,000 To 30,000, Deduct	-0.19	
			For >30,000, Deduct	-0.25	
09 01 90 52-0039	SF		Prepare New Wood Floor For Finish, Multi Grit Sanding/Screening.....	1.47	
			For Up To 100, Add	1.04	
			For >100 To 250, Add	0.49	
			For >250 To 500, Add	0.21	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 15,000, Deduct	-0.14	
			For >15,000 To 30,000, Deduct	-0.22	
			For >30,000, Deduct	-0.29	
09 01 90 52-0040	SF		Prime Wood Surfaces With Linseed Oil, 1 Coat, Surface Preparation.....	0.84	
			For Up To 100, Add	0.53	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.08	
			For >15,000 To 30,000, Deduct	-0.12	
			For >30,000, Deduct	-0.16	
09 01 90 52-0041	SF		Paint Wood Surfaces With Linseed Oil, 1 Coat, Surface Preparation.....	0.97	
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 15,000, Deduct	-0.09	
			For >15,000 To 30,000, Deduct	-0.14	
			For >30,000, Deduct	-0.19	
09 01 90 52-0042			Vinyl Siding Surfaces, Surface Preparation (09 01 90 52-0001)		
09 01 90 52-0043	SF		Trisodium Phosphate (TSP), Clean, Vinyl Siding Surfaces, Surface Preparation.....	0.46	
			For Up To 100, Add	0.33	
			For >100 To 250, Add	0.15	
			For >250 To 500, Add	0.07	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 15,000, Deduct	-0.05	
			For >15,000 To 30,000, Deduct	-0.07	
			For >30,000, Deduct	-0.09	
09 01 90 52-0044	SF		Hand Wash, Vinyl Siding Surfaces, Surface Preparation.....	0.71	
			For Up To 100, Add	0.51	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.10	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.07	
			For >15,000 To 30,000, Deduct	-0.11	
			For >30,000, Deduct	-0.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0045 SF Up To 5,000 PSI Pressure Wash, Vinyl Siding Surfaces, Surface Preparation	0.42	
<i>For Up To 100, Add</i>	0.23	
<i>For >100 To 250, Add</i>	0.11	
<i>For >250 To 500, Add</i>	0.05	
<i>For >5,000 To 10,000, Deduct</i>	-0.02	
<i>For >10,000 To 15,000, Deduct</i>	-0.04	
<i>For >15,000 To 30,000, Deduct</i>	-0.06	
<i>For >30,000, Deduct</i>	-0.08	
09 01 90 52-0046 SF Steam Clean, Vinyl Siding Surfaces, Surface Preparation	0.78	
<i>For Up To 100, Add</i>	0.44	
<i>For >100 To 250, Add</i>	0.21	
<i>For >250 To 500, Add</i>	0.09	
<i>For >5,000 To 10,000, Deduct</i>	-0.04	
<i>For >10,000 To 15,000, Deduct</i>	-0.07	
<i>For >15,000 To 30,000, Deduct</i>	-0.11	
<i>For >30,000, Deduct</i>	-0.15	
09 01 90 52-0047 Plaster/Stucco Surfaces, Surface Preparation (09 01 90 52-0001)		
Note: Based on total project quantity.		
09 01 90 52-0048 SF Trisodium Phosphate (TSP), Clean Plaster/Stucco Surfaces, Surface Preparation	0.52	
<i>For Up To 100, Add</i>	0.38	
<i>For >100 To 250, Add</i>	0.18	
<i>For >250 To 500, Add</i>	0.08	
<i>For >5,000 To 10,000, Deduct</i>	-0.03	
<i>For >10,000 To 15,000, Deduct</i>	-0.05	
<i>For >15,000 To 30,000, Deduct</i>	-0.08	
<i>For >30,000, Deduct</i>	-0.10	
09 01 90 52-0049 SF Up To 5,000 PSI Pressure Wash Plaster/Stucco Surfaces, Surface Preparation	0.55	
<i>For Up To 100, Add</i>	0.32	
<i>For >100 To 250, Add</i>	0.15	
<i>For >250 To 500, Add</i>	0.06	
<i>For >5,000 To 10,000, Deduct</i>	-0.02	
<i>For >10,000 To 15,000, Deduct</i>	-0.05	
<i>For >15,000 To 30,000, Deduct</i>	-0.08	
<i>For >30,000, Deduct</i>	-0.10	
09 01 90 52-0050 Prep Work (09 01 90 52-0001)		
09 01 90 52-0051 SF Citrus Strip, Single Applications	1.23	
Note: For removal of dried latex and oil-based paint, varnish, lacquer, polyurethane and shellac from wood, metal, and masonry surfaces. Multiple coats may be necessary, refer to manufacturer recommendations		
09 01 90 91 Paint Restoration (09 01 90)		
09 01 90 91-0001 Paint Removal, Strip To Bare Wood (09 01 90 91)		
09 01 90 91-0002 SF Flat Surfaces, Paint Removal, Strip To Bare Wood	8.23	
09 01 90 91-0003 SF Cornices And Decorative Trim To 12" Wide, Paint Removal, Strip To Bare Wood	8.76	
09 90 Painting and Coating (09)		
Note: Includes masking, safety signs, cleaning of area (dry wiping down walls, floors, doors, etc.), removal of loose paint (paint, caulk, etc.), feathering rough edges, sanding between coats, protective work to contain dust and paint splatters (drop cloths), unless otherwise noted, removal and reinstallation of cabinet hardware, switch covers and outlet plates, equipment to place paint and ladders. New construction work additionally includes filling knots, divots, depressions, holes (screw and nail holes in drywall to 1/4" diameter of unlimited quantity). All work designated as "brush/roller" includes brush work for cut and roller work up to cut in.		
09 91 Painting (09 90)		
09 91 13 Exterior Painting (09 91)		
Note: Acrylic latex paint unless otherwise stated. Paint tasks covers all paint sheens: flat, eggshell, satin, semi-gloss, or gloss.		
09 91 13 00-0001 Paint Exterior Walls/Siding (09 91 13)		
09 91 13 00-0002 Paint Exterior Brick Walls (09 91 13 00-0001)		
09 91 13 00-0003 LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Brick Walls	0.23	
<i>For Oil Based Paint, Add</i>	0.01	
<i>For Work >15' To 20' Above Floor, Add</i>	0.03	
Note: Applied only to work area above 15' to 20'.		
<i>For Work >20' To 30' Above Floor, Add</i>	0.05	
Note: Applied only to work area above 20'.		
<i>For Work >30' To 40' Above Floor, Add</i>	0.08	
Note: Applied only to work area above 30' to 40'.		
<i>For Work >40' Above Floor, Add</i>	0.11	
Note: Applied only to work area above 40'.		
<i>For Up To 100, Add</i>	0.15	
<i>For >100 To 250, Add</i>	0.07	
<i>For >250 To 500, Add</i>	0.03	
<i>For >2,500 To 5,000, Deduct</i>	-0.01	
<i>For >5,000 To 10,000, Deduct</i>	-0.02	
<i>For >10,000 To 20,000, Deduct</i>	-0.03	
<i>For >20,000, Deduct</i>	-0.05	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0004	SF		1 Coat Filler, Brush Work, Paint Exterior Brick Walls.....	0.99	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.33	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.46	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.65	
			<i>For >100 To 250, Add</i>	0.31	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.10	
			<i>For >10,000 To 20,000, Deduct</i>	-0.15	
			<i>For >20,000, Deduct</i>	-0.20	
09 91 13 00-0005	SF		1 Coat Paint, Brush Work, Paint Exterior Brick Walls	1.44	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.19	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.50	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.69	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.97	
			<i>For >100 To 250, Add</i>	0.46	
			<i>For >250 To 500, Add</i>	0.20	
			<i>For >2,500 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000 To 10,000, Deduct</i>	-0.14	
			<i>For >10,000 To 20,000, Deduct</i>	-0.22	
			<i>For >20,000, Deduct</i>	-0.29	
09 91 13 00-0006	SF		2 Coats Paint, Brush Work, Paint Exterior Brick Walls.....	2.05	
			<i>For Oil Based Paint, Add</i>	0.12	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.25	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.42	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.67	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.92	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.31	
			<i>For >100 To 250, Add</i>	0.62	
			<i>For >250 To 500, Add</i>	0.27	
			<i>For >2,500 To 5,000, Deduct</i>	-0.10	
			<i>For >5,000 To 10,000, Deduct</i>	-0.21	
			<i>For >10,000 To 20,000, Deduct</i>	-0.31	
			<i>For >20,000, Deduct</i>	-0.41	
09 91 13 00-0007	SF		1 Coat Filler, Brush/Roller Work, Paint Exterior Brick Walls	0.66	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.40	
			<i>For >100 To 250, Add</i>	0.19	
			<i>For >250 To 500, Add</i>	0.08	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.10	
			<i>For >20,000, Deduct</i>	-0.13	
09 91 13 00-0008	SF		1 Coat Paint, Brush/Roller Work, Paint Exterior Brick Walls.....	1.09	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.34	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.47	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.67	
			<i>For >100 To 250, Add</i>	0.32	
			<i>For >250 To 500, Add</i>	0.14	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.11	
			<i>For >10,000 To 20,000, Deduct</i>	-0.16	
			<i>For >20,000, Deduct</i>	-0.22	



Finishes	09	9
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0009 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Brick Walls.....	1.60	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.29	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.47	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.64	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.94	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.24	
For >20,000, Deduct	-0.32	
09 91 13 00-0010 SF 1 Coat Filler, Sprayed, Paint Exterior Brick Walls.....	0.60	
For Oil Based Paint, Add	0.04	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.10	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.16	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.23	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.34	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 13 00-0011 SF 1 Coat Paint, Sprayed, Paint Exterior Brick Walls.....	0.59	
For Oil Based Paint, Add	0.04	
For Work >15' To 20' Above Floor, Add	0.05	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.08	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.13	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.18	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.28	
For >100 To 250, Add	0.14	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 13 00-0012 SF 2 Coats Paint, Sprayed, Paint Exterior Brick Walls.....	1.28	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.45	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.68	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.26	

09 91 13 00-0013 Paint Exterior Concrete Walls (09 91 13 00-0001)

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0014	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Walls .....0.16		
			For Oil Based Paint, Add	0.01	
			For Epoxy Paint, Add	0.01	
			For Work >15' To 20' Above Floor, Add	0.02	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.04	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.06	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.08	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.11	
			For >100 To 250, Add	0.05	
			For >250 To 500, Add	0.02	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 20,000, Deduct	-0.02	
			For >20,000, Deduct	-0.03	
09 91 13 00-0015	SF		1 Coat Filler, Brush Work, Paint Exterior Concrete Walls .....0.84		
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.11	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.18	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.28	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.39	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.55	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
09 91 13 00-0016	SF		1 Coat Filler, Brush Work, Paint Exterior Concrete Walls .....0.93		
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.21	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.33	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.45	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	
09 91 13 00-0017	SF		2 Coats Paint, Brush Work, Paint Exterior Concrete Walls .....1.75		
			For Oil Based Paint, Add	0.10	
			For Epoxy Paint, Add	0.15	
			For Work >15' To 20' Above Floor, Add	0.23	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.38	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.61	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.84	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.18	
			For >100 To 250, Add	0.56	
			For >250 To 500, Add	0.24	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.18	
			For >10,000 To 20,000, Deduct	-0.26	
			For >20,000, Deduct	-0.35	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0018 SF 1 Coat Filler, Brush/Roller Work, Paint Exterior Concrete Walls.....	0.68	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.14	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.22	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.30	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.43	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.14	
09 91 13 00-0019 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Concrete Walls.....	0.78	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.27	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.37	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.52	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0020 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Walls.....	1.31	
For Oil Based Paint, Add	0.08	
For Epoxy Paint, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.44	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.60	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.85	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.26	
09 91 13 00-0021 SF 1 Coat Filler, Sprayed, Paint Exterior Concrete Walls	0.54	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.10	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.15	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.21	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.31	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.11	

09	Finishes
09 90	Painting and Coating
09 91	Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0022	SF		1 Coat Paint, Sprayed, Paint Exterior Concrete Walls	0.49	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.06	
			For Work >15' To 20' Above Floor, Add	0.05	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.09	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.14	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.20	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.29	
			For >100 To 250, Add	0.14	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.07	
			For >20,000, Deduct	-0.10	
09 91 13 00-0023	SF		2 Coats Paint, Sprayed, Paint Exterior Concrete Walls	0.86	
			For Oil Based Paint, Add	0.06	
			For Epoxy Paint, Add	0.12	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.15	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.24	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.32	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.48	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
09 91 13 00-0024			Paint Exterior Concrete Block Walls (09 91 13 00-0001)		
09 91 13 00-0025			Paint Exterior Concrete Block Walls, Epoxy Paint (09 91 13 00-0024)		
09 91 13 00-0026	LF		1 Coat Epoxy Paint, Cut-in Brush Work, Paint Exterior Concrete Block Walls.....	0.22	
			For Work >15' To 20' Above Floor, Add	0.03	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.05	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.07	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.10	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.14	
			For >100 To 250, Add	0.07	
			For >250 To 500, Add	0.03	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 20,000, Deduct	-0.03	
			For >20,000, Deduct	-0.04	
09 91 13 00-0027	SF		1 Coat Epoxy Filler, Brush Work, Paint Exterior Concrete Block Walls.....	1.17	
			For Work >15' To 20' Above Floor, Add	0.14	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.23	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.37	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.51	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.73	
			For >100 To 250, Add	0.35	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.23	



Finishes	09	9
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0028 SF 1 Coat Epoxy Paint, Brush Work, Paint Exterior Concrete Block Walls.....	1.35	
For Work >15' To 20' Above Floor, Add	0.17	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.28	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.44	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.61	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.87	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.27	
09 91 13 00-0029 SF 2 Coats Epoxy Paint, Brush Work, Paint Exterior Concrete Block Walls.....	2.34	
For Work >15' To 20' Above Floor, Add	0.28	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.47	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.74	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.02	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.47	
For >100 To 250, Add	0.70	
For >250 To 500, Add	0.30	
For >2,500 To 5,000, Deduct	-0.12	
For >5,000 To 10,000, Deduct	-0.23	
For >10,000 To 20,000, Deduct	-0.35	
For >20,000, Deduct	-0.47	
09 91 13 00-0030 SF 1 Coat Epoxy Filler, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	0.95	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.39	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 13 00-0031 SF 1 Coat Epoxy Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	1.06	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.45	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	
09 91 13 00-0032 SF 2 Coats Epoxy Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	1.86	
For Work >15' To 20' Above Floor, Add	0.21	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.35	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.55	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.76	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.11	
For >100 To 250, Add	0.53	
For >250 To 500, Add	0.23	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.28	
For >20,000, Deduct	-0.37	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0033	SF 1 Coat Epoxy Filler, Sprayed, Paint Exterior Concrete Block Walls.....	0.70	
	For Work >15' To 20' Above Floor, Add	0.06	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.10	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.16	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.22	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.35	
	For >100 To 250, Add	0.17	
	For >250 To 500, Add	0.08	
	For >2,500 To 5,000, Deduct	-0.04	
	For >5,000 To 10,000, Deduct	-0.07	
	For >10,000 To 20,000, Deduct	-0.11	
	For >20,000, Deduct	-0.14	
09 91 13 00-0034	SF 1 Coat Epoxy Paint, Sprayed, Paint Exterior Concrete Block Walls.....	0.78	
	For Work >15' To 20' Above Floor, Add	0.07	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.12	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.19	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.26	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.41	
	For >100 To 250, Add	0.20	
	For >250 To 500, Add	0.09	
	For >2,500 To 5,000, Deduct	-0.04	
	For >5,000 To 10,000, Deduct	-0.08	
	For >10,000 To 20,000, Deduct	-0.12	
	For >20,000, Deduct	-0.16	
09 91 13 00-0035	SF 2 Coats Epoxy Paint, Sprayed, Paint Exterior Concrete Block Walls.....	1.50	
	For Work >15' To 20' Above Floor, Add	0.13	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.22	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.35	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.48	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.75	
	For >100 To 250, Add	0.37	
	For >250 To 500, Add	0.16	
	For >2,500 To 5,000, Deduct	-0.08	
	For >5,000 To 10,000, Deduct	-0.15	
	For >10,000 To 20,000, Deduct	-0.23	
	For >20,000, Deduct	-0.30	
09 91 13 00-0036	Paint Exterior Concrete Block Walls, Acrylic Latex Paint (09 91 13 00-0024)		
09 91 13 00-0037	LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Block Walls.....	0.22	
	For Oil Based Paint, Add	0.01	
	For Work >15' To 20' Above Floor, Add	0.03	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.05	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.07	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.10	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.14	
	For >100 To 250, Add	0.07	
	For >250 To 500, Add	0.03	
	For >2,500 To 5,000, Deduct	-0.01	
	For >5,000 To 10,000, Deduct	-0.02	
	For >10,000 To 20,000, Deduct	-0.03	
	For >20,000, Deduct	-0.04	
09 91 13 00-0038	SF 1 Coat Filler, Brush Work, Paint Exterior Concrete Block Walls.....	1.09	
	For Oil Based Paint, Add	0.06	
	For Work >15' To 20' Above Floor, Add	0.14	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.23	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.37	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.51	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.72	
	For >100 To 250, Add	0.34	
	For >250 To 500, Add	0.15	
	For >2,500 To 5,000, Deduct	-0.05	
	For >5,000 To 10,000, Deduct	-0.11	
	For >10,000 To 20,000, Deduct	-0.16	
	For >20,000, Deduct	-0.22	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0039 SF 1 Coat Paint, Brush Work, Paint Exterior Concrete Block Walls.....	1.29	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.43	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.59	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.84	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.26	
09 91 13 00-0040 SF 2 Coats Paint, Brush Work, Paint Exterior Concrete Block Walls.....	2.34	
For Oil Based Paint, Add	0.14	
For Work >15' To 20' Above Floor, Add	0.29	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.48	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.76	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.05	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.50	
For >100 To 250, Add	0.71	
For >250 To 500, Add	0.31	
For >2,500 To 5,000, Deduct	-0.12	
For >5,000 To 10,000, Deduct	-0.23	
For >10,000 To 20,000, Deduct	-0.35	
For >20,000, Deduct	-0.47	
09 91 13 00-0041 SF 1Coat Texture Paint, Brush Work, Paint Exterior Concrete Block Walls.....	1.43	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.30	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.48	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.65	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.93	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.29	
09 91 13 00-0042 SF 1 Coat Filler, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	0.85	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.38	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.54	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 13 00-0043 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	1.09	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.13	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.22	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.35	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.48	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.69	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.22	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0044	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	1.85	
			For Oil Based Paint, Add	0.11	
			For Work >15' To 20' Above Floor, Add	0.21	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.36	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.57	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.78	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.13	
			For >100 To 250, Add	0.54	
			For >250 To 500, Add	0.23	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.19	
			For >10,000 To 20,000, Deduct	-0.28	
			For >20,000, Deduct	-0.37	
09 91 13 00-0045	SF		1 Coat Texture Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	1.21	
			For Oil Based Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.24	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.39	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.53	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.76	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.24	
09 91 13 00-0046	SF		1 Coat Filler, Sprayed, Paint Exterior Concrete Block Walls.....	0.76	
			For Oil Based Paint, Add	0.05	
			For Work >15' To 20' Above Floor, Add	0.08	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.14	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.22	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.30	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.44	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	
09 91 13 00-0047	SF		1 Coat Paint, Sprayed, Paint Exterior Concrete Block Walls.....	0.79	
			For Oil Based Paint, Add	0.05	
			For Work >15' To 20' Above Floor, Add	0.08	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.13	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.21	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.29	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.43	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 13 00-0048	SF		2 Coats Paint, Sprayed, Paint Exterior Concrete Block Walls.....	1.25	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.14	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.23	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.37	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.51	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.74	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.25	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0049 SF 1Coat Texture Paint, Sprayed, Paint Exterior Concrete Block Walls	1.01	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.38	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 13 00-0050 Paint Exterior Metal Walls (09 91 13 00-0001)		
09 91 13 00-0051 Paint Exterior Galvanized Walls (09 91 13 00-0050)		
Note: Linseed oil or acrylic latex paint.		
09 91 13 00-0052 SF 1 Coat Primer, Brush Work, Paint Exterior Galvanized Wall Surfaces.....	1.13	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.46	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.67	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	
09 91 13 00-0053 SF 1 Coat Paint, Brush Work, Paint Exterior Galvanized Wall Surfaces.....	1.25	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.52	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.76	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.25	
09 91 13 00-0054 SF 2 Coats Paint, Brush Work, Paint Exterior Galvanized Wall Surfaces.....	2.28	
For Work >15' To 20' Above Floor, Add	0.25	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.42	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.67	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.92	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.34	
For >100 To 250, Add	0.65	
For >250 To 500, Add	0.28	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.23	
For >10,000 To 20,000, Deduct	-0.34	
For >20,000, Deduct	-0.46	
09 91 13 00-0055 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Galvanized Walls.....	0.85	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.24	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.33	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.49	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0056	SF		1 Coat Paint, Brush/Roller Work, Paint Exterior Galvanized Walls	0.98	
			For Work >15' To 20' Above Floor, Add	0.11	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.18	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.29	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.40	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.58	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0057	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Galvanized Walls	1.83	
			For Work >15' To 20' Above Floor, Add	0.20	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.33	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.52	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.72	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.06	
			For >100 To 250, Add	0.51	
			For >250 To 500, Add	0.22	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.18	
			For >10,000 To 20,000, Deduct	-0.27	
			For >20,000, Deduct	-0.37	
09 91 13 00-0058	SF		1 Coat Primer, Sprayed, Paint Exterior Galvanized Walls	0.69	
			For Work >15' To 20' Above Floor, Add	0.05	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.09	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.14	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.19	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.31	
			For >100 To 250, Add	0.15	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.14	
09 91 13 00-0059	SF		1 Coat Paint, Sprayed, Paint Exterior Galvanized Walls.....	0.89	
			For Work >15' To 20' Above Floor, Add	0.08	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.14	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.22	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.30	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.46	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.18	
09 91 13 00-0060	SF		2 Coats Paint, Sprayed, Paint Exterior Galvanized Walls.....	1.51	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.20	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.32	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.45	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.71	
			For >100 To 250, Add	0.35	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.23	
			For >20,000, Deduct	-0.30	

09 91 13 00-0061 Paint Exterior Aluminum And Aluminum Alloy Walls (09 91 13 00-0050)
 Note: Alkyd enamel paint.



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0062 SF 1 Coat Primer, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces.....	1.13	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.46	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.67	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	
09 91 13 00-0063 SF 1 Coat Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces.....	1.25	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.52	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.76	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.25	
09 91 13 00-0064 SF 2 Coats Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces	2.27	
For Work >15' To 20' Above Floor, Add	0.25	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.42	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.67	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.92	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.34	
For >100 To 250, Add	0.64	
For >250 To 500, Add	0.28	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.23	
For >10,000 To 20,000, Deduct	-0.34	
For >20,000, Deduct	-0.45	
09 91 13 00-0065 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Walls.....	0.95	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.24	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.33	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.50	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 13 00-0066 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Walls.....	1.07	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.29	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.40	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.59	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0067	SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Walls .....2.01		
	For Work >15' To 20' Above Floor, Add	0.20	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.33	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.52	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.72	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.09	
	For >100 To 250, Add	0.53	
	For >250 To 500, Add	0.23	
	For >2,500 To 5,000, Deduct	-0.10	
	For >5,000 To 10,000, Deduct	-0.20	
	For >10,000 To 20,000, Deduct	-0.30	
	For >20,000, Deduct	-0.40	
09 91 13 00-0068	SF 1 Coat Primer, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Walls .....0.75		
	For Work >15' To 20' Above Floor, Add	0.06	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.10	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.16	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.22	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.35	
	For >100 To 250, Add	0.18	
	For >250 To 500, Add	0.08	
	For >2,500 To 5,000, Deduct	-0.04	
	For >5,000 To 10,000, Deduct	-0.08	
	For >10,000 To 20,000, Deduct	-0.11	
	For >20,000, Deduct	-0.15	
09 91 13 00-0069	SF 1 Coat Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Walls.....0.89		
	For Work >15' To 20' Above Floor, Add	0.08	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.14	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.22	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.30	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.46	
	For >100 To 250, Add	0.22	
	For >250 To 500, Add	0.10	
	For >2,500 To 5,000, Deduct	-0.04	
	For >5,000 To 10,000, Deduct	-0.09	
	For >10,000 To 20,000, Deduct	-0.13	
	For >20,000, Deduct	-0.18	
09 91 13 00-0070	SF 2 Coats Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Walls .....1.51		
	For Work >15' To 20' Above Floor, Add	0.12	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.20	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.32	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.45	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.71	
	For >100 To 250, Add	0.35	
	For >250 To 500, Add	0.16	
	For >2,500 To 5,000, Deduct	-0.08	
	For >5,000 To 10,000, Deduct	-0.15	
	For >10,000 To 20,000, Deduct	-0.23	
	For >20,000, Deduct	-0.30	
09 91 13 00-0071	Paint Exterior Aluminum And Aluminum Alloy Roof Stacks (09 91 13 00-0050)		
09 91 13 00-0072	LF 1 Coat Primer, Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, Per LF Of Stack.....13.82		
	For Work >15' To 20' Above Floor, Add	1.81	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	3.02	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	4.83	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	6.64	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	9.32	
	For >100 To 250, Add	4.40	
	For >250 To 500, Add	1.90	
	For >2,500 To 5,000, Deduct	-0.69	
	For >5,000 To 10,000, Deduct	-1.38	
	For >10,000 To 20,000, Deduct	-2.07	
	For >20,000, Deduct	-2.76	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0073 LF 1 Coat Paint, Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, Per LF Of Stack	15.40	
For Work >15' To 20' Above Floor, Add	2.02	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	3.36	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	5.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	7.39	
Note: Applied only to work area above 40'.		
For Up To 100, Add	10.37	
For >100 To 250, Add	4.90	
For >250 To 500, Add	2.11	
For >2,500 To 5,000, Deduct	-0.77	
For >5,000 To 10,000, Deduct	-1.54	
For >10,000 To 20,000, Deduct	-2.31	
For >20,000, Deduct	-3.08	
09 91 13 00-0074 LF 2 Coats Paint, Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, Per LF Of Stack	28.74	
For Work >15' To 20' Above Floor, Add	3.79	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	6.31	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	10.10	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	13.89	
Note: Applied only to work area above 40'.		
For Up To 100, Add	19.46	
For >100 To 250, Add	9.19	
For >250 To 500, Add	3.96	
For >2,500 To 5,000, Deduct	-1.44	
For >5,000 To 10,000, Deduct	-2.87	
For >10,000 To 20,000, Deduct	-4.31	
For >20,000, Deduct	-5.75	
09 91 13 00-0075 Paint Exterior Corrugated Metal Walls (09 91 13 00-0050)		
09 91 13 00-0076 SF 1 Coat Primer, Sprayed, Paint Exterior Corrugated Metal Walls.....	0.85	
For Work >15' To 20' Above Floor, Add	0.07	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.11	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.18	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.25	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.40	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 13 00-0077 SF 1 Coat Paint, Sprayed, Paint Exterior Corrugated Metal Walls.....	1.12	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.29	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.40	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.60	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	
09 91 13 00-0078 SF 2 Coats Paint, Sprayed, Paint Exterior Corrugated Metal Walls	1.88	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.43	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.59	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.93	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.28	
For >20,000, Deduct	-0.38	

09 Finishes**09 90 Painting and Coating****09 91 Painting**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

09 91 13 00-0079		Paint Exterior Stucco Walls <small>(09 91 13 00-0001)</small>	
09 91 13 00-0080	LF	1 Coat Paint, Cut-in Brush Work, Paint Exterior Stucco Wall Surfaces.....	0.27
		<i>For Oil Based Paint, Add</i>	0.02
		<i>For Work >15' To 20' Above Floor, Add</i>	0.04
		<i>Note: Applied only to work area above 15' to 20'.</i>	
		<i>For Work >20' To 30' Above Floor, Add</i>	0.06
		<i>Note: Applied only to work area above 20'.</i>	
		<i>For Work >30' To 40' Above Floor, Add</i>	0.10
		<i>Note: Applied only to work area above 30' to 40'.</i>	
		<i>For Work >40' Above Floor, Add</i>	0.13
		<i>Note: Applied only to work area above 40'.</i>	
		<i>For Up To 100, Add</i>	0.18
		<i>For >100 To 250, Add</i>	0.09
		<i>For >250 To 500, Add</i>	0.04
		<i>For >2,500 To 5,000, Deduct</i>	-0.01
		<i>For >5,000 To 10,000, Deduct</i>	-0.03
		<i>For >10,000 To 20,000, Deduct</i>	-0.04
		<i>For >20,000, Deduct</i>	-0.05
09 91 13 00-0081	SF	1 Coat Primer, Brush Work, Paint Exterior Stucco Wall Surfaces.....	1.47
		<i>For Oil Based Paint, Add</i>	0.08
		<i>For Work >15' To 20' Above Floor, Add</i>	0.20
		<i>Note: Applied only to work area above 15' to 20'.</i>	
		<i>For Work >20' To 30' Above Floor, Add</i>	0.33
		<i>Note: Applied only to work area above 20'.</i>	
		<i>For Work >30' To 40' Above Floor, Add</i>	0.52
		<i>Note: Applied only to work area above 30' to 40'.</i>	
		<i>For Work >40' Above Floor, Add</i>	0.72
		<i>Note: Applied only to work area above 40'.</i>	
		<i>For Up To 100, Add</i>	1.01
		<i>For >100 To 250, Add</i>	0.47
		<i>For >250 To 500, Add</i>	0.20
		<i>For >2,500 To 5,000, Deduct</i>	-0.07
		<i>For >5,000 To 10,000, Deduct</i>	-0.15
		<i>For >10,000 To 20,000, Deduct</i>	-0.22
		<i>For >20,000, Deduct</i>	-0.29
09 91 13 00-0082	SF	1 Coat Paint, Brush Work, Paint Exterior Stucco Wall Surfaces.....	1.62
		<i>For Oil Based Paint, Add</i>	0.09
		<i>For Work >15' To 20' Above Floor, Add</i>	0.21
		<i>Note: Applied only to work area above 15' to 20'.</i>	
		<i>For Work >20' To 30' Above Floor, Add</i>	0.36
		<i>Note: Applied only to work area above 20'.</i>	
		<i>For Work >30' To 40' Above Floor, Add</i>	0.57
		<i>Note: Applied only to work area above 30' to 40'.</i>	
		<i>For Work >40' Above Floor, Add</i>	0.79
		<i>Note: Applied only to work area above 40'.</i>	
		<i>For Up To 100, Add</i>	1.10
		<i>For >100 To 250, Add</i>	0.52
		<i>For >250 To 500, Add</i>	0.22
		<i>For >2,500 To 5,000, Deduct</i>	-0.08
		<i>For >5,000 To 10,000, Deduct</i>	-0.16
		<i>For >10,000 To 20,000, Deduct</i>	-0.24
		<i>For >20,000, Deduct</i>	-0.32
09 91 13 00-0083	SF	2 Coats Paint, Brush Work, Paint Exterior Stucco Wall Surfaces.....	2.99
		<i>For Oil Based Paint, Add</i>	0.17
		<i>For Work >15' To 20' Above Floor, Add</i>	0.39
		<i>Note: Applied only to work area above 15' to 20'.</i>	
		<i>For Work >20' To 30' Above Floor, Add</i>	0.65
		<i>Note: Applied only to work area above 20'.</i>	
		<i>For Work >30' To 40' Above Floor, Add</i>	1.04
		<i>Note: Applied only to work area above 30' to 40'.</i>	
		<i>For Work >40' Above Floor, Add</i>	1.44
		<i>Note: Applied only to work area above 40'.</i>	
		<i>For Up To 100, Add</i>	2.01
		<i>For >100 To 250, Add</i>	0.95
		<i>For >250 To 500, Add</i>	0.41
		<i>For >2,500 To 5,000, Deduct</i>	-0.15
		<i>For >5,000 To 10,000, Deduct</i>	-0.30
		<i>For >10,000 To 20,000, Deduct</i>	-0.45
		<i>For >20,000, Deduct</i>	-0.60
09 91 13 00-0084	SF	1 Coat Primer, Brush/Roller Work, Paint Exterior Stucco Walls.....	1.10
		<i>For Oil Based Paint, Add</i>	0.06
		<i>For Work >15' To 20' Above Floor, Add</i>	0.14
		<i>Note: Applied only to work area above 15' to 20'.</i>	
		<i>For Work >20' To 30' Above Floor, Add</i>	0.24
		<i>Note: Applied only to work area above 20'.</i>	
		<i>For Work >30' To 40' Above Floor, Add</i>	0.38
		<i>Note: Applied only to work area above 30' to 40'.</i>	
		<i>For Work >40' Above Floor, Add</i>	0.52
		<i>Note: Applied only to work area above 40'.</i>	
		<i>For Up To 100, Add</i>	0.73
		<i>For >100 To 250, Add</i>	0.35
		<i>For >250 To 500, Add</i>	0.15
		<i>For >2,500 To 5,000, Deduct</i>	-0.06
		<i>For >5,000 To 10,000, Deduct</i>	-0.11
		<i>For >10,000 To 20,000, Deduct</i>	-0.17
		<i>For >20,000, Deduct</i>	-0.22



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0085 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Stucco Walls.....	1.25	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.58	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.82	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.25	
09 91 13 00-0086 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Stucco Walls.....	2.30	
For Oil Based Paint, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.29	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.48	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.77	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.06	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.50	
For >100 To 250, Add	0.71	
For >250 To 500, Add	0.31	
For >2,500 To 5,000, Deduct	-0.12	
For >5,000 To 10,000, Deduct	-0.23	
For >10,000 To 20,000, Deduct	-0.35	
For >20,000, Deduct	-0.46	
09 91 13 00-0087 SF 1 Coat Primer, Sprayed, Paint Exterior Stucco Walls.....	0.76	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.14	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.23	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.31	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.46	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0088 SF 1 Coat Paint, Sprayed, Paint Exterior Stucco Walls.....	0.92	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.27	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.37	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.55	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 91 13 00-0089 SF 2 Coats Paint, Sprayed, Paint Exterior Stucco Walls.....	1.78	
For Oil Based Paint, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.20	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.34	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.54	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.74	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.08	
For >100 To 250, Add	0.52	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.27	
For >20,000, Deduct	-0.36	

09	09 Finishes
	09 90 Painting and Coating
	09 91 Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 91 13 00-0090	Paint Exterior Wood Siding <small>(09 91 13 00-0001)</small>		
09 91 13 00-0091	Paint Exterior Smooth Wood Siding <small>(09 91 13 00-0090)</small>		
	Note: Includes tongue and groove, beveled, drop or board and batten siding.		
09 91 13 00-0092	LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Wood Smooth Siding.....	0.22	
	For Oil Based Paint, Add	0.01	
	For Work >15' To 20' Above Floor, Add	0.03	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.05	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.08	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.10	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.15	
	For >100 To 250, Add	0.07	
	For >250 To 500, Add	0.03	
	For >2,500 To 5,000, Deduct	-0.01	
	For >5,000 To 10,000, Deduct	-0.02	
	For >10,000 To 20,000, Deduct	-0.03	
	For >20,000, Deduct	-0.04	
09 91 13 00-0093	SF 1 Coat Primer, Brush Work, Paint Exterior Wood Smooth Siding.....	1.23	
	For Oil Based Paint, Add	0.07	
	For Work >15' To 20' Above Floor, Add	0.16	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.26	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.42	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.57	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.81	
	For >100 To 250, Add	0.38	
	For >250 To 500, Add	0.17	
	For >2,500 To 5,000, Deduct	-0.06	
	For >5,000 To 10,000, Deduct	-0.12	
	For >10,000 To 20,000, Deduct	-0.18	
	For >20,000, Deduct	-0.25	
09 91 13 00-0094	SF 1 Coat Paint, Brush Work, Paint Exterior Wood Smooth Siding.....	1.31	
	For Oil Based Paint, Add	0.07	
	For Work >15' To 20' Above Floor, Add	0.17	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.29	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.46	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.63	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.89	
	For >100 To 250, Add	0.42	
	For >250 To 500, Add	0.18	
	For >2,500 To 5,000, Deduct	-0.07	
	For >5,000 To 10,000, Deduct	-0.13	
	For >10,000 To 20,000, Deduct	-0.20	
	For >20,000, Deduct	-0.26	
09 91 13 00-0095	SF 2 Coats Paint, Brush Work, Paint Exterior Wood Smooth Siding.....	2.33	
	For Oil Based Paint, Add	0.13	
	For Work >15' To 20' Above Floor, Add	0.30	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.50	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.80	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	1.11	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.56	
	For >100 To 250, Add	0.74	
	For >250 To 500, Add	0.32	
	For >2,500 To 5,000, Deduct	-0.12	
	For >5,000 To 10,000, Deduct	-0.23	
	For >10,000 To 20,000, Deduct	-0.35	
	For >20,000, Deduct	-0.47	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0096 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Smooth Wood Siding.....	0.94	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.29	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.40	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 13 00-0097 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Smooth Wood Siding.....	1.05	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.13	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.22	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.34	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.47	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.67	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	
09 91 13 00-0098 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Smooth Wood Siding.....	1.96	
For Oil Based Paint, Add	0.12	
For Work >15' To 20' Above Floor, Add	0.24	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.40	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.63	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.87	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.24	
For >100 To 250, Add	0.59	
For >250 To 500, Add	0.26	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000 To 20,000, Deduct	-0.29	
For >20,000, Deduct	-0.39	
09 91 13 00-0099 SF 1 Coat Primer, Sprayed, Paint Exterior Smooth Wood Siding.....	0.71	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.07	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.12	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.20	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.27	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.40	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 91 13 00-0100 SF 1 Coat Paint, Sprayed, Paint Exterior Smooth Wood Siding.....	0.87	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.16	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.26	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.36	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.52	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0101	SF		2 Coats Paint, Sprayed, Paint Exterior Smooth Wood Siding.....	1.37	
			For Oil Based Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.24	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.39	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.53	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.79	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.27	
09 91 13 00-0102			Paint Exterior Rough Wood Siding (09 91 13 00-0090)		
			Note: Includes shingles, shakes or rough sawn siding.		
09 91 13 00-0103	SF		1 Coat Primer, Brush Work, Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding.....	1.66	
			For Oil Based Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.22	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.36	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.58	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.79	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.11	
			For >100 To 250, Add	0.53	
			For >250 To 500, Add	0.23	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.25	
			For >20,000, Deduct	-0.33	
09 91 13 00-0104	SF		1 Coat Paint, Brush Work, Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding.....	1.67	
			For Oil Based Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.23	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.38	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.60	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.83	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.16	
			For >100 To 250, Add	0.54	
			For >250 To 500, Add	0.23	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.25	
			For >20,000, Deduct	-0.33	
09 91 13 00-0105	SF		2 Coats Paint, Brush Work, Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding.....	3.07	
			For Oil Based Paint, Add	0.17	
			For Work >15' To 20' Above Floor, Add	0.41	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.69	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	1.10	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.51	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	2.11	
			For >100 To 250, Add	0.99	
			For >250 To 500, Add	0.43	
			For >2,500 To 5,000, Deduct	-0.15	
			For >5,000 To 10,000, Deduct	-0.31	
			For >10,000 To 20,000, Deduct	-0.46	
			For >20,000, Deduct	-0.61	



	Finishes	09
	Painting and Coating	09 90
	Painting	09 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0106 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn)	1.42	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.43	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.59	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.86	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.28	
09 91 13 00-0107 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn)	1.54	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.30	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.48	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.65	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.95	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.31	
09 91 13 00-0108 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn).....	2.84	
For Oil Based Paint, Add	0.18	
For Work >15' To 20' Above Floor, Add	0.32	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.54	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.86	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.18	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.71	
For >100 To 250, Add	0.82	
For >250 To 500, Add	0.36	
For >2,500 To 5,000, Deduct	-0.14	
For >5,000 To 10,000, Deduct	-0.28	
For >10,000 To 20,000, Deduct	-0.43	
For >20,000, Deduct	-0.57	
09 91 13 00-0109 SF 1 Coat Primer, Sprayed, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn).....	0.97	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.27	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.37	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.55	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.19	
09 91 13 00-0110 SF 1 Coat Paint, Sprayed, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn)	1.11	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.32	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.45	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0111	SF		2 Coats Paint, Sprayed, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn)	2.07	
			For Oil Based Paint, Add	0.13	
			For Work >15' To 20' Above Floor, Add	0.22	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.37	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.59	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.81	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.20	
			For >100 To 250, Add	0.58	
			For >250 To 500, Add	0.25	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.21	
			For >10,000 To 20,000, Deduct	-0.31	
			For >20,000, Deduct	-0.41	
09 91 13 00-0112			Paint Exterior Vinyl Siding <small>(09 91 13 00-0001)</small>		
09 91 13 00-0113	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Vinyl Siding.....	0.16	
			For Oil Based Paint, Add	0.01	
			For Work >15' To 20' Above Floor, Add	0.02	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.03	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.05	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.07	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.10	
			For >100 To 250, Add	0.05	
			For >250 To 500, Add	0.02	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 20,000, Deduct	-0.02	
			For >20,000, Deduct	-0.03	
09 91 13 00-0114	SF		1 Coat Primer, Brush Work, Paint Exterior Vinyl Siding.....	0.90	
			For Oil Based Paint, Add	0.05	
			For Work >15' To 20' Above Floor, Add	0.11	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.18	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.28	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.39	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.56	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	
09 91 13 00-0115	SF		1 Coat Paint, Brush Work, Paint Exterior Vinyl Siding	1.00	
			For Oil Based Paint, Add	0.06	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.20	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.32	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.45	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.64	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0116 SF 2 Coats Paint, Brush Work, Paint Exterior Vinyl Siding	1.83	
For Oil Based Paint, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.21	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.36	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.57	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.79	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.13	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.23	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.27	
For >20,000, Deduct	-0.37	
09 91 13 00-0117 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Vinyl Siding.....	0.82	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.24	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.33	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0118 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Vinyl Siding.....	0.82	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.24	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.33	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0119 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Vinyl Siding	1.50	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.43	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.59	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.87	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.30	
09 91 13 00-0120 SF 1 Coat Primer, Sprayed, Paint Exterior Vinyl Siding	0.67	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.10	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.16	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.22	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.34	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.13	

09	09	Finishes
	09 90	Painting and Coating
	09 91	Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0121 SF 1 Coat Paint, Sprayed, Paint Exterior Vinyl Siding.....	0.75	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.10	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.16	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.22	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.35	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0122 SF 2 Coats Paint, Sprayed, Paint Exterior Vinyl Siding.....	1.48	
For Oil Based Paint, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.32	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.45	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.71	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.30	
09 91 13 00-0123 Paint Exterior Ceilings (09 91 13)		
09 91 13 00-0124 Paint Exterior Concrete Ceilings (09 91 13 00-0123)		
09 91 13 00-0125 LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Ceiling.....	0.18	
For Oil Based Paint, Add	0.01	
For Epoxy Paint, Add	0.02	
For Work >15' To 20' Above Floor, Add	0.02	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.04	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.06	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.09	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.12	
For >100 To 250, Add	0.06	
For >250 To 500, Add	0.03	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.03	
For >20,000, Deduct	-0.04	
09 91 13 00-0126 SF 1 Coat Filler, Brush Work, Paint Exterior Concrete Ceiling.....	0.96	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.46	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.64	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	



Finishes	09	2
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0127 SF 1 Coat Paint, Brush Work, Paint Exterior Concrete Ceiling	1.06	
For Oil Based Paint, Add	0.06	
For Epoxy Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.52	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.73	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	
09 91 13 00-0128 SF 2 Coats Paint, Brush Work, Paint Exterior Concrete Ceiling.....	1.88	
For Oil Based Paint, Add	0.11	
For Epoxy Paint, Add	0.16	
For Work >15' To 20' Above Floor, Add	0.25	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.42	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.66	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.91	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.28	
For >100 To 250, Add	0.60	
For >250 To 500, Add	0.26	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.28	
For >20,000, Deduct	-0.38	
09 91 13 00-0129 SF 1 Coat Filler, Brush/Roller Work, Paint Exterior Concrete Ceiling.....	0.73	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.24	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.33	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.47	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0130 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Concrete Ceiling	0.82	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.39	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.55	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	

09	Finishes
09 90	Painting and Coating
09 91	Painting



MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COSTDEMOLITION
UNIT COST

09 91 13 00-0131	SF	2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Ceiling.....	1.54	
		<i>For Oil Based Paint, Add</i>	0.09	
		<i>For Epoxy Paint, Add</i>	0.14	
		<i>For Work >15' To 20' Above Floor, Add</i>	0.20	
		<i>Note: Applied only to work area above 15' to 20'.</i>		
		<i>For Work >20' To 30' Above Floor, Add</i>	0.33	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Work >30' To 40' Above Floor, Add</i>	0.53	
		<i>Note: Applied only to work area above 30' to 40'.</i>		
		<i>For Work >40' Above Floor, Add</i>	0.73	
		<i>Note: Applied only to work area above 40'.</i>		
		<i>For Up To 100, Add</i>	1.02	
		<i>For >100 To 250, Add</i>	0.48	
		<i>For >250 To 500, Add</i>	0.21	
		<i>For >2,500 To 5,000, Deduct</i>	-0.08	
		<i>For >5,000 To 10,000, Deduct</i>	-0.15	
		<i>For >10,000 To 20,000, Deduct</i>	-0.23	
		<i>For >20,000, Deduct</i>	-0.31	
09 91 13 00-0132	SF	1 Coat Filler, Sprayed, Paint Exterior Concrete Ceiling	0.56	
		<i>For Oil Based Paint, Add</i>	0.04	
		<i>For Epoxy Paint, Add</i>	0.08	
		<i>For Work >15' To 20' Above Floor, Add</i>	0.06	
		<i>Note: Applied only to work area above 15' to 20'.</i>		
		<i>For Work >20' To 30' Above Floor, Add</i>	0.10	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Work >30' To 40' Above Floor, Add</i>	0.16	
		<i>Note: Applied only to work area above 30' to 40'.</i>		
		<i>For Work >40' Above Floor, Add</i>	0.22	
		<i>Note: Applied only to work area above 40'.</i>		
		<i>For Up To 100, Add</i>	0.32	
		<i>For >100 To 250, Add</i>	0.16	
		<i>For >250 To 500, Add</i>	0.07	
		<i>For >2,500 To 5,000, Deduct</i>	-0.03	
		<i>For >5,000 To 10,000, Deduct</i>	-0.06	
		<i>For >10,000 To 20,000, Deduct</i>	-0.08	
		<i>For >20,000, Deduct</i>	-0.11	
09 91 13 00-0133	SF	1 Coat Paint, Sprayed, Paint Exterior Concrete Ceiling	0.67	
		<i>For Oil Based Paint, Add</i>	0.04	
		<i>For Epoxy Paint, Add</i>	0.07	
		<i>For Work >15' To 20' Above Floor, Add</i>	0.08	
		<i>Note: Applied only to work area above 15' to 20'.</i>		
		<i>For Work >20' To 30' Above Floor, Add</i>	0.14	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Work >30' To 40' Above Floor, Add</i>	0.22	
		<i>Note: Applied only to work area above 30' to 40'.</i>		
		<i>For Work >40' Above Floor, Add</i>	0.30	
		<i>Note: Applied only to work area above 40'.</i>		
		<i>For Up To 100, Add</i>	0.42	
		<i>For >100 To 250, Add</i>	0.20	
		<i>For >250 To 500, Add</i>	0.09	
		<i>For >2,500 To 5,000, Deduct</i>	-0.03	
		<i>For >5,000 To 10,000, Deduct</i>	-0.07	
		<i>For >10,000 To 20,000, Deduct</i>	-0.10	
		<i>For >20,000, Deduct</i>	-0.13	
09 91 13 00-0134	SF	2 Coats Paint, Sprayed, Paint Exterior Concrete Ceiling	1.08	
		<i>For Oil Based Paint, Add</i>	0.07	
		<i>For Epoxy Paint, Add</i>	0.14	
		<i>For Work >15' To 20' Above Floor, Add</i>	0.12	
		<i>Note: Applied only to work area above 15' to 20'.</i>		
		<i>For Work >20' To 30' Above Floor, Add</i>	0.20	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Work >30' To 40' Above Floor, Add</i>	0.32	
		<i>Note: Applied only to work area above 30' to 40'.</i>		
		<i>For Work >40' Above Floor, Add</i>	0.45	
		<i>Note: Applied only to work area above 40'.</i>		
		<i>For Up To 100, Add</i>	0.65	
		<i>For >100 To 250, Add</i>	0.31	
		<i>For >250 To 500, Add</i>	0.14	
		<i>For >2,500 To 5,000, Deduct</i>	-0.05	
		<i>For >5,000 To 10,000, Deduct</i>	-0.11	
		<i>For >10,000 To 20,000, Deduct</i>	-0.16	
		<i>For >20,000, Deduct</i>	-0.22	

09 91 13 00-0135 Paint Exterior Wood Ceilings (09 91 13 00-0123)

09 91 13 00-0136 Paint Exterior Smooth Wood Ceilings (09 91 13 00-0135)



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0137 LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Wood Smooth Ceiling.....	0.21	
For Oil Based Paint, Add	0.01	
For Work >15' To 20' Above Floor, Add	0.03	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.05	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.07	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.10	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.14	
For >100 To 250, Add	0.07	
For >250 To 500, Add	0.03	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.03	
For >20,000, Deduct	-0.04	
09 91 13 00-0138 SF 1 Coat Primer, Brush Work, Paint Exterior Wood Smooth Ceiling.....	1.18	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.25	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.40	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.54	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.77	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 13 00-0139 SF 1 Coat Paint, Brush Work, Paint Exterior Wood Smooth Ceiling.....	1.23	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.43	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.59	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.83	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.25	
09 91 13 00-0140 SF 2 Coats Paint, Brush Work, Paint Exterior Wood Smooth Ceiling.....	2.23	
For Oil Based Paint, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.29	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.48	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.76	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.05	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.48	
For >100 To 250, Add	0.70	
For >250 To 500, Add	0.30	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.33	
For >20,000, Deduct	-0.45	
09 91 13 00-0141 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Smooth Wood Ceiling.....	0.94	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.29	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.40	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0142	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Smooth Wood Ceiling	1.02	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.33	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.46	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.65	
			<i>For >100 To 250, Add</i>	0.31	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.10	
			<i>For >10,000 To 20,000, Deduct</i>	-0.15	
			<i>For >20,000, Deduct</i>	-0.20	
09 91 13 00-0143	SF	2	Coats Paint, Brush/Roller Work, Paint Exterior Smooth Wood Ceiling	1.81	
			<i>For Oil Based Paint, Add</i>	0.11	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.36	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.57	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.79	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.13	
			<i>For >100 To 250, Add</i>	0.54	
			<i>For >250 To 500, Add</i>	0.23	
			<i>For >2,500 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000 To 10,000, Deduct</i>	-0.18	
			<i>For >10,000 To 20,000, Deduct</i>	-0.27	
			<i>For >20,000, Deduct</i>	-0.36	
09 91 13 00-0144	SF	1	Coat Primer, Sprayed, Paint Exterior Smooth Wood Ceiling	0.70	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.30	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.43	
			<i>For >100 To 250, Add</i>	0.21	
			<i>For >250 To 500, Add</i>	0.09	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.11	
			<i>For >20,000, Deduct</i>	-0.14	
09 91 13 00-0145	SF	1	Coat Paint, Sprayed, Paint Exterior Smooth Wood Ceiling	0.70	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.30	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.43	
			<i>For >100 To 250, Add</i>	0.21	
			<i>For >250 To 500, Add</i>	0.09	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.11	
			<i>For >20,000, Deduct</i>	-0.14	
09 91 13 00-0146	SF	2	Coats Paint, Sprayed, Paint Exterior Smooth Wood Ceiling	1.26	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.38	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.52	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.75	
			<i>For >100 To 250, Add</i>	0.36	
			<i>For >250 To 500, Add</i>	0.16	
			<i>For >2,500 To 5,000, Deduct</i>	-0.06	
			<i>For >5,000 To 10,000, Deduct</i>	-0.13	
			<i>For >10,000 To 20,000, Deduct</i>	-0.19	
			<i>For >20,000, Deduct</i>	-0.25	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	09 91	13 00-0147		Paint Exterior Rough Wood Ceilings (09 91 13 00-0135)		
	09 91	13 00-0148	SF	1 Coat Primer, Brush Work, Paint Exterior Wood Rough Ceiling.....	1.77	
				For Oil Based Paint, Add	0.10	
				For Work >15' To 20' Above Floor, Add	0.23	
				Note: Applied only to work area above 15' to 20'.		
				For Work >20' To 30' Above Floor, Add	0.38	
				Note: Applied only to work area above 20'.		
				For Work >30' To 40' Above Floor, Add	0.60	
				Note: Applied only to work area above 30' to 40'.		
				For Work >40' Above Floor, Add	0.83	
				Note: Applied only to work area above 40'.		
				For Up To 100, Add	1.17	
				For >100 To 250, Add	0.55	
				For >250 To 500, Add	0.24	
				For >2,500 To 5,000, Deduct	-0.09	
				For >5,000 To 10,000, Deduct	-0.18	
				For >10,000 To 20,000, Deduct	-0.27	
				For >20,000, Deduct	-0.35	
	09 91	13 00-0149	SF	1 Coat Paint, Brush Work, Paint Exterior Wood Rough Ceiling.....	1.83	
				For Oil Based Paint, Add	0.10	
				For Work >15' To 20' Above Floor, Add	0.25	
				Note: Applied only to work area above 15' to 20'.		
				For Work >20' To 30' Above Floor, Add	0.42	
				Note: Applied only to work area above 20'.		
				For Work >30' To 40' Above Floor, Add	0.67	
				Note: Applied only to work area above 30' to 40'.		
				For Work >40' Above Floor, Add	0.92	
				Note: Applied only to work area above 40'.		
				For Up To 100, Add	1.28	
				For >100 To 250, Add	0.60	
				For >250 To 500, Add	0.26	
				For >2,500 To 5,000, Deduct	-0.09	
				For >5,000 To 10,000, Deduct	-0.18	
				For >10,000 To 20,000, Deduct	-0.27	
				For >20,000, Deduct	-0.37	
	09 91	13 00-0150	SF	2 Coats Paint, Brush Work, Paint Exterior Wood Rough Ceiling.....	3.18	
				For Oil Based Paint, Add	0.18	
				For Work >15' To 20' Above Floor, Add	0.43	
				Note: Applied only to work area above 15' to 20'.		
				For Work >20' To 30' Above Floor, Add	0.72	
				Note: Applied only to work area above 20'.		
				For Work >30' To 40' Above Floor, Add	1.14	
				Note: Applied only to work area above 30' to 40'.		
				For Work >40' Above Floor, Add	1.57	
				Note: Applied only to work area above 40'.		
				For Up To 100, Add	2.19	
				For >100 To 250, Add	1.03	
				For >250 To 500, Add	0.45	
				For >2,500 To 5,000, Deduct	-0.16	
				For >5,000 To 10,000, Deduct	-0.32	
				For >10,000 To 20,000, Deduct	-0.48	
				For >20,000, Deduct	-0.64	
	09 91	13 00-0151	SF	1 Coat Primer, Brush/Roller Work, Paint Exterior Rough Wood Ceiling.....	1.54	
				For Oil Based Paint, Add	0.09	
				For Work >15' To 20' Above Floor, Add	0.18	
				Note: Applied only to work area above 15' to 20'.		
				For Work >20' To 30' Above Floor, Add	0.30	
				Note: Applied only to work area above 20'.		
				For Work >30' To 40' Above Floor, Add	0.48	
				Note: Applied only to work area above 30' to 40'.		
				For Work >40' Above Floor, Add	0.65	
				Note: Applied only to work area above 40'.		
				For Up To 100, Add	0.95	
				For >100 To 250, Add	0.45	
				For >250 To 500, Add	0.20	
				For >2,500 To 5,000, Deduct	-0.08	
				For >5,000 To 10,000, Deduct	-0.15	
				For >10,000 To 20,000, Deduct	-0.23	
				For >20,000, Deduct	-0.31	
	09 91	13 00-0152	SF	1 Coat Paint, Brush/Roller Work, Paint Exterior Rough Wood Ceiling.....	1.66	
				For Oil Based Paint, Add	0.10	
				For Work >15' To 20' Above Floor, Add	0.20	
				Note: Applied only to work area above 15' to 20'.		
				For Work >20' To 30' Above Floor, Add	0.33	
				Note: Applied only to work area above 20'.		
				For Work >30' To 40' Above Floor, Add	0.52	
				Note: Applied only to work area above 30' to 40'.		
				For Work >40' Above Floor, Add	0.72	
				Note: Applied only to work area above 40'.		
				For Up To 100, Add	1.04	
				For >100 To 250, Add	0.49	
				For >250 To 500, Add	0.21	
				For >2,500 To 5,000, Deduct	-0.08	
				For >5,000 To 10,000, Deduct	-0.17	
				For >10,000 To 20,000, Deduct	-0.25	
				For >20,000, Deduct	-0.33	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0153	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Rough Wood Ceiling	2.95	
			For Oil Based Paint, Add	0.18	
			For Work >15' To 20' Above Floor, Add	0.34	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.56	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.90	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.24	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.79	
			For >100 To 250, Add	0.86	
			For >250 To 500, Add	0.37	
			For >2,500 To 5,000, Deduct	-0.15	
			For >5,000 To 10,000, Deduct	-0.30	
			For >10,000 To 20,000, Deduct	-0.44	
			For >20,000, Deduct	-0.59	
09 91 13 00-0154	SF		1 Coat Primer, Sprayed, Paint Exterior Rough Wood Ceiling	1.10	
			For Oil Based Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.20	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.32	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.44	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.65	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.22	
09 91 13 00-0155	SF		1 Coat Paint, Sprayed, Paint Exterior Rough Wood Ceiling.....	1.24	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.14	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.24	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.38	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.52	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.75	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.25	
09 91 13 00-0156	SF		2 Coats Paint, Sprayed, Paint Exterior Rough Wood Ceiling.....	2.21	
			For Oil Based Paint, Add	0.14	
			For Work >15' To 20' Above Floor, Add	0.24	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.41	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.65	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.89	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.30	
			For >100 To 250, Add	0.63	
			For >250 To 500, Add	0.27	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.22	
			For >10,000 To 20,000, Deduct	-0.33	
			For >20,000, Deduct	-0.44	

09 91 13 00-0157 Paint Exterior Metal Ceilings (09 91 13 00-0123)

09 91 13 00-0158 Paint Exterior Galvanized Ceilings (09 91 13 00-0157)
Note: Linseed oil or acrylic latex paint.



Finishes	09	2
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0159 SF 1 Coat Primer, Brush Work, Paint Exterior Galvanized Ceiling.....	1.25	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.52	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.76	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.25	
09 91 13 00-0160 SF 1 Coat Paint, Brush Work, Paint Exterior Galvanized Ceiling.....	1.37	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.43	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.59	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.85	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.27	
09 91 13 00-0161 SF 2 Coats Paint, Brush Work, Paint Exterior Galvanized Ceiling.....	2.51	
For Work >15' To 20' Above Floor, Add	0.29	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.48	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.76	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.05	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.52	
For >100 To 250, Add	0.73	
For >250 To 500, Add	0.32	
For >2,500 To 5,000, Deduct	-0.13	
For >5,000 To 10,000, Deduct	-0.25	
For >10,000 To 20,000, Deduct	-0.38	
For >20,000, Deduct	-0.50	
09 91 13 00-0162 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Galvanized Ceiling.....	0.97	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.29	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.40	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.58	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.19	
09 91 13 00-0163 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Galvanized Ceiling.....	1.08	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.46	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.66	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.22	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0164	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Galvanized Ceiling.....	1.93	
			For Work >15' To 20' Above Floor, Add	0.21	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.36	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.57	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.79	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.15	
			For >100 To 250, Add	0.55	
			For >250 To 500, Add	0.24	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.19	
			For >10,000 To 20,000, Deduct	-0.29	
			For >20,000, Deduct	-0.39	
09 91 13 00-0165	SF		1 Coat Primer, Sprayed, Paint Exterior Galvanized Ceiling.....	0.89	
			For Work >15' To 20' Above Floor, Add	0.08	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.14	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.22	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.30	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.46	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.18	
09 91 13 00-0166	SF		1 Coat Paint, Sprayed, Paint Exterior Galvanized Ceiling.....	1.01	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.17	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.26	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.36	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.55	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0167	SF		2 Coats Paint, Sprayed, Paint Exterior Galvanized Ceiling.....	1.64	
			For Work >15' To 20' Above Floor, Add	0.14	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.24	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.38	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.52	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.81	
			For >100 To 250, Add	0.40	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.25	
			For >20,000, Deduct	-0.33	
09 91 13 00-0168			Paint Exterior Aluminum And Aluminum Alloy Ceilings (09 91 13 00-0157)		
			Note: Alkyd enamel paint.		
09 91 13 00-0169	SF		1 Coat Primer, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	1.25	
			For Work >15' To 20' Above Floor, Add	0.14	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.24	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.38	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.52	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.76	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.25	



Finishes	09	9
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0170 SF 1 Coat Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling	1.37	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.43	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.59	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.85	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.27	
09 91 13 00-0171 SF 2 Coats Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling	2.51	
For Work >15' To 20' Above Floor, Add	0.29	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.48	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.76	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.05	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.52	
For >100 To 250, Add	0.73	
For >250 To 500, Add	0.32	
For >2,500 To 5,000, Deduct	-0.13	
For >5,000 To 10,000, Deduct	-0.25	
For >10,000 To 20,000, Deduct	-0.38	
For >20,000, Deduct	-0.50	
09 91 13 00-0172 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling	1.07	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.29	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.40	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.59	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	
09 91 13 00-0173 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	1.18	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.46	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.68	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 13 00-0174 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	2.13	
For Work >15' To 20' Above Floor, Add	0.21	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.36	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.57	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.79	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.18	
For >100 To 250, Add	0.57	
For >250 To 500, Add	0.25	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 20,000, Deduct	-0.32	
For >20,000, Deduct	-0.43	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0175	SF		1 Coat Primer, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	0.89	
			For Work >15' To 20' Above Floor, Add	0.08	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.14	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.22	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.30	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.46	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.18	
09 91 13 00-0176	SF		1 Coat Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	0.89	
			For Work >15' To 20' Above Floor, Add	0.08	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.14	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.22	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.30	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.46	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.18	
09 91 13 00-0177	SF		2 Coats Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	1.64	
			For Work >15' To 20' Above Floor, Add	0.14	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.24	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.38	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.52	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.81	
			For >100 To 250, Add	0.40	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.25	
			For >20,000, Deduct	-0.33	
09 91 13 00-0178			Paint Exterior Corrugated Metal Ceilings (09 91 13 00-0157)		
09 91 13 00-0179	SF		1 Coat Primer, Sprayed, Paint Exterior Corrugated Metal Ceiling.....	0.98	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.15	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.23	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.32	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.50	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0180	SF		1 Coat Paint, Sprayed, Paint Exterior Corrugated Metal Ceiling.....	1.12	
			For Work >15' To 20' Above Floor, Add	0.11	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.18	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.29	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.40	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.60	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.22	



Finishes	09	2
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0181 SF 2 Coats Paint, Sprayed, Paint Exterior Corrugated Metal Ceiling.....	2.05	
For Work >15' To 20' Above Floor, Add	0.19	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.31	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.50	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.69	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.06	
For >100 To 250, Add	0.52	
For >250 To 500, Add	0.23	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 20,000, Deduct	-0.31	
For >20,000, Deduct	-0.41	
09 91 13 00-0182 Paint Exterior Floors (09 91 13)		
09 91 13 00-0183 Paint Exterior Concrete Floors (09 91 13 00-0182)		
09 91 13 00-0184 LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Floors And Decks.....	0.14	
For Up To 100, Add	0.09	
For >100 To 250, Add	0.04	
For >250 To 500, Add	0.02	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.01	
For >10,000 To 20,000, Deduct	-0.02	
For >20,000, Deduct	-0.03	
09 91 13 00-0185 SF 1 Coat Primer, Brush Work, Paint Exterior Concrete Floors And Decks.....	0.73	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.08	
For Up To 100, Add	0.47	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0186 SF 1 Coat Paint, Brush Work, Paint Exterior Concrete Floors And Decks	0.82	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.07	
For Up To 100, Add	0.55	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0187 SF 2 Coats Paint, Brush Work, Paint Exterior Concrete Floors And Decks	1.53	
For Oil Based Paint, Add	0.09	
For Epoxy Paint, Add	0.14	
For Up To 100, Add	1.02	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.31	
09 91 13 00-0188 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Concrete Floors And Decks.....	0.60	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.07	
For Up To 100, Add	0.37	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 13 00-0189 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Concrete Floors And Decks.....	0.71	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.07	
For Up To 100, Add	0.47	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0190	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Floors And Decks	1.15	
			For Oil Based Paint, Add	0.07	
			For Epoxy Paint, Add	0.12	
			For Up To 100, Add	0.73	
			For >100 To 250, Add	0.35	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	
09 91 13 00-0191	SF		1 Coat Primer, Sprayed, Paint Exterior Concrete Floors And Decks	0.43	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.07	
			For Up To 100, Add	0.23	
			For >100 To 250, Add	0.11	
			For >250 To 500, Add	0.05	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 20,000, Deduct	-0.06	
			For >20,000, Deduct	-0.09	
09 91 13 00-0192	SF		1 Coat Paint, Sprayed, Paint Exterior Concrete Floors And Decks.....	0.53	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.07	
			For Up To 100, Add	0.32	
			For >100 To 250, Add	0.15	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.11	
09 91 13 00-0193	SF		2 Coats Paint, Sprayed, Paint Exterior Concrete Floors And Decks.....	0.94	
			For Oil Based Paint, Add	0.06	
			For Epoxy Paint, Add	0.13	
			For Up To 100, Add	0.54	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	
09 91 13 00-0194	SF		1 Coat Non Slip Paint, Brush/Roller Work, Paint Exterior Concrete Floors And Decks.....	2.08	
			For Up To 100, Add	0.67	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.21	
			For >10,000 To 20,000, Deduct	-0.31	
			For >20,000, Deduct	-0.42	
09 91 13 00-0195	SF		1 Coat Anti-Slip Paint, Single Component Epoxy Coating, Brush/Roller Work, Paint Exterior Concrete Floors And Decks.....	4.92	
			For Up To 100, Add	1.10	
			For >100 To 250, Add	0.64	
			For >250 To 500, Add	0.31	
			For >2,500 To 5,000, Deduct	-0.25	
			For >5,000 To 10,000, Deduct	-0.49	
			For >10,000 To 20,000, Deduct	-0.74	
			For >20,000, Deduct	-0.98	
09 91 13 00-0196	SF		1 Coat Anti-Slip Paint, High Performance Epoxy Coating, Brush/Roller Work, Paint Exterior Concrete Floors And Decks.....	6.11	
			For Up To 100, Add	1.28	
			For >100 To 250, Add	0.76	
			For >250 To 500, Add	0.37	
			For >2,500 To 5,000, Deduct	-0.31	
			For >5,000 To 10,000, Deduct	-0.61	
			For >10,000 To 20,000, Deduct	-0.92	
			For >20,000, Deduct	-1.22	
09 91 13 00-0197			Paint Exterior Wood Floors <small>(09 91 13 00-0182)</small>	0.17	
09 91 13 00-0198	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Wood Floors And Decks.....	0.17	
			For Up To 100, Add	0.11	
			For >100 To 250, Add	0.05	
			For >250 To 500, Add	0.02	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 20,000, Deduct	-0.03	
			For >20,000, Deduct	-0.03	
09 91 13 00-0199	SF		1 Coat Primer, Brush Work, Paint Exterior Wood Floors And Decks	0.91	
			For Oil Based Paint, Add	0.06	
			For Up To 100, Add	0.57	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0200 SF 1 Coat Paint, Brush Work, Paint Exterior Wood Floors And Decks	0.99	
For Oil Based Paint, Add	0.06	
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 13 00-0201 SF 2 Coats Paint, Brush Work, Paint Exterior Wood Floors And Decks.....	1.86	
For Oil Based Paint, Add	0.11	
For Up To 100, Add	1.20	
For >100 To 250, Add	0.57	
For >250 To 500, Add	0.25	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.28	
For >20,000, Deduct	-0.37	
09 91 13 00-0202 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Floors And Decks.....	0.82	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0203 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Wood Floors And Decks	0.90	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.56	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 91 13 00-0204 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Wood Floors And Decks	1.45	
For Oil Based Paint, Add	0.09	
For Up To 100, Add	0.86	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.29	
09 91 13 00-0205 SF 1 Coat Primer, Sprayed, Paint Exterior Wood Floors And Decks	0.56	
For Oil Based Paint, Add	0.04	
For Up To 100, Add	0.32	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.11	
09 91 13 00-0206 SF 1 Coat Paint, Sprayed, Paint Exterior Wood Floors And Decks.....	0.70	
For Oil Based Paint, Add	0.04	
For Up To 100, Add	0.43	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 91 13 00-0207 SF 2 Coats Paint, Sprayed, Paint Exterior Wood Floors And Decks	1.13	
For Oil Based Paint, Add	0.07	
For Up To 100, Add	0.66	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	
09 91 13 00-0208 SF 1 Coat Non Slip Paint, Brush Work, Paint Exterior Wood Floors And Decks.....	2.20	
For Up To 100, Add	0.76	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.33	
For >20,000, Deduct	-0.44	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0209 SF 1 Coat Non Slip Epoxy Paint, Brush Work, Paint Exterior Wood Floors And Decks	6.23	
For Up To 100, Add	1.37	
For >100 To 250, Add	0.80	
For >250 To 500, Add	0.38	
For >2,500 To 5,000, Deduct	-0.31	
For >5,000 To 10,000, Deduct	-0.62	
For >10,000 To 20,000, Deduct	-0.93	
For >20,000, Deduct	-1.25	
09 91 13 00-0210 Paint Metal Surfaces (09 91 13)		
Note: Tasks can be used for exterior or interior applications.		
09 91 13 00-0211 Paint Structural Steel (09 91 13 00-0210)		
09 91 13 00-0212 Paint Structural Steel, Brush Work (09 91 13 00-0211)		
09 91 13 00-0213 SF 1 Field Coat Primer, Brush/Roller Work, Paint Exterior Structural Steel	1.07	
For Up To 100, Add	0.68	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For Epoxy Paint, Add	0.11	
09 91 13 00-0214 SF 1 Field Coat Paint, Brush/Roller Work, Paint Exterior Structural Steel	0.94	
For Up To 100, Add	0.59	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For Epoxy Paint, Add	0.11	
09 91 13 00-0215 Paint Structural Steel, Spray Work (09 91 13 00-0211)		
09 91 13 00-0216 SF 1 Field Coat Primer, Sprayed, Paint Exterior Structural Steel	0.75	
For Electrostatic Painting, Add	0.11	
For Up To 100, Add	0.44	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For Epoxy Paint, Add	0.10	
09 91 13 00-0217 SF 1 Field Coat Paint, Sprayed, Paint Exterior Structural Steel	0.62	
For Electrostatic Painting, Add	0.09	
For Up To 100, Add	0.35	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For Epoxy Paint, Add	0.09	
09 91 13 00-0218 Paint Metal Decking, Beams And Bar Joist (09 91 13 00-0211)		
09 91 13 00-0219 SF 1 Coat Primer, Sprayed, Paint Exposed Metal Decking	0.85	
For Up To 100, Add	0.52	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For Epoxy Paint, Add	0.10	
09 91 13 00-0220 SF 1 Coat Paint, Sprayed, Paint Exposed Metal Decking	0.85	
For Up To 100, Add	0.52	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For Epoxy Paint, Add	0.10	
09 91 13 00-0221 SF 2 Coats Paint, Sprayed, Paint Exposed Metal Decking	1.42	
For Up To 100, Add	0.83	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
For Epoxy Paint, Add	0.19	
09 91 13 00-0222 SF 1 Coat Primer, Brush/Roller Work, Paint Metal Beams And Bar Joists	1.30	
For Up To 100, Add	0.74	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For Epoxy Paint, Add	0.18	
09 91 13 00-0223 SF 1 Coat Paint, Brush/Roller Work, Paint Metal Beams And Bar Joists	1.27	
For Up To 100, Add	0.75	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For Epoxy Paint, Add	0.17	
09 91 13 00-0224 SF 2 Coats Paint, Brush/Roller Work, Paint Metal Beams And Bar Joists	2.39	
For Up To 100, Add	1.38	
For >100 To 250, Add	0.67	
For >250 To 500, Add	0.29	
For Epoxy Paint, Add	0.32	
09 91 13 00-0225 SF 1 Coat Primer, Sprayed, Paint Metal Beams And Bar Joists	1.04	
For Up To 100, Add	0.61	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For Epoxy Paint, Add	0.14	
09 91 13 00-0226 SF 1 Coat Paint, Sprayed, Paint Metal Beams And Bar Joists	1.04	
For Up To 100, Add	0.61	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For Epoxy Paint, Add	0.14	



		Finishes	09
		Painting and Coating	09 90
		Painting	09 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0227 SF 2 Coats Paint, Sprayed, Paint Metal Beams And Bar Joists.....	1.76	
For Up To 100, Add	0.97	
For >100 To 250, Add	0.47	
For >250 To 500, Add	0.21	
For Epoxy Paint, Add	0.26	
09 91 13 00-0228 Paint Steel Pipes (09 91 13 00-0210)		
Note: Includes pipe, tubes, rails, conduit, etc.		
09 91 13 00-0229 LF 1 Coat Primer, 1/2" To 1-1/2" Diameter, Paint Conduit Or Steel Pipe.....	1.79	
For Electrostatic Painting, Add	0.22	
For Epoxy Paint, Add	0.18	
09 91 13 00-0230 LF 1 Coat Primer, 2" To 3-1/2" Diameter, Paint Conduit Or Steel Pipe.....	2.00	
For Electrostatic Painting, Add	0.25	
For Epoxy Paint, Add	0.21	
09 91 13 00-0231 LF 1 Coat Primer, 4" Diameter, Paint Steel Pipes.....	2.26	
For Electrostatic Painting, Add	0.29	
For Epoxy Paint, Add	0.23	
09 91 13 00-0232 LF 1 Coat Primer, 6" To 8" Diameter, Paint Steel Pipes	2.82	
For Electrostatic Painting, Add	0.35	
For Epoxy Paint, Add	0.29	
09 91 13 00-0233 LF 1 Coat Primer, 10" To 12" Diameter, Paint Steel Pipes	3.58	
For Electrostatic Painting, Add	0.45	
For Epoxy Paint, Add	0.36	
09 91 13 00-0234 LF 1 Coat Paint, 1/2" To 1-1/2" Diameter, Paint Conduit Or Steel Pipe.....	1.79	
For Electrostatic Painting, Add	0.22	
For Epoxy Paint, Add	0.18	
09 91 13 00-0235 LF 1 Coat Paint, 2" To 3-1/2" Diameter, Paint Conduit Or Steel Pipe.....	2.00	
For Electrostatic Painting, Add	0.25	
For Epoxy Paint, Add	0.21	
09 91 13 00-0236 LF 1 Coat Paint, 4" Diameter, Paint Steel Pipes	2.26	
For Electrostatic Painting, Add	0.29	
For Epoxy Paint, Add	0.23	
09 91 13 00-0237 LF 1 Coat Paint, 6" To 8" Diameter, Paint Steel Pipes.....	2.82	
For Electrostatic Painting, Add	0.35	
For Epoxy Paint, Add	0.29	
09 91 13 00-0238 LF 1 Coat Paint, 10" To 12" Diameter, Paint Steel Pipes.....	3.58	
For Electrostatic Painting, Add	0.45	
For Epoxy Paint, Add	0.36	
09 91 13 00-0239 LF 2 Coats Paint, 1/2" To 1-1/2" Diameter, Paint Conduit Or Steel Pipe	3.62	
For Electrostatic Painting, Add	0.48	
For Epoxy Paint, Add	0.42	
09 91 13 00-0240 LF 2 Coats Paint, 2" To 3-1/2" Diameter, Paint Conduit Or Steel Pipe	4.01	
For Electrostatic Painting, Add	0.51	
For Epoxy Paint, Add	0.41	
09 91 13 00-0241 LF 2 Coats Paint, 4" Diameter, Paint Steel Pipes	4.33	
For Electrostatic Painting, Add	0.55	
For Epoxy Paint, Add	0.45	
09 91 13 00-0242 LF 2 Coats Paint, 6" To 8" Diameter, Paint Steel Pipes.....	5.47	
For Electrostatic Painting, Add	0.69	
For Epoxy Paint, Add	0.56	
09 91 13 00-0243 LF 2 Coats Paint, 10" To 12" Diameter, Paint Steel Pipes.....	6.73	
For Electrostatic Painting, Add	0.86	
For Epoxy Paint, Add	0.70	
09 91 13 00-0244 EA 1 Coat Paint, Paint Exposed Single Or Double Gang Outlet Box	8.88	
For Electrostatic Painting, Add	0.93	
For Epoxy Paint, Add	0.54	
09 91 13 00-0245 Paint Metal Louvers (09 91 13 00-0210)		
09 91 13 00-0246 SF 1 Coat Primer, Brush/Roller Work, Paint Ventilation Louver, SF Of Opening Area.....	1.49	
For Electrostatic Painting, Add	0.18	
09 91 13 00-0247 SF 1 Coat Alkyd Paint, Brush/Roller Work, Paint Ventilation Louver, SF Of Opening Area	1.51	
For Electrostatic Painting, Add	0.18	
09 91 13 00-0248 SF 2 Coats Alkyd Paint, Brush/Roller Work, Paint Ventilation Louver, SF Of Opening Area	3.09	
For Electrostatic Painting, Add	0.38	
09 91 13 00-0249 Paint Ladders (09 91 13 00-0210)		
09 91 13 00-0250 LF 1 Coat Alkyd Primer, Brush/Roller Work, Paint Ladders.....	4.08	
For Epoxy Paint, Add	0.25	
09 91 13 00-0251 LF 1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Ladders	4.56	
For Epoxy Paint, Add	0.27	
09 91 13 00-0252 LF 2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Ladders	8.98	
For Epoxy Paint, Add	0.51	
09 91 13 00-0253 Paint Handrails (09 91 13 00-0210)		
09 91 13 00-0254 LF 1 Coat Alkyd Primer, Brush/Roller Work, 1 Rail, Paint Hand Rail And Bracket	1.62	
For Epoxy Paint, Add	0.13	
09 91 13 00-0255 LF 1 Coat Alkyd Enamel Paint, Brush/Roller Work, 1 Rail, Paint Hand Rail And Bracket.....	1.80	
For Epoxy Paint, Add	0.14	
09 91 13 00-0256 LF 2 Coats Alkyd Enamel Paint, Brush/Roller Work, 1 Rail, Paint Hand Rail And Bracket.....	2.97	
For Epoxy Paint, Add	0.19	

09 Finishes

09 90 Painting and Coating

09 91 Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0257 LF 1 Coat Alkyd Primer, Brush/Roller Work, 1 Rail, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	2.94 0.36	
09 91 13 00-0258 LF 1 Coat Alkyd Enamel Paint, Brush/Roller Work, 1 Rail, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	3.21 0.37	
09 91 13 00-0259 LF 2 Coats Alkyd Enamel Paint, Brush/Roller Work, 1 Rail, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	5.52 0.59	
09 91 13 00-0260 LF 1 Coat Alkyd Primer, Brush/Roller Work, 2 Rails, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	3.16 0.37	
09 91 13 00-0261 LF 1 Coat Alkyd Enamel Paint, Brush/Roller Work, 2 Rails, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	3.47 0.38	
09 91 13 00-0262 LF 2 Coats Alkyd Enamel Paint, Brush/Roller Work, 2 Rails, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	5.86 0.61	
09 91 13 00-0263 LF 1 Coat Alkyd Primer, Brush/Roller Work, Paint Balustrades..... <i>For Epoxy Paint, Add</i>	1.77 0.19	
09 91 13 00-0264 LF 1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Balustrades..... <i>For Epoxy Paint, Add</i>	1.95 0.20	
09 91 13 00-0265 LF 2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Balustrades..... <i>For Epoxy Paint, Add</i>	3.55 0.39	
09 91 13 00-0266 Paint Grating (09 91 13 00-0210)		
09 91 13 00-0267 SF 1 Coat Primer, Brush/Roller Work, Paint Gratings And Frames..... <i>For Epoxy Paint, Add</i>	2.97 0.19	
09 91 13 00-0268 SF 1 Coat Paint, Brush/Roller Work, Paint Gratings And Frames..... <i>For Epoxy Paint, Add</i>	3.02 0.21	
09 91 13 00-0269 SF 2 Coats Paint, Brush/Roller Work, Paint Gratings And Frames..... <i>For Epoxy Paint, Add</i>	4.52 0.35	
09 91 13 00-0270 Equipment And Tanks (09 91 13 00-0210)		
09 91 13 00-0271 Paint Valves (09 91 13 00-0270) Note: Includes 1 coat primer and 1 coat paint finish		
09 91 13 00-0272 EA Prime And Paint 4" And Smaller Valve.....	30.58	
09 91 13 00-0273 EA Prime And Paint 6" To 10" Valve.....	37.46	
09 91 13 00-0274 EA Prime And Paint 12" To 18" Valve.....	49.31	
09 91 13 00-0275 EA Prime And Paint 20" To 24" Valve.....	66.11	
09 91 13 00-0276 EA Prime And Paint >24" To 36" Valve.....	89.80	
09 91 13 00-0277 EA Prime And Paint >36" To 48" Valve.....	122.30	
09 91 13 00-0278 Paint Pumps And Motors (09 91 13 00-0270) Note: Includes 1 coat primer and 1 coat paint finish		
09 91 13 00-0279 EA Prime And Paint Pump Under 1 HP.....	93.67	
09 91 13 00-0280 EA Prime And Paint Pump, 1 HP To 5 HP.....	123.16	
09 91 13 00-0281 EA Prime And Paint Pump, >5 HP To 10 HP.....	147.70	
09 91 13 00-0282 EA Prime And Paint Pump, >10 HP To 20 HP.....	165.36	
09 91 13 00-0283 EA Prime And Paint Pump, >20 HP To 30 HP.....	192.91	
09 91 13 00-0284 EA Prime And Paint Pump, >30 HP To 50 HP.....	220.47	
09 91 13 00-0285 EA Prime And Paint Pump, >50 HP To 75 HP.....	243.08	
09 91 13 00-0286 EA Prime And Paint Pump, >75 HP.....	275.59	
09 91 13 00-0287 Paint Storage Tanks (09 91 13 00-0270)		
09 91 13 00-0288 SF 1 Coat Primer, Roller, Paint Storage Tank, Exterior Surface.....	1.17	
09 91 13 00-0289 SF 1 Coat Paint, Roller, Paint Storage Tank, Exterior Surface.....	1.53	
09 91 13 00-0290 SF 2 Coats Paint, Roller, Paint Storage Tank, Exterior Surface.....	2.91	
09 91 13 00-0291 SF 1 Coat Primer, Roller, Paint Storage Tank, Interior Surface.....	1.59	
09 91 13 00-0292 SF 1 Coat Paint, Roller, Paint Storage Tank, Interior Surface.....	2.00	
09 91 13 00-0293 SF 2 Coats Paint, Roller, Paint Storage Tank, Interior Surface.....	3.84	
09 91 13 00-0294 SF 1 Coat Primer, Sprayed, Paint Storage Tank, Exterior Surface.....	1.18	
09 91 13 00-0295 SF 1 Coat Paint, Sprayed, Paint Storage Tank, Exterior Surface.....	1.44	
09 91 13 00-0296 SF 2 Coats Paint, Sprayed, Paint Storage Tank, Exterior Surface.....	2.79	
09 91 13 00-0297 SF 1 Coat Primer, Sprayed, Paint Storage Tank, Interior Surface.....	1.35	
09 91 13 00-0298 SF 1 Coat Paint, Sprayed, Paint Storage Tank, Interior Surface.....	1.78	
09 91 13 00-0299 SF 2 Coats Paint, Sprayed, Paint Storage Tank, Interior Surface.....	3.45	
09 91 13 00-0300 Other Site Work Painting (09 91 13)		
09 91 13 00-0301 Paint Fencing (09 91 13 00-0300) Note: Per side of fence. Based on gross fence area (length of fence x height of fence).		
09 91 13 00-0302 SF 1 Coat Paint, Brush/Roller, Paint Existing Chain Link Fence..... <i>For Epoxy Paint, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	0.89 0.10 0.57 0.27 0.12	
09 91 13 00-0303 SF 2 Coats Paint, Brush/Roller, Paint Existing Chain Link Fence..... <i>For Epoxy Paint, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	1.68 0.19 1.05 0.50 0.22	



Finishes	09	9
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0304 SF 1 Coat Paint, Sprayed, Paint Existing Chain Link Fence	0.76	
For Epoxy Paint, Add	0.10	
For Electrostatic Painting, Add	0.11	
For Up To 100, Add	0.44	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
09 91 13 00-0305 SF 2 Coats Paint, Sprayed, Paint Existing Chain Link Fence	1.42	
For Epoxy Paint, Add	0.20	
For Electrostatic Painting, Add	0.21	
For Up To 100, Add	0.80	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
09 91 13 00-0306 SF 1 Coat Primer, Brush/Roller, Paint Wrought Iron Fence	0.82	
For Epoxy Paint, Add	0.11	
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
09 91 13 00-0307 SF 1 Coat Paint, Brush/Roller, Paint Wrought Iron Fence.....	0.77	
For Epoxy Paint, Add	0.09	
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
09 91 13 00-0308 SF Each Additional Coat, Brush/Roller, Paint Wrought Iron Fence.....	0.54	
For Epoxy Paint, Add	0.08	
For Up To 100, Add	0.30	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.06	
09 91 13 00-0309 SF 1 Coat Primer, Brush/Roller, Paint Picket Fence.....	1.03	
For Epoxy Paint, Add	0.08	
For Up To 100, Add	0.72	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
09 91 13 00-0310 SF 1 Coat Paint, Brush/Roller, Paint Picket Fence.....	1.03	
For Epoxy Paint, Add	0.08	
For Up To 100, Add	0.72	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
09 91 13 00-0311 SF Each Additional Coat, Brush/Roller, Paint Picket Fence.....	0.73	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.50	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
09 91 13 00-0312 SF 1 Coat Paint, Brush/Roller, Paint Wood Fences	0.73	
For Up To 100, Add	0.47	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
09 91 13 00-0313 SF 2 Coats Paint, Brush/Roller, Paint Wood Fences	1.30	
For Up To 100, Add	0.81	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
09 91 13 00-0314 SF 1 Coat Paint, Sprayed, Paint Wood Fences.....	0.53	
For Up To 100, Add	0.32	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.07	
09 91 13 00-0315 SF 2 Coats Paint, Sprayed, Paint Wood Fences.....	1.00	
For Up To 100, Add	0.59	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
09 91 13 00-0316 Paint Flagpoles (09 91 13 00-0300)		
09 91 13 00-0317 EA 1 Coat Paint, 20' High, Paint Steel Flagpole	207.36	
09 91 13 00-0318 EA 1 Coat Paint, 30' High, Paint Steel Flagpole	279.51	
09 91 13 00-0319 EA 1 Coat Paint, 40' High, Paint Steel Flagpole	351.71	
09 91 13 00-0320 EA 1 Coat Paint, 50' High, Paint Steel Flagpole	423.92	
09 91 13 00-0321 EA 1 Coat Paint, 70' High, Paint Steel Flagpole.....	564.18	
09 91 13 00-0322 EA 1 Coat Paint, 80' High, Paint Steel Flagpole	635.86	
09 91 13 00-0323 EA 1 Coat Paint, 90' High, Paint Steel Flagpole	707.54	
09 91 13 00-0324 Paint Lattice Or Trellis (09 91 13 00-0300)		
09 91 13 00-0325 SF 1 Coat Paint, Sprayed, Per Side, Paint Wood Lattice Or Trellis.....	1.42	
For Up To 100, Add	0.99	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
09 91 13 00-0326 SF 2 Coats Paint, Sprayed, Per Side, Paint Wood Lattice Or Trellis.....	2.64	
For Up To 100, Add	1.82	
For >100 To 250, Add	0.86	
For >250 To 500, Add	0.37	
09 91 13 00-0327 Paint Exterior Stairs (09 91 13)		
09 91 13 00-0328 Paint Exterior Concrete Stairs (09 91 13 00-0327)		
09 91 13 00-0329 RSR 1 Coat Primer, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide)	17.56	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91	13 00-0330	RSR	1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide).....	17.56	
09 91	13 00-0331	RSR	1 Coat Non Slip Paint, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide).....	23.24	
09 91	13 00-0332	RSR	1 Coat Non Slip Epoxy Paint, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide).....	39.39	
09 91	13 00-0333	RSR	2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide).....	35.11	
09 91	13 00-0334		Paint Exterior Metal Stairs <small>(09 91 13 00-0327)</small>		
09 91	13 00-0335	RSR	1 Coat Primer, Brush/Roller Work, Paint Exterior Metal Stair (To 4' Wide).....	9.29	
			<i>For Oil Based Paint, Add</i>	0.50	
09 91	13 00-0336	RSR	1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Metal Stair (To 4' Wide).....	9.29	
			<i>For Oil Based Paint, Add</i>	0.50	
09 91	13 00-0337	RSR	2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Metal Stair (To 4' Wide).....	18.59	
			<i>For Oil Based Paint, Add</i>	1.00	
09 91	13 00-0338		Paint Exterior Wood Stairs <small>(09 91 13 00-0327)</small>		
09 91	13 00-0339	RSR	1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	9.01	
09 91	13 00-0340	RSR	1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	9.00	
09 91	13 00-0341	RSR	1 Coat Non Slip Paint, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	14.68	
09 91	13 00-0342	RSR	1 Coat Non Slip Epoxy Paint, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	30.83	
09 91	13 00-0343	RSR	2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	18.01	
09 91	13 00-0344		Paint Exterior Stair Nosing <small>(09 91 13 00-0327)</small>		
09 91	13 00-0345	LF	1 Coat Paint, Up To 2", Non Slip, Brush Work, Paint Exterior Yellow Stair Safety Strip.....	1.71	
09 91	13 00-0346		Paint Exterior Trim <small>(09 91 13)</small>		
09 91	13 00-0347		Paint Exterior Metal Trim And Gutters <small>(09 91 13 00-0346)</small>		
09 91	13 00-0348	SF	1 Coat Primer, Brush Work, Paint Exterior Exposed Metal Trim.....	1.20	
09 91	13 00-0349	SF	1 Coat Paint, Brush Work, Paint Exterior Exposed Metal Trim.....	1.31	
09 91	13 00-0350	SF	2 Coats Paint, Brush Work, Paint Exterior Exposed Metal Trim.....	2.36	
09 91	13 00-0351	SF	1 Coat Primer, Brush/Roller Work, Paint Exterior Exposed Metal Trim.....	1.09	
09 91	13 00-0352	SF	1 Coat Paint, Brush/Roller Work, Paint Exterior Exposed Metal Trim.....	1.19	
09 91	13 00-0353	SF	2 Coats Paint, Brush/Roller Work, Paint Exterior Exposed Metal Trim.....	2.12	
09 91	13 00-0354	LF	1 Coat Paint, Brush Work, Paint Exterior Gutter And Downspout.....	1.89	
09 91	13 00-0355	LF	2 Coats Paint, Brush Work, Paint Exterior Gutter And Downspout.....	2.43	
09 91	13 00-0356		Paint Exterior Wood Trim <small>(09 91 13 00-0346)</small>		
09 91	13 00-0357	SF	1 Coat Primer, Brush Work, Paint Exterior Wood Trim.....	1.66	
			<i>For Oil Based Paint, Add</i>	0.10	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.36	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.57	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.78	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.10	
			<i>For >100 To 250, Add</i>	0.52	
			<i>For >250 To 500, Add</i>	0.23	
			<i>For >2,500 To 5,000, Deduct</i>	-0.08	
			<i>For >5,000 To 10,000, Deduct</i>	-0.17	
			<i>For >10,000 To 20,000, Deduct</i>	-0.25	
			<i>For >20,000, Deduct</i>	-0.33	
09 91	13 00-0358	SF	1 Coat Paint, Brush Work, Paint Exterior Wood Trim.....	1.80	
			<i>For Oil Based Paint, Add</i>	0.10	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.38	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.61	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.84	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.19	
			<i>For >100 To 250, Add</i>	0.56	
			<i>For >250 To 500, Add</i>	0.24	
			<i>For >2,500 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000 To 10,000, Deduct</i>	-0.18	
			<i>For >10,000 To 20,000, Deduct</i>	-0.27	
			<i>For >20,000, Deduct</i>	-0.36	



Finishes	09	09
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0359 SF 2 Coats Paint, Brush Work, Paint Exterior Wood Trim.....	3.26	
For Oil Based Paint, Add	0.19	
For Work >15' To 20' Above Floor, Add	0.41	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.68	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	1.09	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.50	
Note: Applied only to work area above 40'.		
For Up To 100, Add	2.12	
For >100 To 250, Add	1.01	
For >250 To 500, Add	0.44	
For >2,500 To 5,000, Deduct	-0.16	
For >5,000 To 10,000, Deduct	-0.33	
For >10,000 To 20,000, Deduct	-0.49	
For >20,000, Deduct	-0.65	
09 91 13 00-0360 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Trim.....	1.30	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.58	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.83	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.26	
09 91 13 00-0361 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Wood Trim.....	1.45	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.30	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.47	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.65	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.93	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.29	
09 91 13 00-0362 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Wood Trim.....	2.68	
For Oil Based Paint, Add	0.16	
For Work >15' To 20' Above Floor, Add	0.32	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.54	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.86	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.18	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.69	
For >100 To 250, Add	0.80	
For >250 To 500, Add	0.35	
For >2,500 To 5,000, Deduct	-0.13	
For >5,000 To 10,000, Deduct	-0.27	
For >10,000 To 20,000, Deduct	-0.40	
For >20,000, Deduct	-0.54	
09 91 13 00-0363 SF 1 Coat Primer, Sprayed, Paint Exterior Wood Trim.....	0.97	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.27	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.37	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.55	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.19	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0364	SF		1 Coat Paint, Sprayed, Paint Exterior Wood Trim.....	1.11	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.32	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.45	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.65	
			<i>For >100 To 250, Add</i>	0.31	
			<i>For >250 To 500, Add</i>	0.14	
			<i>For >2,500 To 5,000, Deduct</i>	-0.06	
			<i>For >5,000 To 10,000, Deduct</i>	-0.11	
			<i>For >10,000 To 20,000, Deduct</i>	-0.17	
			<i>For >20,000, Deduct</i>	-0.22	
09 91 13 00-0365	SF		2 Coats Paint, Sprayed, Paint Exterior Wood Trim.....	2.07	
			<i>For Oil Based Paint, Add</i>	0.13	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.37	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.59	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.81	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.20	
			<i>For >100 To 250, Add</i>	0.58	
			<i>For >250 To 500, Add</i>	0.25	
			<i>For >2,500 To 5,000, Deduct</i>	-0.10	
			<i>For >5,000 To 10,000, Deduct</i>	-0.21	
			<i>For >10,000 To 20,000, Deduct</i>	-0.31	
			<i>For >20,000, Deduct</i>	-0.41	
09 91 13 00-0366			Paint Exterior Miscellaneous Metal Surfaces (09 91 13)		
09 91 13 00-0367	SF		1 Coat Alkyd Anticorrosive Metal Primer, Brush/Roller Work, Paint Exterior Miscellaneous Metal Surfaces.....	1.44	
			<i>For Epoxy Paint, Add</i>	0.17	
			<i>For Electrostatic Painting, Add</i>	0.19	
09 91 13 00-0368	SF		1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Miscellaneous Metal Surfaces	1.33	
			<i>For Epoxy Paint, Add</i>	0.13	
			<i>For Electrostatic Painting, Add</i>	0.16	
09 91 13 00-0369	SF		2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Miscellaneous Metal Surfaces.....	2.69	
			<i>For Epoxy Paint, Add</i>	0.27	
			<i>For Electrostatic Painting, Add</i>	0.34	
09 91 33			Painting Materials (09 91)		
			Note: Paint per gallon for owners to obtain extra paint. Not to be used in conjunction with other painting tasks.		
09 91 33 00-0001			Primer (09 91 33)		
09 91 33 00-0002	GAL		Alkyd Primer/Sealer, Interior, 500 SF Per Gallon.....	50.97	
09 91 33 00-0003	GAL		Alkyd Wood Primer, Exterior, 400 SF Per Gallon	30.89	
09 91 33 00-0004	GAL		Prime Coat Oil Wood Primer, 310 SF Per Gallon	39.17	
09 91 33 00-0005	GAL		Catalyzed Epoxy Primer, Two Component Type, 425 SF Per Gallon.....	116.64	
09 91 33 00-0006	EA		Cement Base Primer, 25 LB Sack	32.30	
09 91 33 00-0007	GAL		Alkali Resistant Concrete And Masonry Primer, Exterior, 225 SF Per Gallon	49.80	
09 91 33 00-0008	GAL		Alkali Resistant Concrete And Masonry Primer, Interior, 225 SF Per Gallon	39.98	
09 91 33 00-0009	GAL		Acrylic Latex Primer, Flat Exterior, Fast Drying Wood Undercoat And Back Primer, 400 SF per Gallon.....	30.89	
09 91 33 00-0010	GAL		Acrylic (Vinyl Acrylic) Block Filler, 50 SF Per Gallon.....	28.06	
09 91 33 00-0011	GAL		Acrylic (Vinyl Acrylic) Rust Inhibiting Metal, Primer - 500 SF Per Gallon: Paint - 260 SF Per Gallon	49.47	
09 91 33 00-0012	GAL		Acrylic Heavy Duty Wall Primer/Sealer, Low Odor Type, Alkali-Resistant, 800 SF Per Gallon.....	41.19	
09 91 33 00-0013	GAL		Acrylic (Vinyl Acrylic) Undercoat, All Purpose, Interior/Exterior, 500 SF Per Gallon	41.19	
09 91 33 00-0014	GAL		Latex Wood Primer, Exterior, 300 SF Per Gallon	46.44	
09 91 33 00-0015	GAL		Linseed (Oil Base) Primer, Exterior/Interior, 300 SF Per Gallon.....	30.29	
09 91 33 00-0016	GAL		Red Alkyd Primer, 500 SF Per Gallon.....	87.24	
09 91 33 00-0017	GAL		Wood Sealer/Primer, Interior, Clear, 600 SF Per Gallon.....	32.30	
09 91 33 00-0018	GAL		Zinc Chromate Primer, 300 SF Per Gallon	25.84	
09 91 33 00-0019	GAL		Zinc Dust/Zinc Oxide Primer, 300 SF Per Gallon	66.83	
09 91 33 00-0020	GAL		Stain Killer, Alcohol Base.....	41.67	
09 91 33 00-0021	GAL		Sealer, Primer Kilz, 400 SF Per Gallon.....	47.02	
09 91 33 00-0022			Paint (09 91 33)		
09 91 33 00-0023	GAL		Aluminum Fiber Roof Coat On Composition Roof, 50 SF Per Gallon	22.61	
09 91 33 00-0024	GAL		Acrylic Urethane Sealer	112.12	
09 91 33 00-0025	GAL		Asphalt-Fiber Roof And Foundation Coating, Solvent Type.....	12.11	
			Note: 75 SF per gallon on roof or concrete, 100 SF per gallon on metal.		
09 91 33 00-0026	GAL		Concrete Enamel Epoxy, 350 SF Per Gallon.....	70.06	
09 91 33 00-0027	GAL		Concrete Acrylic Sealer, 400 SF Per Gallon	36.75	
09 91 33 00-0028	GAL		Tar Emulsion, Driveway Coating, 120 SF Per Gallon	12.11	
09 91 33 00-0029	GAL		Acrylic Latex, Driveway Coating, 250 SF Per Gallon	18.37	
09 91 33 00-0030	GAL		Exterior, Oil Base, Gloss Enamel, 400 SF Per Gallon	37.15	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	09 91	33 00-0031	GAL	Exterior, Oil Base, Gloss, 400 SF Per Gallon	49.47	
	09 91	33 00-0032	GAL	Exterior, Oil Base, Semi-Gloss, 400 SF Per Gallon	40.38	
	09 91	33 00-0033	GAL	Exterior, Flat, Oil Base	37.02	
	09 91	33 00-0034	GAL	Exterior, Latex, Semi-Gloss, 400 SF Per Gallon	35.13	
	09 91	33 00-0035	GAL	Exterior, Flat Latex, Trim Paint, 500 SF Per Gallon	41.39	
	09 91	33 00-0036	GAL	Exterior, Latex Flat Paint, 300 SF Per Gallon	36.75	
	09 91	33 00-0037	GAL	Exterior, Water Base, Latex Gloss Enamel	52.31	
	09 91	33 00-0038	GAL	Cold Galvanizing Paint	326.92	
	09 91	33 00-0039	GAL	High Heat Paint	123.51	
	09 91	33 00-0040	GAL	Heat Resistant Paint	82.34	
	09 91	33 00-0041	GAL	Zinc Chromate Paint	74.50	
	09 91	33 00-0042	QT	Anti-Rust Enamel, 500 SF Per Quart	29.41	
	09 91	33 00-0043	GAL	Rust Inhibitor, Ferrous Metal	82.34	
	09 91	33 00-0044	GAL	Masonry Waterproofing, 100 SF Per Gallon	36.75	
	09 91	33 00-0045	GAL	Alkyd Latex, Black	55.54	
	09 91	33 00-0046	GAL	Alkyd Latex, White	55.54	
	09 91	33 00-0047	GAL	Alkyd Latex, Colors	66.98	
	09 91	33 00-0048	QT	Wrought Iron Paint, Black	75.15	
	09 91	33 00-0049	GAL	Vinyl Paint	61.78	
	09 91	33 00-0050	GAL	Silicone Alkyd	75.11	
	09 91	33 00-0051	GAL	2 Component Solvent Based Acrylic Epoxy	76.32	
	09 91	33 00-0052	GAL	2 Component Solvent Based Polyester Epoxy	95.70	
	09 91	33 00-0053	GAL	Chlorinated Rubber	70.26	
	09 91	33 00-0054	GAL	Polyamide Epoxy Sealer	72.68	
	09 91	33 00-0055	GAL	Coal Tar Epoxy	52.09	
	09 91	33 00-0056	GAL	Swimming Pool Enamel, 350 SF Per Gallon	65.01	
	09 91	33 00-0057	GAL	Swimming Pool Epoxy Or Urethane Base	84.80	
	09 91	33 00-0058	GAL	Swimming Pool Rubber Base	58.15	
	09 91	33 00-0059	GAL	Interior, Latex Flat Paint, 300 SF Per Gallon	36.95	
	09 91	33 00-0060	GAL	Interior, Latex Eggshell Or Semi-Gloss Enamel, 300 SF Per Gallon	41.39	
	09 91	33 00-0061	GAL	Interior, Fire-Retardant Flat Paint, 200 SF Per Gallon	75.71	
	09 91	33 00-0062	GAL	Interior, Ceiling White Latex Flat, 350 SF Per Gallon	25.64	
	09 91	33 00-0063	GAL	Linseed Oil	22.41	
	09 91	33 00-0064	GAL	Latex Floor Paint, 300 SF Per Gallon	36.75	
	09 91	33 00-0065	GAL	Acrylic Floor Paint, 400 SF Per Gallon	41.39	
	09 91	33 00-0066	GAL	Textured Paint, Sand Texture Latex, Armor Coat, 100 SF Per Gallon	37.86	
	09 91	33 00-0067	GAL	Acoustic Spray-On Texture, Finish	30.42	
	09 91	33 00-0068		Stain, Varnish <small>(09 91 33)</small>		
	09 91	33 00-0069	GAL	Thompson Water Sealer, 150 SF Per Gallon	21.00	
	09 91	33 00-0070	GAL	Latex Redwood Stain, Water Base, 300 SF Per Gallon	39.17	
	09 91	33 00-0071	GAL	Redwood Oil Stain, 300 SF Per Gallon	34.93	
	09 91	33 00-0072	GAL	Varnish, Clear	39.36	
	09 91	33 00-0073	GAL	Penetrating Water-Repellent Stain	28.59	
	09 91	33 00-0074	GAL	Redwood Hue Or Clear Stain	25.55	
	09 91	33 00-0075	GAL	Polyurethane	44.85	
	09 91	33 00-0076	GAL	Lacquer, Semi-Gloss	36.85	
	09 91	33 00-0077	GAL	Shellac, Clear	48.35	
	09 91	33 00-0078	GAL	Acetone	15.95	
	09 91	33 00-0079	GAL	Paint Thinner	3.94	
	09 91	33 00-0080	GAL	Shellac Or Lacquer Thinner	16.15	
	09 91	33 00-0081	GAL	Turpentine	22.21	
	09 91	33 00-0082	GAL	Wood Filler Paste	37.96	
	09 91	33 00-0083	GAL	Wood Preservative, Pentachlorophenol, General Purpose, 40%, 150 SF Per Gallon	30.29	
	09 91	33 00-0084	GAL	Waterbased Alkyd Urethane (Sherwin Williams B53W01153)	95.93	
	09 91	43		Surface Preparation <small>(09 91)</small>		
				See CSI section 09 01 90 52-0000 for preparation on painted or unpainted surfaces.		
	09 96			High-Performance Coatings <small>(09 96)</small>		
	09 96	23		Graffiti-Resistant Coatings <small>(09 96)</small>		
	09 96	23 00-0001		Anti-Graffiti Coating <small>(09 96 23)</small>		
	09 96	23 00-0002	SF	Sacrificial Anti-Graffiti Coating, Per Coat	1.57	
				For Up To 100, Add	0.96	
				For >100 To 250, Add	0.46	
				For >250 To 500, Add	0.20	
	09 96	23 00-0003	SF	Permanent (Non-Sacrificial) Anti-Graffiti Coating, Per Coat	1.66	
				For Up To 100, Add	0.97	
				For >100 To 250, Add	0.47	
				For >250 To 500, Add	0.20	
	09 96	53		Elastomeric Coatings <small>(09 96)</small>		
	09 96	53 00-0001		Elastomeric <small>(09 96 53)</small>		
				Note: Per coat.		

09 Finishes

09 90 Painting and Coating

09 96 High-Performance Coatings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 96 53 00-0002	SF		1 Coat, 5.3 To 8 Wet Mils, Brush Work, Elastomeric Primer Applied To Walls And Floors.....	0.94	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.19	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.42	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.60	
			<i>For >100 To 250, Add</i>	0.29	
			<i>For >250 To 500, Add</i>	0.12	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.09	
			<i>For >10,000 To 20,000, Deduct</i>	-0.14	
			<i>For >20,000, Deduct</i>	-0.19	
09 96 53 00-0003	SF		1 Coat, 5.3 To 8 Wet Mils, Brush/Roller Work, Elastomeric Primer Applied To Walls And Floors	0.81	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.10	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.16	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.26	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.36	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.51	
			<i>For >100 To 250, Add</i>	0.24	
			<i>For >250 To 500, Add</i>	0.11	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.12	
			<i>For >20,000, Deduct</i>	-0.16	
09 96 53 00-0004	SF		1 Coat, 5.3 To 8 Wet Mils, Sprayed, Elastomeric Primer Applied To Walls And Floors	0.66	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.07	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.11	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.18	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.25	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.37	
			<i>For >100 To 250, Add</i>	0.18	
			<i>For >250 To 500, Add</i>	0.08	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.10	
			<i>For >20,000, Deduct</i>	-0.13	
09 96 53 00-0005	SF		1 Coat, 13 To 16 Wet Mils, Brush Work, Elastomeric Paint Applied To Walls And Floors	1.97	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.36	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.50	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.84	
			<i>For >100 To 250, Add</i>	0.42	
			<i>For >250 To 500, Add</i>	0.19	
			<i>For >2,500 To 5,000, Deduct</i>	-0.10	
			<i>For >5,000 To 10,000, Deduct</i>	-0.20	
			<i>For >10,000 To 20,000, Deduct</i>	-0.30	
			<i>For >20,000, Deduct</i>	-0.39	
09 96 53 00-0006	SF		1 Coat, 13 To 16 Wet Mils, Brush/Roller Work, Elastomeric Paint Applied To Walls And Floors.....	1.82	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.11	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.19	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.30	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.42	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.73	
			<i>For >100 To 250, Add</i>	0.37	
			<i>For >250 To 500, Add</i>	0.17	
			<i>For >2,500 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000 To 10,000, Deduct</i>	-0.18	
			<i>For >10,000 To 20,000, Deduct</i>	-0.27	
			<i>For >20,000, Deduct</i>	-0.36	



Finishes	09	09
Painting and Coating	09 90	
High-Performance Coatings	09 96	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 96 53 00-0007 SF 1 Coat, 13 To 16 Wet Mills, Sprayed, Elastomeric Paint Applied To Walls And Floors	1.95	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.13	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.21	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.29	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.60	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000 To 20,000, Deduct	-0.29	
For >20,000, Deduct	-0.39	
09 96 53 00-0008 SF 1 Coat, 5.3 To 8 Wet Mills, Brush Work, Elastomeric Primer Applied To Ceilings And Overhead.....	1.07	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.36	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.50	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.70	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	
09 96 53 00-0009 SF 1 Coat, 5.3 To 8 Wet Mills, Brush/Roller Work, Elastomeric Primer Applied To Ceilings And Overhead	0.92	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.42	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.59	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 96 53 00-0010 SF 1 Coat, 5.3 To 8 Wet Mills, Sprayed, Elastomeric Primer Applied To Ceilings And Overhead.....	0.73	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.13	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.21	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.29	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.42	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 96 53 00-0011 SF 1 Coat, 13 To 16 Wet Mills, Brush Work, Elastomeric Paint Applied To Ceilings And Overhead	2.12	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.58	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.95	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 20,000, Deduct	-0.32	
For >20,000, Deduct	-0.42	

09 Finishes**09 90 Painting and Coating****09 96 High-Performance Coatings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 96 53 00-0012	SF		1 Coat, 13 To 16 Wet Mils, Brush/Roller Work, Elastomeric Paint Applied To Ceilings And Overhead.....	1.95	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.36	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.49	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.83	
			<i>For >100 To 250, Add</i>	0.42	
			<i>For >250 To 500, Add</i>	0.19	
			<i>For >2,500 To 5,000, Deduct</i>	-0.10	
			<i>For >5,000 To 10,000, Deduct</i>	-0.20	
			<i>For >10,000 To 20,000, Deduct</i>	-0.29	
			<i>For >20,000, Deduct</i>	-0.39	
09 96 53 00-0013	SF		1 Coat, 13 To 16 Wet Mils, Sprayed, Elastomeric Paint Applied To Ceilings And Overhead.....	2.04	
			<i>For Work >15' To 20' Above Floor, Add</i>	0.09	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work >20' To 30' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work >30' To 40' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work >40' Above Floor, Add</i>	0.34	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.67	
			<i>For >100 To 250, Add</i>	0.36	
			<i>For >250 To 500, Add</i>	0.16	
			<i>For >2,500 To 5,000, Deduct</i>	-0.10	
			<i>For >5,000 To 10,000, Deduct</i>	-0.20	
			<i>For >10,000 To 20,000, Deduct</i>	-0.31	
			<i>For >20,000, Deduct</i>	-0.41	
09 96 56			Epoxy Coatings <small>(09 96)</small>		
09 96 56 00-0001			High Build Epoxy <small>(09 96 56)</small>		
09 96 56 00-0002	SF		50 Mil, High Build Epoxy	3.40	
09 96 56 00-0003			Laminated Epoxy With Fiberglass <small>(09 96 56)</small>		
09 96 56 00-0004	SF		Laminated Epoxy With Fiberglass.....	6.24	
09 96 66			Aggregate Wall Coatings <small>(09 96)</small>		
09 96 66 00-0001			Troweled On <small>(09 96 66)</small>		
09 96 66 00-0002	SF		Exposed Aggregate - 1/16" To 1/4" - Troweled On	4.67	
09 96 66 00-0003	SF		Exposed Aggregate - 1/2" To 5/8" Troweled On	8.37	
09 96 66 00-0004	SF		Exposed Aggregate - 1" Troweled On.....	12.47	
09 96 66 00-0005			Sprayed On <small>(09 96 66)</small>		
09 96 66 00-0006	SF		Exposed Aggregate - 1/8" - Sprayed On.....	3.80	
09 97			Special Coatings <small>(09 90)</small>		
09 97 13			Steel Coatings <small>(09 97)</small>		
09 97 13 23			Exterior Steel Coatings <small>(09 97 13)</small>		
			<i>Note: Steel Structure Painting Council, SSPC; Surface Preparation, SP.</i>		
09 97 13 23-0001			Surface Preparation For Structural Steel <small>(09 97 13 23)</small>		
			<i>Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.</i>		
09 97 13 23-0002			SSPC SP2 Hand Tool Cleaning Surface Preparation For Structural Steel <small>(09 97 13 23 0001)</small>		
			<i>Note: Hand Tool Cleaning removes all loose mill scale, loose rust and other detrimental foreign matter. It is not intended that adherent mill scale, rust and paint be removed by this process. Mill scale, rust, and paint are considered adherent if they cannot be removed by lifting with a dull putty knife. Before hand tool cleaning, remove visible oil, grease, soluble welding residues and salts by the methods outlined in SSPC-SP1. For complete instructions, refer to Society of Protective Coatings Surface Preparation Specification No. 2 or ISO 8501-1 St 3.</i>		
09 97 13 23-0003	SF		Type 1 Structural Steel SP2 Hand Tool Cleaning Surface Preparation	1.68	
			<i>For Up To 100, Add</i>	1.26	
			<i>For >100 To 250, Add</i>	0.59	
			<i>For >250 To 500, Add</i>	0.25	
09 97 13 23-0004	SF		Type 2 Structural Steel SP2 Hand Tool Cleaning Surface Preparation	1.61	
			<i>For Up To 100, Add</i>	1.21	
			<i>For >100 To 250, Add</i>	0.56	
			<i>For >250 To 500, Add</i>	0.24	



Finishes	09	9
Painting and Coating	09 90	
Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0005 SF Type 3 Structural Steel SP2 Hand Tool Cleaning Surface Preparation	1.61	
For Up To 100, Add	1.21	
For >100 To 250, Add	0.56	
For >250 To 500, Add	0.24	
09 97 13 23-0006 SF Up To 14" Diameter Pipe SP2 Hand Tool Cleaning Surface Preparation	2.18	
For Up To 100, Add	1.64	
For >100 To 250, Add	0.76	
For >250 To 500, Add	0.33	
09 97 13 23-0007 SSPC SP3 Power Tool Cleaning Surface Preparation For Structural Steel⁽⁰⁹		
<small>97 13 23-0001)</small>		
Note: Power Tool Cleaning removes all loose mill scale, loose rust and other detrimental foreign matter. It is not intended that adherent mill scale, rust and paint be removed by this process. Mill scale, rust and paint are considered adherent if they cannot be removed by lifting with a dull putty knife. Before power tool cleaning, remove visible oil, grease, soluble welding residues and salts by the methods outlined in SSPC-SP1. For complete instructions, refer to Society of Protective Coatings Surface Preparation Specification No. 3 or ISO 8501-1 St 3.		
09 97 13 23-0008 SF Type 1 Structural Steel SP3 Power Tool Cleaning Surface Preparation.....	1.70	
For Up To 100, Add	1.28	
For >100 To 250, Add	0.60	
For >250 To 500, Add	0.26	
09 97 13 23-0009 SF Type 2 Structural Steel SP3 Power Tool Cleaning Surface Preparation.....	1.62	
For Up To 100, Add	1.22	
For >100 To 250, Add	0.57	
For >250 To 500, Add	0.24	
09 97 13 23-0010 SF Type 3 Structural Steel SP3 Power Tool Cleaning Surface Preparation.....	1.62	
For Up To 100, Add	1.22	
For >100 To 250, Add	0.57	
For >250 To 500, Add	0.24	
09 97 13 23-0011 SF Up To 14" Diameter Pipe SP3 Power Tool Cleaning Surface Preparation	2.20	
For Up To 100, Add	1.65	
For >100 To 250, Add	0.77	
For >250 To 500, Add	0.33	
09 97 13 23-0012 SF >14" Diameter Pipe SP3 Power Tool Cleaning Surface Preparation	1.99	
For Up To 100, Add	1.49	
For >100 To 250, Add	0.70	
For >250 To 500, Add	0.30	
09 97 13 23-0013 SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Structural		
Steel^(09 97 13 23-0001)		
Note: A Brush-Off Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, loose mill scale, loose rust and loose paint. Tightly adherent mill scale, rust and paint may remain on the surface. Mill scale, rust and coating are considered adherent if they cannot be removed by lifting with a dull putty knife after abrasive blast cleaning has been performed. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP11		
09 97 13 23-0014 SF Type 1 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	1.09	
For Up To 100, Add	0.76	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.15	
09 97 13 23-0015 SF Type 2 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	0.96	
For Up To 100, Add	0.67	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.14	
09 97 13 23-0016 SF Type 3 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	0.95	
For Up To 100, Add	0.66	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
09 97 13 23-0017 SF Up To 14" Diameter Pipe SP7 Brush Off Blast Cleaning Surface Preparation	1.35	
For Up To 100, Add	0.95	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.19	
09 97 13 23-0018 SSPC SP6 Commercial Blast Cleaning Surface Preparation For Structural		
Steel^(09 97 13 23-0001)		
Note: A Commercial Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter, except for staining. Staining shall be limited to no more than 33% of each square inch of surface area and may consist of light shadows, slight streaks or minor discoloration caused by stains of rust, stains of mill scale or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP6/NACE 3 or ISO 8501-1 Sa 2.		
09 97 13 23-0019 SF Type 1 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	2.79	
For Up To 100, Add	1.98	
For >100 To 250, Add	0.93	
For >250 To 500, Add	0.40	
09 97 13 23-0020 SF Type 2 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	2.44	
For Up To 100, Add	1.72	
For >100 To 250, Add	0.81	
For >250 To 500, Add	0.35	

09 Finishes**09 90 Painting and Coating****09 97 Special Coatings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0021 SF Type 3 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	2.26	
For Up To 100, Add	1.59	
For >100 To 250, Add	0.75	
For >250 To 500, Add	0.32	
09 97 13 23-0022 SF Up To 14" Diameter Pipe SP6 Commercial Blast Cleaning Surface Preparation.....	3.51	
For Up To 100, Add	2.52	
For >100 To 250, Add	1.18	
For >250 To 500, Add	0.51	
09 97 13 23-0023 SSPC SP5 White Metal Blast Cleaning Surface Preparation For Structural Steel <small>(09 97 13 23-0001)</small>		
Note: A White Metal Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete Instructions, refer to Joint Surface Preparation Standard SSPC-SP5/NACE 1 or ISO 8501-1 Sa 3.		
09 97 13 23-0024 SF Type 1 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	5.44	
For Up To 100, Add	3.89	
For >100 To 250, Add	1.82	
For >250 To 500, Add	0.78	
09 97 13 23-0025 SF Type 2 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	4.66	
For Up To 100, Add	3.32	
For >100 To 250, Add	1.56	
For >250 To 500, Add	0.67	
09 97 13 23-0026 SF Type 3 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	4.28	
For Up To 100, Add	3.03	
For >100 To 250, Add	1.42	
For >250 To 500, Add	0.61	
09 97 13 23-0027 SF Up To 14" Diameter Pipe SP5 White Metal Blast Cleaning Surface Preparation.....	6.58	
For Up To 100, Add	4.74	
For >100 To 250, Add	2.22	
For >250 To 500, Add	0.96	
09 97 13 23-0028 SSPC SP10 Near White Metal Blast Cleaning Surface Preparation For Structural Steel <small>(09 97 13 23-0001)</small>		
Note: A Near-White Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter, except for staining. Staining shall be limited to no more than 5 percent of each square inch of surface area and may consist of light shadows, slight streaks or minor discoloration caused by stains of rust, stains of mill scale or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP10/NACE 2 or ISO 8501-1 Sa 2.5.		
09 97 13 23-0029 SF Type 1 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation.....	4.05	
For Up To 100, Add	2.88	
For >100 To 250, Add	1.35	
For >250 To 500, Add	0.58	
09 97 13 23-0030 SF Type 2 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation.....	3.45	
For Up To 100, Add	2.45	
For >100 To 250, Add	1.15	
For >250 To 500, Add	0.49	
09 97 13 23-0031 SF Type 3 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation.....	3.27	
For Up To 100, Add	2.31	
For >100 To 250, Add	1.09	
For >250 To 500, Add	0.47	
09 97 13 23-0032 SF Up To 14" Diameter Pipe SP10 Near White Metal Blast Cleaning Surface Preparation.....	4.78	
For Up To 100, Add	3.45	
For >100 To 250, Add	1.62	
For >250 To 500, Add	0.69	
09 97 13 23-0033 Protective Coatings For Tanks And Structural Steel <small>(09 97 13 23)</small>		
Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.		
09 97 13 23-0034 1.5 Mil Prime Coat For Structural Steel <small>(09 97 13 23-0033)</small>		
09 97 13 23-0035 SF Spray Type 1 Structural Steel 1.5 Mil Prime Coat.....	1.11	
For Up To 100, Add	0.72	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
09 97 13 23-0036 SF Spray Type 2 Structural Steel 1.5 Mil Prime Coat.....	0.83	
For Up To 100, Add	0.53	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
09 97 13 23-0037 SF Spray Type 3 Structural Steel 1.5 Mil Prime Coat.....	0.74	
For Up To 100, Add	0.47	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
09 97 13 23-0038 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime Coat.....	1.33	
For Up To 100, Add	0.89	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0039 SF Brush Type 1 Structural Steel 1.5 Mil Prime Coat.....	1.58	
<i>For Up To 100, Add</i>	1.08	
<i>For >100 To 250, Add</i>	0.51	
<i>For >250 To 500, Add</i>	0.22	
09 97 13 23-0040 SF Brush Type 2 Structural Steel 1.5 Mil Prime Coat.....	1.17	
<i>For Up To 100, Add</i>	0.79	
<i>For >100 To 250, Add</i>	0.37	
<i>For >250 To 500, Add</i>	0.16	
09 97 13 23-0041 SF Brush Type 3 Structural Steel 1.5 Mil Prime Coat.....	1.05	
<i>For Up To 100, Add</i>	0.70	
<i>For >100 To 250, Add</i>	0.33	
<i>For >250 To 500, Add</i>	0.14	
09 97 13 23-0042 SF Brush Up To 14" Diameter Pipe 1.5 Mil Prime Coat	1.91	
<i>For Up To 100, Add</i>	1.32	
<i>For >100 To 250, Add</i>	0.62	
<i>For >250 To 500, Add</i>	0.27	
09 97 13 23-0043 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Structural Steel <small>(09 97 13 23-0039)</small>		
09 97 13 23-0044 SF Spray Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.28	
<i>For Up To 100, Add</i>	2.12	
<i>For >100 To 250, Add</i>	1.01	
<i>For >250 To 500, Add</i>	0.44	
09 97 13 23-0045 SF Spray Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.38	
<i>For Up To 100, Add</i>	1.47	
<i>For >100 To 250, Add</i>	0.70	
<i>For >250 To 500, Add</i>	0.31	
09 97 13 23-0046 SF Spray Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.22	
<i>For Up To 100, Add</i>	1.35	
<i>For >100 To 250, Add</i>	0.65	
<i>For >250 To 500, Add</i>	0.28	
09 97 13 23-0047 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.98	
<i>For Up To 100, Add</i>	2.63	
<i>For >100 To 250, Add</i>	1.25	
<i>For >250 To 500, Add</i>	0.54	
09 97 13 23-0048 SF Spray Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.47	
<i>For Up To 100, Add</i>	1.59	
<i>For >100 To 250, Add</i>	0.76	
<i>For >250 To 500, Add</i>	0.33	
09 97 13 23-0049 SF Spray Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.79	
<i>For Up To 100, Add</i>	1.11	
<i>For >100 To 250, Add</i>	0.53	
<i>For >250 To 500, Add</i>	0.23	
09 97 13 23-0050 SF Spray Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.66	
<i>For Up To 100, Add</i>	1.01	
<i>For >100 To 250, Add</i>	0.48	
<i>For >250 To 500, Add</i>	0.21	
09 97 13 23-0051 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.98	
<i>For Up To 100, Add</i>	1.97	
<i>For >100 To 250, Add</i>	0.93	
<i>For >250 To 500, Add</i>	0.40	
09 97 13 23-0052 SF Brush Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	5.04	
<i>For Up To 100, Add</i>	3.44	
<i>For >100 To 250, Add</i>	1.62	
<i>For >250 To 500, Add</i>	0.70	
09 97 13 23-0053 SF Brush Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.59	
<i>For Up To 100, Add</i>	2.38	
<i>For >100 To 250, Add</i>	1.13	
<i>For >250 To 500, Add</i>	0.49	
09 97 13 23-0054 SF Brush Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.31	
<i>For Up To 100, Add</i>	2.17	
<i>For >100 To 250, Add</i>	1.03	
<i>For >250 To 500, Add</i>	0.44	
09 97 13 23-0055 SF Brush Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	6.17	
<i>For Up To 100, Add</i>	4.27	
<i>For >100 To 250, Add</i>	2.01	
<i>For >250 To 500, Add</i>	0.87	
09 97 13 23-0056 SF Brush Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	3.78	
<i>For Up To 100, Add</i>	2.58	
<i>For >100 To 250, Add</i>	1.22	
<i>For >250 To 500, Add</i>	0.52	
09 97 13 23-0057 SF Brush Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.69	
<i>For Up To 100, Add</i>	1.78	
<i>For >100 To 250, Add</i>	0.84	
<i>For >250 To 500, Add</i>	0.36	
09 97 13 23-0058 SF Brush Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.48	
<i>For Up To 100, Add</i>	1.63	
<i>For >100 To 250, Add</i>	0.77	
<i>For >250 To 500, Add</i>	0.33	
09 97 13 23-0059 SF Brush Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	4.62	
<i>For Up To 100, Add</i>	3.20	
<i>For >100 To 250, Add</i>	1.51	
<i>For >250 To 500, Add</i>	0.65	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0060			Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Structural Steel <small>(09 97 13 23-0033)</small>		
	09 97 13 23-0061	SF	Spray Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.54	
			For Up To 100, Add	1.65	
			For >100 To 250, Add	0.78	
			For >250 To 500, Add	0.34	
	09 97 13 23-0062	SF	Spray Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.08	
			For Up To 100, Add	1.33	
			For >100 To 250, Add	0.63	
			For >250 To 500, Add	0.27	
	09 97 13 23-0063	SF	Spray Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.91	
			For Up To 100, Add	1.20	
			For >100 To 250, Add	0.57	
			For >250 To 500, Add	0.25	
	09 97 13 23-0064	SF	Spray Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.14	
			For Up To 100, Add	2.10	
			For >100 To 250, Add	0.99	
			For >250 To 500, Add	0.43	
	09 97 13 23-0065	SF	Spray Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.63	
			For Up To 100, Add	1.06	
			For >100 To 250, Add	0.50	
			For >250 To 500, Add	0.22	
	09 97 13 23-0066	SF	Spray Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.33	
			For Up To 100, Add	0.85	
			For >100 To 250, Add	0.41	
			For >250 To 500, Add	0.18	
	09 97 13 23-0067	SF	Spray Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.21	
			For Up To 100, Add	0.76	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.16	
	09 97 13 23-0068	SF	Spray Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat	2.01	
			For Up To 100, Add	1.35	
			For >100 To 250, Add	0.64	
			For >250 To 500, Add	0.27	
	09 97 13 23-0069	SF	Brush Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.60	
			For Up To 100, Add	2.45	
			For >100 To 250, Add	1.16	
			For >250 To 500, Add	0.50	
	09 97 13 23-0070	SF	Brush Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.92	
			For Up To 100, Add	1.96	
			For >100 To 250, Add	0.93	
			For >250 To 500, Add	0.40	
	09 97 13 23-0071	SF	Brush Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.67	
			For Up To 100, Add	1.77	
			For >100 To 250, Add	0.84	
			For >250 To 500, Add	0.36	
	09 97 13 23-0072	SF	Brush Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats	4.50	
			For Up To 100, Add	3.12	
			For >100 To 250, Add	1.47	
			For >250 To 500, Add	0.63	
	09 97 13 23-0073	SF	Brush Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	2.30	
			For Up To 100, Add	1.56	
			For >100 To 250, Add	0.74	
			For >250 To 500, Add	0.32	
	09 97 13 23-0074	SF	Brush Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.87	
			For Up To 100, Add	1.26	
			For >100 To 250, Add	0.59	
			For >250 To 500, Add	0.26	
	09 97 13 23-0075	SF	Brush Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.71	
			For Up To 100, Add	1.14	
			For >100 To 250, Add	0.54	
			For >250 To 500, Add	0.23	
	09 97 13 23-0076	SF	Brush Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat	2.88	
			For Up To 100, Add	2.00	
			For >100 To 250, Add	0.94	
			For >250 To 500, Add	0.41	
09 97 13 23-0077			2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Structural Steel <small>(09 97 13 23-0033)</small>		
	09 97 13 23-0078	SF	Spray Type 1 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	4.21	
			For Up To 100, Add	2.46	
			For >100 To 250, Add	1.18	
			For >250 To 500, Add	0.52	
	09 97 13 23-0079	SF	Spray Type 2 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.09	
			For Up To 100, Add	1.69	
			For >100 To 250, Add	0.82	
			For >250 To 500, Add	0.36	
	09 97 13 23-0080	SF	Spray Type 3 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.75	
			For Up To 100, Add	1.43	
			For >100 To 250, Add	0.70	
			For >250 To 500, Add	0.31	
	09 97 13 23-0081	SF	Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	4.76	
			For Up To 100, Add	2.85	
			For >100 To 250, Add	1.37	
			For >250 To 500, Add	0.59	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	09 97	13 23-0082	SF	Spray Type 1 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.95	
				For Up To 100, Add	1.73	
				For >100 To 250, Add	0.83	
				For >250 To 500, Add	0.36	
	09 97	13 23-0083	SF	Spray Type 2 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.16	
				For Up To 100, Add	1.18	
				For >100 To 250, Add	0.57	
				For >250 To 500, Add	0.25	
	09 97	13 23-0084	SF	Spray Type 3 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.92	
				For Up To 100, Add	1.00	
				For >100 To 250, Add	0.49	
				For >250 To 500, Add	0.22	
	09 97	13 23-0085	SF	Spray Up To 14" Diameter Pipe Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.33	
				For Up To 100, Add	1.99	
				For >100 To 250, Add	0.96	
				For >250 To 500, Add	0.42	
	09 97	13 23-0086		2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Structural Steel		
				<small>(09 97 13 23-0033)</small>		
	09 97	13 23-0087	SF	Spray Type 1 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	4.53	
				For Up To 100, Add	2.51	
				For >100 To 250, Add	1.22	
				For >250 To 500, Add	0.53	
	09 97	13 23-0088	SF	Spray Type 2 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	3.39	
				For Up To 100, Add	1.73	
				For >100 To 250, Add	0.85	
				For >250 To 500, Add	0.37	
	09 97	13 23-0089	SF	Spray Type 3 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	3.05	
				For Up To 100, Add	1.48	
				For >100 To 250, Add	0.73	
				For >250 To 500, Add	0.32	
	09 97	13 23-0090	SF	Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	5.09	
				For Up To 100, Add	2.90	
				For >100 To 250, Add	1.40	
				For >250 To 500, Add	0.61	
	09 97	13 23-0091	SF	Spray Type 1 Structural Steel Two 6 Mil High Build Epoxy Finish Coats	3.72	
				For Up To 100, Add	2.06	
				For >100 To 250, Add	1.00	
				For >250 To 500, Add	0.44	
	09 97	13 23-0092	SF	Spray Type 2 Structural Steel Two 6 Mil High Build Epoxy Finish Coats	2.77	
				For Up To 100, Add	1.42	
				For >100 To 250, Add	0.69	
				For >250 To 500, Add	0.31	
	09 97	13 23-0093	SF	Spray Type 3 Structural Steel Two 6 Mil High Build Epoxy Finish Coats	2.49	
				For Up To 100, Add	1.21	
				For >100 To 250, Add	0.60	
				For >250 To 500, Add	0.26	
	09 97	13 23-0094	SF	Spray Up To 14" Diameter Pipe Two 6 Mil High Build Epoxy Finish Coats	4.18	
				For Up To 100, Add	2.38	
				For >100 To 250, Add	1.15	
				For >250 To 500, Add	0.50	
	09 97	13 23-0095		1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats For Structural Steel		
				<small>(09 97 13 23-0033)</small>		
	09 97	13 23-0096	SF	Spray Type 1 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	9.46	
				For Up To 100, Add	5.39	
				For >100 To 250, Add	2.60	
				For >250 To 500, Add	1.13	
	09 97	13 23-0097	SF	Spray Type 2 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	7.22	
				For Up To 100, Add	3.89	
				For >100 To 250, Add	1.89	
				For >250 To 500, Add	0.83	
	09 97	13 23-0098	SF	Spray Type 3 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	6.96	
				For Up To 100, Add	3.69	
				For >100 To 250, Add	1.80	
				For >250 To 500, Add	0.79	
	09 97	13 23-0099	SF	Spray Up To 14" Diameter Pipe 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	10.97	
				For Up To 100, Add	6.48	
				For >100 To 250, Add	3.11	
				For >250 To 500, Add	1.35	
	09 97	13 23-0100		1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Structural Steel		
				<small>(09 97 13 23-0033)</small>		
	09 97	13 23-0101	SF	Spray Type 1 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	5.01	
				For Up To 100, Add	2.63	
				For >100 To 250, Add	1.28	
				For >250 To 500, Add	0.56	
	09 97	13 23-0102	SF	Spray Type 2 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	3.99	
				For Up To 100, Add	1.87	
				For >100 To 250, Add	0.93	
				For >250 To 500, Add	0.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0103 SF Spray Type 3 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	3.83	
For Up To 100, Add	1.75	
For >100 To 250, Add	0.87	
For >250 To 500, Add	0.39	
09 97 13 23-0104 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	5.67	
For Up To 100, Add	3.09	
For >100 To 250, Add	1.50	
For >250 To 500, Add	0.66	
09 97 13 23-0105 SF Spray Type 1 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	3.97	
For Up To 100, Add	2.08	
For >100 To 250, Add	1.02	
For >250 To 500, Add	0.45	
09 97 13 23-0106 SF Spray Type 2 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	3.16	
For Up To 100, Add	1.48	
For >100 To 250, Add	0.74	
For >250 To 500, Add	0.33	
09 97 13 23-0107 SF Spray Type 3 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	3.02	
For Up To 100, Add	1.38	
For >100 To 250, Add	0.69	
For >250 To 500, Add	0.31	
09 97 13 23-0108 SF Spray Up To 14" Diameter Pipe Two 4 Mil High Build Vinyl Finish Coats.....	4.49	
For Up To 100, Add	2.44	
For >100 To 250, Add	1.19	
For >250 To 500, Add	0.52	
09 97 13 23-0109 Two 8 Mil Coal Tar Epoxy Coats For Structural Steel (09 97 13 23-0033)		
09 97 13 23-0110 SF Spray Type 1 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	4.20	
For Up To 100, Add	2.51	
For >100 To 250, Add	1.20	
For >250 To 500, Add	0.52	
09 97 13 23-0111 SF Spray Type 2 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	3.43	
For Up To 100, Add	1.99	
For >100 To 250, Add	0.96	
For >250 To 500, Add	0.42	
09 97 13 23-0112 SF Spray Type 3 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	3.17	
For Up To 100, Add	1.80	
For >100 To 250, Add	0.87	
For >250 To 500, Add	0.38	
09 97 13 23-0113 SF Spray Up To 14" Diameter Pipe Two 8 Mil Coal Tar Epoxy Coats.....	5.17	
For Up To 100, Add	3.22	
For >100 To 250, Add	1.53	
For >250 To 500, Add	0.67	
09 97 13 23-0114 One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Structural Steel (09 97 13 23-0033)		
09 97 13 23-0115 SF Spray Type 1 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	4.03	
For Up To 100, Add	2.54	
For >100 To 250, Add	1.21	
For >250 To 500, Add	0.52	
09 97 13 23-0116 SF Spray Type 2 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.88	
For Up To 100, Add	1.70	
For >100 To 250, Add	0.82	
For >250 To 500, Add	0.36	
09 97 13 23-0117 SF Spray Type 3 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.46	
For Up To 100, Add	1.39	
For >100 To 250, Add	0.67	
For >250 To 500, Add	0.29	
09 97 13 23-0118 SF Spray Up To 14" Diameter Pipe One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	4.60	
For Up To 100, Add	2.93	
For >100 To 250, Add	1.39	
For >250 To 500, Add	0.60	
09 97 13 23-0119 One 3 Mil High Zinc Silicate Coat For Structural Steel (09 97 13 23-0033)		
09 97 13 23-0120 SF Spray Type 1 Structural Steel One 3 Mil High Zinc Silicate Coat.....	2.20	
For Up To 100, Add	1.15	
For >100 To 250, Add	0.56	
For >250 To 500, Add	0.25	
09 97 13 23-0121 SF Spray Type 2 Structural Steel One 3 Mil High Zinc Silicate Coat.....	1.62	
For Up To 100, Add	0.75	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.17	
09 97 13 23-0122 SF Spray Type 3 Structural Steel One 3 Mil High Zinc Silicate Coat.....	1.54	
For Up To 100, Add	0.69	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0123 SF Spray Up To 14" Diameter Pipe One 3 Mil High Zinc Silicate Coat	2.31	
For Up To 100, Add	1.21	
For >100 To 250, Add	0.59	
For >250 To 500, Add	0.26	
09 97 13 23-0124 Two 1.5 Mil Vinyl Enamel Finish Coats For Structural Steel (09 97 13 23-0033)		
Note: Installed over existing primer.		
09 97 13 23-0125 SF Spray Type 1 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	3.36	
For Up To 100, Add	1.93	
For >100 To 250, Add	0.93	
For >250 To 500, Add	0.41	
09 97 13 23-0126 SF Spray Type 2 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	2.75	
For Up To 100, Add	1.53	
For >100 To 250, Add	0.74	
For >250 To 500, Add	0.32	
09 97 13 23-0127 SF Spray Type 3 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	2.42	
For Up To 100, Add	1.28	
For >100 To 250, Add	0.62	
For >250 To 500, Add	0.27	
09 97 13 23-0128 SF Spray Up To 14" Diameter Pipe Two 1.5 Mil Vinyl Enamel Finish Coats	3.90	
For Up To 100, Add	2.32	
For >100 To 250, Add	1.11	
For >250 To 500, Add	0.48	
09 97 13 24 Steel Water Storage Tank Painting (09 97 13)		
09 97 13 24-0001 Surface Preparation For Tanks (09 97 13 24)		
Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
09 97 13 24-0002 SSPC SP2 Or 3 Hand Or Power Tool Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0003 SF Small Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation	1.61	
For Up To 100, Add	1.21	
For >100 To 250, Add	0.56	
For >250 To 500, Add	0.24	
09 97 13 24-0004 SF Large Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation	1.43	
For Up To 100, Add	1.07	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.21	
09 97 13 24-0005 SF Vessel/Tank Interior SP2/3 Hand Or Power Tool Cleaning Surface Preparation	2.02	
For Up To 100, Add	1.52	
For >100 To 250, Add	0.71	
For >250 To 500, Add	0.30	
09 97 13 24-0006 SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0007 SF Small Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation	0.92	
For Up To 100, Add	0.64	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
09 97 13 24-0008 SF Large Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation	0.74	
For Up To 100, Add	0.52	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.11	
09 97 13 24-0009 SF Vessel/Tank Interior SP7 Brush Off Blast Cleaning Surface Preparation	1.29	
For Up To 100, Add	0.93	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
09 97 13 24-0010 SSPC SP6 Commercial Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0011 SF Small Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation	2.25	
For Up To 100, Add	1.59	
For >100 To 250, Add	0.75	
For >250 To 500, Add	0.32	
09 97 13 24-0012 SF Large Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation	2.06	
For Up To 100, Add	1.44	
For >100 To 250, Add	0.68	
For >250 To 500, Add	0.29	
09 97 13 24-0013 SF Vessel/Tank Interior SP6 Commercial Blast Cleaning Surface Preparation	3.02	
For Up To 100, Add	2.16	
For >100 To 250, Add	1.01	
For >250 To 500, Add	0.44	
09 97 13 24-0014 SSPC SP5 White Metal Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0015 SF Small Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation	4.08	
For Up To 100, Add	2.89	
For >100 To 250, Add	1.36	
For >250 To 500, Add	0.58	

09 Finishes

09 90 Painting and Coating

09 97 Special Coatings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0016	SF		Large Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation.....	3.89	
			For Up To 100, Add	2.74	
			For >100 To 250, Add	1.29	
			For >250 To 500, Add	0.55	
09 97 13 24-0017	SF		Vessel/Tank Interior SP5 White Metal Blast Cleaning Surface Preparation.....	5.69	
			For Up To 100, Add	4.09	
			For >100 To 250, Add	1.92	
			For >250 To 500, Add	0.82	
09 97 13 24-0018			SSPC SP10 Near White Metal Blast Cleaning Surface Preparation For Tanks <small>(09 97 13 24-0001)</small>		
09 97 13 24-0019	SF		Small Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation.....	3.26	
			For Up To 100, Add	2.31	
			For >100 To 250, Add	1.09	
			For >250 To 500, Add	0.47	
09 97 13 24-0020	SF		Large Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation.....	3.26	
			For Up To 100, Add	2.31	
			For >100 To 250, Add	1.09	
			For >250 To 500, Add	0.47	
09 97 13 24-0021	SF		Vessel/Tank Interior SP10 Near White Metal Blast Cleaning Surface Preparation.....	4.77	
			For Up To 100, Add	3.45	
			For >100 To 250, Add	1.61	
			For >250 To 500, Add	0.69	
09 97 13 24-0022			Protective Coatings For Tanks <small>(09 97 13 24)</small>		
			Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
09 97 13 24-0023			1.5 Mil Prime Coat For Tanks <small>(09 97 13 24-0022)</small>		
09 97 13 24-0024	SF		Spray Small Vessel/Tank 1.5 Mil Prime Coat	0.66	
			For Up To 100, Add	0.41	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
09 97 13 24-0025	SF		Spray Large Vessel/Tank 1.5 Mil Prime Coat	0.54	
			For Up To 100, Add	0.32	
			For >100 To 250, Add	0.15	
			For >250 To 500, Add	0.07	
09 97 13 24-0026	SF		Spray Tank Interior 1.5 Mil Prime Coat	1.26	
			For Up To 100, Add	0.86	
			For >100 To 250, Add	0.40	
			For >250 To 500, Add	0.17	
09 97 13 24-0027	SF		Brush Small Vessel/Tank 1.5 Mil Prime Coat	0.91	
			For Up To 100, Add	0.59	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
09 97 13 24-0028	SF		Brush Large Vessel/Tank 1.5 Mil Prime Coat	0.73	
			For Up To 100, Add	0.46	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.09	
09 97 13 24-0029	SF		Brush Tank Interior 1.5 Mil Prime Coat	1.80	
			For Up To 100, Add	1.26	
			For >100 To 250, Add	0.59	
			For >250 To 500, Add	0.26	
09 97 13 24-0030			1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Tanks <small>(09 97 13 24-0022)</small>		
09 97 13 24-0031	SF		Spray Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	1.94	
			For Up To 100, Add	1.16	
			For >100 To 250, Add	0.55	
			For >250 To 500, Add	0.24	
09 97 13 24-0032	SF		Spray Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	1.51	
			For Up To 100, Add	0.83	
			For >100 To 250, Add	0.40	
			For >250 To 500, Add	0.18	
09 97 13 24-0033	SF		Spray Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	3.55	
			For Up To 100, Add	2.36	
			For >100 To 250, Add	1.12	
			For >250 To 500, Add	0.48	
09 97 13 24-0034	SF		Spray Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.47	
			For Up To 100, Add	0.87	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.18	
09 97 13 24-0035	SF		Spray Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.15	
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.13	
09 97 13 24-0036	SF		Spray Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.67	
			For Up To 100, Add	1.77	
			For >100 To 250, Add	0.84	
			For >250 To 500, Add	0.36	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97	13 24	0037	SF	Brush Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.87	
				<i>For Up To 100, Add</i>	1.85	
				<i>For >100 To 250, Add</i>	0.88	
				<i>For >250 To 500, Add</i>	0.38	
09 97	13 24	0038	SF	Brush Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.17	
				<i>For Up To 100, Add</i>	1.33	
				<i>For >100 To 250, Add</i>	0.63	
				<i>For >250 To 500, Add</i>	0.28	
09 97	13 24	0039	SF	Brush Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	5.52	
				<i>For Up To 100, Add</i>	3.84	
				<i>For >100 To 250, Add</i>	1.81	
				<i>For >250 To 500, Add</i>	0.78	
09 97	13 24	0040	SF	Brush Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.16	
				<i>For Up To 100, Add</i>	1.39	
				<i>For >100 To 250, Add</i>	0.66	
				<i>For >250 To 500, Add</i>	0.29	
09 97	13 24	0041	SF	Brush Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.64	
				<i>For Up To 100, Add</i>	1.00	
				<i>For >100 To 250, Add</i>	0.48	
				<i>For >250 To 500, Add</i>	0.21	
09 97	13 24	0042	SF	Brush Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	4.14	
				<i>For Up To 100, Add</i>	2.88	
				<i>For >100 To 250, Add</i>	1.35	
				<i>For >250 To 500, Add</i>	0.58	
09 97 13 24-0043 Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Tanks (09 97 13 24-0022)						
09 97	13 24	0044	SF	Spray Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	1.73	
				<i>For Up To 100, Add</i>	1.08	
				<i>For >100 To 250, Add</i>	0.51	
				<i>For >250 To 500, Add</i>	0.22	
09 97	13 24	0045	SF	Spray Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	1.48	
				<i>For Up To 100, Add</i>	0.89	
				<i>For >100 To 250, Add</i>	0.43	
				<i>For >250 To 500, Add</i>	0.19	
09 97	13 24	0046	SF	Spray Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.68	
				<i>For Up To 100, Add</i>	2.54	
				<i>For >100 To 250, Add</i>	1.20	
				<i>For >250 To 500, Add</i>	0.52	
09 97	13 24	0047	SF	Spray Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.10	
				<i>For Up To 100, Add</i>	0.69	
				<i>For >100 To 250, Add</i>	0.33	
				<i>For >250 To 500, Add</i>	0.14	
09 97	13 24	0048	SF	Spray Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	0.93	
				<i>For Up To 100, Add</i>	0.56	
				<i>For >100 To 250, Add</i>	0.27	
				<i>For >250 To 500, Add</i>	0.12	
09 97	13 24	0049	SF	Spray Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats	2.35	
				<i>For Up To 100, Add</i>	1.62	
				<i>For >100 To 250, Add</i>	0.77	
				<i>For >250 To 500, Add</i>	0.33	
09 97	13 24	0050	SF	Brush Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	2.40	
				<i>For Up To 100, Add</i>	1.58	
				<i>For >100 To 250, Add</i>	0.75	
				<i>For >250 To 500, Add</i>	0.32	
09 97	13 24	0051	SF	Brush Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	2.02	
				<i>For Up To 100, Add</i>	1.29	
				<i>For >100 To 250, Add</i>	0.61	
				<i>For >250 To 500, Add</i>	0.27	
09 97	13 24	0052	SF	Brush Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats	5.67	
				<i>For Up To 100, Add</i>	4.11	
				<i>For >100 To 250, Add</i>	1.93	
				<i>For >250 To 500, Add</i>	0.83	
09 97	13 24	0053	SF	Brush Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.54	
				<i>For Up To 100, Add</i>	1.02	
				<i>For >100 To 250, Add</i>	0.48	
				<i>For >250 To 500, Add</i>	0.21	
09 97	13 24	0054	SF	Brush Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.29	
				<i>For Up To 100, Add</i>	0.83	
				<i>For >100 To 250, Add</i>	0.39	
				<i>For >250 To 500, Add</i>	0.17	
09 97	13 24	0055	SF	Brush Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats	3.71	
				<i>For Up To 100, Add</i>	2.64	
				<i>For >100 To 250, Add</i>	1.24	
				<i>For >250 To 500, Add</i>	0.53	
09 97 13 24-0056 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Tanks (09 97 13 24-0022)						
09 97	13 24	0057	SF	Spray Small Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	2.55	
				<i>For Up To 100, Add</i>	1.30	
				<i>For >100 To 250, Add</i>	0.64	
				<i>For >250 To 500, Add</i>	0.28	

09	Finishes
09 90	Painting and Coating
09 97	Special Coatings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0058 SF Spray Large Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	2.21	
For Up To 100, Add	1.05	
For >100 To 250, Add	0.52	
For >250 To 500, Add	0.23	
09 97 13 24-0059 SF Spray Small Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.78	
For Up To 100, Add	0.91	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.20	
09 97 13 24-0060 SF Spray Large Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.54	
For Up To 100, Add	0.73	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
09 97 13 24-0061 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0062 SF Spray Small Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	2.84	
For Up To 100, Add	1.34	
For >100 To 250, Add	0.67	
For >250 To 500, Add	0.30	
09 97 13 24-0063 SF Spray Large Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	2.50	
For Up To 100, Add	1.09	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.24	
09 97 13 24-0064 SF Spray Small Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats.....	2.32	
For Up To 100, Add	1.10	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.24	
09 97 13 24-0065 SF Spray Large Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats	2.04	
For Up To 100, Add	0.89	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.20	
09 97 13 24-0066 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0067 SF Spray Small Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	6.72	
For Up To 100, Add	3.55	
For >100 To 250, Add	1.73	
For >250 To 500, Add	0.76	
09 97 13 24-0068 SF Spray Large Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	6.21	
For Up To 100, Add	3.17	
For >100 To 250, Add	1.55	
For >250 To 500, Add	0.68	
09 97 13 24-0069 SF Spray Tank Interior 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	10.11	
For Up To 100, Add	6.09	
For >100 To 250, Add	2.92	
For >250 To 500, Add	1.27	
09 97 13 24-0070 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0071 SF Spray Small Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	3.56	
For Up To 100, Add	1.67	
For >100 To 250, Add	0.83	
For >250 To 500, Add	0.37	
09 97 13 24-0072 SF Spray Large Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	3.19	
For Up To 100, Add	1.40	
For >100 To 250, Add	0.70	
For >250 To 500, Add	0.31	
09 97 13 24-0073 SF Spray Tank Interior 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	5.22	
For Up To 100, Add	2.92	
For >100 To 250, Add	1.41	
For >250 To 500, Add	0.62	
09 97 13 24-0074 SF Spray Small Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats.....	2.81	
For Up To 100, Add	1.32	
For >100 To 250, Add	0.66	
For >250 To 500, Add	0.29	
09 97 13 24-0075 SF Spray Large Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats.....	2.52	
For Up To 100, Add	1.10	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.25	
09 97 13 24-0076 SF Spray Tank Interior Two 4 Mil High Build Vinyl Finish Coats	4.12	
For Up To 100, Add	2.30	
For >100 To 250, Add	1.11	
For >250 To 500, Add	0.49	
09 97 13 24-0077 Two 8 Mil Coal Tar Epoxy Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0078 SF Spray Small Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats.....	3.14	
For Up To 100, Add	1.79	
For >100 To 250, Add	0.86	
For >250 To 500, Add	0.38	



Finishes	09	09
Painting and Coating	09 90	
Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0079 SF Spray Large Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats	2.64	
For Up To 100, Add	1.42	
For >100 To 250, Add	0.69	
For >250 To 500, Add	0.30	
09 97 13 24-0080 SF Spray Tank Interior Two 8 Mil Coal Tar Epoxy Coats	3.99	
For Up To 100, Add	2.43	
For >100 To 250, Add	1.16	
For >250 To 500, Add	0.50	
09 97 13 24-0081 One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0082 SF Spray Small Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.18	
For Up To 100, Add	1.19	
For >100 To 250, Add	0.58	
For >250 To 500, Add	0.25	
09 97 13 24-0083 SF Spray Large Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.01	
For Up To 100, Add	1.06	
For >100 To 250, Add	0.52	
For >250 To 500, Add	0.23	
09 97 13 24-0084 SF Spray Tank Interior One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	3.28	
For Up To 100, Add	2.02	
For >100 To 250, Add	0.96	
For >250 To 500, Add	0.42	
09 97 13 24-0085 Two 6 Mil High Build Epoxy Finish Coats For Tanks Interior (09 97 13 24-0022)		
09 97 13 24-0086 SF Spray Small Tank Interior Two 6 Mil High Build Epoxy Finish Coats	4.78	
For Up To 100, Add	2.75	
For >100 To 250, Add	1.33	
For >250 To 500, Add	0.58	
09 97 13 24-0087 SF Spray Large Tank Interior Two 6 Mil High Build Epoxy Finish Coats.....	2.96	
For Up To 100, Add	1.46	
For >100 To 250, Add	0.72	
For >250 To 500, Add	0.32	
09 97 13 24-0088 One 3 Mil High Zinc Silicate Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0089 SF Spray Small Vessel/Tank One 3 Mil High Zinc Silicate Coat	1.43	
For Up To 100, Add	0.62	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.14	
09 97 13 24-0090 SF Spray Large Vessel/Tank One 3 Mil High Zinc Silicate Coat	1.39	
For Up To 100, Add	0.59	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
09 97 13 24-0091 SF Spray Tank Interior One 3 Mil High Zinc Silicate Coat.....	2.19	
For Up To 100, Add	1.19	
For >100 To 250, Add	0.58	
For >250 To 500, Add	0.25	
09 97 13 24-0092 Two 1.5 Mil Vinyl Enamel Finish Coats For Tanks (09 97 13 24-0022)		
Note: Installed over existing primer.		
09 97 13 24-0093 SF Spray Small Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.30	
For Up To 100, Add	1.21	
For >100 To 250, Add	0.59	
For >250 To 500, Add	0.26	
09 97 13 24-0094 SF Spray Large Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.05	
For Up To 100, Add	1.02	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.22	
09 97 13 24-0095 SF Spray Tank Interior Two 1.5 Mil Vinyl Enamel Finish Coats	3.15	
For Up To 100, Add	1.85	
For >100 To 250, Add	0.89	
For >250 To 500, Add	0.39	
09 97 13 24-0096 One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0097 SF Spray/Mop Large Vessel/Tank One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat.....	8.22	
For Up To 100, Add	5.10	
For >100 To 250, Add	2.43	
For >250 To 500, Add	1.06	
09 97 26 Cementitious Coatings (09 97)		
09 97 26 13 Interior Cementitious Coatings (09 97 26)		
09 97 26 13-0001 Ceramic-Like Glazed Coating (09 97 26 13)		
09 97 26 13-0002 Ceramic-Like Glazed Coating, Cementitious (09 97 26 13-0001)		

09	09	Finishes
	09 90	Painting and Coating
	09 97	Special Coatings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 26 13-0003 SF Ceramic-like Glazed Coating. - Cementitious	2.89	
09 97 26 13-0004 Ceramic-Like Glazed Coating, Resin Base <small>(09 97 26 13-0001)</small>		
09 97 26 13-0005 SF Ceramic-like Glazed Coating - Resin	2.44	
09 97 63 Special Coatings and Protection Systems <small>(09 97)</small>		
09 97 63 00-0001 Acrylic Glazed Coating <small>(09 97 63)</small>		
09 97 63 00-0002 SF Acrylic Glazed Coating.....	1.89	

END OF SECTION 09



Specialties	10	10
Information Specialties	10 10	
Signage	10 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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10 Specialties

10 10 Information Specialties ⁽¹⁰⁾

10 14 Signage ^(10 10)

Note: Where required, signage excludes electrical connection, disconnect, or terminations unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection wiring, 26 05 83 00-0130 for terminations.

10 14 53 Traffic Signage ^(10 14)

10 14 53 11 Traffic Signage ^(10 14 53)

10 14 53 11-0001 Traffic Signs (Monterey County) ^(10 14 53 11)

10 14 53 11-0002	EA	Roadside Sign-One Post (Monterey County).....	339.48		24.39
10 14 53 11-0003	EA	Install Roadside Sign Panel On Existing Post (Monterey County).....	178.06		

10 14 53 11-0004 Traffic Signs ^(10 14 53 11)

10 14 53 11-0005 Reflectorized Stop Signs And Other Traffic Signs ^(10 14 53 11-0004)

Note: Excludes posts.

10 14 53 11-0006 Aluminum Engineer Grade Stop Signs ^(10 14 53 11-0005)

10 14 53 11-0007	EA	18" x 18" Aluminum Engineer Grade Stop Sign.....	59.84		17.85
		For Hi-Intensity Grade, Add	7.24		
		For Diamond Grade, Add	13.76		
10 14 53 11-0008	EA	18" x 24" Aluminum Engineer Grade Stop Sign.....	69.26		18.88
		For Hi-Intensity Grade, Add	9.47		
		For Diamond Grade, Add	17.99		
10 14 53 11-0009	EA	24" x 24" Aluminum Engineer Grade Stop Sign.....	74.97		19.84
		For Hi-Intensity Grade, Add	14.47		
		For Diamond Grade, Add	22.94		
10 14 53 11-0010	EA	30" x 30" Aluminum Engineer Grade Stop Sign.....	86.85		20.87
		For Hi-Intensity Grade, Add	5.42		
		For Diamond Grade, Add	29.37		
10 14 53 11-0011	EA	36" x 36" Aluminum Engineer Grade Stop Sign.....	116.07		21.82
		For Hi-Intensity Grade, Add	15.93		
		For Diamond Grade, Add	49.98		

10 14 53 11-0012 Other Reflectorized Traffic Signs ^(10 14 53 11-0005)

Note: Other traffic signs includes reserve, handicap, visitor, no parking, property, speed limit, tow away, ADA, parking time limit, parking exclusive area, school, traffic/caution, etc. Excludes posts.

10 14 53 11-0013 Aluminum Engineer Grade Traffic Signs ^(10 14 53 11-0012)

10 14 53 11-0014	EA	6" x 12" Aluminum Engineer Grade Traffic Sign.....	37.72		15.87
		For Hi-Intensity Grade, Add	1.79		
10 14 53 11-0015	EA	6" x 18" Aluminum Engineer Grade Traffic Sign.....	40.71		15.87
		For Hi-Intensity Grade, Add	2.69		
10 14 53 11-0016	EA	9" x 12" Aluminum Engineer Grade Traffic Sign.....	40.71		15.87
		For Hi-Intensity Grade, Add	2.69		
10 14 53 11-0017	EA	9" x 15" Aluminum Engineer Grade Traffic Sign.....	42.95		15.87
		For Hi-Intensity Grade, Add	3.36		
10 14 53 11-0018	EA	9" x 18" Aluminum Engineer Grade Traffic Sign.....	45.20		15.87
		For Hi-Intensity Grade, Add	4.04		
10 14 53 11-0019	EA	9" x 24" Aluminum Engineer Grade Traffic Sign.....	51.66		16.86
		For Hi-Intensity Grade, Add	5.38		
10 14 53 11-0020	EA	9" x 48" Aluminum Engineer Grade Traffic Sign.....	69.61		16.86
		For Hi-Intensity Grade, Add	10.77		
10 14 53 11-0021	EA	12" x 12" Aluminum Engineer Grade Traffic Sign.....	43.70		15.87
		For Hi-Intensity Grade, Add	3.59		
10 14 53 11-0022	EA	12" x 18" Aluminum Engineer Grade Traffic Sign.....	51.66		16.86
		For Hi-Intensity Grade, Add	5.38		
10 14 53 11-0023	EA	12" x 24" Aluminum Engineer Grade Traffic Sign.....	57.64		16.86
		For Hi-Intensity Grade, Add	7.18		
10 14 53 11-0024	EA	12" x 30" Aluminum Engineer Grade Traffic Sign.....	63.62		16.86
		For Hi-Intensity Grade, Add	8.97		
10 14 53 11-0025	EA	12" x 36" Aluminum Engineer Grade Traffic Sign.....	69.61		16.86
		For Hi-Intensity Grade, Add	10.77		
10 14 53 11-0026	EA	18" x 18" Aluminum Engineer Grade Traffic Sign.....	60.63		16.86
		For Hi-Intensity Grade, Add	8.07		
10 14 53 11-0027	EA	18" x 24" Aluminum Engineer Grade Traffic Sign.....	69.61		16.86
		For Hi-Intensity Grade, Add	10.77		
10 14 53 11-0028	EA	18" x 30" Aluminum Engineer Grade Traffic Sign.....	80.56		17.85
		For Hi-Intensity Grade, Add	13.46		
10 14 53 11-0029	EA	18" x 36" Aluminum Engineer Grade Traffic Sign.....	89.53		17.85
		For Hi-Intensity Grade, Add	16.15		
10 14 53 11-0030	EA	18" x 48" Aluminum Engineer Grade Traffic Sign.....	115.41		21.82
		For Hi-Intensity Grade, Add	21.53		
10 14 53 11-0031	EA	18" x 54" Aluminum Engineer Grade Traffic Sign.....	124.38		21.82
		For Hi-Intensity Grade, Add	24.22		

10 Specialties
10 10 Information Specialties
10 14 Signage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0032	EA		24" x 24" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	83.55 14.36	17.85
10 14 53 11-0033	EA		24" x 30" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	95.51 17.94	17.85
10 14 53 11-0034	EA		24" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	107.47 21.53	17.85
10 14 53 11-0035	EA		24" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	127.37 25.12	21.82
10 14 53 11-0036	EA		24" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	139.34 28.71	21.82
10 14 53 11-0037	EA		24" x 54" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	151.30 32.30	21.82
10 14 53 11-0038	EA		24" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	163.26 35.89	21.82
10 14 53 11-0039	EA		30" x 30" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	110.46 22.43	17.85
10 14 53 11-0040	EA		30" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	133.35 26.91	21.82
10 14 53 11-0041	EA		30" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	148.31 31.40	21.82
10 14 53 11-0042	EA		30" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	171.19 35.89	25.79
10 14 53 11-0043	EA		30" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	209.03 44.86	29.76
10 14 53 11-0044	EA		36" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	151.30 32.30	21.82
10 14 53 11-0045	EA		36" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	177.17 37.68	25.79
10 14 53 11-0046	EA		36" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	203.05 43.06	29.76
10 14 53 11-0047	EA		36" x 54" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	221.00 48.45	29.76
10 14 53 11-0048	EA		36" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	246.88 53.83	33.72
10 14 53 11-0049	EA		36" x 73" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	293.69 65.49	37.69
10 14 53 11-0050	EA		36" x 78" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	308.64 69.98	37.69
10 14 53 11-0051	EA		36" x 108" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	410.26 96.89	43.64
10 14 53 11-0052	EA		42" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	206.04 43.96	29.76
10 14 53 11-0053	EA		48" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	258.84 57.42	33.72
10 14 53 11-0054	EA		48" x 54" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	290.70 64.60	37.69
10 14 53 11-0055	EA		48" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	314.62 71.77	37.69
10 14 53 11-0056	EA		48" x 66" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	350.45 78.95	43.64
10 14 53 11-0057	EA		48" x 72" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	374.38 86.13	43.64
10 14 53 11-0058	EA		48" x 84" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	430.16 100.48	47.61
10 14 53 11-0059	EA		48" x 96" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	478.00 114.83	47.61
10 14 53 11-0060	EA		48" x 102" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	501.93 122.01	47.61
10 14 53 11-0061	EA		48" x 108" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	529.81 129.19	49.60
10 14 53 11-0062	EA		60" x 72" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	454.08 107.66	47.61
10 14 53 11-0063	EA		72" x 144" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	988.21 258.38	63.48
10 14 53 11-0064	EA		78" x 96" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	721.20 186.61	49.60
10 14 53 11-0065			Non-Reflectorized Traffic Signs <small>(10 14 53 11-0004)</small> Note: Includes reserved parking, handicap parking, visitor parking, no parking, tow away zones, etc. Excludes posts.		
10 14 53 11-0066			Steel Non-Reflectorized Traffic Signs <small>(10 14 53 11-0065)</small>		
10 14 53 11-0067	EA		6" x 12" Steel Non Reflectorized Traffic Sign	36.91	15.87
10 14 53 11-0068	EA		6" x 18" Steel Non Reflectorized Traffic Sign	39.50	15.87
10 14 53 11-0069	EA		9" x 12" Steel Non Reflectorized Traffic Sign	39.50	15.87
10 14 53 11-0070	EA		9" x 15" Steel Non Reflectorized Traffic Sign	41.43	15.87
10 14 53 11-0071	EA		9" x 18" Steel Non Reflectorized Traffic Sign	43.37	15.87
10 14 53 11-0072	EA		9" x 24" Steel Non Reflectorized Traffic Sign	49.23	16.86
10 14 53 11-0073	EA		9" x 48" Steel Non Reflectorized Traffic Sign	64.74	16.86
10 14 53 11-0074	EA		12" x 12" Steel Non Reflectorized Traffic Sign	42.08	15.87
10 14 53 11-0075	EA		12" x 18" Steel Non Reflectorized Traffic Sign	49.23	16.86
10 14 53 11-0076	EA		12" x 24" Steel Non Reflectorized Traffic Sign	54.40	16.86
10 14 53 11-0077	EA		12" x 30" Steel Non Reflectorized Traffic Sign	59.57	16.86



	Specialties	10
	Information Specialties	10 10
	Signage	10 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0078 EA 12" x 36" Steel Non ReflectORIZED Traffic Sign.....	64.74	16.86
10 14 53 11-0079 EA 18" x 18" Steel Non ReflectORIZED Traffic Sign.....	56.99	16.86
10 14 53 11-0080 EA 18" x 24" Steel Non ReflectORIZED Traffic Sign.....	64.74	16.86
10 14 53 11-0081 EA 18" x 30" Steel Non ReflectORIZED Traffic Sign.....	74.48	17.85
10 14 53 11-0082 EA 18" x 36" Steel Non ReflectORIZED Traffic Sign.....	82.24	17.85
10 14 53 11-0083 EA 18" x 48" Steel Non ReflectORIZED Traffic Sign.....	105.69	21.82
10 14 53 11-0084 EA 18" x 54" Steel Non ReflectORIZED Traffic Sign.....	113.44	21.82
10 14 53 11-0085 EA 24" x 24" Steel Non ReflectORIZED Traffic Sign.....	77.06	17.85
10 14 53 11-0086 EA 24" x 30" Steel Non ReflectORIZED Traffic Sign.....	87.41	17.85
10 14 53 11-0087 EA 24" x 36" Steel Non ReflectORIZED Traffic Sign.....	97.75	17.85
10 14 53 11-0088 EA 24" x 42" Steel Non ReflectORIZED Traffic Sign.....	116.03	21.82
10 14 53 11-0089 EA 24" x 48" Steel Non ReflectORIZED Traffic Sign.....	126.37	21.82
10 14 53 11-0090 EA 24" x 54" Steel Non ReflectORIZED Traffic Sign.....	136.71	21.82
10 14 53 11-0091 EA 24" x 60" Steel Non ReflectORIZED Traffic Sign.....	147.05	21.82
10 14 53 11-0092 EA 30" x 30" Steel Non ReflectORIZED Traffic Sign.....	100.33	17.85
10 14 53 11-0093 EA 30" x 36" Steel Non ReflectORIZED Traffic Sign.....	121.20	21.82
10 14 53 11-0094 EA 30" x 42" Steel Non ReflectORIZED Traffic Sign.....	134.12	21.82
10 14 53 11-0095 EA 30" x 48" Steel Non ReflectORIZED Traffic Sign.....	154.98	25.79
10 14 53 11-0096 EA 30" x 60" Steel Non ReflectORIZED Traffic Sign.....	188.77	29.76
10 14 53 11-0097 EA 36" x 36" Steel Non ReflectORIZED Traffic Sign.....	136.71	21.82
10 14 53 11-0098 EA 36" x 42" Steel Non ReflectORIZED Traffic Sign.....	160.15	25.79
10 14 53 11-0099 EA 36" x 48" Steel Non ReflectORIZED Traffic Sign.....	183.60	29.76
10 14 53 11-0100 EA 36" x 54" Steel Non ReflectORIZED Traffic Sign.....	199.11	29.76
10 14 53 11-0101 EA 36" x 60" Steel Non ReflectORIZED Traffic Sign.....	222.57	33.72
10 14 53 11-0102 EA 36" x 73" Steel Non ReflectORIZED Traffic Sign.....	264.11	37.69
10 14 53 11-0103 EA 36" x 78" Steel Non ReflectORIZED Traffic Sign.....	277.03	37.69
10 14 53 11-0104 EA 36" x 108" Steel Non ReflectORIZED Traffic Sign.....	366.50	43.64
10 14 53 11-0105 EA 42" x 42" Steel Non ReflectORIZED Traffic Sign.....	186.19	29.76
10 14 53 11-0106 EA 48" x 48" Steel Non ReflectORIZED Traffic Sign.....	232.91	33.72
10 14 53 11-0107 EA 48" x 54" Steel Non ReflectORIZED Traffic Sign.....	261.52	37.69
10 14 53 11-0108 EA 48" x 60" Steel Non ReflectORIZED Traffic Sign.....	282.20	37.69
10 14 53 11-0109 EA 48" x 66" Steel Non ReflectORIZED Traffic Sign.....	314.79	43.64
10 14 53 11-0110 EA 48" x 72" Steel Non ReflectORIZED Traffic Sign.....	335.48	43.64
10 14 53 11-0111 EA 48" x 84" Steel Non ReflectORIZED Traffic Sign.....	384.77	47.61
10 14 53 11-0112 EA 48" x 96" Steel Non ReflectORIZED Traffic Sign.....	426.14	47.61
10 14 53 11-0113 EA 48" x 102" Steel Non ReflectORIZED Traffic Sign.....	446.82	47.61
10 14 53 11-0114 EA 48" x 108" Steel Non ReflectORIZED Traffic Sign.....	471.46	49.60
10 14 53 11-0115 EA 60" x 72" Steel Non ReflectORIZED Traffic Sign.....	405.45	47.61
10 14 53 11-0116 EA 72" x 144" Steel Non ReflectORIZED Traffic Sign.....	871.51	63.48
10 14 53 11-0117 EA 78" x 96" Steel Non ReflectORIZED Traffic Sign.....	636.92	49.60
10 14 53 11-0118 Aluminum Non-ReflectORIZED Traffic Signs (10 14 53 11-0065)		
10 14 53 11-0119 EA 6" x 12" Aluminum Non ReflectORIZED Traffic Sign.....	37.12	15.87
10 14 53 11-0120 EA 6" x 18" Aluminum Non ReflectORIZED Traffic Sign.....	39.81	15.87
10 14 53 11-0121 EA 9" x 12" Aluminum Non ReflectORIZED Traffic Sign.....	39.81	15.87
10 14 53 11-0122 EA 9" x 15" Aluminum Non ReflectORIZED Traffic Sign.....	41.83	15.87
10 14 53 11-0123 EA 9" x 18" Aluminum Non ReflectORIZED Traffic Sign.....	43.85	15.87
10 14 53 11-0124 EA 9" x 24" Aluminum Non ReflectORIZED Traffic Sign.....	49.86	16.86
10 14 53 11-0125 EA 9" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	66.01	16.86
10 14 53 11-0126 EA 12" x 12" Aluminum Non ReflectORIZED Traffic Sign.....	42.50	15.87
10 14 53 11-0127 EA 12" x 18" Aluminum Non ReflectORIZED Traffic Sign.....	49.86	16.86
10 14 53 11-0128 EA 12" x 24" Aluminum Non ReflectORIZED Traffic Sign.....	55.25	16.86
10 14 53 11-0129 EA 12" x 30" Aluminum Non ReflectORIZED Traffic Sign.....	60.63	16.86
10 14 53 11-0130 EA 12" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	66.01	16.86
10 14 53 11-0131 EA 18" x 18" Aluminum Non ReflectORIZED Traffic Sign.....	57.94	16.86
10 14 53 11-0132 EA 18" x 24" Aluminum Non ReflectORIZED Traffic Sign.....	66.01	16.86
10 14 53 11-0133 EA 18" x 30" Aluminum Non ReflectORIZED Traffic Sign.....	76.06	17.85
10 14 53 11-0134 EA 18" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	84.13	17.85
10 14 53 11-0135 EA 18" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	108.22	21.82
10 14 53 11-0136 EA 18" x 54" Aluminum Non ReflectORIZED Traffic Sign.....	116.29	21.82
10 14 53 11-0137 EA 24" x 24" Aluminum Non ReflectORIZED Traffic Sign.....	78.75	17.85
10 14 53 11-0138 EA 24" x 30" Aluminum Non ReflectORIZED Traffic Sign.....	89.51	17.85
10 14 53 11-0139 EA 24" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	100.28	17.85
10 14 53 11-0140 EA 24" x 42" Aluminum Non ReflectORIZED Traffic Sign.....	118.98	21.82
10 14 53 11-0141 EA 24" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	129.74	21.82
10 14 53 11-0142 EA 24" x 54" Aluminum Non ReflectORIZED Traffic Sign.....	140.50	21.82
10 14 53 11-0143 EA 24" x 60" Aluminum Non ReflectORIZED Traffic Sign.....	151.27	21.82
10 14 53 11-0144 EA 30" x 30" Aluminum Non ReflectORIZED Traffic Sign.....	102.97	17.85
10 14 53 11-0145 EA 30" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	124.36	21.82
10 14 53 11-0146 EA 30" x 42" Aluminum Non ReflectORIZED Traffic Sign.....	137.81	21.82
10 14 53 11-0147 EA 30" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	159.20	25.79
10 14 53 11-0148 EA 30" x 60" Aluminum Non ReflectORIZED Traffic Sign.....	194.04	29.76
10 14 53 11-0149 EA 36" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	140.50	21.82
10 14 53 11-0150 EA 36" x 42" Aluminum Non ReflectORIZED Traffic Sign.....	164.58	25.79
10 14 53 11-0151 EA 36" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	188.66	29.76
10 14 53 11-0152 EA 36" x 54" Aluminum Non ReflectORIZED Traffic Sign.....	204.80	29.76
10 14 53 11-0153 EA 36" x 60" Aluminum Non ReflectORIZED Traffic Sign.....	228.89	33.72
10 14 53 11-0154 EA 36" x 73" Aluminum Non ReflectORIZED Traffic Sign.....	271.80	37.69
10 14 53 11-0155 EA 36" x 78" Aluminum Non ReflectORIZED Traffic Sign.....	285.25	37.69
10 14 53 11-0156 EA 36" x 108" Aluminum Non ReflectORIZED Traffic Sign.....	377.88	43.64



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0157 EA 42" x 42" Aluminum Non Reflectorized Traffic Sign	191.35	29.76
10 14 53 11-0158 EA 48" x 48" Aluminum Non Reflectorized Traffic Sign	239.65	33.72
10 14 53 11-0159 EA 48" x 54" Aluminum Non Reflectorized Traffic Sign	269.11	37.69
10 14 53 11-0160 EA 48" x 60" Aluminum Non Reflectorized Traffic Sign	290.63	37.69
10 14 53 11-0161 EA 48" x 66" Aluminum Non Reflectorized Traffic Sign	324.07	43.64
10 14 53 11-0162 EA 48" x 72" Aluminum Non Reflectorized Traffic Sign	345.59	43.64
10 14 53 11-0163 EA 48" x 84" Aluminum Non Reflectorized Traffic Sign	396.57	47.61
10 14 53 11-0164 EA 48" x 96" Aluminum Non Reflectorized Traffic Sign	439.62	47.61
10 14 53 11-0165 EA 48" x 102" Aluminum Non Reflectorized Traffic Sign	461.15	47.61
10 14 53 11-0166 EA 48" x 108" Aluminum Non Reflectorized Traffic Sign	486.63	49.60
10 14 53 11-0167 EA 60" x 72" Aluminum Non Reflectorized Traffic Sign	418.10	47.61
10 14 53 11-0168 EA 72" x 144" Aluminum Non Reflectorized Traffic Sign	901.85	63.48
10 14 53 11-0169 EA 78" x 96" Aluminum Non Reflectorized Traffic Sign	658.83	49.60
10 14 53 11-0170 Aluminum Street Signs (10 14 53 11-0004) Note: Excludes posts.		
10 14 53 11-0171 Aluminum Engineer Grade Street Signs (10 14 53 11-0170)		
10 14 53 11-0172 EA 6" High, Aluminum Engineer Grade Street Sign	65.33	7.93
10 14 53 11-0173 EA 8" High, Aluminum Engineer Grade Street Sign	74.06	7.93
10 14 53 11-0174 EA 9" High, Aluminum Engineer Grade Street Sign	80.56	7.93
10 14 53 11-0175 Street Sign Accessories (10 14 53 11-0170)		
10 14 53 11-0176 EA Single Bracket And Post Cap For Street Sign.....	19.83	3.97
10 14 53 11-0177 EA Double Bracket And Post Cap For Street Sign	19.83	3.97
10 14 53 11-0178 Sign Posts (10 14 53 11-0004) Note: Excludes sign. See CSI section 32 31 13 13-0001 for auguring of holes and backfill.		
10 14 53 11-0179 U-Channel Sign Posts (10 14 53 11-0178) Note: Excludes digging and concrete.		
10 14 53 11-0180 Baked Enamel U-Channel Sign Posts (10 14 53 11-0179)		
10 14 53 11-0181 EA 3' To 4' Baked Enamel U-Channel Sign Post Base.....	53.15	16.26
10 14 53 11-0182 EA 6' Baked Enamel U-Channel Sign Post.....	69.68	20.32
10 14 53 11-0183 EA 7' Baked Enamel U-Channel Sign Post.....	83.20	24.39
10 14 53 11-0184 EA 8' Baked Enamel U-Channel Sign Post.....	97.41	28.45
10 14 53 11-0185 EA 10' Baked Enamel U-Channel Sign Post.....	117.57	34.55
10 14 53 11-0186 EA 12' Baked Enamel U-Channel Sign Post.....	120.88	34.55
10 14 53 11-0187 Galvanized Steel U-Channel Sign Posts (10 14 53 11-0179)		
10 14 53 11-0188 EA 3' To 4' Galvanized Steel U-Channel Sign Post Base.....	57.41	16.26
10 14 53 11-0189 EA 6' Galvanized Steel U-Channel Sign Post.....	76.43	20.32
10 14 53 11-0190 EA 7' Galvanized Steel U-Channel Sign Post.....	98.48	24.39
10 14 53 11-0191 EA 8' Galvanized Steel U-Channel Sign Post.....	114.29	28.45
10 14 53 11-0192 EA 10' Galvanized Steel U-Channel Sign Post.....	129.86	34.55
10 14 53 11-0193 EA 12' Galvanized Steel U-Channel Sign Post.....	131.57	34.55
10 14 53 11-0194 Fiberglass Or Composite Plastic U-Channel Sign Posts (10 14 53 11-0179)		
10 14 53 11-0195 EA 3' To 4' Fiberglass Or Composite Plastic U-Channel Sign Post Base.....	52.15	16.26
10 14 53 11-0196 EA 6' Fiberglass Or Composite Plastic U-Channel Sign Post.....	67.50	20.32
10 14 53 11-0197 EA 7' Fiberglass Or Composite Plastic U-Channel Sign Post.....	80.57	24.39
10 14 53 11-0198 EA 8' Fiberglass Or Composite Plastic U-Channel Sign Post.....	94.27	28.45
10 14 53 11-0199 EA 10' Fiberglass Or Composite Plastic U-Channel Sign Post.....	111.87	34.55
10 14 53 11-0200 EA 12' Fiberglass Or Composite Plastic U-Channel Sign Post.....	117.50	34.55
10 14 53 11-0201 Tubular Sign Posts (10 14 53 11-0178) Note: Excludes digging and concrete.		
10 14 53 11-0202 2-3/8" Diameter, Galvanized Steel Tubular Sign Post (10 14 53 11-0201)		
10 14 53 11-0203 EA 6', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	77.13	20.32
10 14 53 11-0204 EA 7', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	91.54	24.39
10 14 53 11-0205 EA 8', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	108.10	28.45
10 14 53 11-0206 EA 10', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	139.10	34.55
10 14 53 11-0207 EA 12', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	150.69	34.55
10 14 53 11-0208 Square Sign Posts (10 14 53 11-0178) Note: Excludes digging and concrete.		
10 14 53 11-0209 Galvanized Steel Square Sign Posts (10 14 53 11-0208)		
10 14 53 11-0210 EA 3' To 4' Galvanized Steel Square Sign Post Base	58.35	16.26
10 14 53 11-0211 EA 6' Galvanized Steel Square Sign Post	92.43	20.32
10 14 53 11-0212 EA 7' Galvanized Steel Square Sign Post	108.43	24.39
10 14 53 11-0213 EA 8' Galvanized Steel Square Sign Post	126.47	28.45
10 14 53 11-0214 EA 10' Galvanized Steel Square Sign Post	154.43	34.55



Specialties	10	10
Information Specialties	10 10	
Signage	10 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0215 EA 12' Galvanized Steel Square Sign Post.....	162.52	34.55
10 14 53 11-0216 Other Sign Posts And Bases (10 14 53 11-0004) Note: For breakaway post systems, base posts are driven in, sign posts bolted to base post using lap splice hardware kit.		
10 14 53 11-0217 2.5 LB/FT Breakaway Sign Posts And Base Posts (10 14 53 11-0216)		
10 14 53 11-0218 Base Posts, 2.5 LB/LF, For Breakaway Sign Posts (10 14 53 11-0217)		
10 14 53 11-0219 EA Base Post for 2.5 LB/LF Breakaway Sign Post.....	85.14	19.84
10 14 53 11-0220 EA Lap Splice Hardware For 2.5 LB/LF Breakaway Sign Post.....	53.40	15.87
10 14 53 11-0221 Breakaway Sign Posts, 2.5 LB/LF (10 14 53 11-0217)		
10 14 53 11-0222 LF 2.5 LB/LF Breakaway Sign Post.....	11.25	1.99
10 14 53 11-0223 4 LB/FT Breakaway Sign Posts And Base Posts (10 14 53 11-0216)		
10 14 53 11-0224 Base Posts, 4 LB/LF, For Breakaway Sign Posts (10 14 53 11-0223)		
10 14 53 11-0225 EA Base Post For 4 LB/LF Breakaway Sign Post.....	89.31	23.80
10 14 53 11-0226 EA Lap Splice Hardware for 4 LB/LF Breakaway Sign Post.....	53.40	15.87
10 14 53 11-0227 Breakaway Sign Posts, 4 LB/LF (10 14 53 11-0223)		
10 14 53 11-0228 LF 4 LB/LF Breakaway Sign Post.....	13.83	1.99
10 14 53 11-0229 Driven Sign Posts (10 14 53 11-0216)		
10 14 53 11-0230 Driven Posts, 2.5 LB/LF (10 14 53 11-0229)		
10 14 53 11-0231 LF 2.5 LB/LF Driven Post.....	12.04	2.78
10 14 53 11-0232 Driven Posts, 4 LB/LF (10 14 53 11-0229)		
10 14 53 11-0233 LF 4 LB/LF Driven Post.....	15.01	3.17
10 14 53 11-0234 Omni-Directional Breakaway System For Sign Posts And Light Poles (10 14 53 11-0216)		
10 14 53 11-0235 Omni-Directional Breakaway Systems For Signs (10 14 53 11-0234) Note: Break-Safe as manufactured by Trampo Industries. Tasks are organized by post type and size. Includes hinges, anchors, all associated parts and drilling.		
10 14 53 11-0236 EA Omni-Directional Breakaway System For 6" To 8" Wide Flange (Trampo B525).....	1,316.65	
10 14 53 11-0237 EA Omni-Directional Breakaway System For 10" To 21" Wide Flange (Trampo B650).....	1,402.89	
10 14 53 11-0238 EA Omni-Directional Breakaway System For Standard I Beam Or W6x9 Flange (Trampo AI4 And AI6).....	961.80	
10 14 53 11-0239 EA Omni-Directional Breakaway System For 3" To 4.5" Outside Diameter Pipe (Trampo A3 And A4.5).....	842.40	
10 14 53 11-0240 EA Omni-Directional Breakaway System For Square Tube (Trampo AS3 And AS4).....	955.16	
10 14 53 11-0241 EA Omni-Directional Breakaway System For U-Channels (Trampo AU4 To AU6).....	908.73	
10 14 53 11-0242 EA Omni-Directional Breakaway System For U-Channels Embedded (Trampo AUX4 To AUX6).....	985.01	
10 14 53 11-0243 Omni-Directional Breakaway Systems For Poles (10 14 53 11-0234) Note: Pole-Safe as Manufactured by Trampo Industries. Tasks are organized by bolt size. Includes four couplings, all associated parts, drilling and can be for new or for retro-fitting existing poles.		
10 14 53 11-0244 EA Omni-Directional Breakaway System For Poles With 5/8" Couplings.....	442.46	
10 14 53 11-0245 EA Omni-Directional Breakaway System For Poles With 3/4" Couplings.....	463.88	
10 14 53 11-0246 EA Omni-Directional Breakaway System For Poles With 1" Couplings.....	481.72	
10 14 53 11-0247 EA Omni-Directional Breakaway System For Poles With 1 1/4" Couplings.....	731.51	
10 14 53 11-0248 EA Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 10" To Less Than 15".....	64.22	
10 14 53 11-0249 EA Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 15" To 20".....	85.63	
10 14 53 11-0250 Wood Posts (10 14 53 11-0216) Note: The quantity is the total length, including the buried portion. See CSI section 32 31 13 13-001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
10 14 53 11-0251 LF 4" x 4" Pressure Treated Wood Sign Post.....	10.97	
10 14 53 11-0252 Sign Post Accessories (10 14 53 11-0004)		
10 14 53 11-0253 Sign Post Brackets (10 14 53 11-0252)		
10 14 53 11-0254 EA 2-3/8" Outside Diameter, Single Side Sign Bracket Set..... Note: Includes 2 single side sign post brackets	38.97	5.95
10 14 53 11-0255 EA 2-3/8" Outside Diameter, Double Side Sign Bracket Set..... Note: Includes 2 double side sign post brackets	52.37	9.92
10 14 53 11-0256 EA 4" To 12" Diameter, Buckle Bracket Set..... Note: Includes 2 stainless steel straps, 2 brackets and fastener hardware	47.22	7.93
10 14 53 11-0257 Sign Post Caps (10 14 53 11-0252)		

10	10	Specialties
	10 10	Information Specialties
	10 14	Signage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0258 EA 2-3/8" Diameter, Galvanized, Flat Traffic Sign Post Cap (EC-2).....	18.03	3.97
10 14 53 11-0259 Sign Post Replacement Bolts <small>(10 14 53 11-0252)</small>		
10 14 53 11-0260 EA Signage Fasteners Replacement..... Note: Includes two 5/16" x 2" long bolts, two 5/16" nuts And four 5/16" washers	12.77	
10 14 53 11-0261 Reflective Panels For "U" Channel Post <small>(10 14 53 11-0252)</small>		
10 14 53 11-0262 EA 3" x 72" Reflective Panel For "U-Channel" Post..... Note: Diamond grade panel including mounting hardware.	51.74	
10 14 53 11-0263 Removal Of Signs <small>(10 14 53 11)</small>		
Note: Includes structural supports.		
10 14 53 11-0264 EA >4 To 10 SF Sign Area, Sign Removal.....	158.70	
10 14 53 11-0265 EA >10 To 20 SF Sign Area, Sign Removal.....	380.87	
10 14 53 11-0266 EA >20 To 40 SF Sign Area, Sign Removal.....	571.30	
10 14 53 11-0267 EA >40 To 100 SF Sign Area, Sign Removal.....	1,008.72	
10 14 53 11-0268 Removal And Reinstallation Of Signs <small>(10 14 53 11)</small>		
Note: Includes structural supports.		
10 14 53 11-0269 EA >4 To 10 SF Sign Area, Removal And Reinstallation Of Sign.....	241.75	
10 14 53 11-0270 EA >10 To 20 SF Sign Area, Removal And Reinstallation Of Sign.....	573.95	
10 14 53 11-0271 EA >20 SF To 40 SF Sign Area, Removal And Reinstallation Of Sign.....	859.21	
10 14 53 11-0272 EA >40 SF To 100 SF Sign Area, Removal And Reinstallation Of Sign.....	1,515.16	
10 14 53 11-0273 EA Removal And Reinstallation Of Street Sign On Post.....	91.25	
10 14 53 11-0274 EA Removal And Relocation Of Traffic Light..... Note: Excludes electrical hookup.	340.07	
10 80 Other Specialties <small>(10)</small>		
10 81 Pest Control Devices <small>(10 80)</small>		
10 81 13 Bird Control Devices <small>(10 81)</small>		
10 81 13 00-0001 Stainless Steel Spiked Bird Barrier <small>(10 81 13)</small>		
Note: Stainless steel spikes with flexible polycarbonate base.		
10 81 13 00-0002 LF 2-1/2" To 3" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System.....	9.74	0.89
10 81 13 00-0003 LF 4-1/2" To 5" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System.....	11.78	0.89
10 81 13 00-0004 LF 8" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System.....	17.38	0.89
10 81 13 00-0005 Polycarbonate Spiked Bird Barrier <small>(10 81 13)</small>		
Note: Polycarbonate spikes and base.		
10 81 13 00-0006 LF 3" Wide Polycarbonate Spikes And Base Bird Deterrent System.....	8.98	0.89
10 81 13 00-0007 LF 5" Wide Polycarbonate Spikes And Base Bird Deterrent System.....	10.90	0.89
10 81 13 00-0008 LF 8" Wide Polycarbonate Spikes And Base Bird Deterrent System.....	12.98	0.89
10 81 13 00-0009 Spiked Gutter Or Girder Bird Barrier <small>(10 81 13)</small>		
Note: Stainless steel spikes with flexible polycarbonate base mounted to gutter or girder. Includes aluminum clamps.		
10 81 13 00-0010 LF Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System For Gutter Or Girder Application.....	10.38	0.89
10 81 13 00-0011 Coil Bird Barrier <small>(10 81 13)</small>		
Note: Stainless steel coil.		
10 81 13 00-0012 LF 4" Diameter Stainless Steel Coil Bird Deterrent System.....	7.24	0.89
10 81 13 00-0013 LF 5" Diameter Stainless Steel Coil Bird Deterrent System.....	8.59	0.89
10 81 13 00-0014 Spider Bird Barrier <small>(10 81 13)</small>		
Note: Stainless steel arms with various bases.		
10 81 13 00-0015 EA 2' Diameter Stainless Steel Spider Bird Deterrent System.....	125.05	0.89
10 81 13 00-0016 EA 4' Diameter Stainless Steel Spider Bird Deterrent System.....	185.03	0.89
10 81 13 00-0017 EA 8' Diameter Stainless Steel Spider Bird Deterrent System.....	233.71	0.89
10 81 13 00-0018 Oriented Flexible Flame-resistant Netting <small>(10 81 13)</small>		
Note: Includes stainless steel rings and plastic ties.		
10 81 13 00-0019 SF 1/8" x 1/8" Mesh Flexible Polypropylene Netting..... Note: To control bird and marine predators.	0.91	0.32
10 81 13 00-0020 SF 1/4" x 1/4" Mesh Flexible Polypropylene Netting..... Note: To control bird and marine predators.	0.88	0.32
10 81 13 00-0021 SF 1/2" x 1/2" Mesh Flexible Polypropylene Netting..... Note: To control bird and marine predators.	0.84	0.32
10 81 13 00-0022 SF 3/4" x 3/4" Mesh Flexible Polypropylene Netting..... Note: To control bird and marine predators.	0.81	0.32



Specialties	10	10
Other Specialties	10 80	
Pest Control Devices	10 81	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 81 13 00-0023 SF 1" x 1" Mesh Flexible Polypropylene Netting Note: To control bird and marine predators.	0.81	0.32
10 81 13 00-0024 SF 1-1/8" x 1-1/8" Mesh Flexible Polypropylene Netting Note: To control bird and marine predators.	0.79	0.32
10 81 13 00-0025 SF 2" x 2" Mesh Flexible Polypropylene Netting Note: To control bird and marine predators.	0.77	0.32
10 81 13 00-0026 SF 3" x 3" Mesh Flexible Polypropylene Netting Note: To control bird and marine predators.	0.77	0.32
10 81 13 00-0027 SF 4" x 4" Mesh Flexible Polypropylene Netting Note: To control bird and marine predators.	0.74	0.32
10 81 13 00-0028 SF 5/8" x 3/4" Mesh Flexible Polypropylene Netting Note: To control bird and marine predators.	0.83	0.32
10 81 13 00-0029 SF 1-1/4" x 1-1/2" Mesh Flexible Polypropylene Netting Note: To control bird and marine predators.	0.78	0.32
10 81 13 00-0030 EA Poly Clips For Flexible Netting.....	2.81	
10 81 13 00-0031 Netting Accessories <small>(10 81 13)</small>		
10 81 13 00-0032 EA 2' Zipper For Flexible Netting.....	8.45	
10 81 13 00-0033 EA 4' Zipper For Flexible Netting.....	12.73	
10 81 13 00-0034 EA 6' Zipper For Flexible Netting.....	14.98	
10 81 13 00-0035 EA 8' Zipper For Flexible Netting.....	21.29	
10 81 16 Insect Control Devices <small>(10 81)</small>		
10 81 16 00-0001 Insect Screening <small>(10 81 16)</small>		
10 81 16 00-0002 CSF 17/14 Mesh Insect Screening With Flat Screen Splines.....	128.28	

END OF SECTION 10

10	10	Specialties
	10 80	Other Specialties
	10 81	Pest Control Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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Equipment	11	
Entertainment and Recreation Equipment	11 60	11
Play Field Equipment and Structures	11 68	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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11 Equipment

11 60 Entertainment and Recreation Equipment ⁽¹¹⁾

11 68 Play Field Equipment and Structures ^(11 60)

11 68 13 Playground Equipment ^(11 68)

See CSI section 32 31 13 13-0001 for augering holes and fill for posts.

<p>11 68 13 00-0001 Standalone Playground Equipment ^(11 68 13)</p> <p>11 68 13 00-0002 Ground Socket For Movable Posts ^(11 68 13 00-0001)</p> <p style="margin-left: 20px;">11 68 13 00-0003 PR Ground Socket For 2-3/8" Post For Playground Equipment 260.71 53.85</p> <p style="margin-left: 20px;">11 68 13 00-0004 PR Ground Socket For 3-1/2" Post For Playground Equipment 404.50 53.85</p> <p>11 68 13 00-0005 See-Saws ^(11 68 13 00-0001)</p> <p>11 68 13 00-0006 Steel See-Saw ^(11 68 13 00-0005)</p> <p style="margin-left: 20px;">11 68 13 00-0007 EA 2 Unit Steel See-Saw 2,214.27 331.41</p> <p style="margin-left: 20px;">11 68 13 00-0008 EA 4 Unit Steel See-Saw 3,607.75 391.63</p> <p style="margin-left: 20px;">11 68 13 00-0009 EA 6 Unit Steel See-Saw 5,011.74 478.67</p> <p>11 68 13 00-0010 14' Long Laminated Beam ^(11 68 13 00-0005)</p> <p style="margin-left: 20px;">11 68 13 00-0011 EA Beam Is Supported By Two 12 In x 12 In Stepping Column Posts 2,375.20 293.03</p> <p style="margin-left: 20px;">11 68 13 00-0012 EA Beam Is Supported By Two 8 In x 8 In Posts 1,639.85 261.04</p> <p>11 68 13 00-0013 Slides ^(11 68 13 00-0001)</p> <p style="margin-left: 20px;">11 68 13 00-0014 EA 8' Long x 4' High Slide With Stainless Steel Bed 2,690.26 378.95</p> <p style="margin-left: 20px;">11 68 13 00-0015 EA 12' Long x 6' High Slide With Stainless Steel Bed 3,764.94 538.51</p> <p style="margin-left: 20px;">11 68 13 00-0016 EA 16' Long x 8' High Slide With Stainless Steel Bed 4,169.47 598.34</p> <p style="margin-left: 20px;">11 68 13 00-0017 EA 20' Long x 10' High Slide With Stainless Steel Bed 5,251.17 662.80</p> <p style="margin-left: 20px;">11 68 13 00-0018 EA 6' High, 360 Degree One Piece Molded Polyethylene Slide 14,283.54 1,042.63</p> <p style="margin-left: 20px;">11 68 13 00-0019 EA 7' High, 360 Degree Slide, Stainless Steel Bed 16,621.35 1,075.59</p> <p style="margin-left: 20px;">11 68 13 00-0020 EA 9' High, 360 Degree Slide, Stainless Steel Bed 20,948.85 1,130.47</p> <p>11 68 13 00-0021 Whirlers ^(11 68 13 00-0001)</p> <p style="margin-left: 20px;">11 68 13 00-0022 EA 8' Diameter Whirler 5,985.76 718.02</p> <p style="margin-left: 20px;">11 68 13 00-0023 EA 10' Diameter Whirler 6,947.24 861.62</p> <p>11 68 13 00-0024 Other Standalone Playground Equipment ^(11 68 13 00-0001)</p> <p>11 68 13 00-0025 Miscellaneous Standalone Playground Equipment ^(11 68 13 00-0024)</p> <p style="margin-left: 20px;">11 68 13 00-0026 EA Horizontal Ladder 1,917.15 191.82</p> <p style="margin-left: 20px;">11 68 13 00-0027 EA Tether Ball Post 324.16 37.50</p> <p style="margin-left: 20px;">11 68 13 00-0028 PR 10'-6" Long Multiple Purpose Post 493.48 66.30</p> <p style="margin-left: 20px;">11 68 13 00-0029 EA 3-Person Fiberglass Golf Tee Shelter Turntable 8,006.17 187.32</p> <p style="margin-left: 20px;">11 68 13 00-0030 EA Horizontal Turning Bars, 1 Bar 608.07 100.09</p> <p style="margin-left: 20px;">11 68 13 00-0031 EA Horizontal Turning Bars, 2 Bars 823.80 119.64</p> <p style="margin-left: 20px;">11 68 13 00-0032 EA Horizontal Turning Bars, 3 Bars 1,110.96 159.51</p> <p style="margin-left: 20px;">11 68 13 00-0033 EA Horizontal Turning Bars, 5 Bars 1,626.55 219.34</p> <p style="margin-left: 20px;">11 68 13 00-0034 EA Top Goal Opening With 4 Exit Holes (One Each Side) And 8' Pole 1,723.32 91.32</p> <p style="margin-left: 20px;">11 68 13 00-0035 EA Top Goal Opening With 4 Exit Holes (One Each Side) And 10' Pole 1,897.63 98.58</p> <p style="margin-left: 20px;">11 68 13 00-0036 EA Coil Spring With Single Riding Aluminum Saddle Devices 1,855.45 105.68</p> <p style="margin-left: 20px;">11 68 13 00-0037 EA "C" Spring With Single Riding Aluminum Saddle Devices 1,400.42 90.92</p> <p style="margin-left: 20px;">11 68 13 00-0038 EA Rubber Spring With Single Riding Aluminum Saddle Devices 1,727.78 119.08</p> <p style="margin-left: 20px;">11 68 13 00-0039 EA Coil Spring Assembly Only 469.69 43.79</p> <p style="margin-left: 20px;">11 68 13 00-0040 EA "C" Spring Assembly Only 312.08 29.19</p> <p style="margin-left: 20px;">11 68 13 00-0041 EA Rubber Spring Assembly Only 223.39 56.94</p> <p style="margin-left: 20px;">11 68 13 00-0042 EA Footbuck Assembly Only 81.10 7.65</p> <p style="margin-left: 20px;">11 68 13 00-0043 EA Two Seat, Two Spring Action Cars (4'-8" x 2'-8") 2,110.53 109.51</p> <p>11 68 13 00-0044 Freestanding Panels ^(11 68 13 00-0024)</p> <p style="margin-left: 20px;">Note: Rotomolded polyethylene.</p> <p style="margin-left: 20px;">11 68 13 00-0045 EA Tic-Tac-Toe Panel 898.66 46.89</p> <p style="margin-left: 20px;">11 68 13 00-0046 EA 24" Bubble Panel 1,346.24 70.27</p> <p style="margin-left: 20px;">11 68 13 00-0047 EA Fire Engine Panel 1,975.64 103.13</p> <p style="margin-left: 20px;">11 68 13 00-0048 EA Flat Mirror Panel 1,580.52 82.55</p> <p style="margin-left: 20px;">11 68 13 00-0049 EA Wavy Mirror Panel 2,339.29 122.19</p> <p style="margin-left: 20px;">11 68 13 00-0050 EA Paint Time Panel 1,517.57 79.28</p> <p style="margin-left: 20px;">11 68 13 00-0051 EA Phone Time Panel 1,076.99 56.22</p> <p style="margin-left: 20px;">11 68 13 00-0052 EA Phone Time With Graphic Panel 1,076.99 56.22</p> <p style="margin-left: 20px;">11 68 13 00-0053 EA Race Time Panel 1,888.22 98.58</p> <p style="margin-left: 20px;">11 68 13 00-0054 EA Rescue 911 Panel 1,916.41 98.58</p>	<p>53.85</p> <p>53.85</p> <p>331.41</p> <p>391.63</p> <p>478.67</p> <p>293.03</p> <p>261.04</p> <p>378.95</p> <p>538.51</p> <p>598.34</p> <p>662.80</p> <p>1,042.63</p> <p>1,075.59</p> <p>1,130.47</p> <p>718.02</p> <p>861.62</p> <p>191.82</p> <p>37.50</p> <p>66.30</p> <p>187.32</p> <p>100.09</p> <p>119.64</p> <p>159.51</p> <p>219.34</p> <p>91.32</p> <p>98.58</p> <p>105.68</p> <p>90.92</p> <p>119.08</p> <p>43.79</p> <p>29.19</p> <p>56.94</p> <p>7.65</p> <p>109.51</p> <p>46.89</p> <p>70.27</p> <p>103.13</p> <p>82.55</p> <p>122.19</p> <p>79.28</p> <p>56.22</p> <p>56.22</p> <p>98.58</p> <p>98.58</p>
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11 Equipment
11 60 Entertainment and Recreation Equipment
11 68 Play Field Equipment and Structures



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 68 13 00-0055	EA		Eastern/Central/Western States Panel	1,031.53	53.84
11 68 13 00-0056	EA		Career People Panel.....	1,171.39	61.18
11 68 13 00-0057	EA		Solar System Panel	1,171.39	61.18
11 68 13 00-0058	EA		Animals Panel.....	1,171.39	61.18
11 68 13 00-0059			Freestanding Panels Uprights <small>(11 68 13 00-0024)</small>		
11 68 13 00-0060	EA		3-1/2" Outside Diameter End Panel Upright.....	278.04	26.32
11 68 13 00-0061	EA		3-1/2" Outside Diameter 90 Degree Upright	301.22	28.47
11 68 13 00-0062	EA		3-1/2" Outside Diameter 180 Degree Upright	301.22	28.47
11 68 13 00-0063	EA		3-1/2" Outside Diameter "T-Shaped" Upright.....	320.53	30.31
11 68 13 00-0064			Coasters <small>(11 68 13 00-0024)</small>		
11 68 13 00-0065	EA		12' Single Metal Coaster With Four Posts.....	6,954.66	319.03
11 68 13 00-0066	EA		18' Single Metal Coaster With Four Posts.....	7,774.12	398.79
11 68 13 00-0067	EA		12' Double Metal Coaster With Four Posts.....	11,252.30	478.54
11 68 13 00-0068	EA		18' Double Metal Coaster With Four Posts.....	12,792.85	598.18
11 68 13 00-0069			Climbers <small>(11 68 13 00-0024)</small>		
11 68 13 00-0070	EA		Tower Climber, 3.17' Diameter x 7.25' High.....	1,264.54	213.11
11 68 13 00-0071	EA		Arch Climber, 2' x 12' x 4.5' High	1,150.86	260.96
11 68 13 00-0072	EA		Arch Climber, 2' x 15' x 5.83' High	1,251.35	213.11
11 68 13 00-0073	EA		Arch Climber, 2' x 17' x 6.58' High	1,346.51	260.96
11 68 13 00-0074	EA		Rainbow Climber, 2' x 10'-5" x 4' High.....	1,443.63	212.88
11 68 13 00-0075	EA		Rainbow Climber, 2' x 10'-5" x 5' High.....	1,619.78	212.95
11 68 13 00-0076	EA		Rainbow Climber, 2' x 12'-5" x 6' High.....	1,889.67	212.95
11 68 13 00-0077	EA		Rainbow Climber, 2' x 15'-4" x 7' High.....	2,066.11	212.88
11 68 13 00-0078	EA		Double Level Arch Climber, 6' Wide x 12'-6" x 6' High Upper Section / 5' High Lower Section.....	2,493.40	249.24
11 68 13 00-0079	EA		12' Long Horizontal Ladder Climber.....	2,031.58	186.12
11 68 13 00-0080	EA		14' Long Horizontal Ladder Climber.....	2,061.27	186.12
11 68 13 00-0081	EA		16' Long Horizontal Ladder Climber.....	2,257.85	186.12
11 68 13 00-0082	EA		Bell Climber, 7'-5" High With Double Bars	2,118.95	239.28
11 68 13 00-0083	EA		2-Way Climber.....	1,777.13	191.82
11 68 13 00-0084	EA		4-Way Climber.....	2,844.23	191.82
11 68 13 00-0085			Swings <small>(11 68 13 00-0001)</small>		
11 68 13 00-0086			Two-Leg-End Swings, 2-3/8" Diameter Galvanized Steel Top Rail <small>(11 68 13 00-0085)</small>		
			Note: Legs, 1-7/8" diameter, traditional.		
11 68 13 00-0087	EA		8' High Top Rail, One Section Two Seats.....	1,661.22	293.03
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	193.69	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	220.91	
11 68 13 00-0088	EA		8' High Top Rail, Two Sections Four Seats.....	2,654.56	419.32
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	310.88	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	359.83	
11 68 13 00-0089	EA		8' High Top Rail, Three Sections, Six Seats	3,672.06	617.02
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	429.62	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	495.65	
11 68 13 00-0090	EA		8' High Top Rail, Four Sections, Eight Seats.....	4,604.08	718.02
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	539.60	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	626.17	
11 68 13 00-0091	EA		10' High Top Rail, One Section Two Seats.....	1,774.93	293.03
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	207.91	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	240.81	
11 68 13 00-0092	EA		10' High Top Rail, Two Section Four Seats	2,771.39	446.61
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	323.48	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	370.29	
11 68 13 00-0093	EA		10' High Top Rail, Three Sections, Six Seats	3,823.20	693.52
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	444.86	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	503.88	
11 68 13 00-0094	EA		10' High Top Rail, Four Sections, Eight Seats.....	5,070.03	837.69
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	591.85	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	677.75	
11 68 13 00-0095			Three-Leg-End Swings, 2-3/8" Diameter Galvanized Steel Top Rail <small>(11 68 13 00-0085)</small>		
			Note: Legs, 1-7/8" diameter, traditional.		
11 68 13 00-0096	EA		8' High Top Rail, One Section, Two Seats.....	1,911.19	258.80
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	225.96	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	269.75	
11 68 13 00-0097	EA		8' High Top Rail, Two Sections, Four Seats.....	2,773.97	375.52
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	327.97	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	391.57	
11 68 13 00-0098	EA		8' High Top Rail, Three Sections, Six Seats	3,700.66	502.21
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	437.47	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	522.06	
11 68 13 00-0099	EA		8' High Top Rail, Four Sections, Eight Seats.....	4,628.56	598.34
			For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	548.65	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	660.39	



Equipment	11
Entertainment and Recreation Equipment	11 60
Play Field Equipment and Structures	11 68

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 68 13 00-0100 EA 10' High Top Rail, One Section, Two Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,155.32 254.83 304.27	291.67
11 68 13 00-0101 EA 10' High Top Rail, One Section Three Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,252.73 266.86 320.56	309.31
11 68 13 00-0102 EA 10' High Top Rail, Two Sections, Four Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	3,008.76 355.68 424.45	408.31
11 68 13 00-0103 EA 10' High Top Rail, Two Sections, Six Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	3,626.14 430.84 522.45	470.70
11 68 13 00-0104 EA 10' High Top Rail, Three Section, Six Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	4,005.07 473.47 565.08	543.22
11 68 13 00-0105 EA 10' High Top Rail, Three Sections, Nine Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	4,999.66 595.04 725.33	598.58
11 68 13 00-0106 EA 10' High Top Rail, Four Section, Eight Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	5,075.47 598.52 708.66	718.02
11 68 13 00-0107 EA 12' High Top Rail, One Section Three Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,357.08 279.54 337.02	316.80
11 68 13 00-0108 EA 12' High Top Rail, Two Sections, Six Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	3,835.24 455.12 549.76	509.71
11 68 13 00-0109 EA 12' High Top Rail, Three Sections, Nine Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	5,572.90 656.72 775.81	816.38
11 68 13 00-0110 Swing Accessories <small>(11 68 13 00-0085)</small>		
11 68 13 00-0111 EA Enclosed Tot Seat With Chain And Hardware.....	567.94	24.02
11 68 13 00-0112 EA Bucket Seat With Chain And Hardware.....	472.15	19.97
11 68 13 00-0113 EA Belt Seat With Chain And Hardware.....	502.94	21.33
11 68 13 00-0114 EA Seat With Chain And Hardware.....	496.10	21.01
11 68 13 00-0115 EA Wide Seat With Chain And Hardware.....	523.67	22.20
11 68 13 00-0116 EA Handi Seat With Chain And Hardware.....	1,563.56	66.20
11 68 13 00-0117 LF 0.4 LB/LF Replacement Chain.....	6.49	0.47
11 68 13 00-0118 LF 1 LB/LF Replacement Chain.....	12.07	0.95
11 68 13 00-0119 EA Swing Hanger Replacement.....	70.52	5.47
11 68 23 Exterior Court Athletic Equipment <small>(11 68)</small>		
11 68 23 13 Exterior Basketball Equipment <small>(11 68 23)</small>		
11 68 23 13-0001 Basketball Systems <small>(11 68 23 13)</small>		
See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
11 68 23 13-0002 EA 4-1/2" Bent Post Galvanized Steel Pole With 4' Extension, Aluminum Backboard, Double Rim Goal And Steel Net Basketball System (Sportsplay 541-616).....	2,274.63	250.17
11 68 23 13-0003 EA 5-9/16" Bent Post Galvanized Steel Pole With 6' Extension Style, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00176-230).....	3,666.92	275.18
<i>For Fan Shaped Fiberglass Backboard, Deduct</i>	-133.00	
<i>For 42" x 72" Perforated Steel Backboard, Add</i>	350.00	
11 68 23 13-0004 EA 4-1/2" Galvanized Steel Pole With 4' Extension, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00164-230).....	2,403.86	250.17
<i>For Fan Shaped Fiberglass Backboard, Deduct</i>	-133.00	
<i>For 42" x 72" Perforated Steel Backboard, Add</i>	350.00	
11 68 23 13-0005 EA 5-9/16" Galvanized Steel Pole With 6' Extension, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00166-230).....	3,666.92	275.18
<i>For Fan Shaped Fiberglass Backboard, Deduct</i>	-133.00	
<i>For 42" x 72" Perforated Steel Backboard, Add</i>	350.00	
11 68 23 13-0006 EA Back To Back 6" Galvanized Steel Pole With 5' Extensions, Aluminum Backboards, Double Rim Goals And Nylon Net Double Basketball System (Porter Athletic 195582).....	6,536.97	404.69
<i>For Fan Shaped Fiberglass Backboard, Deduct</i>	-498.00	
<i>For 42" x 72" Perforated Steel Backboard, Add</i>	700.00	
11 68 23 13-0007 Basketball Components <small>(11 68 23 13)</small>		
See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
11 68 23 13-0008 EA Anti-Whip, Nylon Cord Basketball Net (Porter Athletic 09608-120).....	28.11	7.98
11 68 23 13-0009 EA Chain Basketball Net (Porter Athletic 00161-000).....	49.55	7.98
11 68 23 13-0010 EA Heavy Duty Goal Ring (Porter Athletic 00235-000).....	113.59	39.88
11 68 23 13-0011 EA Goal Ring For Steel Net (Porter Athletic 00251-H00).....	204.94	17.95
11 68 23 13-0012 EA 42" x 72" Rectangular Fully Tempered Glass Basketball Backboard With Steel Frame (Porter Athletic 00204-000)..... Note: Includes perimeter and target markings. Excludes pole and goal.	1,180.74	33.90
11 68 23 13-0013 EA 42" x 72" Rectangular 11 Gauge Perforated Steel Basketball Backboard (Porter Athletic 01207-300)..... Note: Includes perimeter and target markings. Excludes pole and goal.	1,516.74	33.90
11 68 23 13-0014 EA 54" x 39" Fan Shaped Cast Aluminum Basketball Backboard (Porter Athletic 00234-300).....	773.76	29.91
Note: Includes perimeter and target markings. Excludes pole and goal.		
11 68 23 13-0015 EA 54" x 39" Fan Shaped Fiberglass Basketball Backboard (Porter Athletic 00267-000)..... Note: Includes perimeter and target markings. Excludes pole and goal.	846.26	29.91

11	11	Equipment
	11 60	Entertainment and Recreation Equipment
	11 68	Play Field Equipment and Structures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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11 68 23 33 Tennis Equipment (11 68 23)

11 68 23 33-0001	Tennis Court Net Posts <small>(11 68 23 33)</small>		
11 68 23 33-0002	PR Round, Powder Coated Steel, Tennis Court Net Posts With External Winder	1,015.43	135.62
11 68 23 33-0003	PR Round, Powder Coated Steel, Tennis Court Net Posts With Internal Brass Winder	1,302.26	135.62
11 68 23 33-0004	PR Square, Powder Coated Steel, Tennis Court Net Posts With Internal Brass Winder	1,350.07	135.62
11 68 23 33-0005	PR Round, Powder Coated Aluminum, Tennis Court Net Posts With External Winder	1,432.74	135.62
11 68 23 33-0006	PR Round, Powder Coated Aluminum, Tennis Court Net Posts With Internal Winder	1,727.09	135.62
11 68 23 33-0007	PR Polyvinyl Chloride (PVC) Ground Sleeves For Tennis Court Net Posts.....	252.77	
11 68 23 33-0008	PR Galvanized Steel Ground Sleeves For Tennis Court Net Posts.....	288.51	

11 68 23 33-0009 Tennis Court Nets (11 68 23 33)

11 68 23 33-0010	EA 42' Length, Single Top, Vinyl Headband, Polyethylene Net Body, Tennis Court Net.....	558.55	134.03
11 68 23 33-0011	EA 42' Length, Double Top, Vinyl Headband, Polyethylene Net Body, Tennis Court Net	615.60	134.03
11 68 23 33-0012	EA 42' Length, Anti-Vandal, Aluminum Coated Flexible Steel Mesh, Tennis Court Net	1,345.30	206.23
11 68 23 33-0013	EA Galvanized Steel Anchor For Tennis Court Net Center Strap.....	71.64	

11 68 33 Athletic Field Equipment (11 68)

11 68 33 13 Football Field Equipment (11 68 33)

11 68 33 13-0001	Football Goal Posts <small>(11 68 33 13)</small>		
	Note: Includes augering for post(s), set in concrete and backfill.		
11 68 33 13-0002	PR Double Steel Football Goal Posts, "H Shape".....	4,733.57	358.91
11 68 33 13-0003	PR Vertical Style Goal Post, Single In Ground Mounting, Steel With 20' Uprights.....	6,908.19	559.06
11 68 33 13-0004	PR Gooseneck (Offset) Style Goal Post, Single In Ground Mounting, Steel, With 20' Uprights.....	8,249.66	670.88

11 68 33 23 Soccer and Field Hockey Equipment (11 68 33)

11 68 33 23-0001	Soccer Goal Posts <small>(11 68 33 23)</small>		
	Note: Includes augering for post(s), set in concrete and backfill.		
11 68 33 23-0002	PR Regulation Soccer Goal Posts	4,459.19	239.34
11 68 33 23-0003	PR Combination Football/Soccer Goal Post	5,352.85	358.91

11 68 33 33 Baseball Field Equipment (11 68 33)

11 68 33 33-0001	Bases <small>(11 68 33 33)</small>		
11 68 33 33-0002	SET Bases For Baseball Or Softball.....	548.70	

11 80 Facility Maintenance and Operation Equipment (11)

11 82 Facility Solid Waste Handling Equipment (11 80)

11 82 19 Packaged Incinerators (11 82)

11 82 19 00-0001	Electric Incinerator <small>(11 82 19)</small>		
11 82 19 00-0002	EA Electric Package Incinerator, 100 LB/Hour	38,280.74	961.63
11 82 19 00-0003	EA Electric Package Incinerator, 400 LB/Hour	78,334.79	1,923.26
11 82 19 00-0004	EA Electric Package Incinerator, 1,000 LB/Hour	265,441.47	2,884.89

11 82 26 Facility Waste Compactors (11 82)

11 82 26 00-0001	110 Volt Compactors <small>(11 82 26)</small>		
11 82 26 00-0002	EA Waste Compactor, 110 Volt At 75 LB/Hour.....	20,842.26	504.00
11 82 26 00-0003	EA Waste Compactor, 110 Volt At 250 LB/Hour.....	26,061.62	1,209.59

11 82 26 00-0004 230 Volt Compactors (11 82 26)

11 82 26 00-0005	EA Waste Compactor, 230 Volt At 600 LB/Hour Hand Fed	25,893.22	1,612.79
11 82 26 00-0006	EA Waste Compactor, 230 Volt At 600 LB/Hour Chute Fed	29,108.91	2,116.79

11 82 26 00-0007 Trash Compactors (11 82 26)

11 82 26 00-0008	EA Trash Compactor, Small	3,770.39	279.54
11 82 26 00-0009	EA Trash Compactor, Large	4,652.19	316.34

END OF SECTION 11



Special Construction	13
Integrated Construction	13 40
Facility Protection	13 47

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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13 Special Construction

13 40 Integrated Construction ⁽¹³⁾

13 47 Facility Protection ^(13 40)

13 47 13 Cathodic Protection ^(13 47)

13 47 13 13 Cathodic Protection for Underground and Submerged Piping ^(13 47 13)

13 47 13 13-0001	EA	Anodes ^(13 47 13 13)		
13 47 13 13-0002	EA	Magnesium Type, Conventional ^(13 47 13 13-0001)		
13 47 13 13-0003	EA	9 LB Magnesium Type Anodes.....	367.90	161.64
13 47 13 13-0004	EA	17 LB Magnesium Type Anodes.....	545.33	233.62
13 47 13 13-0005	EA	32 LB Magnesium Type Anode.....	743.03	300.54
13 47 13 13-0006	EA	48 LB Magnesium Type Anode.....	1,057.40	420.52
13 47 13 13-0007	EA	Graphite Type ^(13 47 13 13-0001) Note: Includes epoxy cap.		
13 47 13 13-0008	EA	3" x 60" (32 LB) Graphite Type Anodes With Epoxy Cap	534.73	219.79
13 47 13 13-0009	EA	4" x 80" (68 LB) Graphite Type Anodes With Epoxy Cap	833.64	306.91
13 47 13 13-0010	EA	6" x 36" (45 LB) Graphite Type Anodes With Epoxy Cap	627.83	192.07
13 47 13 13-0011	EA	6" x 72" (80 LB) Graphite Type Anodes With Epoxy Cap	962.63	256.42
13 47 13 13-0012	EA	High Silicon Cast Iron Type ^(13 47 13 13-0001)		
13 47 13 13-0013	EA	2.66" x 84" High Silicon Cast Iron Anode, 70 LB	1,930.88	306.91
13 47 13 13-0014	EA	Metal Oxide Type ^(13 47 13 13-0001)		
13 47 13 13-0015	EA	1" x 60" Mixed Metal Oxide Anode, 5 LB	985.38	161.64
		Note: Includes center connected #8 HMWPE/HALAR Lead wire.		
13 47 13 13-0016	EA	Rectifiers ^(13 47 13 13)		
13 47 13 13-0017	EA	Air Cooled, Silicon Type ^(13 47 13 13-0016)		
13 47 13 13-0018	EA	Air Cooled Rectifiers, 28 Volt, 10 Amperes, Silicon Type	2,067.84	312.12
13 47 13 13-0019	EA	Air Cooled Rectifiers, 20 Volt / 20 Amperes, Silicon Type	2,247.93	312.12
13 47 13 13-0020	EA	Oil Immersed, Silicon Type ^(13 47 13 13-0016)		
13 47 13 13-0021	EA	Oil Immersed Rectifiers, 28 Volt, 10 Amperes, Silicon Type.....	3,164.43	360.88
13 47 13 13-0022	EA	Oil Immersed Rectifiers, 20 Volt / 20 Amperes, Silicon Type.....	3,357.38	360.88
13 47 13 13-0023	EA	Anode Backfill ^(13 47 13 13)		
13 47 13 13-0024	LB	Anode Backfill, Coke Breeze	1.04	0.39
13 47 13 13-0025	MLF	Cathodic Protection Cable ^(13 47 13 13)		
13 47 13 13-0026	MLF	Cathodic Protection Cable, OR2 - No 8	2,050.01	768.28
13 47 13 13-0027	MLF	Cathodic Protection Cable, OR2 - No 6	2,277.62	768.28
13 47 13 13-0028	MLF	Cathodic Protection Cable, OR2 - No 4	2,619.04	768.28
13 47 13 13-0029	MLF	Cathodic Protection Cable, OR2 - No 2	3,188.08	768.28
13 47 13 13-0030	MLF	Cathodic Protection Cable, OR2 - No 1	3,966.11	846.49
13 47 13 13-0031	MLF	Cathodic Protection Cable, OR2-No 1/0	4,392.88	846.49
13 47 13 13-0032	MLF	Cathodic Protection Cable, OR2-No 2/0	5,104.17	846.49
13 47 13 13-0033	MLF	Cathodic Protection Cable, OR2-No 4/0	6,963.08	922.72
13 47 13 13-0034	EA	Cathodic Test Stations ^(13 47 13 13)		
13 47 13 13-0035	EA	Flush Curb Box Type With Lockable Cover And Terminal Box ^(13 47 13 13-0034)		
13 47 13 13-0036	EA	Cathodic Test Station, Flush Curb Type With Lockable Cover	275.16	89.95
13 47 13 16	EA	Cathodic Protection for Underground Storage Tanks ^(13 47 13) See CSI section 13 47 13 13-0000 for cathodic protection for tanks.		

END OF SECTION 13

13 Special Construction

13 40 Integrated Construction

13 47 Facility Protection



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 Plumbing

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise.

22 05 Common Work Results for Plumbing ⁽²²⁾

22 05 23 General-Duty Valves for Plumbing Piping ^(22 05)

22 05 23 00-0001 Earthquake-Sensitive Gas Shut-Off Valve ^(22 05 23)

22 05 23 00-0002 0.5 PSI Threaded Earthquake Gas Shutoff Valves ^(22 05 23 00-0001)

22 05 23 00-0003	EA 3/4" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve.....	162.74	12.24
22 05 23 00-0004	EA 1" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve.....	184.47	13.91

22 05 23 00-0005 7 PSI Threaded Earthquake Gas Shutoff Valves ^(22 05 23 00-0001)

22 05 23 00-0006	EA 1-1/4" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve.....	215.83	14.80
22 05 23 00-0007	EA 1-1/2" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve.....	290.19	17.13

22 05 23 00-0008 60 PSI Threaded Earthquake Gas Shutoff Valves ^(22 05 23 00-0001)

22 05 23 00-0009	EA 3/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	200.51	12.24
22 05 23 00-0010	EA 1" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	210.70	13.91
22 05 23 00-0011	EA 1-1/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	236.82	14.80
22 05 23 00-0012	EA 1-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	321.67	17.13
22 05 23 00-0013	EA 2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	730.68	20.25
22 05 23 00-0014	EA 2-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	870.59	27.26
22 05 23 00-0015	EA 3" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	1,128.16	31.76
22 05 23 00-0016	EA 4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	1,307.23	35.86

22 05 23 00-0017 60 PSI Flanged Earthquake Gas Shutoff Valves ^(22 05 23 00-0001)

22 05 23 00-0018	EA 2" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,024.82	148.33
22 05 23 00-0019	EA 3" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,261.98	174.21
22 05 23 00-0020	EA 4" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,782.40	292.04
22 05 23 00-0021	EA 6" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	2,899.05	345.51
22 05 23 00-0022	EA 8" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	7,787.89	441.48

22 05 23 00-0023 Regulators, Clay Valve ^(22 05 23)

22 05 23 00-0024	EA 4" Regulator - Clay Valve.....	1,850.14	
22 05 23 00-0025	EA 8" Regulator - Clay Valve.....	2,512.43	
22 05 23 00-0026	EA 10" Regulator - Clay Valve.....	3,454.49	
22 05 23 00-0027	EA 12" Regulator - Clay Valve.....	4,228.08	
22 05 23 00-0028	EA 18" Regulator - Clay Valve.....	7,194.29	
22 05 23 00-0029	EA 24" Regulator - Clay Valve.....	11,593.00	

22 05 76 Facility Drainage Piping Cleanouts ^(22 05)

22 05 76 00-0001 Cast Iron Cleanout With Plug And Cover ^(22 05 76)

Note: For floor installation.

22 05 76 00-0002 Cast Iron Cleanout With Plug And Round Or Square Cover ^(22 05 76 00-0001)

22 05 76 00-0003	EA 2" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	669.95	59.20
	For Vandal Proof, Add	19.50	
	For Galvanized Ferrule, Add	45.00	
	For Carpet Marker, Add	16.00	
	For Carpet Flange, Add	58.50	
	For Wide Flange, Add	97.00	
	For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0004	EA 3" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	722.87	74.22
	For Vandal Proof, Add	19.50	
	For Galvanized Ferrule, Add	45.00	
	For Carpet Marker, Add	16.00	
	For Carpet Flange, Add	58.50	
	For Wide Flange, Add	97.00	
	For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0005	EA 4" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	902.92	89.69
	For Vandal Proof, Add	19.50	
	For Galvanized Ferrule, Add	45.00	
	For Carpet Marker, Add	16.00	
	For Carpet Flange, Add	58.50	
	For Wide Flange, Add	97.00	
	For Satin Bronze Top, Deduct	-24.00	

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0006 EA 5" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,298.91	100.37
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0007 EA 6" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,600.42	108.71
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0008 Cast Iron Heavy Duty Cleanout With Plug And Round Cover (22 05 76 00-0001)		
22 05 76 00-0009 EA 2" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	773.07	59.20
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0010 EA 3" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	827.54	74.11
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0011 EA 4" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,007.67	89.69
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0012 EA 5" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,403.71	100.37
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0013 EA 6" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,705.14	108.71
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0014 Wall Cover For Cleanout (22 05 76)		
Note: Cover and screw only.		
22 05 76 00-0015 Round Access Cover, Bronze Polished Top (22 05 76 00-0014)		
Note: Cover and screw only.		
22 05 76 00-0016 EA 4-1/4" Diameter Wall Cover For Cleanout, Screwed.....	99.29	18.58
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0017 EA 5-1/2" Diameter Wall Cover For Cleanout, Screwed.....	106.71	22.26
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0018 EA 7" Diameter Wall Cover For Cleanout, Screwed.....	136.83	25.04
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0019 EA 9-1/4" Diameter Wall Cover For Cleanout, Screwed.....	234.04	27.82
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0020 EA 11-1/4" Diameter Wall Cover For Cleanout, Screwed.....	354.19	30.60
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0021 Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014)		
Note: Cover and screw only.		
22 05 76 00-0022 EA 7" x 7" Bronze Wall Or Floor Access Cover.....	535.78	18.58
For Vandal Proof Screws, Add	19.50	
For Nickel Bronze, Add	22.50	
22 05 76 00-0023 EA 9" x 9" Bronze Wall Or Floor Access Cover.....	773.13	19.47
For Vandal Proof Screws, Add	19.50	
For Nickel Bronze, Add	22.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0024 EA 10" x 10" Bronze Wall Or Floor Access Cover <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	826.15 19.50 22.50	20.59
22 05 76 00-0025 EA 14" x 14" Bronze Wall Or Floor Access Cover <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	924.05 19.50 22.50	23.37
22 05 76 00-0026 Secured Square Wall Access Panel, Bronze Polished Top <small>(22 05 76 00-0014)</small> Note: Cover and screw only.		
22 05 76 00-0027 EA 6" x 6" Bronze Secured Wall Access Panel <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	545.53 19.50 22.50	18.58
22 05 76 00-0028 EA 8" x 8" Bronze Secured Wall Access Panel <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	787.49 19.50 22.50	19.47
22 05 76 00-0029 EA 10" x 10" Bronze Secured Wall Access Panel <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	841.50 19.50 22.50	20.59
22 05 76 00-0030 EA 12" x 12" Bronze Secured Wall Access Panel <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	941.21 19.50 22.50	23.37
22 05 76 00-0031 Secure Square Hinged Access Panel, Bronze Polished Top, Scoriated <small>(22 05 76 00-0014)</small> Note: Cover and screw only.		
22 05 76 00-0032 EA 6" x 6" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	529.06 19.50 22.50	18.58
22 05 76 00-0033 EA 8" x 8" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	733.35 19.50 22.50	19.47
22 05 76 00-0034 EA 10" x 10" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	1,041.58 19.50 22.50	20.59
22 05 76 00-0035 EA 12" x 12" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	1,261.34 19.50 22.50	23.37
22 05 76 00-0036 Cast Iron Cleanout Tee <small>(22 05 76)</small>		
22 05 76 00-0037 Cast Iron Cleanout Tee And Round Access Cover <small>(22 05 76 00-0036)</small> Note: Satin smooth secured cover.		
22 05 76 00-0038 EA 2" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	484.51 19.50 88.80	59.20
22 05 76 00-0039 EA 3" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	552.61 19.50 88.80	74.11
22 05 76 00-0040 EA 4" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	722.62 19.50 88.80	89.69
22 05 76 00-0041 EA 6" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,742.63 19.50 88.80	108.71
22 05 76 00-0042 Cast Iron Cleanout Tee And Square Access Cover <small>(22 05 76 00-0036)</small> Note: Satin smooth secured cover.		
22 05 76 00-0043 EA 2" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	850.65 19.50 88.80	59.20
22 05 76 00-0044 EA 3" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	918.75 19.50 88.80	74.11
22 05 76 00-0045 EA 4" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,064.46 19.50 88.80	89.69
22 05 76 00-0046 EA 6" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,237.18 19.50 88.80	108.71
22 05 76 00-0047 Cast Iron Cleanout Tee With Brass Plug <small>(22 05 76 00-0036)</small>		
22 05 76 00-0048 EA 2" Cleanout Tee With Cast Bronze Screw Plug	397.06	48.40
22 05 76 00-0049 EA 3" Cleanout Tee With Cast Bronze Screw Plug	444.14	52.86
22 05 76 00-0050 EA 4" Cleanout Tee With Cast Bronze Screw Plug	592.07	69.55
22 05 76 00-0051 EA 5" Cleanout Tee With Cast Bronze Screw Plug	893.62	82.35
22 05 76 00-0052 EA 6" Cleanout Tee With Cast Bronze Screw Plug	1,531.11	97.36
22 05 76 00-0053 Removable Cleanout Plug <small>(22 05 76)</small>		

22 Plumbing

22 05 Common Work Results for Plumbing

22 05 76 Facility Drainage Piping Cleanouts



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 05 76 00-0054 Threaded Bronze Plugs (22 05 76 00-0053)

22 05 76 00-0055	EA		1-1/4", 1-1/2" Or 2" Threaded Bronze Plug.....	79.39	13.91
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0056	EA		2-1/2" Threaded Bronze Plug.....	95.66	15.14
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0057	EA		3" Threaded Bronze Plug.....	166.80	16.69
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0058	EA		3-1/2" Threaded Bronze Plug.....	186.42	19.47
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0059	EA		4" Threaded Bronze Plug.....	210.70	22.26
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0060	EA		5" Threaded Bronze Plug.....	298.16	25.04
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0061	EA		6" Threaded Bronze Plug.....	441.76	27.82
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0062	EA		8" Threaded Bronze Plug.....	751.38	30.60
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0063	EA		10" Threaded Bronze Plug.....	1,084.47	33.38
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	

22 05 76 00-0064 Threaded Brass Plugs (22 05 76 00-0053)

22 05 76 00-0065	EA		1-1/2" Threaded Brass Plug, Raised Head.....	31.15	13.91
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0066	EA		2" Threaded Brass Plug, Raised Head.....	31.72	13.91
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0067	EA		2-1/2" Threaded Brass Plug, Raised Head.....	34.61	15.13
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0068	EA		3" Threaded Brass Plug, Raised Head.....	39.21	16.69
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0069	EA		3-1/2" Threaded Brass Plug, Raised Head.....	46.35	19.47
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0070	EA		4" Threaded Brass Plug, Raised Head.....	54.53	22.26
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0071	EA		4-1/2" Threaded Brass Plug, Raised Head.....	58.61	23.44
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0072	EA		5" Threaded Brass Plug, Raised Head.....	63.05	25.04
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0073	EA		6" Threaded Brass Plug, Raised Head.....	82.64	27.82
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0074	EA		1-1/2" Threaded Brass Plug, Countersunk Head.....	30.69	13.91
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0075	EA		2" Threaded Brass Plug, Countersunk Head.....	31.33	13.91
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0076	EA		2-1/2" Threaded Brass Plug, Countersunk Head.....	35.87	15.13
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0077	EA		3" Threaded Brass Plug, Countersunk Head.....	39.39	16.69
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0078	EA		3-1/2" Threaded Brass Plug, Countersunk Head.....	45.80	19.47
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0079	EA		4" Threaded Brass Plug, Countersunk Head.....	53.67	22.26
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0080	EA		5" Threaded Brass Plug, Countersunk Head.....	62.58	25.04
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0081	EA		6" Threaded Brass Plug, Countersunk Head.....	75.11	27.82
			<i>For Plug Tapped For Center Screw, Add</i>	9.50	

22 07 Plumbing Insulation (22)

22 07 19 Plumbing Piping Insulation (22 07)

22 07 19 00-0001 Insulation Protective Jacketing (22 07 19)

Note: Jacketing only and to be added to insulation prices when required.

22 07 19 00-0002 Aluminum Insulation Protective Jacketing With Bands (22 07 19 00-0001)

22 07 19 00-0003 Aluminum Roll, Insulation Protective Jacketing With Bands (22 07 19 00-0002)

22 07 19 00-0004	SF		0.006" Aluminum Insulation Jacket With Bands.....	16.27	6.87
22 07 19 00-0005	SF		0.016" Aluminum Insulation Jacket With Bands.....	16.89	6.87

22 07 19 00-0006 16 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)

22 07 19 00-0007	LF		1/2" ID, 0.016" Aluminum Insulation Jacketing.....	8.19	1.95
			<i>For Stucco Embossed, Add</i>	0.00	
			<i>For Corrugated, Add</i>	0.01	
22 07 19 00-0008	LF		3/4" ID, 0.016" Aluminum Insulation Jacketing.....	8.48	1.99
			<i>For Stucco Embossed, Add</i>	0.00	
			<i>For Corrugated, Add</i>	0.01	
22 07 19 00-0009	LF		1" ID, 0.016" Aluminum Insulation Jacketing.....	8.78	2.05
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0010 LF 1-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.10 0.01 0.02	2.10
22 07 19 00-0011 LF 1-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.33 0.01 0.02	2.13
22 07 19 00-0012 LF 1-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.57 0.01 0.02	2.16
22 07 19 00-0013 LF 2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.85 0.01 0.03	2.21
22 07 19 00-0014 LF 2-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.17 0.01 0.03	2.25
22 07 19 00-0015 LF 2-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.48 0.01 0.03	2.30
22 07 19 00-0016 LF 2-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.74 0.01 0.04	2.34
22 07 19 00-0017 LF 3" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.07 0.02 0.04	2.39
22 07 19 00-0018 LF 3-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.40 0.02 0.04	2.44
22 07 19 00-0019 LF 3-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.74 0.02 0.04	2.50
22 07 19 00-0020 LF 3-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.04 0.02 0.05	2.54
22 07 19 00-0021 LF 4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.39 0.02 0.05	2.60
22 07 19 00-0022 LF 4-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.76 0.02 0.05	2.67
22 07 19 00-0023 LF 4-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.16 0.02 0.06	2.73
22 07 19 00-0024 LF 4-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.48 0.02 0.06	2.79
22 07 19 00-0025 LF 5" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.89 0.02 0.06	2.86
22 07 19 00-0026 LF 5-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.33 0.03 0.06	2.94
22 07 19 00-0027 LF 5-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.68 0.03 0.07	3.00
22 07 19 00-0028 LF 5-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.16 0.03 0.07	3.09
22 07 19 00-0029 LF 6" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.63 0.03 0.07	3.18
22 07 19 00-0030 LF 6-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.94 0.03 0.08	3.22
22 07 19 00-0031 LF 6-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.24 0.03 0.08	3.27
22 07 19 00-0032 LF 7" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.76 0.03 0.08	3.35
22 07 19 00-0033 LF 7-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.20 0.03 0.09	3.44
22 07 19 00-0034 LF 7-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.53 0.04 0.09	3.50
22 07 19 00-0035 LF 8" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.99 0.04 0.09	3.56
22 07 19 00-0036 LF 8-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.46 0.04 0.10	3.61
22 07 19 00-0037 LF 9" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.05 0.04 0.11	3.70

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0038 LF 9-1/2" ID, 0.016" Aluminum Insulation Jacketing	19.55	3.77
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.11	
22 07 19 00-0039 LF 10" ID, 0.016" Aluminum Insulation Jacketing.....	20.04	3.84
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	
22 07 19 00-0040 LF 10-1/2" ID, 0.016" Aluminum Insulation Jacketing	20.55	3.90
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	
22 07 19 00-0041 LF 11" ID, 0.0106 Aluminum Insulation Jacketing.....	21.21	4.01
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.13	
22 07 19 00-0042 LF 11-1/2" ID, 0.016" Aluminum Insulation Jacketing	21.76	4.09
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.14	
22 07 19 00-0043 LF 12" ID, 0.016" Aluminum Insulation Jacketing.....	22.29	4.17
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.14	
22 07 19 00-0044 LF 12-1/2" ID, 0.016" Aluminum Insulation Jacketing	23.02	4.29
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.15	
22 07 19 00-0045 LF 13" ID, 0.016" Aluminum Insulation Jacketing.....	23.42	4.34
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.15	
22 07 19 00-0046 LF 14" ID, 0.016" Aluminum Insulation Jacketing.....	24.06	4.38
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.16	
22 07 19 00-0047 LF 15" ID, 0.016" Aluminum Insulation Jacketing.....	24.87	4.47
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.17	
22 07 19 00-0048 LF 16" ID, 0.016" Aluminum Insulation Jacketing.....	25.53	4.52
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.19	
22 07 19 00-0049 LF 17" ID, 0.016" Aluminum Insulation Jacketing.....	26.37	4.61
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.20	
22 07 19 00-0050 LF 18" ID, 0.016" Aluminum Insulation Jacketing.....	26.88	4.66
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.21	
22 07 19 00-0051 LF 19" ID, 0.016" Aluminum Insulation Jacketing.....	27.89	4.78
For Stucco Embossed, Add	0.09	
For Corrugated, Add	0.22	
22 07 19 00-0052 LF 20" ID, 0.016" Aluminum Insulation Jacketing.....	28.57	4.83
For Stucco Embossed, Add	0.09	
For Corrugated, Add	0.23	
22 07 19 00-0053 LF 21" ID, 0.016" Aluminum Insulation Jacketing.....	29.47	4.94
For Stucco Embossed, Add	0.10	
For Corrugated, Add	0.24	
22 07 19 00-0054 LF 22" ID, 0.016" Aluminum Insulation Jacketing.....	30.14	5.00
For Stucco Embossed, Add	0.10	
For Corrugated, Add	0.25	
22 07 19 00-0055 LF 23" ID, 0.016" Aluminum Insulation Jacketing.....	31.09	5.11
For Stucco Embossed, Add	0.11	
For Corrugated, Add	0.27	
22 07 19 00-0056 LF 24" ID, 0.016" Aluminum Insulation Jacketing.....	31.78	5.18
For Stucco Embossed, Add	0.11	
For Corrugated, Add	0.28	
22 07 19 00-0057 20 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)		
22 07 19 00-0058 LF 1/2" ID, 0.020" Aluminum Insulation Jacketing.....	9.06	2.15
For Stucco Embossed, Add	0.00	
For Corrugated, Add	0.01	
22 07 19 00-0059 LF 3/4" ID, 0.020" Aluminum Insulation Jacketing.....	9.40	2.20
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0060 LF 1" ID, 0.020" Aluminum Insulation Jacketing.....	9.77	2.25
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0061 LF 1-1/4" ID, 0.020" Aluminum Insulation Jacketing	10.13	2.31
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0062 LF 1-1/2" ID, 0.020" Aluminum Insulation Jacketing	10.40	2.34
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0063 LF 1-3/4" ID, 0.020" Aluminum Insulation Jacketing	10.69	2.38
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0064 LF 2" ID, 0.020" Aluminum Insulation Jacketing.....	11.03	2.42
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0065 LF 2-1/4" ID, 0.020" Aluminum Insulation Jacketing	11.37	2.47
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0066 LF 2-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.74 0.02 0.04	2.53
22 07 19 00-0067 LF 2-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.05 0.02 0.04	2.57
22 07 19 00-0068 LF 3" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.44 0.02 0.05	2.62
22 07 19 00-0069 LF 3-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.83 0.02 0.05	2.68
22 07 19 00-0070 LF 3-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.21 0.02 0.06	2.75
22 07 19 00-0071 LF 3-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.55 0.02 0.06	2.79
22 07 19 00-0072 LF 4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.97 0.03 0.06	2.86
22 07 19 00-0073 LF 4-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.40 0.03 0.07	2.93
22 07 19 00-0074 LF 4-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.86 0.03 0.07	3.01
22 07 19 00-0075 LF 4-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.23 0.03 0.07	3.06
22 07 19 00-0076 LF 5" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.69 0.03 0.08	3.15
22 07 19 00-0077 LF 5-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.20 0.03 0.08	3.23
22 07 19 00-0078 LF 5-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.61 0.03 0.08	3.30
22 07 19 00-0079 LF 5-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.14 0.04 0.09	3.40
22 07 19 00-0080 LF 6" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.68 0.04 0.09	3.50
22 07 19 00-0081 LF 6-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.04 0.04 0.10	3.56
22 07 19 00-0082 LF 6-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.41 0.04 0.10	3.61
22 07 19 00-0083 LF 7" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.01 0.04 0.11	3.69
22 07 19 00-0084 LF 7-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.50 0.04 0.11	3.78
22 07 19 00-0085 LF 7-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.89 0.05 0.11	3.84
22 07 19 00-0086 LF 8" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.45 0.05 0.12	3.91
22 07 19 00-0087 LF 8-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.98 0.05 0.13	3.97
22 07 19 00-0088 LF 9" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.68 0.05 0.13	4.07
22 07 19 00-0089 LF 9-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.26 0.06 0.14	4.14
22 07 19 00-0090 LF 10" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.85 0.06 0.15	4.22
22 07 19 00-0091 LF 10-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.44 0.06 0.16	4.29
22 07 19 00-0092 LF 11" ID, 0.0106 Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.21 0.07 0.16	4.41
22 07 19 00-0093 LF 11-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.84 0.07 0.17	4.50

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0094	LF		12" ID, 0.020" Aluminum Insulation Jacketing.....	25.49	4.58
			<i>For Stucco Embossed, Add</i>	0.07	
			<i>For Corrugated, Add</i>	0.18	
22 07 19 00-0095	LF		12-1/2" ID, 0.020" Aluminum Insulation Jacketing.....	26.31	4.72
			<i>For Stucco Embossed, Add</i>	0.07	
			<i>For Corrugated, Add</i>	0.19	
22 07 19 00-0096	LF		13" ID, 0.020" Aluminum Insulation Jacketing.....	26.79	4.78
			<i>For Stucco Embossed, Add</i>	0.08	
			<i>For Corrugated, Add</i>	0.19	
22 07 19 00-0097	LF		14" ID, 0.020" Aluminum Insulation Jacketing.....	27.58	4.82
			<i>For Stucco Embossed, Add</i>	0.08	
			<i>For Corrugated, Add</i>	0.21	
22 07 19 00-0098	LF		15" ID, 0.020" Aluminum Insulation Jacketing.....	28.56	4.92
			<i>For Stucco Embossed, Add</i>	0.09	
			<i>For Corrugated, Add</i>	0.22	
22 07 19 00-0099	LF		16" ID, 0.020" Aluminum Insulation Jacketing.....	29.35	4.98
			<i>For Stucco Embossed, Add</i>	0.09	
			<i>For Corrugated, Add</i>	0.24	
22 07 19 00-0100	LF		17" ID, 0.020" Aluminum Insulation Jacketing.....	30.35	5.08
			<i>For Stucco Embossed, Add</i>	0.10	
			<i>For Corrugated, Add</i>	0.25	
22 07 19 00-0101	LF		18" ID, 0.020" Aluminum Insulation Jacketing.....	30.95	5.14
			<i>For Stucco Embossed, Add</i>	0.10	
			<i>For Corrugated, Add</i>	0.26	
22 07 19 00-0102	LF		19" ID, 0.020" Aluminum Insulation Jacketing.....	32.18	5.25
			<i>For Stucco Embossed, Add</i>	0.11	
			<i>For Corrugated, Add</i>	0.28	
22 07 19 00-0103	LF		20" ID, 0.020" Aluminum Insulation Jacketing.....	33.01	5.31
			<i>For Stucco Embossed, Add</i>	0.12	
			<i>For Corrugated, Add</i>	0.29	
22 07 19 00-0104	LF		21" ID, 0.020" Aluminum Insulation Jacketing.....	34.07	5.43
			<i>For Stucco Embossed, Add</i>	0.12	
			<i>For Corrugated, Add</i>	0.31	
22 07 19 00-0105	LF		22" ID, 0.020" Aluminum Insulation Jacketing.....	34.89	5.49
			<i>For Stucco Embossed, Add</i>	0.13	
			<i>For Corrugated, Add</i>	0.32	
22 07 19 00-0106	LF		23" ID, 0.020" Aluminum Insulation Jacketing.....	36.01	5.62
			<i>For Stucco Embossed, Add</i>	0.14	
			<i>For Corrugated, Add</i>	0.34	
22 07 19 00-0107	LF		24" ID, 0.020" Aluminum Insulation Jacketing.....	36.85	5.69
			<i>For Stucco Embossed, Add</i>	0.14	
			<i>For Corrugated, Add</i>	0.35	

22 07 19 00-0108 24 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)

22 07 19 00-0109	LF		1/2" ID, 0.024" Aluminum Insulation Jacketing.....	9.95	2.34
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.01	
22 07 19 00-0110	LF		3/4" ID, 0.024" Aluminum Insulation Jacketing.....	10.34	2.40
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0111	LF		1" ID, 0.024" Aluminum Insulation Jacketing.....	10.73	2.46
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0112	LF		1-1/4" ID, 0.024" Aluminum Insulation Jacketing.....	11.14	2.52
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0113	LF		1-1/2" ID, 0.024" Aluminum Insulation Jacketing.....	11.47	2.55
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0114	LF		1-3/4" ID, 0.024" Aluminum Insulation Jacketing.....	11.79	2.59
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0115	LF		2" ID, 0.024" Aluminum Insulation Jacketing.....	12.17	2.64
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0116	LF		2-1/4" ID, 0.024" Aluminum Insulation Jacketing.....	12.56	2.70
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0117	LF		2-1/2" ID, 0.024" Aluminum Insulation Jacketing.....	12.98	2.76
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0118	LF		2-3/4" ID, 0.024" Aluminum Insulation Jacketing.....	13.34	2.80
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0119	LF		3" ID, 0.024" Aluminum Insulation Jacketing.....	13.78	2.86
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0120	LF		3-1/4" ID, 0.024" Aluminum Insulation Jacketing.....	14.21	2.93
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0121	LF		3-1/2" ID, 0.024" Aluminum Insulation Jacketing.....	14.65	2.99
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0122 LF 3-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.04 0.03 0.07	3.05
22 07 19 00-0123 LF 4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.50 0.03 0.08	3.12
22 07 19 00-0124 LF 4-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.98 0.03 0.08	3.20
22 07 19 00-0125 LF 4-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.50 0.03 0.08	3.28
22 07 19 00-0126 LF 4-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.94 0.04 0.09	3.34
22 07 19 00-0127 LF 5" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.46 0.04 0.09	3.44
22 07 19 00-0128 LF 5-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.00 0.04 0.10	3.53
22 07 19 00-0129 LF 5-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.48 0.04 0.10	3.61
22 07 19 00-0130 LF 5-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.08 0.04 0.11	3.71
22 07 19 00-0131 LF 6" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.69 0.04 0.11	3.82
22 07 19 00-0132 LF 6-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.08 0.05 0.11	3.88
22 07 19 00-0133 LF 6-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.50 0.05 0.12	3.93
22 07 19 00-0134 LF 7" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.18 0.05 0.13	4.03
22 07 19 00-0135 LF 7-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.74 0.05 0.13	4.12
22 07 19 00-0136 LF 7-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.17 0.05 0.14	4.19
22 07 19 00-0137 LF 8" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.82 0.06 0.14	4.26
22 07 19 00-0138 LF 8-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.43 0.06 0.15	4.33
22 07 19 00-0139 LF 9" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.22 0.06 0.16	4.44
22 07 19 00-0140 LF 9-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.89 0.07 0.17	4.52
22 07 19 00-0141 LF 10" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.56 0.07 0.18	4.60
22 07 19 00-0142 LF 10-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.24 0.08 0.19	4.68
22 07 19 00-0143 LF 11" ID, 0.0106 Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.10 0.08 0.20	4.82
22 07 19 00-0144 LF 11-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.82 0.08 0.21	4.91
22 07 19 00-0145 LF 12" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.55 0.09 0.21	5.01
22 07 19 00-0146 LF 12-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.49 0.09 0.22	5.15
22 07 19 00-0147 LF 13" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.05 0.09 0.23	5.21
22 07 19 00-0148 LF 14" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.97 0.10 0.25	5.26
22 07 19 00-0149 LF 15" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.08 0.11 0.27	5.37

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0150	LF		16" ID, 0.024" Aluminum Insulation Jacketing.....	33.02	5.42
			<i>For Stucco Embossed, Add</i>	0.11	
			<i>For Corrugated, Add</i>	0.28	
22 07 19 00-0151	LF		17" ID, 0.024" Aluminum Insulation Jacketing.....	34.16	5.54
			<i>For Stucco Embossed, Add</i>	0.12	
			<i>For Corrugated, Add</i>	0.30	
22 07 19 00-0152	LF		18" ID, 0.024" Aluminum Insulation Jacketing.....	34.88	5.60
			<i>For Stucco Embossed, Add</i>	0.12	
			<i>For Corrugated, Add</i>	0.31	
22 07 19 00-0153	LF		19" ID, 0.024" Aluminum Insulation Jacketing.....	36.29	5.72
			<i>For Stucco Embossed, Add</i>	0.13	
			<i>For Corrugated, Add</i>	0.33	
22 07 19 00-0154	LF		20" ID, 0.024" Aluminum Insulation Jacketing.....	37.26	5.79
			<i>For Stucco Embossed, Add</i>	0.14	
			<i>For Corrugated, Add</i>	0.35	
22 07 19 00-0155	LF		21" ID, 0.024" Aluminum Insulation Jacketing.....	38.47	5.92
			<i>For Stucco Embossed, Add</i>	0.15	
			<i>For Corrugated, Add</i>	0.37	
22 07 19 00-0156	LF		22" ID, 0.024" Aluminum Insulation Jacketing.....	39.43	5.99
			<i>For Stucco Embossed, Add</i>	0.15	
			<i>For Corrugated, Add</i>	0.39	
22 07 19 00-0157	LF		23" ID, 0.024" Aluminum Insulation Jacketing.....	40.71	6.14
			<i>For Stucco Embossed, Add</i>	0.16	
			<i>For Corrugated, Add</i>	0.40	
22 07 19 00-0158	LF		24" ID, 0.024" Aluminum Insulation Jacketing.....	41.68	6.21
			<i>For Stucco Embossed, Add</i>	0.17	
			<i>For Corrugated, Add</i>	0.42	
22 07 19 00-0159			32 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands <small>(22 07 19 00-0002)</small>		
22 07 19 00-0160	LF		1/2" ID, 0.032" Aluminum Insulation Jacketing.....	11.16	2.60
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0161	LF		3/4" ID, 0.032" Aluminum Insulation Jacketing.....	11.63	2.66
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0162	LF		1" ID, 0.032" Aluminum Insulation Jacketing.....	12.11	2.72
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0163	LF		1-1/4" ID, 0.032" Aluminum Insulation Jacketing	12.60	2.79
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0164	LF		1-1/2" ID, 0.032" Aluminum Insulation Jacketing	13.00	2.83
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0165	LF		1-3/4" ID, 0.032" Aluminum Insulation Jacketing	13.39	2.87
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0166	LF		2" ID, 0.032" Aluminum Insulation Jacketing.....	13.87	2.93
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0167	LF		2-1/4" ID, 0.032" Aluminum Insulation Jacketing	14.34	2.99
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0168	LF		2-1/2" ID, 0.032" Aluminum Insulation Jacketing	14.86	3.05
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.07	
22 07 19 00-0169	LF		2-3/4" ID, 0.032" Aluminum Insulation Jacketing	15.28	3.10
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.07	
22 07 19 00-0170	LF		3" ID, 0.032" Aluminum Insulation Jacketing.....	15.81	3.17
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.08	
22 07 19 00-0171	LF		3-1/4" ID, 0.032" Aluminum Insulation Jacketing	16.33	3.24
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.08	
22 07 19 00-0172	LF		3-1/2" ID, 0.032" Aluminum Insulation Jacketing	16.86	3.32
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.09	
22 07 19 00-0173	LF		3-3/4" ID, 0.032" Aluminum Insulation Jacketing	17.33	3.37
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.10	
22 07 19 00-0174	LF		4" ID, 0.032" Aluminum Insulation Jacketing.....	17.88	3.47
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.10	
22 07 19 00-0175	LF		4-1/4" ID, 0.032" Aluminum Insulation Jacketing	18.45	3.55
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.11	
22 07 19 00-0176	LF		4-1/2" ID, 0.032" Aluminum Insulation Jacketing	19.08	3.64
			<i>For Stucco Embossed, Add</i>	0.05	
			<i>For Corrugated, Add</i>	0.11	
22 07 19 00-0177	LF		4-3/4" ID, 0.032" Aluminum Insulation Jacketing	19.59	3.71
			<i>For Stucco Embossed, Add</i>	0.05	
			<i>For Corrugated, Add</i>	0.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0178 LF 5" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.22 0.05 0.12	3.81
22 07 19 00-0179 LF 5-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.87 0.05 0.13	3.91
22 07 19 00-0180 LF 5-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.43 0.05 0.14	3.99
22 07 19 00-0181 LF 5-3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.13 0.06 0.14	4.11
22 07 19 00-0182 LF 6" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.85 0.06 0.15	4.23
22 07 19 00-0183 LF 6-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.34 0.06 0.15	4.29
22 07 19 00-0184 LF 6-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.83 0.06 0.16	4.36
22 07 19 00-0185 LF 7" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.67 0.07 0.17	4.46
22 07 19 00-0186 LF 7-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.32 0.07 0.18	4.57
22 07 19 00-0187 LF 7-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.86 0.07 0.18	4.64
22 07 19 00-0188 LF 8" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.63 0.08 0.19	4.72
22 07 19 00-0189 LF 8-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.39 0.08 0.21	4.80
22 07 19 00-0190 LF 9" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.36 0.09 0.22	4.93
22 07 19 00-0191 LF 9-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.18 0.09 0.23	5.01
22 07 19 00-0192 LF 10" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.00 0.10 0.24	5.10
22 07 19 00-0193 LF 10-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.82 0.10 0.25	5.19
22 07 19 00-0194 LF 11" ID, 0.0106 Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.87 0.11 0.26	5.34
22 07 19 00-0195 LF 11-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.77 0.11 0.28	5.44
22 07 19 00-0196 LF 12" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.64 0.11 0.29	5.54
22 07 19 00-0197 LF 12-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.77 0.12 0.30	5.71
22 07 19 00-0198 LF 13" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.46 0.12 0.31	5.77
22 07 19 00-0199 LF 14" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.64 0.13 0.33	5.82
22 07 19 00-0200 LF 15" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.04 0.14 0.36	5.95
22 07 19 00-0201 LF 16" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.24 0.15 0.38	6.01
22 07 19 00-0202 LF 17" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.67 0.16 0.40	6.15
22 07 19 00-0203 LF 18" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	41.57 0.17 0.42	6.21
22 07 19 00-0204 LF 19" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.36 0.18 0.45	6.35
22 07 19 00-0205 LF 20" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	44.59 0.19 0.47	6.42

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0206 LF 21" ID, 0.032" Aluminum Insulation Jacketing.....	46.08	6.57
For Stucco Embossed, Add	0.20	
For Corrugated, Add	0.50	
22 07 19 00-0207 LF 22" ID, 0.032" Aluminum Insulation Jacketing.....	47.32	6.64
For Stucco Embossed, Add	0.21	
For Corrugated, Add	0.52	
22 07 19 00-0208 LF 23" ID, 0.032" Aluminum Insulation Jacketing.....	48.90	6.80
For Stucco Embossed, Add	0.22	
For Corrugated, Add	0.54	
22 07 19 00-0209 LF 24" ID, 0.032" Aluminum Insulation Jacketing.....	50.13	6.88
For Stucco Embossed, Add	0.23	
For Corrugated, Add	0.57	
22 07 19 00-0210 40 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)		
22 07 19 00-0211 LF 1/2" ID, 0.040" Aluminum Insulation Jacketing.....	12.92	2.98
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0212 LF 3/4" ID, 0.040" Aluminum Insulation Jacketing.....	13.48	3.05
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0213 LF 1" ID, 0.040" Aluminum Insulation Jacketing.....	14.06	3.13
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.04	
22 07 19 00-0214 LF 1-1/4" ID, 0.040" Aluminum Insulation Jacketing	14.64	3.20
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0215 LF 1-1/2" ID, 0.040" Aluminum Insulation Jacketing	15.13	3.25
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0216 LF 1-3/4" ID, 0.040" Aluminum Insulation Jacketing	15.62	3.30
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.06	
22 07 19 00-0217 LF 2" ID, 0.040" Aluminum Insulation Jacketing.....	16.18	3.36
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0218 LF 2-1/4" ID, 0.040" Aluminum Insulation Jacketing	16.75	3.44
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0219 LF 2-1/2" ID, 0.040" Aluminum Insulation Jacketing	17.36	3.52
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0220 LF 2-3/4" ID, 0.040" Aluminum Insulation Jacketing	17.89	3.57
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	
22 07 19 00-0221 LF 3" ID, 0.040" Aluminum Insulation Jacketing.....	18.52	3.65
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0222 LF 3-1/4" ID, 0.040" Aluminum Insulation Jacketing	19.14	3.74
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.11	
22 07 19 00-0223 LF 3-1/2" ID, 0.040" Aluminum Insulation Jacketing	19.78	3.82
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.11	
22 07 19 00-0224 LF 3-3/4" ID, 0.040" Aluminum Insulation Jacketing	20.32	3.89
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	
22 07 19 00-0225 LF 4" ID, 0.040" Aluminum Insulation Jacketing.....	21.00	3.98
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.13	
22 07 19 00-0226 LF 4-1/4" ID, 0.040" Aluminum Insulation Jacketing	21.68	4.08
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.13	
22 07 19 00-0227 LF 4-1/2" ID, 0.040" Aluminum Insulation Jacketing	22.41	4.18
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.14	
22 07 19 00-0228 LF 4-3/4" ID, 0.040" Aluminum Insulation Jacketing	23.04	4.26
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.15	
22 07 19 00-0229 LF 5" ID, 0.040" Aluminum Insulation Jacketing.....	23.78	4.38
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.16	
22 07 19 00-0230 LF 5-1/4" ID, 0.040" Aluminum Insulation Jacketing	24.55	4.50
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.16	
22 07 19 00-0231 LF 5-1/2" ID, 0.040" Aluminum Insulation Jacketing	25.21	4.59
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.17	
22 07 19 00-0232 LF 5-3/4" ID, 0.040" Aluminum Insulation Jacketing	26.07	4.72
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.18	
22 07 19 00-0233 LF 6" ID, 0.040" Aluminum Insulation Jacketing.....	26.91	4.87
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0234 LF 6-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.49 0.08 0.19	4.94
22 07 19 00-0235 LF 6-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.08 0.08 0.20	5.02
22 07 19 00-0236 LF 7" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.09 0.09 0.21	5.13
22 07 19 00-0237 LF 7-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.88 0.09 0.22	5.26
22 07 19 00-0238 LF 7-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.51 0.09 0.23	5.34
22 07 19 00-0239 LF 8" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.44 0.10 0.24	5.43
22 07 19 00-0240 LF 8-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.37 0.10 0.26	5.52
22 07 19 00-0241 LF 9" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.52 0.11 0.27	5.66
22 07 19 00-0242 LF 9-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.52 0.11 0.29	5.76
22 07 19 00-0243 LF 10" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.51 0.12 0.30	5.86
22 07 19 00-0244 LF 10-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.51 0.13 0.32	5.97
22 07 19 00-0245 LF 11" ID, 0.0106 Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.76 0.13 0.33	6.14
22 07 19 00-0246 LF 11-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.83 0.14 0.35	6.26
22 07 19 00-0247 LF 12" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.91 0.14 0.36	6.38
22 07 19 00-0248 LF 12-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	41.24 0.15 0.37	6.57
22 07 19 00-0249 LF 13" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	42.09 0.16 0.39	6.64
22 07 19 00-0250 LF 14" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.55 0.17 0.42	6.70
22 07 19 00-0251 LF 15" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	45.25 0.18 0.45	6.84
22 07 19 00-0252 LF 16" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	46.72 0.19 0.48	6.91
22 07 19 00-0253 LF 17" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	48.47 0.20 0.51	7.06
22 07 19 00-0254 LF 18" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	49.57 0.21 0.53	7.14
22 07 19 00-0255 LF 19" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	51.75 0.23 0.56	7.30
22 07 19 00-0256 LF 20" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	53.27 0.24 0.59	7.38
22 07 19 00-0257 LF 21" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	55.09 0.25 0.62	7.56
22 07 19 00-0258 LF 22" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	56.60 0.26 0.65	7.64
22 07 19 00-0259 LF 23" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	58.51 0.27 0.68	7.82
22 07 19 00-0260 LF 24" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	60.04 0.28 0.71	7.92
22 07 19 00-0261 Aluminum Insulation Protective Jacketing For Fittings (22 07 19 00-0002)		
22 07 19 00-0262 EA 1-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	17.97	3.06



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0263	EA		1-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	18.42	3.18
22 07 19 00-0264	EA		2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	20.40	3.30
22 07 19 00-0265	EA		2-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	20.60	3.35
22 07 19 00-0266	EA		2-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	20.81	3.41
22 07 19 00-0267	EA		2-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	21.14	3.50
22 07 19 00-0268	EA		3" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	22.10	3.58
22 07 19 00-0269	EA		3-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	22.46	3.67
22 07 19 00-0270	EA		3-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	24.14	3.74
22 07 19 00-0271	EA		3-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	24.64	3.80
22 07 19 00-0272	EA		4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	25.50	3.90
22 07 19 00-0273	EA		4-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	26.07	3.98
22 07 19 00-0274	EA		4-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	26.36	4.05
22 07 19 00-0275	EA		4-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	26.67	4.13
22 07 19 00-0276	EA		5" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	28.28	4.21
22 07 19 00-0277	EA		5-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	30.39	4.29
22 07 19 00-0278	EA		5-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	34.16	4.42
22 07 19 00-0279	EA		5-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	34.53	4.52
22 07 19 00-0280	EA		6" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	32.71	4.66
22 07 19 00-0281	EA		6-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	33.12	4.78
22 07 19 00-0282	EA		6-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	36.65	4.94
22 07 19 00-0283	EA		7" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	40.72	5.05
22 07 19 00-0284	EA		7-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	40.96	5.11
22 07 19 00-0285	EA		7-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	50.86	5.18
22 07 19 00-0286	EA		8" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	43.43	5.24
22 07 19 00-0287	EA		8-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	63.03	5.37
22 07 19 00-0288	EA		9" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	63.58	5.50
22 07 19 00-0289	EA		9-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	52.87	5.58
22 07 19 00-0290	EA		10" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	53.17	5.65
22 07 19 00-0291	EA		10-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	54.13	5.72
22 07 19 00-0292	EA		11" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	54.44	5.80
22 07 19 00-0293	EA		11-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	59.36	5.96
22 07 19 00-0294	EA		12" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	59.69	6.04
22 07 19 00-0295	EA		12-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	88.09	6.23
22 07 19 00-0296	EA		13" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	88.46	6.32
22 07 19 00-0297	EA		14" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	110.77	6.51
22 07 19 00-0298	EA		15" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	115.44	6.71
22 07 19 00-0299	EA		16" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	123.91	6.82
22 07 19 00-0300	EA		2-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	19.56	3.41
22 07 19 00-0301	EA		2-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	19.89	3.50
22 07 19 00-0302	EA		3" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	21.02	3.58
22 07 19 00-0303	EA		3-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	21.38	3.67
22 07 19 00-0304	EA		3-1/2" ID Aluminum 45 Degree Elbow Insulation Jacketing.....	22.58	3.74
22 07 19 00-0305	EA		3-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	22.84	3.80
22 07 19 00-0306	EA		4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	23.39	3.90
22 07 19 00-0307	EA		4-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	24.78	3.98
22 07 19 00-0308	EA		4-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	25.07	4.05
22 07 19 00-0309	EA		4-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	25.38	4.13
22 07 19 00-0310	EA		5" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	27.24	4.21
22 07 19 00-0311	EA		5-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	27.59	4.29
22 07 19 00-0312	EA		5-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	28.63	4.42
22 07 19 00-0313	EA		6" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	29.59	4.66
22 07 19 00-0314	EA		6-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	34.83	4.94
22 07 19 00-0315	EA		7" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	35.29	5.05
22 07 19 00-0316	EA		7-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	35.91	5.18
22 07 19 00-0317	EA		8" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	36.16	5.24
22 07 19 00-0318	EA		8-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	40.40	5.37
22 07 19 00-0319	EA		9" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	40.95	5.50
22 07 19 00-0320	EA		9-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	48.57	5.58
22 07 19 00-0321	EA		10" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	48.87	5.65
22 07 19 00-0322	EA		10-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	47.47	5.72
22 07 19 00-0323	EA		11" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	47.78	5.80
22 07 19 00-0324	EA		11-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	53.38	5.96
22 07 19 00-0325	EA		12" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	53.71	6.04
22 07 19 00-0326	EA		13" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	59.91	6.32
22 07 19 00-0327	EA		14" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	68.54	6.51
22 07 19 00-0328	EA		15" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	92.34	6.71
22 07 19 00-0329	EA		16" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	98.27	6.82
22 07 19 00-0330	EA		17" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	97.04	6.92
22 07 19 00-0331	EA		18" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	107.25	7.04
22 07 19 00-0332	EA		19" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	125.24	7.15
22 07 19 00-0333	EA		20" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	122.54	7.27
22 07 19 00-0334	EA		21" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	130.48	7.40
22 07 19 00-0335	EA		2-1/2" ID, Aluminum Tee Insulation Jacketing.....	60.23	4.88
22 07 19 00-0336	EA		2-3/4" ID, Aluminum Tee Insulation Jacketing.....	60.69	5.00
22 07 19 00-0337	EA		3" ID, Aluminum Tee Insulation Jacketing.....	66.45	5.11
22 07 19 00-0338	EA		3-1/4" ID, Aluminum Tee Insulation Jacketing.....	66.94	5.24
22 07 19 00-0339	EA		3-1/2" ID Aluminum Tee Insulation Jacketing.....	69.68	5.37
22 07 19 00-0340	EA		4" ID, Aluminum Tee Insulation Jacketing.....	70.75	5.50
22 07 19 00-0341	EA		4-1/4" ID, Aluminum Tee Insulation Jacketing.....	74.14	5.65
22 07 19 00-0342	EA		4-1/2" ID, Aluminum Tee Insulation Jacketing.....	74.32	5.80
22 07 19 00-0343	EA		4-3/4" ID, Aluminum Tee Insulation Jacketing.....	74.97	5.96



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0344	EA		5" ID, Aluminum Tee Insulation Jacketing	77.56	6.14
22 07 19 00-0345	EA		5-1/4" ID, Aluminum Tee Insulation Jacketing	78.28	6.32
22 07 19 00-0346	EA		5-1/2" ID, Aluminum Tee Insulation Jacketing	81.39	6.51
22 07 19 00-0347	EA		6" ID, Aluminum Tee Insulation Jacketing	82.21	6.71
22 07 19 00-0348	EA		6-1/2" ID, Aluminum Tee Insulation Jacketing	89.45	7.15
22 07 19 00-0349	EA		7" ID, Aluminum Tee Insulation Jacketing	90.44	7.40
22 07 19 00-0350	EA		7-1/2" ID, Aluminum Tee Insulation Jacketing	98.31	7.67
22 07 19 00-0351	EA		8" ID, Aluminum Tee Insulation Jacketing	99.44	7.95
22 07 19 00-0352	EA		8-1/2" ID, Aluminum Tee Insulation Jacketing	102.45	8.26
22 07 19 00-0353	EA		9" ID, Aluminum Tee Insulation Jacketing	103.77	8.58
22 07 19 00-0354	EA		9-1/2" ID, Aluminum Tee Insulation Jacketing	86.57	8.76
22 07 19 00-0355	EA		10" ID, Aluminum Tee Insulation Jacketing	87.30	8.95
22 07 19 00-0356	EA		10-1/2" ID, Aluminum Tee Insulation Jacketing	91.43	9.14
22 07 19 00-0357	EA		11" ID, Aluminum Tee Insulation Jacketing	92.22	9.34
22 07 19 00-0358	EA		11-1/2" ID, Aluminum Tee Insulation Jacketing	96.04	9.54
22 07 19 00-0359	EA		12" ID, Aluminum Tee Insulation Jacketing	96.91	9.76
22 07 19 00-0360	EA		13" ID, Aluminum Tee Insulation Jacketing	100.69	9.98
22 07 19 00-0361	EA		14" ID, Aluminum Tee Insulation Jacketing	104.62	10.23
22 07 19 00-0362	EA		15" ID, Aluminum Tee Insulation Jacketing	110.82	10.48
22 07 19 00-0363	EA		16" ID, Aluminum Tee Insulation Jacketing	113.60	10.74
22 07 19 00-0364	EA		17" ID, Aluminum Tee Insulation Jacketing	125.28	11.01
22 07 19 00-0365	EA		18" ID, Aluminum Tee Insulation Jacketing	129.60	11.30
22 07 19 00-0366	EA		19" ID, Aluminum Tee Insulation Jacketing	139.75	11.61
22 07 19 00-0367	EA		20" ID, Aluminum Tee Insulation Jacketing	143.08	11.93
22 07 19 00-0368	EA		22" ID, Aluminum Tee Insulation Jacketing	170.39	12.27
22 07 19 00-0369	EA		23" ID, Aluminum Tee Insulation Jacketing	175.20	12.63
22 07 19 00-0370	EA		24" ID, Aluminum Tee Insulation Jacketing	183.35	13.85
22 07 19 00-0371			Stainless Steel Insulation Protective Jacketing With Bands (22 07 19 00-0001)		
22 07 19 00-0372			Type 304 Stainless Steel Roll, Insulation Protective Jacketing With Bands (22 07 19 00-0371)		
22 07 19 00-0373	SF		0.010" Stainless Steel Insulation Jacket With Bands	19.92	8.05
22 07 19 00-0374	SF		0.016" Stainless Steel Insulation Jacket With Bands	24.41	9.66
22 07 19 00-0375			10 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0371)		
22 07 19 00-0376	LF		2-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	10.47	1.71
22 07 19 00-0377	LF		2-3/4" ID, 0.010" Stainless Steel Insulation Jacketing	10.93	1.75
22 07 19 00-0378	LF		3" ID, 0.010" Stainless Steel Insulation Jacketing	11.38	1.79
22 07 19 00-0379	LF		3-1/4" ID, 0.010" Stainless Steel Insulation Jacketing	11.87	1.82
22 07 19 00-0380	LF		3-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	12.35	1.86
22 07 19 00-0381	LF		3-3/4" ID, 0.010" Stainless Steel Insulation Jacketing	12.84	1.90
22 07 19 00-0382	LF		4" ID, 0.010" Stainless Steel Insulation Jacketing	13.33	1.95
22 07 19 00-0383	LF		4-1/4" ID, 0.010" Stainless Steel Insulation Jacketing	13.83	1.99
22 07 19 00-0384	LF		4-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	14.33	2.05
22 07 19 00-0385	LF		5" ID, 0.010" Stainless Steel Insulation Jacketing	15.38	2.15
22 07 19 00-0386	LF		5-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	16.48	2.26
22 07 19 00-0387	LF		6" ID, 0.010" Stainless Steel Insulation Jacketing	17.61	2.39
22 07 19 00-0388	LF		6-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	18.52	2.46
22 07 19 00-0389	LF		7" ID, 0.010" Stainless Steel Insulation Jacketing	19.46	2.53
22 07 19 00-0390	LF		7-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	20.47	2.62
22 07 19 00-0391	LF		8" ID, 0.010" Stainless Steel Insulation Jacketing	21.30	2.67
22 07 19 00-0392	LF		8-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	22.14	2.72
22 07 19 00-0393	LF		9" ID, 0.010" Stainless Steel Insulation Jacketing	22.99	2.77
22 07 19 00-0394	LF		9-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	23.85	2.82
22 07 19 00-0395	LF		10" ID, 0.010" Stainless Steel Insulation Jacketing	24.72	2.88
22 07 19 00-0396	LF		10-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	25.60	2.94
22 07 19 00-0397	LF		11" ID, 0.010" Stainless Steel Insulation Jacketing	26.48	3.00
22 07 19 00-0398	LF		12" ID, 0.010" Stainless Steel Insulation Jacketing	28.27	3.13
22 07 19 00-0399	LF		13" ID, 0.010" Stainless Steel Insulation Jacketing	30.05	3.25
22 07 19 00-0400	LF		14" ID, 0.010" Stainless Steel Insulation Jacketing	31.52	3.30
22 07 19 00-0401			16 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0371)		
22 07 19 00-0402	LF		2-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	14.36	2.29
22 07 19 00-0403	LF		2-3/4" ID, 0.016" Stainless Steel Insulation Jacketing	15.01	2.33
22 07 19 00-0404	LF		3" ID, 0.016" Stainless Steel Insulation Jacketing	15.66	2.38
22 07 19 00-0405	LF		3-1/4" ID, 0.016" Stainless Steel Insulation Jacketing	16.34	2.43
22 07 19 00-0406	LF		3-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	17.01	2.48
22 07 19 00-0407	LF		3-3/4" ID, 0.016" Stainless Steel Insulation Jacketing	17.69	2.54
22 07 19 00-0408	LF		4" ID, 0.016" Stainless Steel Insulation Jacketing	18.39	2.60
22 07 19 00-0409	LF		4-1/4" ID, 0.016" Stainless Steel Insulation Jacketing	19.09	2.66
22 07 19 00-0410	LF		4-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	19.80	2.72
22 07 19 00-0411	LF		5" ID, 0.016" Stainless Steel Insulation Jacketing	21.28	2.85
22 07 19 00-0412	LF		5-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	22.81	3.00
22 07 19 00-0413	LF		6" ID, 0.016" Stainless Steel Insulation Jacketing	24.40	3.17
22 07 19 00-0414	LF		6-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	25.69	3.26



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 07 19 00-0415	LF	7" ID, 0.016" Stainless Steel Insulation Jacketing.....	27.01	3.35
22 07 19 00-0416	LF	7-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	28.42	3.49
22 07 19 00-0417	LF	8" ID, 0.016" Stainless Steel Insulation Jacketing.....	29.59	3.55
22 07 19 00-0418	LF	8-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	30.80	3.62
22 07 19 00-0419	LF	9" ID, 0.016" Stainless Steel Insulation Jacketing.....	32.02	3.69
22 07 19 00-0420	LF	9-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	33.23	3.76
22 07 19 00-0421	LF	10" ID, 0.016" Stainless Steel Insulation Jacketing.....	34.45	3.83
22 07 19 00-0422	LF	10-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	35.71	3.91
22 07 19 00-0423	LF	11" ID, 0.0106 Stainless Steel Insulation Jacketing.....	36.96	3.99
22 07 19 00-0424	LF	12" ID, 0.016" Stainless Steel Insulation Jacketing.....	39.49	4.17
22 07 19 00-0425	LF	13" ID, 0.016" Stainless Steel Insulation Jacketing.....	42.00	4.32
22 07 19 00-0426	LF	14" ID, 0.016" Stainless Steel Insulation Jacketing.....	44.10	4.39

22 07 19 00-0427 Type 316 Stainless Steel Insulation Protective Jacketing For Fittings (22 07 19 00-0371)

22 07 19 00-0428	EA	2-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	29.52	3.41
22 07 19 00-0429	EA	2-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	29.85	3.50
22 07 19 00-0430	EA	3" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	30.94	3.58
22 07 19 00-0431	EA	3-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	31.30	3.67
22 07 19 00-0432	EA	3-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	32.40	3.74
22 07 19 00-0433	EA	3-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	33.65	3.80
22 07 19 00-0434	EA	4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	35.90	3.90
22 07 19 00-0435	EA	4-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	42.87	3.98
22 07 19 00-0436	EA	4-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	43.16	4.05
22 07 19 00-0437	EA	5" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	44.41	4.21
22 07 19 00-0438	EA	5-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	58.82	4.42
22 07 19 00-0439	EA	6" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	63.80	4.66
22 07 19 00-0440	EA	6-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	81.86	4.94
22 07 19 00-0441	EA	7" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	82.32	5.05
22 07 19 00-0442	EA	7-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	93.22	5.18
22 07 19 00-0443	EA	8" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	94.00	5.37
22 07 19 00-0444	EA	8-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	96.46	5.37
22 07 19 00-0445	EA	9" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	136.09	5.50
22 07 19 00-0446	EA	9-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	134.38	5.58
22 07 19 00-0447	EA	10" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	134.68	5.65
22 07 19 00-0448	EA	10-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	157.01	5.72
22 07 19 00-0449	EA	11" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	151.22	5.80
22 07 19 00-0450	EA	12" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	169.52	6.04
22 07 19 00-0451	EA	13" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	226.61	6.32
22 07 19 00-0452	EA	14" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	228.74	6.51
22 07 19 00-0453	EA	2-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	26.88	3.41
22 07 19 00-0454	EA	2-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	27.21	3.50
22 07 19 00-0455	EA	3" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	28.57	3.58
22 07 19 00-0456	EA	3-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	28.93	3.67
22 07 19 00-0457	EA	3-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	29.37	3.74
22 07 19 00-0458	EA	3-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	29.63	3.80
22 07 19 00-0459	EA	4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	34.17	3.90
22 07 19 00-0460	EA	4-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	41.95	3.98
22 07 19 00-0461	EA	4-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	42.24	4.05
22 07 19 00-0462	EA	4-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	42.55	4.13
22 07 19 00-0463	EA	5" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	43.32	4.21
22 07 19 00-0464	EA	5-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	44.20	4.42
22 07 19 00-0465	EA	6" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	50.09	4.66
22 07 19 00-0466	EA	6-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	51.17	4.94
22 07 19 00-0467	EA	7" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	73.37	5.05
22 07 19 00-0468	EA	7-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	74.94	5.18
22 07 19 00-0469	EA	8" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	75.19	5.24
22 07 19 00-0470	EA	8-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	84.96	5.37
22 07 19 00-0471	EA	9" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	85.51	5.50
22 07 19 00-0472	EA	9-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	96.84	5.58
22 07 19 00-0473	EA	10" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	97.14	5.65
22 07 19 00-0474	EA	10-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	112.48	5.72
22 07 19 00-0475	EA	11" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	112.79	5.80
22 07 19 00-0476	EA	12" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	121.47	6.04
22 07 19 00-0477	EA	13" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	139.73	6.32

22 07 19 00-0478 Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0001)

22 07 19 00-0479 20 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0478)

22 07 19 00-0480	LF	1-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	7.37	1.59
22 07 19 00-0481	LF	2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	7.95	1.65
22 07 19 00-0482	LF	2-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	8.47	1.71
22 07 19 00-0483	LF	3" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	9.08	1.79
22 07 19 00-0484	LF	3-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	9.65	1.86
22 07 19 00-0485	LF	4" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	10.29	1.95
22 07 19 00-0486	LF	4-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	10.95	2.05
22 07 19 00-0487	LF	5" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	11.60	2.15
22 07 19 00-0488	LF	5-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	12.36	2.26
22 07 19 00-0489	LF	6" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	13.15	2.39
22 07 19 00-0490	LF	6-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	13.72	2.46



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0491	LF	7" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	14.26	2.53
22 07 19 00-0492	LF	7-1/2" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	14.97	2.62
22 07 19 00-0493	LF	8" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	15.42	2.67
22 07 19 00-0494	LF	8-1/2" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	15.91	2.72
22 07 19 00-0495	LF	9" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	16.41	2.77
22 07 19 00-0496	LF	9-1/2" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	16.93	2.82
22 07 19 00-0497	LF	10" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	17.41	2.88
22 07 19 00-0498	LF	10-1/2" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	17.94	2.94
22 07 19 00-0499	LF	11" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	18.48	3.00
22 07 19 00-0500	LF	11-1/2" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	19.03	3.06
22 07 19 00-0501	LF	12" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	19.54	3.13
22 07 19 00-0502	LF	12-1/2" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	20.16	3.20
22 07 19 00-0503	LF	13" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	20.62	3.25
22 07 19 00-0504	LF	13-1/2" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	20.92	3.25
22 07 19 00-0505	LF	14" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	21.41	3.30
22 07 19 00-0506	LF	15" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	22.20	3.35
22 07 19 00-0507	LF	16" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	22.95	3.41
22 07 19 00-0508	LF	17" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	23.76	3.47
22 07 19 00-0509	LF	18" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	24.58	3.52
22 07 19 00-0510	LF	19" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	25.37	3.58
22 07 19 00-0511	LF	20" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	26.19	3.64
22 07 19 00-0512	LF	21" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	26.99	3.70
22 07 19 00-0513	LF	22" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	27.84	3.77
22 07 19 00-0514	LF	23" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	28.64	3.84
22 07 19 00-0515	LF	24" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	29.52	3.90
22 07 19 00-0516	LF	25" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	30.40	3.98
22 07 19 00-0517	LF	26" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	31.24	4.05
22 07 19 00-0518	LF	27" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	32.13	4.13
22 07 19 00-0519	LF	28" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	33.00	4.21
22 07 19 00-0520	LF	29" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	33.94	4.29
22 07 19 00-0521	LF	30" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	34.88	4.38
22 07 19 00-0522 30 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0478)					
22 07 19 00-0523	LF	2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	8.58	1.65
22 07 19 00-0524	LF	2-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	9.26	1.71
22 07 19 00-0525	LF	3" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	10.01	1.79
22 07 19 00-0526	LF	3-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	10.70	1.86
22 07 19 00-0527	LF	4" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	11.46	1.95
22 07 19 00-0528	LF	4-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	12.25	2.05
22 07 19 00-0529	LF	5" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	13.07	2.15
22 07 19 00-0530	LF	5-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	13.95	2.26
22 07 19 00-0531	LF	6" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	14.87	2.39
22 07 19 00-0532	LF	6-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	15.56	2.46
22 07 19 00-0533	LF	7" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	16.27	2.53
22 07 19 00-0534	LF	7-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	17.12	2.62
22 07 19 00-0535	LF	8" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	17.73	2.67
22 07 19 00-0536	LF	8-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	18.35	2.72
22 07 19 00-0537	LF	9" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	18.98	2.77
22 07 19 00-0538	LF	9-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	19.62	2.82
22 07 19 00-0539	LF	10" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	20.27	2.88
22 07 19 00-0540	LF	10-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	20.93	2.94
22 07 19 00-0541	LF	11" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	21.59	3.00
22 07 19 00-0542	LF	11-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	22.27	3.06
22 07 19 00-0543	LF	12" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	22.95	3.13
22 07 19 00-0544	LF	12-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	23.69	3.20
22 07 19 00-0545	LF	13" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	24.32	3.25
22 07 19 00-0546	LF	13-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	24.74	3.25
22 07 19 00-0547	LF	14" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	25.36	3.30
22 07 19 00-0548	LF	15" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	26.40	3.35
22 07 19 00-0549	LF	16" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	27.45	3.41
22 07 19 00-0550	LF	17" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	28.51	3.47
22 07 19 00-0551	LF	18" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	29.62	3.52
22 07 19 00-0552	LF	19" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	30.70	3.58
22 07 19 00-0553	LF	20" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	31.78	3.64
22 07 19 00-0554	LF	21" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	32.87	3.70
22 07 19 00-0555	LF	22" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	33.97	3.77
22 07 19 00-0556	LF	23" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	35.07	3.84
22 07 19 00-0557	LF	24" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	36.20	3.90
22 07 19 00-0558	LF	25" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	37.37	3.98
22 07 19 00-0559	LF	26" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	38.50	4.05
22 07 19 00-0560	LF	27" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	39.65	4.13
22 07 19 00-0561	LF	28" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	40.81	4.21
22 07 19 00-0562	LF	29" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	42.00	4.29
22 07 19 00-0563	LF	30" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	43.19	4.38
22 07 19 00-0564 Polyvinyl Chloride (PVC) Insulation Protective Jacketing For Fittings (22 07 19 00-0478)					
22 07 19 00-0565	EA	1-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	15.03	3.18	
22 07 19 00-0566	EA	2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	16.08	3.30	



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

22 07 19 00-0567	EA	2-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	16.61	3.35
22 07 19 00-0568	EA	2-1/2"ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	17.16	3.41
22 07 19 00-0569	EA	2-3/4"ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	17.78	3.50
22 07 19 00-0570	EA	3" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	18.35	3.58
22 07 19 00-0571	EA	3-3/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	19.39	3.70
22 07 19 00-0572	EA	3-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	20.32	3.80
22 07 19 00-0573	EA	4-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	22.09	3.90
22 07 19 00-0574	EA	4-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	24.17	4.09
22 07 19 00-0575	EA	5-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	26.29	4.29
22 07 19 00-0576	EA	5-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	30.09	4.52
22 07 19 00-0577	EA	6-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	39.11	4.78
22 07 19 00-0578	EA	6-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	40.83	4.94
22 07 19 00-0579	EA	7-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	46.63	5.05
22 07 19 00-0580	EA	7-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	48.41	5.18
22 07 19 00-0581	EA	8-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	57.13	5.37
22 07 19 00-0582	EA	9-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	69.93	5.58
22 07 19 00-0583	EA	10-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	76.38	5.80
22 07 19 00-0584	EA	11-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	85.13	6.04
22 07 19 00-0585	EA	12-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	102.20	6.32
22 07 19 00-0586	EA	14-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	113.97	6.51
22 07 19 00-0587	EA	15-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	121.34	6.71
22 07 19 00-0588	EA	16-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	130.41	6.82
22 07 19 00-0589	EA	17-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	142.15	6.92
22 07 19 00-0590	EA	18-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	175.79	7.04
22 07 19 00-0591	EA	19-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	229.05	7.15
22 07 19 00-0592	EA	20-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	286.70	7.27
22 07 19 00-0593	EA	1-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	15.03	3.18
22 07 19 00-0594	EA	2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	16.08	3.30
22 07 19 00-0595	EA	2-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	16.61	3.35
22 07 19 00-0596	EA	2-1/2"ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	17.16	3.41
22 07 19 00-0597	EA	2-3/4"ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	17.78	3.50
22 07 19 00-0598	EA	3" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	18.35	3.58
22 07 19 00-0599	EA	3-3/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	19.39	3.70
22 07 19 00-0600	EA	3-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	20.32	3.80
22 07 19 00-0601	EA	4-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	22.09	3.90
22 07 19 00-0602	EA	4-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	24.17	4.09
22 07 19 00-0603	EA	5-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	26.29	4.29
22 07 19 00-0604	EA	5-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	30.09	4.52
22 07 19 00-0605	EA	6-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	39.11	4.78
22 07 19 00-0606	EA	6-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	40.83	4.94
22 07 19 00-0607	EA	7-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	46.63	5.05
22 07 19 00-0608	EA	7-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	48.41	5.18
22 07 19 00-0609	EA	8-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	57.13	5.37
22 07 19 00-0610	EA	9-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	69.93	5.58
22 07 19 00-0611	EA	10-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	76.34	5.80
22 07 19 00-0612	EA	11-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	82.78	6.04
22 07 19 00-0613	EA	12-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	90.65	6.32
22 07 19 00-0614	EA	14-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	100.74	6.51
22 07 19 00-0615	EA	15-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	107.02	6.71
22 07 19 00-0616	EA	16-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	118.82	6.82
22 07 19 00-0617	EA	17-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	130.81	6.92
22 07 19 00-0618	EA	18-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	154.16	7.04
22 07 19 00-0619	EA	19-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	200.49	7.15
22 07 19 00-0620	EA	20-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	223.78	7.27
22 07 19 00-0621	EA	1-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	22.26	4.47
22 07 19 00-0622	EA	2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	23.23	4.56
22 07 19 00-0623	EA	2-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	24.26	4.71
22 07 19 00-0624	EA	2-1/2"ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	25.39	4.88
22 07 19 00-0625	EA	2-3/4"ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	26.68	5.05
22 07 19 00-0626	EA	3" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	27.95	5.24
22 07 19 00-0627	EA	3-3/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	29.80	5.44
22 07 19 00-0628	EA	3-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	31.76	5.65
22 07 19 00-0629	EA	4-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	34.37	5.88
22 07 19 00-0630	EA	4-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	38.02	6.14
22 07 19 00-0631	EA	5-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	41.85	6.41
22 07 19 00-0632	EA	5-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	48.81	6.82
22 07 19 00-0633	EA	6-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	56.94	7.15
22 07 19 00-0634	EA	6-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	64.14	7.27
22 07 19 00-0635	EA	7-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	86.75	7.54
22 07 19 00-0636	EA	7-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	93.88	7.95
22 07 19 00-0637	EA	8-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	108.55	8.26
22 07 19 00-0638	EA	9-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	123.39	8.58
22 07 19 00-0639	EA	10-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	125.87	8.95
22 07 19 00-0640	EA	11-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	136.64	9.14
22 07 19 00-0641	EA	12-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	147.42	9.34
22 07 19 00-0642	EA	14-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	158.33	9.54
22 07 19 00-0643	EA	15-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	169.16	9.76
22 07 19 00-0644	EA	16-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	180.09	9.98
22 07 19 00-0645	EA	17-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	190.96	10.23
22 07 19 00-0646	EA	18-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	207.08	10.48
22 07 19 00-0647	EA	19-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	223.16	10.74



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 07 19 00-0648	EA		20-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	242.62	11.01
	22 07 19 00-0649	EA		3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	30.54	3.06
	22 07 19 00-0650	EA		1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	30.54	3.06
	22 07 19 00-0651	EA		1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	35.86	3.18
	22 07 19 00-0652	EA		1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	35.86	3.18
	22 07 19 00-0653	EA		2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	49.72	3.30
	22 07 19 00-0654	EA		2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	54.27	3.44
	22 07 19 00-0655	EA		3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	59.72	3.58
	22 07 19 00-0656	EA		3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	67.48	3.74
	22 07 19 00-0657	EA		4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	74.17	3.90
	22 07 19 00-0658	EA		5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	89.97	4.29
	22 07 19 00-0659	EA		6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	126.60	4.78
	22 07 19 00-0660	EA		8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	138.57	5.37
	22 07 19 00-0661	EA		10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	172.71	5.72
	22 07 19 00-0662	EA		12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	240.72	6.32
	22 07 19 00-0663	EA		14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	242.27	6.61
	22 07 19 00-0664	EA		16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	320.80	6.82
	22 07 19 00-0665	EA		18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	431.86	7.04
	22 07 19 00-0666	EA		3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	28.52	3.06
	22 07 19 00-0667	EA		1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	28.52	3.06
	22 07 19 00-0668	EA		1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	33.43	3.18
	22 07 19 00-0669	EA		1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	33.43	3.18
	22 07 19 00-0670	EA		2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	45.73	3.30
	22 07 19 00-0671	EA		2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	49.82	3.44
	22 07 19 00-0672	EA		3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	54.85	3.58
	22 07 19 00-0673	EA		3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	57.70	3.74
	22 07 19 00-0674	EA		4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	67.70	3.90
	22 07 19 00-0675	EA		5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	81.94	4.29
	22 07 19 00-0676	EA		6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	114.80	4.78
	22 07 19 00-0677	EA		8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	125.63	5.37
	22 07 19 00-0678	EA		10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	156.25	5.72
	22 07 19 00-0679	EA		12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	217.16	6.32
	22 07 19 00-0680	EA		14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	276.04	6.61
	22 07 19 00-0681	EA		16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	329.66	6.82
	22 07 19 00-0682	EA		18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	385.08	7.04
	22 07 19 00-0683	EA		3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	42.28	4.61
	22 07 19 00-0684	EA		1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	42.28	4.61
	22 07 19 00-0685	EA		1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	49.15	4.78
	22 07 19 00-0686	EA		1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	49.15	4.78
	22 07 19 00-0687	EA		2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	67.17	4.94
	22 07 19 00-0688	EA		2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	73.20	5.11
	22 07 19 00-0689	EA		3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	80.48	5.37
	22 07 19 00-0690	EA		3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	84.84	5.58
	22 07 19 00-0691	EA		4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	99.89	5.88
	22 07 19 00-0692	EA		5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	109.77	6.41
	22 07 19 00-0693	EA		6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	153.08	7.15
	22 07 19 00-0694	EA		8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	166.70	7.95
	22 07 19 00-0695	EA		10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	229.15	8.58
	22 07 19 00-0696	EA		12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	317.35	9.34
	22 07 19 00-0697	EA		14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	378.17	9.98
	22 07 19 00-0698	EA		16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	446.61	10.23
	22 07 19 00-0699	EA		18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	488.85	10.48
	22 07 19 00-0700			Insulation Foam Rubber <small>(22 07 19)</small>		
	22 07 19 00-0701			Covering 4x6 Sheet <small>(22 07 19 00-0700)</small>		
	22 07 19 00-0702	SF		1" Thick Foam Rubber Sheet Insulation	21.86	7.63
	22 07 19 00-0703			Fiberglass (Glass Fiber) Pipe Insulation <small>(22 07 19)</small>		
				<small>Note: Includes factory applied All Service Jacket (ASJ), Self Sealing Lap (SSL) longitudinal seam, butt strip seals, and adhesive. Excludes insulation for fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.</small>		
	22 07 19 00-0704			1/2" Thick Fiberglass Pipe Insulation <small>(22 07 19 00-0703)</small>		
	22 07 19 00-0705	LF		1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	7.93	2.36
				<i>For Single Layer Of Felt Finish, Add</i>	0.16	
				<i>For Work In Restricted Working Space, Add</i>	1.92	
	22 07 19 00-0706	LF		3/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	8.10	2.36
				<i>For Single Layer Of Felt Finish, Add</i>	0.18	
				<i>For Work In Restricted Working Space, Add</i>	1.92	
	22 07 19 00-0707	LF		1" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	8.60	2.47
				<i>For Single Layer Of Felt Finish, Add</i>	0.19	
				<i>For Work In Restricted Working Space, Add</i>	2.03	
	22 07 19 00-0708	LF		1-1/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	8.92	2.58
				<i>For Single Layer Of Felt Finish, Add</i>	0.21	
				<i>For Work In Restricted Working Space, Add</i>	2.07	
	22 07 19 00-0709	LF		1-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.17	2.58
				<i>For Single Layer Of Felt Finish, Add</i>	0.22	
				<i>For Work In Restricted Working Space, Add</i>	2.11	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0710	LF		2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.71	2.68
			<i>For Single Layer Of Felt Finish, Add</i>	0.24	
			<i>For Work In Restricted Working Space, Add</i>	2.22	
22 07 19 00-0711	LF		2-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.17	2.79
			<i>For Single Layer Of Felt Finish, Add</i>	0.28	
			<i>For Work In Restricted Working Space, Add</i>	2.26	
22 07 19 00-0712	LF		3" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.74	2.90
			<i>For Single Layer Of Felt Finish, Add</i>	0.31	
			<i>For Work In Restricted Working Space, Add</i>	2.34	
22 07 19 00-0713	LF		4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	12.20	3.11
			<i>For Single Layer Of Felt Finish, Add</i>	0.40	
			<i>For Work In Restricted Working Space, Add</i>	2.53	
22 07 19 00-0714	LF		6" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	14.41	3.65
			<i>For Single Layer Of Felt Finish, Add</i>	0.48	
			<i>For Work In Restricted Working Space, Add</i>	2.95	
22 07 19 00-0715			1" Thick Fiberglass Pipe Insulation <small>(22 07 19 00-0703)</small>		
22 07 19 00-0716	LF		1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.65	3.22
			<i>For Single Layer Of Felt Finish, Add</i>	0.19	
			<i>For Work In Restricted Working Space, Add</i>	2.65	
22 07 19 00-0717	LF		3/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.92	3.22
			<i>For Single Layer Of Felt Finish, Add</i>	0.22	
			<i>For Work In Restricted Working Space, Add</i>	2.65	
22 07 19 00-0718	LF		1" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	11.09	3.22
			<i>For Single Layer Of Felt Finish, Add</i>	0.22	
			<i>For Work In Restricted Working Space, Add</i>	2.69	
22 07 19 00-0719	LF		1-1/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	11.50	3.32
			<i>For Single Layer Of Felt Finish, Add</i>	0.25	
			<i>For Work In Restricted Working Space, Add</i>	2.72	
22 07 19 00-0720	LF		1-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	11.81	3.32
			<i>For Single Layer Of Felt Finish, Add</i>	0.27	
			<i>For Work In Restricted Working Space, Add</i>	2.76	
22 07 19 00-0721	LF		2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	12.30	3.44
			<i>For Single Layer Of Felt Finish, Add</i>	0.30	
			<i>For Work In Restricted Working Space, Add</i>	2.84	
22 07 19 00-0722	LF		2-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	12.98	3.65
			<i>For Single Layer Of Felt Finish, Add</i>	0.33	
			<i>For Work In Restricted Working Space, Add</i>	2.95	
22 07 19 00-0723	LF		3" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	13.63	3.76
			<i>For Single Layer Of Felt Finish, Add</i>	0.37	
			<i>For Work In Restricted Working Space, Add</i>	3.03	
22 07 19 00-0724	LF		4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.42	3.97
			<i>For Single Layer Of Felt Finish, Add</i>	0.48	
			<i>For Work In Restricted Working Space, Add</i>	3.26	
22 07 19 00-0725	LF		6" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	17.84	4.61
			<i>For Single Layer Of Felt Finish, Add</i>	0.59	
			<i>For Work In Restricted Working Space, Add</i>	3.68	
22 07 19 00-0726	LF		8" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	22.03	5.15
			<i>For Single Layer Of Felt Finish, Add</i>	0.84	
			<i>For Work In Restricted Working Space, Add</i>	4.22	
22 07 19 00-0727	LF		10" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	25.92	6.12
			<i>For Single Layer Of Felt Finish, Add</i>	0.98	
			<i>For Work In Restricted Working Space, Add</i>	4.98	
22 07 19 00-0728	LF		12" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	29.74	6.98
			<i>For Single Layer Of Felt Finish, Add</i>	1.11	
			<i>For Work In Restricted Working Space, Add</i>	5.75	
22 07 19 00-0729	LF		14" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	32.10	7.63
			<i>For Single Layer Of Felt Finish, Add</i>	1.29	
			<i>For Work In Restricted Working Space, Add</i>	5.95	
22 07 19 00-0730			1-1/2" Thick Fiberglass Pipe Insulation <small>(22 07 19 00-0703)</small>		
22 07 19 00-0731	LF		1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	12.92	3.31
			<i>For Single Layer Of Felt Finish, Add</i>	0.39	
			<i>For Work In Restricted Working Space, Add</i>	2.76	
22 07 19 00-0732	LF		3/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	13.08	3.31
			<i>For Single Layer Of Felt Finish, Add</i>	0.41	
			<i>For Work In Restricted Working Space, Add</i>	2.76	
22 07 19 00-0733	LF		1" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	13.82	3.51
			<i>For Single Layer Of Felt Finish, Add</i>	0.43	
			<i>For Work In Restricted Working Space, Add</i>	2.92	
22 07 19 00-0734	LF		1-1/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	14.32	3.59
			<i>For Single Layer Of Felt Finish, Add</i>	0.46	
			<i>For Work In Restricted Working Space, Add</i>	2.98	
22 07 19 00-0735	LF		1-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	14.74	3.65
			<i>For Single Layer Of Felt Finish, Add</i>	0.49	
			<i>For Work In Restricted Working Space, Add</i>	3.03	
22 07 19 00-0736	LF		2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.72	3.84
			<i>For Single Layer Of Felt Finish, Add</i>	0.53	
			<i>For Work In Restricted Working Space, Add</i>	3.20	
22 07 19 00-0737	LF		2-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	16.40	3.91
			<i>For Single Layer Of Felt Finish, Add</i>	0.58	
			<i>For Work In Restricted Working Space, Add</i>	3.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0738 LF 3" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.93	4.05
<i>For Single Layer Of Felt Finish, Add</i>	0.60	
<i>For Work In Restricted Working Space, Add</i>	3.36	
22 07 19 00-0739 LF 4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.69	4.38
<i>For Single Layer Of Felt Finish, Add</i>	0.69	
<i>For Work In Restricted Working Space, Add</i>	3.64	
22 07 19 00-0740 LF 6" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.63	5.11
<i>For Single Layer Of Felt Finish, Add</i>	0.79	
<i>For Work In Restricted Working Space, Add</i>	4.24	
22 07 19 00-0741 LF 8" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.31	5.39
<i>For Single Layer Of Felt Finish, Add</i>	0.98	
<i>For Work In Restricted Working Space, Add</i>	4.48	
22 07 19 00-0742 LF 10" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.70	6.45
<i>For Single Layer Of Felt Finish, Add</i>	1.24	
<i>For Work In Restricted Working Space, Add</i>	5.36	
22 07 19 00-0743 LF 12" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.70	7.52
<i>For Single Layer Of Felt Finish, Add</i>	1.35	
<i>For Work In Restricted Working Space, Add</i>	6.24	
22 07 19 00-0744 LF 14" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.73	8.23
<i>For Single Layer Of Felt Finish, Add</i>	1.57	
<i>For Work In Restricted Working Space, Add</i>	6.84	
22 07 19 00-0745 2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0746 LF 1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	15.93	3.65
<i>For Single Layer Of Felt Finish, Add</i>	0.61	
<i>For Work In Restricted Working Space, Add</i>	3.03	
22 07 19 00-0747 LF 3/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.13	3.65
<i>For Single Layer Of Felt Finish, Add</i>	0.63	
<i>For Work In Restricted Working Space, Add</i>	3.03	
22 07 19 00-0748 LF 1" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.69	3.76
<i>For Single Layer Of Felt Finish, Add</i>	0.68	
<i>For Work In Restricted Working Space, Add</i>	3.07	
22 07 19 00-0749 LF 1-1/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.18	3.76
<i>For Single Layer Of Felt Finish, Add</i>	0.72	
<i>For Work In Restricted Working Space, Add</i>	3.11	
22 07 19 00-0750 LF 1-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.69	3.87
<i>For Single Layer Of Felt Finish, Add</i>	0.76	
<i>For Work In Restricted Working Space, Add</i>	3.14	
22 07 19 00-0751 LF 2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.35	3.97
<i>For Single Layer Of Felt Finish, Add</i>	0.79	
<i>For Work In Restricted Working Space, Add</i>	3.26	
22 07 19 00-0752 LF 2-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.29	4.08
<i>For Single Layer Of Felt Finish, Add</i>	0.85	
<i>For Work In Restricted Working Space, Add</i>	3.37	
22 07 19 00-0753 LF 3" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.31	4.29
<i>For Single Layer Of Felt Finish, Add</i>	0.91	
<i>For Work In Restricted Working Space, Add</i>	3.49	
22 07 19 00-0754 LF 4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.21	4.51
<i>For Single Layer Of Felt Finish, Add</i>	1.04	
<i>For Work In Restricted Working Space, Add</i>	3.68	
22 07 19 00-0755 LF 6" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.27	5.29
<i>For Single Layer Of Felt Finish, Add</i>	1.21	
<i>For Work In Restricted Working Space, Add</i>	4.42	
22 07 19 00-0756 LF 8" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.82	5.59
<i>For Single Layer Of Felt Finish, Add</i>	1.50	
<i>For Work In Restricted Working Space, Add</i>	4.66	
22 07 19 00-0757 LF 10" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.69	6.69
<i>For Single Layer Of Felt Finish, Add</i>	1.79	
<i>For Work In Restricted Working Space, Add</i>	5.58	
22 07 19 00-0758 LF 12" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	41.03	8.02
<i>For Single Layer Of Felt Finish, Add</i>	1.97	
<i>For Work In Restricted Working Space, Add</i>	6.68	
22 07 19 00-0759 LF 14" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	52.29	8.74
<i>For Single Layer Of Felt Finish, Add</i>	2.23	
<i>For Work In Restricted Working Space, Add</i>	9.32	
22 07 19 00-0760 LF 16" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	55.23	10.26
<i>For Single Layer Of Felt Finish, Add</i>	2.54	
<i>For Work In Restricted Working Space, Add</i>	9.32	
22 07 19 00-0761 LF 18" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	61.32	10.77
<i>For Single Layer Of Felt Finish, Add</i>	3.01	
<i>For Work In Restricted Working Space, Add</i>	9.78	
22 07 19 00-0762 LF 20" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	69.50	12.30
<i>For Single Layer Of Felt Finish, Add</i>	3.38	
<i>For Work In Restricted Working Space, Add</i>	11.19	
22 07 19 00-0763 LF 24" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	80.75	14.87
<i>For Single Layer Of Felt Finish, Add</i>	3.75	
<i>For Work In Restricted Working Space, Add</i>	13.51	
22 07 19 00-0764 2-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0765 LF 1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.77	4.29
<i>For Single Layer Of Felt Finish, Add</i>	0.85	
<i>For Work In Restricted Working Space, Add</i>	3.50	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0766	LF		3/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.05	4.29
			<i>For Single Layer Of Felt Finish, Add</i>	0.88	
			<i>For Work In Restricted Working Space, Add</i>	3.50	
22 07 19 00-0767	LF		1" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.84	4.29
			<i>For Single Layer Of Felt Finish, Add</i>	0.95	
			<i>For Work In Restricted Working Space, Add</i>	3.55	
22 07 19 00-0768	LF		1-1/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.43	4.40
			<i>For Single Layer Of Felt Finish, Add</i>	1.00	
			<i>For Work In Restricted Working Space, Add</i>	3.58	
22 07 19 00-0769	LF		1-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.05	4.40
			<i>For Single Layer Of Felt Finish, Add</i>	1.05	
			<i>For Work In Restricted Working Space, Add</i>	3.60	
22 07 19 00-0770	LF		2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.96	4.61
			<i>For Single Layer Of Felt Finish, Add</i>	1.10	
			<i>For Work In Restricted Working Space, Add</i>	3.75	
22 07 19 00-0771	LF		2-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.26	4.72
			<i>For Single Layer Of Felt Finish, Add</i>	1.19	
			<i>For Work In Restricted Working Space, Add</i>	3.88	
22 07 19 00-0772	LF		3" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.44	4.94
			<i>For Single Layer Of Felt Finish, Add</i>	1.27	
			<i>For Work In Restricted Working Space, Add</i>	4.02	
22 07 19 00-0773	LF		4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	28.15	5.15
			<i>For Single Layer Of Felt Finish, Add</i>	1.47	
			<i>For Work In Restricted Working Space, Add</i>	4.24	
22 07 19 00-0774	LF		6" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.27	5.47
			<i>For Single Layer Of Felt Finish, Add</i>	1.70	
			<i>For Work In Restricted Working Space, Add</i>	4.82	
22 07 19 00-0775	LF		8" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.12	6.55
			<i>For Single Layer Of Felt Finish, Add</i>	2.65	
			<i>For Work In Restricted Working Space, Add</i>	5.37	
22 07 19 00-0776	LF		10" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	51.51	7.52
			<i>For Single Layer Of Felt Finish, Add</i>	3.24	
			<i>For Work In Restricted Working Space, Add</i>	6.19	
22 07 19 00-0777	LF		12" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	58.53	9.34
			<i>For Single Layer Of Felt Finish, Add</i>	3.45	
			<i>For Work In Restricted Working Space, Add</i>	7.70	
22 07 19 00-0778	LF		14" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	66.19	10.31
			<i>For Single Layer Of Felt Finish, Add</i>	4.01	
			<i>For Work In Restricted Working Space, Add</i>	8.40	
22 07 19 00-0779	LF		16" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	77.87	13.10
			<i>For Single Layer Of Felt Finish, Add</i>	4.42	
			<i>For Work In Restricted Working Space, Add</i>	10.73	
22 07 19 00-0780	LF		18" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	83.75	13.74
			<i>For Single Layer Of Felt Finish, Add</i>	4.85	
			<i>For Work In Restricted Working Space, Add</i>	11.27	
22 07 19 00-0781	LF		20" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	95.05	15.68
			<i>For Single Layer Of Felt Finish, Add</i>	5.47	
			<i>For Work In Restricted Working Space, Add</i>	12.89	
22 07 19 00-0782	LF		24" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	111.78	18.94
			<i>For Single Layer Of Felt Finish, Add</i>	6.29	
			<i>For Work In Restricted Working Space, Add</i>	15.56	
22 07 19 00-0783			3" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0784	LF		1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.80	4.75
			<i>For Single Layer Of Felt Finish, Add</i>	0.94	
			<i>For Work In Restricted Working Space, Add</i>	3.87	
22 07 19 00-0785	LF		3/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.11	4.75
			<i>For Single Layer Of Felt Finish, Add</i>	0.97	
			<i>For Work In Restricted Working Space, Add</i>	3.87	
22 07 19 00-0786	LF		1" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.92	4.79
			<i>For Single Layer Of Felt Finish, Add</i>	1.04	
			<i>For Work In Restricted Working Space, Add</i>	3.91	
22 07 19 00-0787	LF		1-1/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.55	4.82
			<i>For Single Layer Of Felt Finish, Add</i>	1.10	
			<i>For Work In Restricted Working Space, Add</i>	3.93	
22 07 19 00-0788	LF		1-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.27	4.88
			<i>For Single Layer Of Felt Finish, Add</i>	1.16	
			<i>For Work In Restricted Working Space, Add</i>	3.98	
22 07 19 00-0789	LF		2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.22	5.06
			<i>For Single Layer Of Felt Finish, Add</i>	1.21	
			<i>For Work In Restricted Working Space, Add</i>	4.12	
22 07 19 00-0790	LF		2-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.64	5.23
			<i>For Single Layer Of Felt Finish, Add</i>	1.31	
			<i>For Work In Restricted Working Space, Add</i>	4.26	
22 07 19 00-0791	LF		3" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.94	5.42
			<i>For Single Layer Of Felt Finish, Add</i>	1.39	
			<i>For Work In Restricted Working Space, Add</i>	4.42	
22 07 19 00-0792	LF		4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.93	5.72
			<i>For Single Layer Of Felt Finish, Add</i>	1.62	
			<i>For Work In Restricted Working Space, Add</i>	4.66	
22 07 19 00-0793	LF		6" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.45	6.50
			<i>For Single Layer Of Felt Finish, Add</i>	1.87	
			<i>For Work In Restricted Working Space, Add</i>	5.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0794 LF 8" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	47.36	7.23
<i>For Single Layer Of Felt Finish, Add</i>	2.91	
<i>For Work In Restricted Working Space, Add</i>	5.90	
22 07 19 00-0795 LF 10" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	56.59	8.35
<i>For Single Layer Of Felt Finish, Add</i>	3.56	
<i>For Work In Restricted Working Space, Add</i>	6.81	
22 07 19 00-0796 LF 12" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	64.30	10.38
<i>For Single Layer Of Felt Finish, Add</i>	3.79	
<i>For Work In Restricted Working Space, Add</i>	8.46	
22 07 19 00-0797 LF 14" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	72.72	11.33
<i>For Single Layer Of Felt Finish, Add</i>	4.40	
<i>For Work In Restricted Working Space, Add</i>	9.24	
22 07 19 00-0798 LF 16" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	85.54	14.48
<i>For Single Layer Of Felt Finish, Add</i>	4.85	
<i>For Work In Restricted Working Space, Add</i>	11.81	
22 07 19 00-0799 LF 18" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	92.00	15.21
<i>For Single Layer Of Felt Finish, Add</i>	5.32	
<i>For Work In Restricted Working Space, Add</i>	12.40	
22 07 19 00-0800 LF 20" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	104.44	17.39
<i>For Single Layer Of Felt Finish, Add</i>	6.00	
<i>For Work In Restricted Working Space, Add</i>	14.18	
22 07 19 00-0801 LF 24" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	122.81	20.99
<i>For Single Layer Of Felt Finish, Add</i>	6.90	
<i>For Work In Restricted Working Space, Add</i>	17.12	
22 07 19 00-0802 3-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0803 LF 1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.50	5.15
<i>For Single Layer Of Felt Finish, Add</i>	0.98	
<i>For Work In Restricted Working Space, Add</i>	4.24	
22 07 19 00-0804 LF 3/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.86	5.15
<i>For Single Layer Of Felt Finish, Add</i>	1.02	
<i>For Work In Restricted Working Space, Add</i>	4.24	
22 07 19 00-0805 LF 1" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.03	5.15
<i>For Single Layer Of Felt Finish, Add</i>	1.14	
<i>For Work In Restricted Working Space, Add</i>	4.26	
22 07 19 00-0806 LF 1-1/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.72	5.26
<i>For Single Layer Of Felt Finish, Add</i>	1.20	
<i>For Work In Restricted Working Space, Add</i>	4.29	
22 07 19 00-0807 LF 1-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.54	5.26
<i>For Single Layer Of Felt Finish, Add</i>	1.27	
<i>For Work In Restricted Working Space, Add</i>	4.35	
22 07 19 00-0808 LF 2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.52	5.47
<i>For Single Layer Of Felt Finish, Add</i>	1.32	
<i>For Work In Restricted Working Space, Add</i>	4.49	
22 07 19 00-0809 LF 2-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.07	5.69
<i>For Single Layer Of Felt Finish, Add</i>	1.42	
<i>For Work In Restricted Working Space, Add</i>	4.65	
22 07 19 00-0810 LF 3" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.40	5.90
<i>For Single Layer Of Felt Finish, Add</i>	1.51	
<i>For Work In Restricted Working Space, Add</i>	4.82	
22 07 19 00-0811 LF 4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.80	6.23
<i>For Single Layer Of Felt Finish, Add</i>	1.77	
<i>For Work In Restricted Working Space, Add</i>	5.09	
22 07 19 00-0812 LF 6" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	38.71	7.08
<i>For Single Layer Of Felt Finish, Add</i>	2.04	
<i>For Work In Restricted Working Space, Add</i>	5.78	
22 07 19 00-0813 LF 8" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	51.71	7.84
<i>For Single Layer Of Felt Finish, Add</i>	3.18	
<i>For Work In Restricted Working Space, Add</i>	6.44	
22 07 19 00-0814 LF 10" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	61.81	9.02
<i>For Single Layer Of Felt Finish, Add</i>	3.89	
<i>For Work In Restricted Working Space, Add</i>	7.43	
22 07 19 00-0815 LF 12" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	70.23	11.27
<i>For Single Layer Of Felt Finish, Add</i>	4.14	
<i>For Work In Restricted Working Space, Add</i>	9.23	
22 07 19 00-0816 LF 14" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	79.45	12.34
<i>For Single Layer Of Felt Finish, Add</i>	4.81	
<i>For Work In Restricted Working Space, Add</i>	10.08	
22 07 19 00-0817 LF 16" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	93.46	15.68
<i>For Single Layer Of Felt Finish, Add</i>	5.30	
<i>For Work In Restricted Working Space, Add</i>	12.88	
22 07 19 00-0818 LF 18" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	100.49	16.53
<i>For Single Layer Of Felt Finish, Add</i>	5.82	
<i>For Work In Restricted Working Space, Add</i>	13.52	
22 07 19 00-0819 LF 20" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	114.11	18.89
<i>For Single Layer Of Felt Finish, Add</i>	6.57	
<i>For Work In Restricted Working Space, Add</i>	15.47	
22 07 19 00-0820 LF 24" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	134.14	22.76
<i>For Single Layer Of Felt Finish, Add</i>	7.55	
<i>For Work In Restricted Working Space, Add</i>	18.68	

22 07 19 00-0821 4" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0822	LF		1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i>	26.64 1.15 4.70	5.79
22 07 19 00-0823	LF		3/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	27.03 1.19 4.70	5.79
22 07 19 00-0824	LF		1" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	28.12 1.28 4.79	5.79
22 07 19 00-0825	LF		1-1/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	28.99 1.35 4.84	5.90
22 07 19 00-0826	LF		1-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	30.19 1.42 4.99	6.12
22 07 19 00-0827	LF		2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	31.29 1.48 5.15	6.34
22 07 19 00-0828	LF		2-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	32.70 1.60 5.23	6.34
22 07 19 00-0829	LF		3" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	34.33 1.71 5.42	6.66
22 07 19 00-0830	LF		4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	37.99 1.99 5.72	6.98
22 07 19 00-0831	LF		6" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	43.53 2.30 6.49	7.95
22 07 19 00-0832	LF		8" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	58.19 3.58 7.24	8.58
22 07 19 00-0833	LF		10" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	69.55 4.38 8.36	10.20
22 07 19 00-0834	LF		12" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	79.02 4.66 10.39	12.66
22 07 19 00-0835	LF		14" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	89.40 5.42 11.35	13.85
22 07 19 00-0836	LF		16" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	105.18 5.97 14.51	17.71
22 07 19 00-0837	LF		18" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	113.01 6.55 15.20	18.57
22 07 19 00-0838	LF		20" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	126.73 7.22 17.40	21.26
22 07 19 00-0839	LF		24" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	150.94 8.49 21.02	25.66
22 07 19 00-0840	LF		26" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	172.31 9.42 24.77	30.27
22 07 19 00-0841	LF		28" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	194.18 10.18 29.17	35.64
22 07 19 00-0842	LF		30" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	218.91 10.89 34.55	42.08
22 07 19 00-0843	LF		36" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	264.31 12.37 43.94	53.50
22 07 19 00-0844	LF		42" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	309.70 13.86 53.32	65.16
22 07 19 00-0845	LF		44" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	332.96 14.39 58.77	71.60
22 07 19 00-0846	LF		46" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	353.89 14.97 63.40	77.08

22 07 19 00-0847 **Foamglas (Cellular Glass) Pipe Insulation, Rigid, Closed Cell** (22 07 19)
 Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.

22 07 19 00-0848	1" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0847)</small>				
22 07 19 00-0849	LF		1/2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	18.70 4.76	5.24



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0850 LF 3/4" Diameter Pipe, 1" Thick Foamglas Insulation	19.42	5.24
<i>For Work In Restricted Working Space, Add</i>	4.76	
22 07 19 00-0851 LF 1" Diameter Pipe, 1" Thick Foamglas Insulation	20.37	5.31
<i>For Work In Restricted Working Space, Add</i>	4.83	
22 07 19 00-0852 LF 1-1/4" Diameter Pipe, 1" Thick Foamglas Insulation	20.85	5.39
<i>For Work In Restricted Working Space, Add</i>	4.90	
22 07 19 00-0853 LF 1-1/2" Diameter Pipe, 1" Thick Foamglas Insulation	21.56	5.46
<i>For Work In Restricted Working Space, Add</i>	4.97	
22 07 19 00-0854 LF 2" Diameter Pipe, 1" Thick Foamglas Insulation	22.94	5.61
<i>For Work In Restricted Working Space, Add</i>	5.11	
22 07 19 00-0855 LF 2-1/2" Diameter Pipe, 1" Thick Foamglas Insulation	24.67	5.85
<i>For Work In Restricted Working Space, Add</i>	5.32	
22 07 19 00-0856 LF 3" Diameter Pipe, 1" Thick Foamglas Insulation	26.53	6.00
<i>For Work In Restricted Working Space, Add</i>	5.45	
22 07 19 00-0857 LF 4" Diameter Pipe, 1" Thick Foamglas Insulation	30.56	6.45
<i>For Work In Restricted Working Space, Add</i>	5.87	
22 07 19 00-0858 LF 6" Diameter Pipe, 1" Thick Foamglas Insulation	38.71	7.27
<i>For Work In Restricted Working Space, Add</i>	6.62	
22 07 19 00-0859 1-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)		
22 07 19 00-0860 LF 1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	22.03	5.80
<i>For Work In Restricted Working Space, Add</i>	5.11	
22 07 19 00-0861 LF 3/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	22.48	5.80
<i>For Work In Restricted Working Space, Add</i>	5.11	
22 07 19 00-0862 LF 1" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	23.16	5.88
<i>For Work In Restricted Working Space, Add</i>	5.18	
22 07 19 00-0863 LF 1-1/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	23.72	5.95
<i>For Work In Restricted Working Space, Add</i>	5.24	
22 07 19 00-0864 LF 1-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	24.23	6.04
<i>For Work In Restricted Working Space, Add</i>	5.31	
22 07 19 00-0865 LF 2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	26.23	6.24
<i>For Work In Restricted Working Space, Add</i>	5.49	
22 07 19 00-0866 LF 2-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	29.57	6.48
<i>For Work In Restricted Working Space, Add</i>	5.70	
22 07 19 00-0867 LF 3" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	32.55	6.67
<i>For Work In Restricted Working Space, Add</i>	5.87	
22 07 19 00-0868 LF 4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	36.78	7.09
<i>For Work In Restricted Working Space, Add</i>	6.25	
22 07 19 00-0869 LF 6" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	43.25	8.04
<i>For Work In Restricted Working Space, Add</i>	7.07	
22 07 19 00-0870 LF 8" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	48.37	8.97
<i>For Work In Restricted Working Space, Add</i>	7.89	
22 07 19 00-0871 LF 10" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	58.57	10.34
<i>For Work In Restricted Working Space, Add</i>	9.09	
22 07 19 00-0872 LF 12" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	69.61	12.84
<i>For Work In Restricted Working Space, Add</i>	11.30	
22 07 19 00-0873 LF 14" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	77.29	13.52
<i>For Work In Restricted Working Space, Add</i>	12.28	
22 07 19 00-0874 LF 16" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	85.13	15.09
<i>For Work In Restricted Working Space, Add</i>	13.72	
22 07 19 00-0875 LF 18" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	96.62	17.85
<i>For Work In Restricted Working Space, Add</i>	16.23	
22 07 19 00-0876 LF 20" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	107.91	19.77
<i>For Work In Restricted Working Space, Add</i>	17.97	
22 07 19 00-0877 LF 24" Diameter Pipe, 1-1/2" Thick Fiberglass Insulation	134.21	21.90
<i>For Work In Restricted Working Space, Add</i>	19.91	
22 07 19 00-0878 2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)		
22 07 19 00-0879 LF 1/2" Diameter Pipe, 2" Thick Foamglas Insulation	24.70	6.00
<i>For Work In Restricted Working Space, Add</i>	5.45	
22 07 19 00-0880 LF 3/4" Diameter Pipe, 2" Thick Foamglas Insulation	25.41	6.00
<i>For Work In Restricted Working Space, Add</i>	5.45	
22 07 19 00-0881 LF 1" Diameter Pipe, 2" Thick Foamglas Insulation	26.33	6.06
<i>For Work In Restricted Working Space, Add</i>	5.82	
22 07 19 00-0882 LF 1-1/4" Diameter Pipe, 2" Thick Foamglas Insulation	27.67	6.16
<i>For Work In Restricted Working Space, Add</i>	5.59	
22 07 19 00-0883 LF 1-1/2" Diameter Pipe, 2" Thick Foamglas Insulation	29.02	6.23
<i>For Work In Restricted Working Space, Add</i>	5.66	
22 07 19 00-0884 LF 2" Diameter Pipe, 2" Thick Foamglas Insulation	32.34	6.45
<i>For Work In Restricted Working Space, Add</i>	5.87	
22 07 19 00-0885 LF 2-1/2" Diameter Pipe, 2" Thick Foamglas Insulation	33.91	6.69
<i>For Work In Restricted Working Space, Add</i>	6.08	
22 07 19 00-0886 LF 3" Diameter Pipe, 2" Thick Foamglas Insulation	36.34	6.90
<i>For Work In Restricted Working Space, Add</i>	6.28	
22 07 19 00-0887 LF 4" Diameter Pipe, 2" Thick Foamglas Insulation	40.83	7.29
<i>For Work In Restricted Working Space, Add</i>	6.62	
22 07 19 00-0888 LF 6" Diameter Pipe, 2" Thick Foamglas Insulation	48.75	8.28
<i>For Work In Restricted Working Space, Add</i>	7.52	
22 07 19 00-0889 LF 8" Diameter Pipe, 2" Thick Foamglas Insulation	54.28	9.23
<i>For Work In Restricted Working Space, Add</i>	8.39	
22 07 19 00-0890 LF 10" Diameter Pipe, 2" Thick Foamglas Insulation	65.96	10.64
<i>For Work In Restricted Working Space, Add</i>	9.68	

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0891	LF		12" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	81.71 12.02	13.23
22 07 19 00-0892	LF		14" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	87.34 13.12	14.44
22 07 19 00-0893	LF		16" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	103.50 16.78	18.46
22 07 19 00-0894	LF		18" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	112.71 17.61	19.37
22 07 19 00-0895	LF		20" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	124.81 20.13	22.14
22 07 19 00-0896	LF		24" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	156.37 24.32	26.75
22 07 19 00-0897 2-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)					
22 07 19 00-0898	LF		1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	29.87 5.91	6.51
22 07 19 00-0899	LF		3/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	31.06 5.91	6.50
22 07 19 00-0900	LF		1" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	32.59 6.01	6.60
22 07 19 00-0901	LF		1-1/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	33.94 6.05	6.66
22 07 19 00-0902	LF		1-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	35.31 6.10	6.71
22 07 19 00-0903	LF		2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	37.82 6.35	6.98
22 07 19 00-0904	LF		2-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	40.21 6.57	7.22
22 07 19 00-0905	LF		3" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	43.61 6.80	7.48
22 07 19 00-0906	LF		4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	48.80 7.17	7.88
22 07 19 00-0907	LF		6" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	58.28 8.15	8.97
22 07 19 00-0908	LF		8" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	64.93 9.08	9.99
22 07 19 00-0909	LF		10" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	74.10 10.47	11.51
22 07 19 00-0910	LF		12" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	92.27 13.02	14.32
22 07 19 00-0911	LF		14" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	96.32 14.21	15.63
22 07 19 00-0912	LF		16" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	113.80 18.16	19.98
22 07 19 00-0913	LF		18" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	123.63 19.07	20.97
22 07 19 00-0914	LF		20" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	142.13 21.80	23.97
22 07 19 00-0915	LF		24" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	177.85 26.33	28.97
22 07 19 00-0916 3" Thick Foamglas Pipe Insulation (22 07 19 00-0847)					
22 07 19 00-0917	LF		1/2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	35.95 6.29	6.91
22 07 19 00-0918	LF		3/4" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	36.67 6.29	6.91
22 07 19 00-0919	LF		1" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	37.74 6.39	7.03
22 07 19 00-0920	LF		1-1/4" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	38.61 6.44	7.07
22 07 19 00-0921	LF		1-1/2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	39.52 6.49	7.14
22 07 19 00-0922	LF		2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	42.44 6.76	7.42
22 07 19 00-0923	LF		2-1/2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	45.23 6.98	7.69
22 07 19 00-0924	LF		3" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	51.28 7.23	7.96
22 07 19 00-0925	LF		4" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	58.44 7.62	8.38
22 07 19 00-0926	LF		6" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	64.03 8.66	9.53
22 07 19 00-0927	LF		8" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	72.32 9.67	10.63
22 07 19 00-0928	LF		10" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	86.22 11.14	12.26
22 07 19 00-0929	LF		12" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	100.27 13.85	15.23
22 07 19 00-0930	LF		14" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	107.39 15.12	16.63
22 07 19 00-0931	LF		16" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	128.38 19.32	21.26



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0932 LF 18" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	137.38 20.29	22.31
22 07 19 00-0933 LF 20" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	160.92 23.19	25.51
22 07 19 00-0934 LF 24" Diameter Pipe, 3" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	196.69 28.01	30.82
22 07 19 00-0935 3-1/2" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0847)</small>		
22 07 19 00-0936 LF 1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	43.31 7.62	8.38
22 07 19 00-0937 LF 3/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	44.21 7.62	8.38
22 07 19 00-0938 LF 1" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	45.29 7.67	8.44
22 07 19 00-0939 LF 1-1/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	46.35 7.72	8.49
22 07 19 00-0940 LF 1-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	47.58 7.82	8.60
22 07 19 00-0941 LF 2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	52.30 8.09	8.90
22 07 19 00-0942 LF 2-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	57.06 8.37	9.21
22 07 19 00-0943 LF 3" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	60.25 8.66	9.53
22 07 19 00-0944 LF 4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	64.51 9.16	10.08
22 07 19 00-0945 LF 6" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	74.26 10.40	11.44
22 07 19 00-0946 LF 8" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	84.40 11.58	12.74
22 07 19 00-0947 LF 10" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	100.90 13.37	14.71
22 07 19 00-0948 LF 12" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	119.31 16.62	18.28
22 07 19 00-0949 LF 14" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	124.54 18.14	19.96
22 07 19 00-0950 LF 16" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	149.44 23.19	25.51
22 07 19 00-0951 LF 18" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	164.14 24.35	26.79
22 07 19 00-0952 LF 20" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	186.88 27.85	30.63
22 07 19 00-0953 LF 24" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	229.44 33.62	36.98
22 07 19 00-0954 4" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0847)</small>		
22 07 19 00-0955 LF 1/2" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	52.74 9.37	10.31
22 07 19 00-0956 LF 3/4" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	53.91 9.37	10.31
22 07 19 00-0957 LF 1" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	55.61 9.53	10.48
22 07 19 00-0958 LF 1-1/4" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	57.15 9.64	10.61
22 07 19 00-0959 LF 1-1/2" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	59.32 9.94	10.94
22 07 19 00-0960 LF 2" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	64.05 10.25	11.27
22 07 19 00-0961 LF 2-1/2" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	68.26 10.41	11.45
22 07 19 00-0962 LF 3" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	71.66 10.79	11.88
22 07 19 00-0963 LF 4" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	78.33 12.04	13.24
22 07 19 00-0964 LF 6" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	90.53 12.92	14.21
22 07 19 00-0965 LF 8" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	102.16 14.01	15.41
22 07 19 00-0966 LF 10" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	117.06 16.65	18.32
22 07 19 00-0967 LF 12" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	136.85 20.68	22.75
22 07 19 00-0968 LF 14" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	148.82 22.59	24.84
22 07 19 00-0969 LF 16" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	176.80 28.88	31.76
22 07 19 00-0970 LF 18" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	196.56 30.26	33.29
22 07 19 00-0971 LF 20" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	220.39 34.64	38.10
22 07 19 00-0972 LF 24" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	279.38 41.84	46.03



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0973	Flexible Polyethylene Tubing Closed Cell Foam Insulation <small>(22 07 19)</small> Note: UV resistant standard temperature (-90 Degree F To +212 Degree F). For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0974	3/8" Wall Flexible Polyethylene Tubing Foam Insulation <small>(22 07 19 00-0973)</small>		
22 07 19 00-0975	LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.92	3.21
	<i>For Work In Restricted Working Space, Add</i>	1.93	
22 07 19 00-0976	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.93	3.21
	<i>For Work In Restricted Working Space, Add</i>	1.93	
22 07 19 00-0977	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.23	3.32
	<i>For Work In Restricted Working Space, Add</i>	2.00	
22 07 19 00-0978	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.52	3.44
	<i>For Work In Restricted Working Space, Add</i>	2.06	
22 07 19 00-0979	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.82	3.50
	<i>For Work In Restricted Working Space, Add</i>	2.10	
22 07 19 00-0980	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.16	3.56
	<i>For Work In Restricted Working Space, Add</i>	2.13	
22 07 19 00-0981	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.31	3.56
	<i>For Work In Restricted Working Space, Add</i>	2.14	
22 07 19 00-0982	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.72	3.56
	<i>For Work In Restricted Working Space, Add</i>	2.15	
22 07 19 00-0983	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.50	3.66
	<i>For Work In Restricted Working Space, Add</i>	2.21	
22 07 19 00-0984	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.84	3.73
	<i>For Work In Restricted Working Space, Add</i>	2.25	
22 07 19 00-0985	1/2" Wall Flexible Polyethylene Tubing Foam Insulation <small>(22 07 19 00-0973)</small>		
22 07 19 00-0986	LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.71	3.50
	<i>For Work In Restricted Working Space, Add</i>	2.10	
22 07 19 00-0987	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.80	3.50
	<i>For Work In Restricted Working Space, Add</i>	2.11	
22 07 19 00-0988	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.93	3.56
	<i>For Work In Restricted Working Space, Add</i>	2.13	
22 07 19 00-0989	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.10	3.58
	<i>For Work In Restricted Working Space, Add</i>	2.15	
22 07 19 00-0990	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.54	3.66
	<i>For Work In Restricted Working Space, Add</i>	2.20	
22 07 19 00-0991	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.90	3.73
	<i>For Work In Restricted Working Space, Add</i>	2.23	
22 07 19 00-0992	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.34	3.78
	<i>For Work In Restricted Working Space, Add</i>	2.27	
22 07 19 00-0993	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.86	3.83
	<i>For Work In Restricted Working Space, Add</i>	2.30	
22 07 19 00-0994	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	10.76	3.95
	<i>For Work In Restricted Working Space, Add</i>	2.37	
22 07 19 00-0995	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	11.71	4.00
	<i>For Work In Restricted Working Space, Add</i>	2.40	
22 07 19 00-0996	LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	12.62	4.06
	<i>For Work In Restricted Working Space, Add</i>	2.44	
22 07 19 00-0997	LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	13.14	4.11
	<i>For Work In Restricted Working Space, Add</i>	2.47	
22 07 19 00-0998	3/4" Wall Flexible Polyethylene Tubing Foam Insulation <small>(22 07 19 00-0973)</small>		
22 07 19 00-0999	LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.62	3.78
	<i>For Work In Restricted Working Space, Add</i>	2.27	
22 07 19 00-1000	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.73	3.83
	<i>For Work In Restricted Working Space, Add</i>	2.30	
22 07 19 00-1001	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.33	3.95
	<i>For Work In Restricted Working Space, Add</i>	2.37	
22 07 19 00-1002	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.60	4.00
	<i>For Work In Restricted Working Space, Add</i>	2.40	
22 07 19 00-1003	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	10.35	4.11
	<i>For Work In Restricted Working Space, Add</i>	2.47	
22 07 19 00-1004	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	11.14	4.18
	<i>For Work In Restricted Working Space, Add</i>	2.50	
22 07 19 00-1005	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	11.49	4.20
	<i>For Work In Restricted Working Space, Add</i>	2.52	
22 07 19 00-1006	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	12.96	4.23
	<i>For Work In Restricted Working Space, Add</i>	2.54	
22 07 19 00-1007	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	14.96	4.33
	<i>For Work In Restricted Working Space, Add</i>	2.60	
22 07 19 00-1008	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	15.07	4.40
	<i>For Work In Restricted Working Space, Add</i>	2.64	
22 07 19 00-1009	LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	16.51	4.45
	<i>For Work In Restricted Working Space, Add</i>	2.67	
22 07 19 00-1010	LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	17.11	4.51
	<i>For Work In Restricted Working Space, Add</i>	2.71	
22 07 19 00-1011	1" Wall Flexible Polyethylene Tubing Foam Insulation <small>(22 07 19 00-0973)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1012 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.85	4.18
<i>For Work In Restricted Working Space, Add</i>	2.90	
22 07 19 00-1013 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	10.12	4.23
<i>For Work In Restricted Working Space, Add</i>	2.54	
22 07 19 00-1014 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	10.99	4.33
<i>For Work In Restricted Working Space, Add</i>	2.60	
22 07 19 00-1015 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	11.25	4.40
<i>For Work In Restricted Working Space, Add</i>	2.64	
22 07 19 00-1016 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	12.57	4.51
<i>For Work In Restricted Working Space, Add</i>	2.71	
22 07 19 00-1017 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	13.21	4.62
<i>For Work In Restricted Working Space, Add</i>	2.77	
22 07 19 00-1018 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	13.47	4.68
<i>For Work In Restricted Working Space, Add</i>	2.81	
22 07 19 00-1019 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	14.76	4.73
<i>For Work In Restricted Working Space, Add</i>	2.84	
22 07 19 00-1020 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	15.66	4.86
<i>For Work In Restricted Working Space, Add</i>	2.91	
22 07 19 00-1021 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	16.46	4.91
<i>For Work In Restricted Working Space, Add</i>	2.94	
 22 07 19 00-1022 Flexible Elastomeric Tubing Closed Cell Foam Insulation <small>(22 07 19)</small>		
<i>Note: For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.</i>		
 22 07 19 00-1023 3/8" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-1022)</small>		
22 07 19 00-1024 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	7.23	3.21
<i>For Work In Restricted Working Space, Add</i>	1.93	
22 07 19 00-1025 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	7.36	3.21
<i>For Work In Restricted Working Space, Add</i>	1.93	
22 07 19 00-1026 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	7.66	3.32
<i>For Work In Restricted Working Space, Add</i>	2.00	
22 07 19 00-1027 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	7.84	3.38
<i>For Work In Restricted Working Space, Add</i>	2.03	
22 07 19 00-1028 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.04	3.44
<i>For Work In Restricted Working Space, Add</i>	2.06	
22 07 19 00-1029 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.30	3.50
<i>For Work In Restricted Working Space, Add</i>	2.10	
22 07 19 00-1030 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.53	3.56
<i>For Work In Restricted Working Space, Add</i>	2.13	
22 07 19 00-1031 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.78	3.56
<i>For Work In Restricted Working Space, Add</i>	2.14	
22 07 19 00-1032 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.99	3.56
<i>For Work In Restricted Working Space, Add</i>	2.15	
22 07 19 00-1033 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.20	3.61
<i>For Work In Restricted Working Space, Add</i>	2.16	
22 07 19 00-1034 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.51	3.66
<i>For Work In Restricted Working Space, Add</i>	2.20	
22 07 19 00-1035 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.78	3.66
<i>For Work In Restricted Working Space, Add</i>	2.21	
22 07 19 00-1036 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.96	3.73
<i>For Work In Restricted Working Space, Add</i>	2.23	
22 07 19 00-1037 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	10.25	3.73
<i>For Work In Restricted Working Space, Add</i>	2.25	
22 07 19 00-1038 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	10.86	3.78
<i>For Work In Restricted Working Space, Add</i>	2.27	
22 07 19 00-1039 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	11.57	3.83
<i>For Work In Restricted Working Space, Add</i>	2.30	
22 07 19 00-1040 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	12.35	3.86
<i>For Work In Restricted Working Space, Add</i>	2.32	
 22 07 19 00-1041 1/2" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-1022)</small>		
22 07 19 00-1042 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.20	3.50
<i>For Work In Restricted Working Space, Add</i>	2.10	
22 07 19 00-1043 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.32	3.50
<i>For Work In Restricted Working Space, Add</i>	2.11	
22 07 19 00-1044 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.45	3.56
<i>For Work In Restricted Working Space, Add</i>	2.13	
22 07 19 00-1045 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.65	3.56
<i>For Work In Restricted Working Space, Add</i>	2.14	
22 07 19 00-1046 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.80	3.56
<i>For Work In Restricted Working Space, Add</i>	2.15	
22 07 19 00-1047 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.17	3.66
<i>For Work In Restricted Working Space, Add</i>	2.20	
22 07 19 00-1048 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.53	3.73
<i>For Work In Restricted Working Space, Add</i>	2.23	
22 07 19 00-1049 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.85	3.78
<i>For Work In Restricted Working Space, Add</i>	2.27	
22 07 19 00-1050 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	10.17	3.81
<i>For Work In Restricted Working Space, Add</i>	2.28	
22 07 19 00-1051 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	10.44	3.83
<i>For Work In Restricted Working Space, Add</i>	2.30	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1052	LF		2" IPS (2-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.46 2.34	3.90
22 07 19 00-1053	LF		2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.06 2.37	3.95
22 07 19 00-1054	LF		2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.53 2.39	3.98
22 07 19 00-1055	LF		3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.91 2.40	4.00
22 07 19 00-1056	LF		3" IPS (3-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.19 2.42	4.04
22 07 19 00-1057	LF		3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.44 2.44	4.06
22 07 19 00-1058	LF		4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.60 2.47	4.11
22 07 19 00-1059	LF		4" IPS (4-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.88 2.49	4.14
22 07 19 00-1060	LF		5" I.D. (5-9/16" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.02 2.50	4.18
22 07 19 00-1061	LF		6" IPS (6-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.35 2.57	4.28
22 07 19 00-1062	LF		8" IPS (8-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.85 2.64	4.40
22 07 19 00-1063			3/4" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-1022)</small>		
22 07 19 00-1064	LF		1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.50 2.27	3.78
22 07 19 00-1065	LF		3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.78 2.30	3.83
22 07 19 00-1066	LF		1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.19 2.37	3.95
22 07 19 00-1067	LF		5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.45 2.39	3.98
22 07 19 00-1068	LF		3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.55 2.40	4.00
22 07 19 00-1069	LF		1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.16 2.47	4.11
22 07 19 00-1070	LF		1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.67 2.50	4.18
22 07 19 00-1071	LF		1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.16 2.54	4.23
22 07 19 00-1072	LF		1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.30 2.54	4.23
22 07 19 00-1073	LF		2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.49 2.56	4.26
22 07 19 00-1074	LF		2" IPS (2-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.08 2.57	4.28
22 07 19 00-1075	LF		2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.40 2.60	4.33
22 07 19 00-1076	LF		2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.08 2.62	4.37
22 07 19 00-1077	LF		3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.56 2.64	4.40
22 07 19 00-1078	LF		3" IPS (3-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.28 2.66	4.43
22 07 19 00-1079	LF		3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.55 2.67	4.45
22 07 19 00-1080	LF		4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.64 2.71	4.51
22 07 19 00-1081	LF		4" IPS (4-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.50 2.72	4.54
22 07 19 00-1082	LF		5" IPS (5-9/16" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.97 2.74	4.56
22 07 19 00-1083	LF		6" IPS (6-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.50 2.77	4.62
22 07 19 00-1084	LF		8" IPS (8-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	22.36 2.84	4.73
22 07 19 00-1085			1" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-1022)</small>		
22 07 19 00-1086	LF		1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.18 2.50	4.16
22 07 19 00-1087	LF		3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.54 2.54	4.23
22 07 19 00-1088	LF		1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.97 2.60	4.33
22 07 19 00-1089	LF		5/8" I.D. (3/4" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.35 2.62	4.37
22 07 19 00-1090	LF		3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.69 2.64	4.40
22 07 19 00-1091	LF		1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.25 2.71	4.51
22 07 19 00-1092	LF		1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.15 2.77	4.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1093 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.61 2.81	4.62
22 07 19 00-1094 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.23 2.83	4.68
22 07 19 00-1095 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.45 2.84	4.73
22 07 19 00-1096 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.79 2.88	4.80
22 07 19 00-1097 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.83 2.91	4.86
22 07 19 00-1098 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.16 2.93	4.89
22 07 19 00-1099 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.54 2.94	4.91
22 07 19 00-1100 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.23 2.96	4.94
22 07 19 00-1101 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.57 2.98	4.96
22 07 19 00-1102 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	23.10 3.04	5.08
22 07 19 00-1103 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	24.82 3.08	5.13
22 07 19 00-1104 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	27.35 3.11	5.19
22 07 19 00-1105 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	30.03 3.18	5.30
22 07 19 00-1106 1-1/2" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-1022)</small>		
22 07 19 00-1107 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.42 2.80	4.67
22 07 19 00-1108 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.86 2.87	4.77
22 07 19 00-1109 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.26 2.88	4.80
22 07 19 00-1110 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.64 2.90	4.85
22 07 19 00-1111 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.17 2.96	4.95
22 07 19 00-1112 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.05 3.08	5.13
22 07 19 00-1113 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.29 3.10	5.06
22 07 19 00-1114 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	22.38 3.14	5.18
22 07 19 00-1115 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	23.04 3.18	5.30
22 07 19 00-1116 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	25.12 3.21	5.37
22 07 19 00-1117 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	27.10 3.25	5.43
22 07 19 00-1118 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	28.03 3.26	5.45
22 07 19 00-1119 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	28.96 3.29	5.46
22 07 19 00-1120 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	30.04 3.30	5.50
22 07 19 00-1121 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	30.72 3.31	5.52
22 07 19 00-1122 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	34.41 3.42	5.72
22 07 19 00-1123 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	36.40 3.48	5.80
22 07 19 00-1124 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	41.20 3.54	5.89
22 07 19 00-1125 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	45.96 3.64	6.07
22 07 19 00-1126 2" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-1022)</small>		
22 07 19 00-1127 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	25.53 3.09	5.15
22 07 19 00-1128 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	26.56 3.16	5.23
22 07 19 00-1129 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	28.36 3.17	5.27
22 07 19 00-1130 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	28.97 3.18	5.31
22 07 19 00-1131 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	30.46 3.25	5.42
22 07 19 00-1132 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	32.28 3.40	5.68
22 07 19 00-1133 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	33.38 3.43	5.54

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1134	LF	1-1/2"	IPS (1-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	35.33 3.49	5.73
22 07 19 00-1135	LF	2"	I.D. (2-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	37.19 3.56	5.92
22 07 19 00-1136	LF	2"	IPS (2-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	38.45 3.59	6.00
22 07 19 00-1137	LF	2-1/2"	I.D. (2-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	41.03 3.62	6.07
22 07 19 00-1138	LF	2-1/2"	IPS (2-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	41.34 3.65	6.08
22 07 19 00-1139	LF	3"	I.D. (3-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	43.76 3.67	6.09
22 07 19 00-1140	LF	3"	IPS (3-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	45.43 3.68	6.12
22 07 19 00-1141	LF	3-1/2"	I.D. (3-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	47.22 3.69	6.16
22 07 19 00-1142	LF	4"	I.D. (4-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	53.14 3.85	6.44
22 07 19 00-1143	LF	4"	IPS (4-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	56.59 3.94	6.57
22 07 19 00-1144	LF	5"	IPS (5-9/16" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	57.60 4.02	6.70
22 07 19 00-1145	LF	6"	IPS (6-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	64.75 4.18	6.97
22 07 19 00-1146			Flexible Polyolefin Tubing Closed Cell Foam Insulation <small>(22 07 19)</small> Note: UV stabilized, work temperature (-110 degree F to +210 degree F) 0 water vapor transmission. For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-1147			3/8" Wall Flexible Polyolefin Tubing Foam Insulation <small>(22 07 19 00-1146)</small>		
22 07 19 00-1148	LF	1/4"	I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.94 1.93	3.21
22 07 19 00-1149	LF	3/8"	I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.02 1.93	3.21
22 07 19 00-1150	LF	1/2"	I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.28 2.00	3.32
22 07 19 00-1151	LF	3/4"	I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.59 2.06	3.44
22 07 19 00-1152	LF	1"	I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.80 2.10	3.50
22 07 19 00-1153	LF	1-1/4"	I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.14 2.13	3.56
22 07 19 00-1154	LF	1-1/2"	I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.41 2.14	3.56
22 07 19 00-1155	LF	2"	I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.60 2.15	3.66
22 07 19 00-1156	LF	2-1/2"	I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.45 2.21	3.66
22 07 19 00-1157	LF	3"	I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.22 2.25	3.73
22 07 19 00-1158	LF	4"	I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.16 2.30	3.83
22 07 19 00-1159			1/2" Wall Flexible Polyolefin Tubing Foam Insulation <small>(22 07 19 00-1146)</small>		
22 07 19 00-1160	LF	1/4"	I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.77 2.10	3.50
22 07 19 00-1161	LF	3/8"	I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.85 2.11	3.50
22 07 19 00-1162	LF	1/2"	I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.00 2.13	3.56
22 07 19 00-1163	LF	3/4"	I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.22 2.15	3.56
22 07 19 00-1164	LF	1"	I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.48 2.20	3.66
22 07 19 00-1165	LF	1-1/4"	I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.86 2.23	3.73
22 07 19 00-1166	LF	1-1/2"	I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.29 2.27	3.78
22 07 19 00-1167	LF	2"	I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.70 2.30	3.83
22 07 19 00-1168	LF	2-1/2"	I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.61 2.37	3.95
22 07 19 00-1169	LF	3"	I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.42 2.40	4.00
22 07 19 00-1170	LF	4"	I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.95 2.47	4.11
22 07 19 00-1171			3/4" Wall Flexible Polyolefin Tubing Foam Insulation <small>(22 07 19 00-1146)</small>		
22 07 19 00-1172	LF	1/4"	I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.73 2.27	3.78



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1173 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.03	3.83
<i>For Work In Restricted Working Space, Add</i>	2.30	
22 07 19 00-1174 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.39	3.95
<i>For Work In Restricted Working Space, Add</i>	2.37	
22 07 19 00-1175 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.94	4.00
<i>For Work In Restricted Working Space, Add</i>	2.40	
22 07 19 00-1176 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.46	4.11
<i>For Work In Restricted Working Space, Add</i>	2.47	
22 07 19 00-1177 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	11.36	4.18
<i>For Work In Restricted Working Space, Add</i>	2.50	
22 07 19 00-1178 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	11.93	4.18
<i>For Work In Restricted Working Space, Add</i>	2.52	
22 07 19 00-1179 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	12.60	4.23
<i>For Work In Restricted Working Space, Add</i>	2.54	
22 07 19 00-1180 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	13.88	4.33
<i>For Work In Restricted Working Space, Add</i>	2.60	
22 07 19 00-1181 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	15.05	4.40
<i>For Work In Restricted Working Space, Add</i>	2.64	
22 07 19 00-1182 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	17.28	4.51
<i>For Work In Restricted Working Space, Add</i>	2.71	

22 07 19 00-1183 1" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)

22 07 19 00-1184 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.39	4.18
<i>For Work In Restricted Working Space, Add</i>	2.50	
22 07 19 00-1185 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.55	4.23
<i>For Work In Restricted Working Space, Add</i>	2.54	
22 07 19 00-1186 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.91	4.33
<i>For Work In Restricted Working Space, Add</i>	2.60	
22 07 19 00-1187 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.71	4.40
<i>For Work In Restricted Working Space, Add</i>	2.64	
22 07 19 00-1188 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	12.38	4.51
<i>For Work In Restricted Working Space, Add</i>	2.71	
22 07 19 00-1189 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	13.06	4.62
<i>For Work In Restricted Working Space, Add</i>	2.77	
22 07 19 00-1190 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	13.72	4.62
<i>For Work In Restricted Working Space, Add</i>	2.81	
22 07 19 00-1191 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	15.20	4.73
<i>For Work In Restricted Working Space, Add</i>	2.84	
22 07 19 00-1192 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	17.17	4.86
<i>For Work In Restricted Working Space, Add</i>	2.91	
22 07 19 00-1193 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	18.58	4.91
<i>For Work In Restricted Working Space, Add</i>	2.94	

22 10 Plumbing Piping (22)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22 11 Facility Water Distribution (22 10)

22 11 16 Domestic Water Piping (22 11)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22 11 16 00-0001 Galvanized Steel Pipe Assemblies (22 11 16)

Note: (ASTM A-53) Threaded and coupled. Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.

22 11 16 00-0002 LF 1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	18.06	4.10
<i>Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>		
<i>For ASTM 120, Deduct</i>	-0.67	
<i>For Work In Restricted Working Space, Add</i>	4.08	
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	4.73	
22 11 16 00-0003 LF 3/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	19.94	4.40
<i>Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>		
<i>For ASTM 120, Deduct</i>	-0.83	
<i>For Work In Restricted Working Space, Add</i>	4.31	
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	5.38	
22 11 16 00-0004 LF 1" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	22.78	4.82
<i>Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>		
<i>For ASTM 120, Deduct</i>	-1.11	
<i>For Work In Restricted Working Space, Add</i>	4.61	
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	6.41	
22 11 16 00-0005 LF 1-1/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	26.90	5.02
<i>Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</i>		
<i>For ASTM 120, Deduct</i>	-1.59	
<i>For Work In Restricted Working Space, Add</i>	4.90	
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	8.03	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0006	LF		1-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....29.15 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For ASTM 120, Deduct -1.82 For Work In Restricted Working Space, Add 5.11 For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 8.86	29.15	5.95
22 11 16 00-0007	LF		2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....35.53 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For ASTM 120, Deduct -2.42 For Work In Restricted Working Space, Add 5.81 For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 11.14	35.53	7.17
22 11 16 00-0008	LF		2-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....53.62 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For ASTM 120, Deduct -4.64 For Work In Restricted Working Space, Add 6.81 For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 18.45	53.62	8.50
22 11 16 00-0009	LF		3" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....65.95 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For ASTM 120, Deduct -5.76 For Work In Restricted Working Space, Add 8.26 For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 22.80	65.95	11.38
22 11 16 00-0010	LF		4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....105.59 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For ASTM 120, Deduct -11.37 For Work In Restricted Working Space, Add 8.95 For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 40.06	105.59	12.76
22 11 16 00-0011	LF		5" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....193.36 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For ASTM 120, Deduct -23.60 For Work In Restricted Working Space, Add 10.81 For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 78.00	193.36	16.31
22 11 16 00-0012	LF		6" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....235.00 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For ASTM 120, Deduct -29.11 For Work In Restricted Working Space, Add 12.28 For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 95.52	235.00	19.29
22 11 16 00-0013			Galvanized Steel Pipe And Threaded Fittings <small>(22 11 16)</small> Note: (ASTM A-53) Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.		
22 11 16 00-0014			Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe <small>(22 11 16 00-0013)</small> Note: ASTM A-53. Includes coupling. Welded pipe has a weld bead on the inside.		
22 11 16 00-0015	LF		1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....8.56 For ASTM 120, Deduct -0.35 For Work In Restricted Working Space, Add 1.86 For Schedule 80 Pipe, Add 1.75	8.56	4.10
22 11 16 00-0016	LF		3/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....9.72 For ASTM 120, Deduct -0.47 For Work In Restricted Working Space, Add 1.98 For Schedule 80 Pipe, Add 2.15	9.72	4.40
22 11 16 00-0017	LF		1" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....11.77 For ASTM 120, Deduct -0.69 For Work In Restricted Working Space, Add 2.15 For Schedule 80 Pipe, Add 2.93	11.77	4.82
22 11 16 00-0018	LF		1-1/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....13.83 For ASTM 120, Deduct -0.94 For Work In Restricted Working Space, Add 2.28 For Schedule 80 Pipe, Add 3.75	13.83	5.02
22 11 16 00-0019	LF		1-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....16.37 For ASTM 120, Deduct -1.12 For Work In Restricted Working Space, Add 2.67 For Schedule 80 Pipe, Add 4.47	16.37	5.95
22 11 16 00-0020	LF		2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....20.80 For ASTM 120, Deduct -1.50 For Work In Restricted Working Space, Add 3.23 For Schedule 80 Pipe, Add 5.89	20.80	7.17
22 11 16 00-0021	LF		2-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....28.71 For ASTM 120, Deduct -2.39 For Work In Restricted Working Space, Add 3.84 For Schedule 80 Pipe, Add 8.91	28.71	8.50
22 11 16 00-0022	LF		3" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....37.89 For ASTM 120, Deduct -3.12 For Work In Restricted Working Space, Add 5.12 For Schedule 80 Pipe, Add 11.70	37.89	11.38
22 11 16 00-0023	LF		4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe48.82 For ASTM 120, Deduct -4.44 For Work In Restricted Working Space, Add 5.76 For Schedule 80 Pipe, Add 16.14	48.82	12.76



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22 11 16 00-0024	LF		5" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Pipe, Add</i>	64.16 -5.96 7.33 21.51	16.31
22 11 16 00-0025	LF		6" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Pipe, Add</i>	80.43 -7.73 8.67 27.63	19.29
22 11 16 00-0026	LF		8" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Pipe, Add</i>	90.58 -8.35 10.47 30.22	23.32
22 11 16 00-0027			Seamless, Threaded And Coupled, Galvanized Steel Pipe <small>(22 11 16 00-0013)</small> Note: ASTM A-53. Includes coupling.		
22 11 16 00-0028	LF		1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Pipe, Add</i>	10.18 -0.60 1.86 2.53	4.10
22 11 16 00-0029	LF		3/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Pipe, Add</i>	11.37 -0.71 1.98 2.95	4.40
22 11 16 00-0030	LF		1" Schedule 40, Seamless, Threaded Galvanized Steel Pipe <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Pipe, Add</i>	12.69 -0.83 2.15 3.37	4.82
22 11 16 00-0031	LF		1-1/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Pipe, Add</i>	14.54 -1.04 2.28 4.10	5.02
22 11 16 00-0032	LF		1-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Pipe, Add</i>	16.85 -1.19 2.67 4.70	5.95
22 11 16 00-0033	LF		2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Pipe, Add</i>	19.82 -1.36 3.23 5.42	7.17
22 11 16 00-0034	LF		2-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Pipe, Add</i>	27.94 -2.27 3.84 8.54	8.50
22 11 16 00-0035	LF		3" Schedule 40, Seamless, Threaded Galvanized Steel Pipe <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Pipe, Add</i>	35.58 -2.78 5.12 10.59	11.38
22 11 16 00-0036	LF		4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Pipe, Add</i>	45.65 -3.97 5.76 14.62	12.76
22 11 16 00-0037	LF		5" Schedule 40, Seamless, Threaded Galvanized Steel Pipe <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Pipe, Add</i>	58.95 -5.18 7.33 19.01	16.31
22 11 16 00-0038	LF		6" Schedule 40, Seamless, Threaded Galvanized Steel Pipe <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Pipe, Add</i>	73.05 -6.62 8.67 24.09	19.29
22 11 16 00-0039			Galvanized Malleable Iron 90 Degree Elbows <small>(22 11 16 00-0013)</small>		
22 11 16 00-0040	EA		1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	33.70 -0.96 8.20 23.30	18.24
22 11 16 00-0041	EA		3/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	38.41 -1.17 9.18 28.42	20.40
22 11 16 00-0042	EA		1", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	48.65 -2.17 10.25 51.32	22.75
22 11 16 00-0043	EA		1-1/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	61.56 -3.44 11.60 80.18	25.83
22 11 16 00-0044	EA		1-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	73.48 -4.48 13.08 104.21	29.10

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22 11 16 00-0045	EA		2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	104.34	36.99
			<i>For ASTM 120, Deduct</i>	-7.34	
			<i>For Work In Restricted Working Space, Add</i>	16.62	
			<i>For 300 LB Rating, Add</i>	169.75	
22 11 16 00-0046	EA		2-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow	210.06	54.72
			<i>For ASTM 120, Deduct</i>	-19.21	
			<i>For Work In Restricted Working Space, Add</i>	24.59	
			<i>For 300 LB Rating, Add</i>	440.42	
22 11 16 00-0047	EA		3", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	319.04	71.94
			<i>For ASTM 120, Deduct</i>	-31.68	
			<i>For Work In Restricted Working Space, Add</i>	32.36	
			<i>For 300 LB Rating, Add</i>	724.48	
22 11 16 00-0048	EA		4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	484.43	74.66
			<i>For ASTM 120, Deduct</i>	-55.87	
			<i>For Work In Restricted Working Space, Add</i>	33.59	
			<i>For 300 LB Rating, Add</i>	1,273.08	
22 11 16 00-0049	EA		5", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	1,725.31	77.93
			<i>For ASTM 120, Deduct</i>	-241.27	
			<i>For Work In Restricted Working Space, Add</i>	35.05	
			<i>For 300 LB Rating, Add</i>	5,475.84	
22 11 16 00-0050	EA		6", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	1,604.99	81.48
			<i>For ASTM 120, Deduct</i>	-222.43	
			<i>For Work In Restricted Working Space, Add</i>	36.65	
			<i>For 300 LB Rating, Add</i>	5,048.99	
22 11 16 00-0051	EA		8", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	1,916.60	85.14
			<i>For ASTM 120, Deduct</i>	-268.34	
			<i>For Work In Restricted Working Space, Add</i>	38.30	
			<i>For 300 LB Rating, Add</i>	6,090.09	
22 11 16 00-0052			Galvanized Malleable Iron Reducing 90 Degree Elbows <small>(22 11 16 00-0013)</small>		
22 11 16 00-0053	EA		3/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	42.56	19.27
			<i>For ASTM 120, Deduct</i>	-2.04	
			<i>For Work In Restricted Working Space, Add</i>	8.69	
22 11 16 00-0054	EA		1" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	49.82	21.62
			<i>For ASTM 120, Deduct</i>	-2.62	
			<i>For Work In Restricted Working Space, Add</i>	9.71	
22 11 16 00-0055	EA		1" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	49.26	20.50
			<i>For ASTM 120, Deduct</i>	-2.78	
			<i>For Work In Restricted Working Space, Add</i>	9.22	
22 11 16 00-0056	EA		1-1/4" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	65.69	24.28
			<i>For ASTM 120, Deduct</i>	-4.39	
			<i>For Work In Restricted Working Space, Add</i>	10.92	
22 11 16 00-0057	EA		1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	69.79	23.06
			<i>For ASTM 120, Deduct</i>	-5.28	
			<i>For Work In Restricted Working Space, Add</i>	10.39	
22 11 16 00-0058	EA		1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	70.25	22.03
			<i>For ASTM 120, Deduct</i>	-5.59	
			<i>For Work In Restricted Working Space, Add</i>	9.90	
22 11 16 00-0059	EA		1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	87.92	27.46
			<i>For ASTM 120, Deduct</i>	-7.02	
			<i>For Work In Restricted Working Space, Add</i>	12.34	
22 11 16 00-0060	EA		1-1/2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	85.67	25.93
			<i>For ASTM 120, Deduct</i>	-7.02	
			<i>For Work In Restricted Working Space, Add</i>	11.66	
22 11 16 00-0061	EA		1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	83.88	24.70
			<i>For ASTM 120, Deduct</i>	-7.02	
			<i>For Work In Restricted Working Space, Add</i>	11.13	
22 11 16 00-0062	EA		2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	104.16	32.99
			<i>For ASTM 120, Deduct</i>	-8.20	
			<i>For Work In Restricted Working Space, Add</i>	14.85	
22 11 16 00-0063	EA		2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	109.69	31.36
			<i>For ASTM 120, Deduct</i>	-9.40	
			<i>For Work In Restricted Working Space, Add</i>	14.11	
22 11 16 00-0064	EA		2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	109.79	29.82
			<i>For ASTM 120, Deduct</i>	-9.75	
			<i>For Work In Restricted Working Space, Add</i>	13.43	
22 11 16 00-0065	EA		2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	92.31	28.69
			<i>For ASTM 120, Deduct</i>	-7.40	
			<i>For Work In Restricted Working Space, Add</i>	12.90	
22 11 16 00-0066	EA		2-1/2" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	253.94	45.81
			<i>For ASTM 120, Deduct</i>	-27.79	
			<i>For Work In Restricted Working Space, Add</i>	20.60	
22 11 16 00-0067	EA		2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	269.20	41.91
			<i>For ASTM 120, Deduct</i>	-30.96	
			<i>For Work In Restricted Working Space, Add</i>	18.84	
22 11 16 00-0068	EA		3" x 2-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	431.64	63.33
			<i>For ASTM 120, Deduct</i>	-50.51	
			<i>For Work In Restricted Working Space, Add</i>	28.48	
22 11 16 00-0069	EA		3" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	374.09	54.41
			<i>For ASTM 120, Deduct</i>	-43.87	
			<i>For Work In Restricted Working Space, Add</i>	24.49	
22 11 16 00-0070	EA		4" x 3", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	868.47	71.02
			<i>For ASTM 120, Deduct</i>	-114.30	
			<i>For Work In Restricted Working Space, Add</i>	31.95	



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 11 16 00-0071 Galvanized Malleable Iron 45 Degree Elbow <small>(22 11 16 00-0013)</small>			
22 11 16 00-0072	EA 1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	34.83	18.24
	For ASTM 120, Deduct	-1.13	
	For Work In Restricted Working Space, Add	8.20	
	For 300 LB Rating, Add	27.14	
22 11 16 00-0073	EA 3/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	41.37	20.40
	For ASTM 120, Deduct	-1.62	
	For Work In Restricted Working Space, Add	9.18	
	For 300 LB Rating, Add	38.49	
22 11 16 00-0074	EA 1", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	46.33	22.75
	For ASTM 120, Deduct	-1.83	
	For Work In Restricted Working Space, Add	10.25	
	For 300 LB Rating, Add	43.43	
22 11 16 00-0075	EA 1-1/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	61.40	25.83
	For ASTM 120, Deduct	-3.41	
	For Work In Restricted Working Space, Add	11.60	
	For 300 LB Rating, Add	79.64	
22 11 16 00-0076	EA 1-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	70.31	29.10
	For ASTM 120, Deduct	-4.01	
	For Work In Restricted Working Space, Add	13.08	
	For 300 LB Rating, Add	93.43	
22 11 16 00-0077	EA 2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	94.92	36.99
	For ASTM 120, Deduct	-5.93	
	For Work In Restricted Working Space, Add	16.62	
	For 300 LB Rating, Add	137.73	
22 11 16 00-0078	EA 2-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	219.50	54.72
	For ASTM 120, Deduct	-20.63	
	For Work In Restricted Working Space, Add	24.59	
	For 300 LB Rating, Add	472.52	
22 11 16 00-0079	EA 3", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	307.89	71.94
	For ASTM 120, Deduct	-30.00	
	For Work In Restricted Working Space, Add	32.36	
	For 300 LB Rating, Add	686.57	
22 11 16 00-0080	EA 4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	447.32	74.66
	For ASTM 120, Deduct	-50.30	
	For Work In Restricted Working Space, Add	33.59	
	For 300 LB Rating, Add	1,146.91	
22 11 16 00-0081	EA 5", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	1,471.90	77.93
	For ASTM 120, Deduct	-203.26	
	For Work In Restricted Working Space, Add	35.05	
	For 300 LB Rating, Add	4,614.25	
22 11 16 00-0082	EA 6", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	1,756.05	81.48
	For ASTM 120, Deduct	-245.09	
	For Work In Restricted Working Space, Add	36.65	
	For 300 LB Rating, Add	5,562.59	
22 11 16 00-0083	EA 8", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	2,096.02	85.14
	For ASTM 120, Deduct	-295.26	
	For Work In Restricted Working Space, Add	38.30	
	For 300 LB Rating, Add	6,700.12	
22 11 16 00-0084 Galvanized Malleable Iron Tees <small>(22 11 16 00-0013)</small>			
22 11 16 00-0085	EA 1/2", 150 LB, Galvanized Malleable Iron Tee	42.41	22.75
	For ASTM 120, Deduct	-1.24	
	For Work In Restricted Working Space, Add	10.25	
	For 300 LB Rating, Add	30.10	
22 11 16 00-0086	EA 3/4", 150 LB, Galvanized Malleable Iron Tee	53.02	26.33
	For ASTM 120, Deduct	-2.04	
	For Work In Restricted Working Space, Add	11.82	
	For 300 LB Rating, Add	48.64	
22 11 16 00-0087	EA 1", 150 LB, Galvanized Malleable Iron Tee	68.57	31.05
	For ASTM 120, Deduct	-3.30	
	For Work In Restricted Working Space, Add	13.97	
	For 300 LB Rating, Add	77.59	
22 11 16 00-0088	EA 1-1/4", 150 LB, Galvanized Malleable Iron Tee	90.30	36.99
	For ASTM 120, Deduct	-5.24	
	For Work In Restricted Working Space, Add	16.62	
	For 300 LB Rating, Add	122.02	
22 11 16 00-0089	EA 1-1/2", 150 LB, Galvanized Malleable Iron Tee	109.50	44.07
	For ASTM 120, Deduct	-6.51	
	For Work In Restricted Working Space, Add	19.83	
	For 300 LB Rating, Add	151.49	
22 11 16 00-0090	EA 2", 150 LB, Galvanized Malleable Iron Tee	152.50	54.72
	For ASTM 120, Deduct	-10.58	
	For Work In Restricted Working Space, Add	24.59	
	For 300 LB Rating, Add	244.72	
22 11 16 00-0091	EA 2-1/2", 150 LB, Galvanized Malleable Iron Tee	287.69	59.43
	For ASTM 120, Deduct	-29.79	
	For Work In Restricted Working Space, Add	26.73	
	For 300 LB Rating, Add	680.52	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0092	EA		3", 150 LB, Galvanized Malleable Iron Tee.....	340.73	71.94
			<i>For ASTM 120, Deduct</i>	-34.93	
			<i>For Work In Restricted Working Space, Add</i>	32.36	
			<i>For 300 LB Rating, Add</i>	798.23	
22 11 16 00-0093	EA		4", 150 LB, Galvanized Malleable Iron Tee.....	692.33	94.35
			<i>For ASTM 120, Deduct</i>	-82.63	
			<i>For Work In Restricted Working Space, Add</i>	42.43	
			<i>For 300 LB Rating, Add</i>	1,881.51	
22 11 16 00-0094	EA		5", 150 LB, Galvanized Malleable Iron Tee.....	1,899.63	112.00
			<i>For ASTM 120, Deduct</i>	-259.75	
			<i>For Work In Restricted Working Space, Add</i>	50.39	
			<i>For 300 LB Rating, Add</i>	5,897.79	
22 11 16 00-0095	EA		6", 150 LB, Galvanized Malleable Iron Tee.....	2,156.07	128.03
			<i>For ASTM 120, Deduct</i>	-294.62	
			<i>For Work In Restricted Working Space, Add</i>	57.58	
			<i>For 300 LB Rating, Add</i>	6,689.56	
22 11 16 00-0096	EA		8", 150 LB, Galvanized Malleable Iron Tee.....	2,564.08	152.02
			<i>For ASTM 120, Deduct</i>	-350.06	
			<i>For Work In Restricted Working Space, Add</i>	69.10	
			<i>For 300 LB Rating, Add</i>	7,948.54	
22 11 16 00-0097			Galvanized Malleable Iron Reducing Tee <small>(22 11 16 00-0013)</small>		
22 11 16 00-0098	EA		1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	53.34	22.75
			<i>For ASTM 120, Deduct</i>	-2.88	
			<i>For Work In Restricted Working Space, Add</i>	10.25	
			<i>For 300 LB Rating, Add</i>	67.26	
22 11 16 00-0099	EA		3/4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	58.32	26.33
			<i>For ASTM 120, Deduct</i>	-2.84	
			<i>For Work In Restricted Working Space, Add</i>	11.82	
			<i>For 300 LB Rating, Add</i>	66.66	
22 11 16 00-0100	EA		1", 150 LB, Galvanized Malleable Iron Reducing Tee.....	73.14	31.05
			<i>For ASTM 120, Deduct</i>	-3.99	
			<i>For Work In Restricted Working Space, Add</i>	13.97	
			<i>For 300 LB Rating, Add</i>	93.13	
22 11 16 00-0101	EA		1-1/4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	96.60	36.99
			<i>For ASTM 120, Deduct</i>	-6.18	
			<i>For Work In Restricted Working Space, Add</i>	16.62	
			<i>For 300 LB Rating, Add</i>	143.44	
22 11 16 00-0102	EA		1-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	117.01	44.07
			<i>For ASTM 120, Deduct</i>	-7.64	
			<i>For Work In Restricted Working Space, Add</i>	19.83	
			<i>For 300 LB Rating, Add</i>	177.03	
22 11 16 00-0103	EA		2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	156.28	54.72
			<i>For ASTM 120, Deduct</i>	-11.15	
			<i>For Work In Restricted Working Space, Add</i>	24.59	
			<i>For 300 LB Rating, Add</i>	257.57	
22 11 16 00-0104	EA		2-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	351.85	59.63
			<i>For ASTM 120, Deduct</i>	-39.37	
			<i>For Work In Restricted Working Space, Add</i>	26.82	
			<i>For 300 LB Rating, Add</i>	897.73	
22 11 16 00-0105	EA		3", 150 LB, Galvanized Malleable Iron Reducing Tee.....	449.96	73.07
			<i>For ASTM 120, Deduct</i>	-51.06	
			<i>For Work In Restricted Working Space, Add</i>	32.87	
			<i>For 300 LB Rating, Add</i>	1,163.90	
22 11 16 00-0106	EA		4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	1,128.19	94.35
			<i>For ASTM 120, Deduct</i>	-148.01	
			<i>For Work In Restricted Working Space, Add</i>	42.43	
			<i>For 300 LB Rating, Add</i>	3,363.44	
22 11 16 00-0107	EA		5", 150 LB, Galvanized Malleable Iron Reducing Tee.....	2,456.12	112.00
			<i>For ASTM 120, Deduct</i>	-343.23	
			<i>For Work In Restricted Working Space, Add</i>	50.39	
			<i>For 300 LB Rating, Add</i>	7,789.86	
22 11 16 00-0108	EA		6", 150 LB, Galvanized Malleable Iron Reducing Tee.....	2,787.91	128.03
			<i>For ASTM 120, Deduct</i>	-389.40	
			<i>For Work In Restricted Working Space, Add</i>	57.58	
			<i>For 300 LB Rating, Add</i>	8,837.81	
22 11 16 00-0109	EA		8", 150 LB, Galvanized Malleable Iron Reducing Tee.....	3,350.80	147.01
			<i>For ASTM 120, Deduct</i>	-469.51	
			<i>For Work In Restricted Working Space, Add</i>	66.22	
			<i>For 300 LB Rating, Add</i>	10,655.48	
22 11 16 00-0110			Galvanized Malleable Iron Couplings <small>(22 11 16 00-0013)</small>		
22 11 16 00-0111	EA		1/2", 150 LB, Galvanized Malleable Iron Coupling.....	33.62	18.24
			<i>For ASTM 120, Deduct</i>	-0.94	
			<i>For Work In Restricted Working Space, Add</i>	8.20	
			<i>For 300 LB Rating, Add</i>	23.03	
22 11 16 00-0112	EA		3/4", 150 LB, Galvanized Malleable Iron Coupling.....	37.84	20.40
			<i>For ASTM 120, Deduct</i>	-1.09	
			<i>For Work In Restricted Working Space, Add</i>	9.18	
			<i>For 300 LB Rating, Add</i>	26.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0113 EA 1", 150 LB, Galvanized Malleable Iron Coupling.....	46.04	22.75
<i>For ASTM 120, Deduct</i>	-1.78	
<i>For Work In Restricted Working Space, Add</i>	10.25	
<i>For 300 LB Rating, Add</i>	42.44	
22 11 16 00-0114 EA 1-1/4", 150 LB, Galvanized Malleable Iron Coupling.....	55.41	25.83
<i>For ASTM 120, Deduct</i>	-2.51	
<i>For Work In Restricted Working Space, Add</i>	11.60	
<i>For 300 LB Rating, Add</i>	59.27	
22 11 16 00-0115 EA 1-1/2", 150 LB, Galvanized Malleable Iron Coupling.....	62.64	29.10
<i>For ASTM 120, Deduct</i>	-2.86	
<i>For Work In Restricted Working Space, Add</i>	13.08	
<i>For 300 LB Rating, Add</i>	67.35	
22 11 16 00-0116 EA 2", 150 LB, Galvanized Malleable Iron Coupling.....	83.23	36.99
<i>For ASTM 120, Deduct</i>	-4.18	
<i>For Work In Restricted Working Space, Add</i>	16.62	
<i>For 300 LB Rating, Add</i>	97.98	
22 11 16 00-0117 EA 2-1/2", 150 LB, Galvanized Malleable Iron Coupling.....	167.19	54.72
<i>For ASTM 120, Deduct</i>	-12.78	
<i>For Work In Restricted Working Space, Add</i>	24.59	
<i>For 300 LB Rating, Add</i>	294.67	
22 11 16 00-0118 EA 3", 150 LB, Galvanized Malleable Iron Coupling.....	221.76	71.94
<i>For ASTM 120, Deduct</i>	-17.09	
<i>For Work In Restricted Working Space, Add</i>	32.36	
<i>For 300 LB Rating, Add</i>	393.73	
22 11 16 00-0119 EA 4", 150 LB, Galvanized Malleable Iron Coupling.....	353.87	74.66
<i>For ASTM 120, Deduct</i>	-36.29	
<i>For Work In Restricted Working Space, Add</i>	33.59	
<i>For 300 LB Rating, Add</i>	829.18	
22 11 16 00-0120 EA 5", 150 LB, Galvanized Malleable Iron Coupling.....	797.97	77.93
<i>For ASTM 120, Deduct</i>	-102.17	
<i>For Work In Restricted Working Space, Add</i>	35.05	
<i>For 300 LB Rating, Add</i>	2,322.89	
22 11 16 00-0121 EA 6", 150 LB, Galvanized Malleable Iron Coupling.....	898.15	81.48
<i>For ASTM 120, Deduct</i>	-116.40	
<i>For Work In Restricted Working Space, Add</i>	36.65	
<i>For 300 LB Rating, Add</i>	2,645.73	
22 11 16 00-0122 EA 8", 150 LB, Galvanized Malleable Iron Coupling.....	1,062.89	85.14
<i>For ASTM 120, Deduct</i>	-140.29	
<i>For Work In Restricted Working Space, Add</i>	38.30	
<i>For 300 LB Rating, Add</i>	3,187.48	
22 11 16 00-0123 Galvanized Malleable Iron Reducing Couplings (22 11 16 00-0013)		
22 11 16 00-0124 EA 1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	34.96	18.24
<i>For ASTM 120, Deduct</i>	-1.14	
<i>For Work In Restricted Working Space, Add</i>	8.20	
<i>For 300 LB Rating, Add</i>	27.58	
22 11 16 00-0125 EA 3/4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	38.75	20.40
<i>For ASTM 120, Deduct</i>	-1.22	
<i>For Work In Restricted Working Space, Add</i>	9.18	
<i>For 300 LB Rating, Add</i>	29.58	
22 11 16 00-0126 EA 1", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	47.76	22.75
<i>For ASTM 120, Deduct</i>	-2.04	
<i>For Work In Restricted Working Space, Add</i>	10.25	
<i>For 300 LB Rating, Add</i>	48.29	
22 11 16 00-0127 EA 1-1/4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	56.24	25.83
<i>For ASTM 120, Deduct</i>	-2.64	
<i>For Work In Restricted Working Space, Add</i>	11.60	
<i>For 300 LB Rating, Add</i>	62.09	
22 11 16 00-0128 EA 1-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	66.27	29.10
<i>For ASTM 120, Deduct</i>	-3.40	
<i>For Work In Restricted Working Space, Add</i>	13.08	
<i>For 300 LB Rating, Add</i>	79.69	
22 11 16 00-0129 EA 2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	86.32	36.99
<i>For ASTM 120, Deduct</i>	-4.64	
<i>For Work In Restricted Working Space, Add</i>	16.62	
<i>For 300 LB Rating, Add</i>	108.49	
22 11 16 00-0130 EA 2-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	168.27	54.72
<i>For ASTM 120, Deduct</i>	-12.95	
<i>For Work In Restricted Working Space, Add</i>	24.59	
<i>For 300 LB Rating, Add</i>	298.34	
22 11 16 00-0131 EA 3", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	218.53	71.94
<i>For ASTM 120, Deduct</i>	-16.60	
<i>For Work In Restricted Working Space, Add</i>	32.36	
<i>For 300 LB Rating, Add</i>	382.75	
22 11 16 00-0132 EA 4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	360.10	74.66
<i>For ASTM 120, Deduct</i>	-37.22	
<i>For Work In Restricted Working Space, Add</i>	33.59	
<i>For 300 LB Rating, Add</i>	850.36	
22 11 16 00-0133 EA 5", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	833.82	77.93
<i>For ASTM 120, Deduct</i>	-107.55	
<i>For Work In Restricted Working Space, Add</i>	35.05	
<i>For 300 LB Rating, Add</i>	2,444.78	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0134	EA		6", 150 LB, Galvanized Malleable Iron Reducing Coupling..... <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	938.99 -122.53 36.65 2,784.59	81.48
22 11 16 00-0135	EA		8", 150 LB, Galvanized Malleable Iron Reducing Coupling..... <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	1,112.48 -147.72 38.30 3,356.08	85.14
22 11 16 00-0136 Galvanized Malleable Iron Caps (22 11 16 00-0013)					
22 11 16 00-0137	EA		1/2", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	15.11 -0.35 3.84 8.59	8.50
22 11 16 00-0138	EA		3/4", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	16.84 -0.48 4.10 11.63	9.12
22 11 16 00-0139	EA		1", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	19.71 -0.59 4.73 14.38	10.55
22 11 16 00-0140	EA		1-1/4", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	21.73 -0.78 4.96 18.67	11.06
22 11 16 00-0141	EA		1-1/2", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	21.40 -0.73 4.96 17.55	11.06
22 11 16 00-0142	EA		2", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	32.46 -1.56 6.61 36.75	14.65
22 11 16 00-0143	EA		2-1/2", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	50.71 -3.51 8.20 81.13	18.24
22 11 16 00-0144	EA		3", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	66.33 -4.99 9.92 115.14	22.03
22 11 16 00-0145	EA		4", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	100.61 -9.33 11.52 213.85	25.62
22 11 16 00-0146	EA		5", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	254.54 -30.98 14.40 705.15	32.05
22 11 16 00-0147	EA		6", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	317.49 -39.05 17.15 888.52	38.10
22 11 16 00-0148	EA		8", 150 LB, Galvanized Malleable Iron Cap <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	401.18 -50.60 19.15 1,150.85	42.57
22 11 16 00-0149 Galvanized Malleable Iron FIP Threaded, Unions (22 11 16 00-0013)					
22 11 16 00-0150	EA		1/2", 150 LB, Galvanized Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	50.49 10.25	22.75
22 11 16 00-0151	EA		3/4", 150 LB, Galvanized Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	58.17 11.82	26.33
22 11 16 00-0152	EA		1", 150 LB, Galvanized Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	71.14 13.97	31.05
22 11 16 00-0153	EA		1-1/4", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	90.91 16.62	36.99
22 11 16 00-0154	EA		1-1/2", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	109.15 19.83	44.07
22 11 16 00-0155	EA		2", 150 LB, Galvanized Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	131.45 24.59	54.72
22 11 16 00-0156	EA		2-1/2", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	292.88 36.30	80.64
22 11 16 00-0157	EA		3", 150 LB, Galvanized Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	399.78 47.77	106.06
22 11 16 00-0158	EA		1/2", 250 LB, Galvanized Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	67.35 10.25	22.75
22 11 16 00-0159	EA		3/4", 250 LB, Galvanized Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	69.58 11.82	26.33
22 11 16 00-0160	EA		1", 250 LB, Galvanized Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	83.97 13.97	31.05



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0161	EA			1-1/4", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	112.02 16.61	36.99
22 11 16 00-0162	EA			1-1/2", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	131.31 19.83	44.07
22 11 16 00-0163	EA			2", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	174.05 24.59	54.72
22 11 16 00-0164	EA			2-1/2", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	363.25 36.31	80.64
22 11 16 00-0165	EA			3", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	530.88 47.77	106.06
22 11 16 00-0166	EA			4", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	748.28 49.59	110.17
22 11 16 00-0167	EA			1/2", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	71.98 10.25	22.75
22 11 16 00-0168	EA			3/4", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	80.43 11.82	26.33
22 11 16 00-0169	EA			1", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	100.99 13.97	31.05
22 11 16 00-0170	EA			1-1/4", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	131.26 16.61	36.99
22 11 16 00-0171	EA			1-1/2", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	157.48 19.83	44.07
22 11 16 00-0172	EA			2", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	191.64 24.59	54.72
22 11 16 00-0173	EA			2-1/2", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	426.93 36.31	80.64
22 11 16 00-0174	EA			3", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	676.61 47.77	106.06
22 11 16 00-0175	EA			4", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	1,462.89 49.59	110.17

22 11 16 00-0176 Galvanized Steel Nipples (22 11 16 00-0013)

Note: ASTM A-53.

22 11 16 00-0177	EA			3/8" x Close, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	17.20 -0.38 4.39 2.92	9.73
22 11 16 00-0178	EA			1/2" x Close, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	16.71 -0.31 4.39 2.36	9.73
22 11 16 00-0179	EA			3/4" x Close, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	17.15 -0.38 4.39 2.86	9.73
22 11 16 00-0180	EA			1" x Close, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	19.21 -0.52 4.73 3.93	10.55
22 11 16 00-0181	EA			1-1/4" x Close, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	21.70 -0.69 5.12 5.27	11.38
22 11 16 00-0182	EA			1-1/2" x Close, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	22.51 -0.81 5.12 6.19	11.38
22 11 16 00-0183	EA			2" x Close, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	29.69 -1.15 6.61 8.72	14.65
22 11 16 00-0184	EA			2-1/2" x Close, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	50.10 -3.42 8.20 25.96	18.24
22 11 16 00-0185	EA			3" x Close, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	60.33 -4.09 9.92 31.10	22.03
22 11 16 00-0186	EA			4" x Close, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	79.28 -6.13 11.52 46.61	25.62
22 11 16 00-0187	EA			3/8" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	17.58 -0.44 4.39 3.35	9.73
22 11 16 00-0188	EA			1/2" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	16.82 -0.33 4.39 2.49	9.73

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0189	EA		3/4" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	17.38	9.73
			<i>For ASTM 120, Deduct</i>	-0.41	
			<i>For Work In Restricted Working Space, Add</i>	4.39	
			<i>For Schedule 80 Nipples, Add</i>	3.12	
22 11 16 00-0190	EA		3/8" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	17.58	9.73
			<i>For ASTM 120, Deduct</i>	-0.44	
			<i>For Work In Restricted Working Space, Add</i>	4.39	
			<i>For Schedule 80 Nipples, Add</i>	3.35	
22 11 16 00-0191	EA		1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	16.82	9.73
			<i>For ASTM 120, Deduct</i>	-0.33	
			<i>For Work In Restricted Working Space, Add</i>	4.39	
			<i>For Schedule 80 Nipples, Add</i>	2.49	
22 11 16 00-0192	EA		3/4" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	17.38	9.73
			<i>For ASTM 120, Deduct</i>	-0.41	
			<i>For Work In Restricted Working Space, Add</i>	4.39	
			<i>For Schedule 80 Nipples, Add</i>	3.12	
22 11 16 00-0193	EA		1" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	19.83	10.55
			<i>For ASTM 120, Deduct</i>	-0.61	
			<i>For Work In Restricted Working Space, Add</i>	4.73	
			<i>For Schedule 80 Nipples, Add</i>	4.64	
22 11 16 00-0194	EA		1-1/4" x 2" Long, Schedule 40 Galvanized Steel Nipple	22.04	11.38
			<i>For ASTM 120, Deduct</i>	-0.74	
			<i>For Work In Restricted Working Space, Add</i>	5.12	
			<i>For Schedule 80 Nipples, Add</i>	5.65	
22 11 16 00-0195	EA		1-1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple	22.91	11.38
			<i>For ASTM 120, Deduct</i>	-0.87	
			<i>For Work In Restricted Working Space, Add</i>	5.12	
			<i>For Schedule 80 Nipples, Add</i>	6.65	
22 11 16 00-0196	EA		3/8" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	18.55	9.73
			<i>For ASTM 120, Deduct</i>	-0.59	
			<i>For Work In Restricted Working Space, Add</i>	4.39	
			<i>For Schedule 80 Nipples, Add</i>	4.46	
22 11 16 00-0197	EA		1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	17.20	9.73
			<i>For ASTM 120, Deduct</i>	-0.38	
			<i>For Work In Restricted Working Space, Add</i>	4.39	
			<i>For Schedule 80 Nipples, Add</i>	2.92	
22 11 16 00-0198	EA		3/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	17.66	9.73
			<i>For ASTM 120, Deduct</i>	-0.45	
			<i>For Work In Restricted Working Space, Add</i>	4.39	
			<i>For Schedule 80 Nipples, Add</i>	3.44	
22 11 16 00-0199	EA		1" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	20.16	10.55
			<i>For ASTM 120, Deduct</i>	-0.66	
			<i>For Work In Restricted Working Space, Add</i>	4.73	
			<i>For Schedule 80 Nipples, Add</i>	5.02	
22 11 16 00-0200	EA		1-1/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	22.53	11.38
			<i>For ASTM 120, Deduct</i>	-0.82	
			<i>For Work In Restricted Working Space, Add</i>	5.12	
			<i>For Schedule 80 Nipples, Add</i>	6.21	
22 11 16 00-0201	EA		1-1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	23.57	11.38
			<i>For ASTM 120, Deduct</i>	-0.97	
			<i>For Work In Restricted Working Space, Add</i>	5.12	
			<i>For Schedule 80 Nipples, Add</i>	7.40	
22 11 16 00-0202	EA		2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	30.65	14.65
			<i>For ASTM 120, Deduct</i>	-1.29	
			<i>For Work In Restricted Working Space, Add</i>	6.61	
			<i>For Schedule 80 Nipples, Add</i>	9.82	
22 11 16 00-0203	EA		3/8" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	18.55	9.73
			<i>For ASTM 120, Deduct</i>	-0.59	
			<i>For Work In Restricted Working Space, Add</i>	4.39	
			<i>For Schedule 80 Nipples, Add</i>	4.46	
22 11 16 00-0204	EA		1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	17.20	9.73
			<i>For ASTM 120, Deduct</i>	-0.38	
			<i>For Work In Restricted Working Space, Add</i>	4.39	
			<i>For Schedule 80 Nipples, Add</i>	2.92	
22 11 16 00-0205	EA		3/4" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	17.66	9.73
			<i>For ASTM 120, Deduct</i>	-0.45	
			<i>For Work In Restricted Working Space, Add</i>	4.39	
			<i>For Schedule 80 Nipples, Add</i>	3.44	
22 11 16 00-0206	EA		1" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	20.16	10.55
			<i>For ASTM 120, Deduct</i>	-0.66	
			<i>For Work In Restricted Working Space, Add</i>	4.73	
			<i>For Schedule 80 Nipples, Add</i>	5.02	
22 11 16 00-0207	EA		1-1/4" x 3" Long, Schedule 40 Galvanized Steel Nipple	22.53	11.38
			<i>For ASTM 120, Deduct</i>	-0.82	
			<i>For Work In Restricted Working Space, Add</i>	5.12	
			<i>For Schedule 80 Nipples, Add</i>	6.21	
22 11 16 00-0208	EA		1-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	23.57	11.38
			<i>For ASTM 120, Deduct</i>	-0.97	
			<i>For Work In Restricted Working Space, Add</i>	5.12	
			<i>For Schedule 80 Nipples, Add</i>	7.40	
22 11 16 00-0209	EA		2" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	30.65	14.65
			<i>For ASTM 120, Deduct</i>	-1.29	
			<i>For Work In Restricted Working Space, Add</i>	6.61	
			<i>For Schedule 80 Nipples, Add</i>	9.82	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0210	EA		2-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	50.97 -3.55 8.20 26.95	18.24
22 11 16 00-0211	EA		3" x 3" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	64.09 -4.66 9.92 35.39	22.03
22 11 16 00-0212	EA		3/8" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	19.29 -0.70 4.39 5.30	9.73
22 11 16 00-0213	EA		1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	17.80 -0.47 4.39 3.60	9.73
22 11 16 00-0214	EA		3/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	18.55 -0.59 4.39 4.46	9.73
22 11 16 00-0215	EA		1" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	21.05 -0.79 4.73 6.03	10.55
22 11 16 00-0216	EA		1-1/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	23.57 -0.97 5.12 7.40	11.38
22 11 16 00-0217	EA		1-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	25.28 -1.23 5.12 9.35	11.38
22 11 16 00-0218	EA		2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	32.49 -1.57 6.61 11.91	14.65
22 11 16 00-0219	EA		2-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	54.77 -4.12 8.20 31.28	18.24
22 11 16 00-0220	EA		3" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	69.47 -5.46 9.92 41.52	22.03
22 11 16 00-0221	EA		3/8" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	19.29 -0.70 4.39 5.30	9.73
22 11 16 00-0222	EA		1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	17.80 -0.47 4.39 3.60	9.73
22 11 16 00-0223	EA		3/4" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	19.29 -0.70 4.39 5.30	9.73
22 11 16 00-0224	EA		1" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	21.05 -0.79 4.73 6.03	10.55
22 11 16 00-0225	EA		1-1/4" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	23.57 -0.97 5.12 7.40	11.38
22 11 16 00-0226	EA		1-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	25.28 -1.23 5.12 9.35	11.38
22 11 16 00-0227	EA		2" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	32.58 -1.58 6.61 12.02	14.65
22 11 16 00-0228	EA		2-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	54.77 -4.12 8.20 31.28	18.24
22 11 16 00-0229	EA		3" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	69.47 -5.46 9.92 41.52	22.03
22 11 16 00-0230	EA		4" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 Nipples, Add</i>	87.29 -7.34 11.52 55.75	25.62

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0231	EA		3/8" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	21.04	9.73
			<i>For ASTM 120, Deduct</i>	-0.96	
			<i>For Work In Restricted Working Space, Add</i>	4.39	
			<i>For Schedule 80 Nipples, Add</i>	7.30	
22 11 16 00-0232	EA		1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	18.44	9.73
			<i>For ASTM 120, Deduct</i>	-0.57	
			<i>For Work In Restricted Working Space, Add</i>	4.39	
			<i>For Schedule 80 Nipples, Add</i>	4.33	
22 11 16 00-0233	EA		3/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.31	9.73
			<i>For ASTM 120, Deduct</i>	-0.70	
			<i>For Work In Restricted Working Space, Add</i>	4.39	
			<i>For Schedule 80 Nipples, Add</i>	5.32	
22 11 16 00-0234	EA		1" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	22.25	10.55
			<i>For ASTM 120, Deduct</i>	-0.97	
			<i>For Work In Restricted Working Space, Add</i>	4.73	
			<i>For Schedule 80 Nipples, Add</i>	7.40	
22 11 16 00-0235	EA		1-1/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	25.11	11.38
			<i>For ASTM 120, Deduct</i>	-1.20	
			<i>For Work In Restricted Working Space, Add</i>	5.12	
			<i>For Schedule 80 Nipples, Add</i>	9.15	
22 11 16 00-0236	EA		1-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	27.00	11.38
			<i>For ASTM 120, Deduct</i>	-1.49	
			<i>For Work In Restricted Working Space, Add</i>	5.12	
			<i>For Schedule 80 Nipples, Add</i>	11.31	
22 11 16 00-0237	EA		2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	35.38	14.65
			<i>For ASTM 120, Deduct</i>	-2.00	
			<i>For Work In Restricted Working Space, Add</i>	6.61	
			<i>For Schedule 80 Nipples, Add</i>	15.21	
22 11 16 00-0238	EA		2-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	57.93	18.24
			<i>For ASTM 120, Deduct</i>	-4.59	
			<i>For Work In Restricted Working Space, Add</i>	8.20	
			<i>For Schedule 80 Nipples, Add</i>	34.88	
22 11 16 00-0239	EA		3" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	75.50	22.03
			<i>For ASTM 120, Deduct</i>	-6.37	
			<i>For Work In Restricted Working Space, Add</i>	9.92	
			<i>For Schedule 80 Nipples, Add</i>	48.39	
22 11 16 00-0240	EA		4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	93.22	25.62
			<i>For ASTM 120, Deduct</i>	-8.22	
			<i>For Work In Restricted Working Space, Add</i>	11.52	
			<i>For Schedule 80 Nipples, Add</i>	62.51	
22 11 16 00-0241	EA		3/8" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	21.04	9.73
			<i>For ASTM 120, Deduct</i>	-0.96	
			<i>For Work In Restricted Working Space, Add</i>	4.39	
			<i>For Schedule 80 Nipples, Add</i>	7.30	
22 11 16 00-0242	EA		1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	18.44	9.73
			<i>For ASTM 120, Deduct</i>	-0.57	
			<i>For Work In Restricted Working Space, Add</i>	4.39	
			<i>For Schedule 80 Nipples, Add</i>	4.33	
22 11 16 00-0243	EA		3/4" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	19.31	9.73
			<i>For ASTM 120, Deduct</i>	-0.70	
			<i>For Work In Restricted Working Space, Add</i>	4.39	
			<i>For Schedule 80 Nipples, Add</i>	5.32	
22 11 16 00-0244	EA		1" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	22.25	10.55
			<i>For ASTM 120, Deduct</i>	-0.97	
			<i>For Work In Restricted Working Space, Add</i>	4.73	
			<i>For Schedule 80 Nipples, Add</i>	7.40	
22 11 16 00-0245	EA		1-1/4" x 5" Long, Schedule 40 Galvanized Steel Nipple	25.11	11.38
			<i>For ASTM 120, Deduct</i>	-1.20	
			<i>For Work In Restricted Working Space, Add</i>	5.12	
			<i>For Schedule 80 Nipples, Add</i>	9.15	
22 11 16 00-0246	EA		1-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	27.00	11.38
			<i>For ASTM 120, Deduct</i>	-1.49	
			<i>For Work In Restricted Working Space, Add</i>	5.12	
			<i>For Schedule 80 Nipples, Add</i>	11.31	
22 11 16 00-0247	EA		2" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	35.38	14.65
			<i>For ASTM 120, Deduct</i>	-2.00	
			<i>For Work In Restricted Working Space, Add</i>	6.61	
			<i>For Schedule 80 Nipples, Add</i>	15.21	
22 11 16 00-0248	EA		2-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	57.93	18.24
			<i>For ASTM 120, Deduct</i>	-4.59	
			<i>For Work In Restricted Working Space, Add</i>	8.20	
			<i>For Schedule 80 Nipples, Add</i>	34.88	
22 11 16 00-0249	EA		3" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	75.50	22.03
			<i>For ASTM 120, Deduct</i>	-6.37	
			<i>For Work In Restricted Working Space, Add</i>	9.92	
			<i>For Schedule 80 Nipples, Add</i>	48.39	
22 11 16 00-0250	EA		4" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	93.22	25.62
			<i>For ASTM 120, Deduct</i>	-8.22	
			<i>For Work In Restricted Working Space, Add</i>	11.52	
			<i>For Schedule 80 Nipples, Add</i>	62.51	
22 11 16 00-0251	EA		3/8" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	21.76	9.73
			<i>For ASTM 120, Deduct</i>	-1.07	
			<i>For Work In Restricted Working Space, Add</i>	4.39	
			<i>For Schedule 80 Nipples, Add</i>	8.12	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0252	EA			1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple 18.95		9.73
				<i>For ASTM 120, Deduct</i>	-0.65	
				<i>For Work In Restricted Working Space, Add</i>	4.39	
				<i>For Schedule 80 Nipples, Add</i>	4.91	
22 11 16 00-0253	EA			3/4" x 6" Long, Schedule 40 Galvanized Steel Nipple 20.24		9.73
				<i>For ASTM 120, Deduct</i>	-0.84	
				<i>For Work In Restricted Working Space, Add</i>	4.39	
				<i>For Schedule 80 Nipples, Add</i>	6.38	
22 11 16 00-0254	EA			1" x 6" Long, Schedule 40 Galvanized Steel Nipple 23.12		10.55
				<i>For ASTM 120, Deduct</i>	-1.10	
				<i>For Work In Restricted Working Space, Add</i>	4.73	
				<i>For Schedule 80 Nipples, Add</i>	8.39	
22 11 16 00-0255	EA			1-1/4" x 6" Long, Schedule 40 Galvanized Steel Nipple 26.40		11.38
				<i>For ASTM 120, Deduct</i>	-1.40	
				<i>For Work In Restricted Working Space, Add</i>	5.12	
				<i>For Schedule 80 Nipples, Add</i>	10.62	
22 11 16 00-0256	EA			1-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple 28.24		11.38
				<i>For ASTM 120, Deduct</i>	-1.67	
				<i>For Work In Restricted Working Space, Add</i>	5.12	
				<i>For Schedule 80 Nipples, Add</i>	12.72	
22 11 16 00-0257	EA			2" x 6" Long, Schedule 40 Galvanized Steel Nipple 37.54		14.65
				<i>For ASTM 120, Deduct</i>	-2.33	
				<i>For Work In Restricted Working Space, Add</i>	6.61	
				<i>For Schedule 80 Nipples, Add</i>	17.67	
22 11 16 00-0258	EA			2-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple 60.95		18.24
				<i>For ASTM 120, Deduct</i>	-5.04	
				<i>For Work In Restricted Working Space, Add</i>	8.20	
				<i>For Schedule 80 Nipples, Add</i>	38.33	
22 11 16 00-0259	EA			3" x 6" Long, Schedule 40 Galvanized Steel Nipple 77.94		22.03
				<i>For ASTM 120, Deduct</i>	-6.73	
				<i>For Work In Restricted Working Space, Add</i>	9.92	
				<i>For Schedule 80 Nipples, Add</i>	51.17	
22 11 16 00-0260	EA			4" x 6" Long, Schedule 40 Galvanized Steel Nipple 99.00		25.62
				<i>For ASTM 120, Deduct</i>	-9.09	
				<i>For Work In Restricted Working Space, Add</i>	11.52	
				<i>For Schedule 80 Nipples, Add</i>	69.10	
22 11 16 00-0261	EA			3/8" x 8" Long, Schedule 40 Galvanized Steel Nipple 43.08		9.73
				<i>For ASTM 120, Deduct</i>	-4.27	
				<i>For Work In Restricted Working Space, Add</i>	4.39	
				<i>For Schedule 80 Nipples, Add</i>	32.42	
22 11 16 00-0262	EA			1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple 22.24		9.73
				<i>For ASTM 120, Deduct</i>	-1.14	
				<i>For Work In Restricted Working Space, Add</i>	4.39	
				<i>For Schedule 80 Nipples, Add</i>	8.66	
22 11 16 00-0263	EA			3/4" x 8" Long, Schedule 40 Galvanized Steel Nipple 24.36		9.73
				<i>For ASTM 120, Deduct</i>	-1.46	
				<i>For Work In Restricted Working Space, Add</i>	4.39	
				<i>For Schedule 80 Nipples, Add</i>	11.08	
22 11 16 00-0264	EA			1" x 8" Long, Schedule 40 Galvanized Steel Nipple 28.08		10.55
				<i>For ASTM 120, Deduct</i>	-1.85	
				<i>For Work In Restricted Working Space, Add</i>	4.73	
				<i>For Schedule 80 Nipples, Add</i>	14.04	
22 11 16 00-0265	EA			1-1/4" x 8" Long, Schedule 40 Galvanized Steel Nipple 32.18		11.38
				<i>For ASTM 120, Deduct</i>	-2.27	
				<i>For Work In Restricted Working Space, Add</i>	5.12	
				<i>For Schedule 80 Nipples, Add</i>	17.21	
22 11 16 00-0266	EA			1-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple 34.40		11.38
				<i>For ASTM 120, Deduct</i>	-2.60	
				<i>For Work In Restricted Working Space, Add</i>	5.12	
				<i>For Schedule 80 Nipples, Add</i>	19.74	
22 11 16 00-0267	EA			2" x 8" Long, Schedule 40 Galvanized Steel Nipple 47.30		14.65
				<i>For ASTM 120, Deduct</i>	-3.79	
				<i>For Work In Restricted Working Space, Add</i>	6.61	
				<i>For Schedule 80 Nipples, Add</i>	28.80	
22 11 16 00-0268	EA			2-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple 70.60		18.24
				<i>For ASTM 120, Deduct</i>	-6.49	
				<i>For Work In Restricted Working Space, Add</i>	8.20	
				<i>For Schedule 80 Nipples, Add</i>	49.33	
22 11 16 00-0269	EA			3" x 8" Long, Schedule 40 Galvanized Steel Nipple 93.53		22.03
				<i>For ASTM 120, Deduct</i>	-9.07	
				<i>For Work In Restricted Working Space, Add</i>	9.92	
				<i>For Schedule 80 Nipples, Add</i>	68.95	
22 11 16 00-0270	EA			4" x 8" Long, Schedule 40 Galvanized Steel Nipple 110.72		25.62
				<i>For ASTM 120, Deduct</i>	-10.85	
				<i>For Work In Restricted Working Space, Add</i>	11.52	
				<i>For Schedule 80 Nipples, Add</i>	82.46	
22 11 16 00-0271	EA			3/8" x 10" Long, Schedule 40 Galvanized Steel Nipple 28.20		9.73
				<i>For ASTM 120, Deduct</i>	-2.03	
				<i>For Work In Restricted Working Space, Add</i>	4.39	
				<i>For Schedule 80 Nipples, Add</i>	15.46	
22 11 16 00-0272	EA			1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple 23.67		9.73
				<i>For ASTM 120, Deduct</i>	-1.35	
				<i>For Work In Restricted Working Space, Add</i>	4.39	
				<i>For Schedule 80 Nipples, Add</i>	10.29	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0273	EA		3/4" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	25.42	9.73
			<i>For ASTM 120, Deduct</i>	-1.62	
			<i>For Work In Restricted Working Space, Add</i>	4.39	
			<i>For Schedule 80 Nipples, Add</i>	12.29	
22 11 16 00-0274	EA		1" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	29.84	10.55
			<i>For ASTM 120, Deduct</i>	-2.11	
			<i>For Work In Restricted Working Space, Add</i>	4.73	
			<i>For Schedule 80 Nipples, Add</i>	16.05	
22 11 16 00-0275	EA		1-1/4" x 10" Long, Schedule 40 Galvanized Steel Nipple	35.14	11.38
			<i>For ASTM 120, Deduct</i>	-2.71	
			<i>For Work In Restricted Working Space, Add</i>	5.12	
			<i>For Schedule 80 Nipples, Add</i>	20.59	
22 11 16 00-0276	EA		1-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple	37.27	11.38
			<i>For ASTM 120, Deduct</i>	-3.03	
			<i>For Work In Restricted Working Space, Add</i>	5.12	
			<i>For Schedule 80 Nipples, Add</i>	23.02	
22 11 16 00-0277	EA		2" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	51.59	14.65
			<i>For ASTM 120, Deduct</i>	-4.43	
			<i>For Work In Restricted Working Space, Add</i>	6.61	
			<i>For Schedule 80 Nipples, Add</i>	33.69	
22 11 16 00-0278	EA		2-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple	76.65	18.24
			<i>For ASTM 120, Deduct</i>	-7.40	
			<i>For Work In Restricted Working Space, Add</i>	8.20	
			<i>For Schedule 80 Nipples, Add</i>	56.22	
22 11 16 00-0279	EA		3" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	102.05	22.03
			<i>For ASTM 120, Deduct</i>	-10.35	
			<i>For Work In Restricted Working Space, Add</i>	9.92	
			<i>For Schedule 80 Nipples, Add</i>	78.66	
22 11 16 00-0280	EA		4" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	122.22	25.62
			<i>For ASTM 120, Deduct</i>	-12.57	
			<i>For Work In Restricted Working Space, Add</i>	11.52	
			<i>For Schedule 80 Nipples, Add</i>	95.57	
22 11 16 00-0281	EA		3/8" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	29.67	9.73
			<i>For ASTM 120, Deduct</i>	-2.25	
			<i>For Work In Restricted Working Space, Add</i>	4.39	
			<i>For Schedule 80 Nipples, Add</i>	17.13	
22 11 16 00-0282	EA		1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	24.91	9.73
			<i>For ASTM 120, Deduct</i>	-1.54	
			<i>For Work In Restricted Working Space, Add</i>	4.39	
			<i>For Schedule 80 Nipples, Add</i>	11.71	
22 11 16 00-0283	EA		3/4" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	26.74	9.73
			<i>For ASTM 120, Deduct</i>	-1.82	
			<i>For Work In Restricted Working Space, Add</i>	4.39	
			<i>For Schedule 80 Nipples, Add</i>	13.79	
22 11 16 00-0284	EA		1" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	32.15	10.55
			<i>For ASTM 120, Deduct</i>	-2.46	
			<i>For Work In Restricted Working Space, Add</i>	4.73	
			<i>For Schedule 80 Nipples, Add</i>	18.68	
22 11 16 00-0285	EA		1-1/4" x 12" Long, Schedule 40 Galvanized Steel Nipple	38.76	11.38
			<i>For ASTM 120, Deduct</i>	-3.25	
			<i>For Work In Restricted Working Space, Add</i>	5.12	
			<i>For Schedule 80 Nipples, Add</i>	24.72	
22 11 16 00-0286	EA		1-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	40.18	11.38
			<i>For ASTM 120, Deduct</i>	-3.47	
			<i>For Work In Restricted Working Space, Add</i>	5.12	
			<i>For Schedule 80 Nipples, Add</i>	26.33	
22 11 16 00-0287	EA		2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	55.95	14.65
			<i>For ASTM 120, Deduct</i>	-5.09	
			<i>For Work In Restricted Working Space, Add</i>	6.61	
			<i>For Schedule 80 Nipples, Add</i>	38.66	
22 11 16 00-0288	EA		2-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	82.52	18.24
			<i>For ASTM 120, Deduct</i>	-8.28	
			<i>For Work In Restricted Working Space, Add</i>	8.20	
			<i>For Schedule 80 Nipples, Add</i>	62.92	
22 11 16 00-0289	EA		3" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	110.63	22.03
			<i>For ASTM 120, Deduct</i>	-11.64	
			<i>For Work In Restricted Working Space, Add</i>	9.92	
			<i>For Schedule 80 Nipples, Add</i>	88.44	
22 11 16 00-0290	EA		4" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	133.82	25.62
			<i>For ASTM 120, Deduct</i>	-14.31	
			<i>For Work In Restricted Working Space, Add</i>	11.52	
			<i>For Schedule 80 Nipples, Add</i>	108.79	
22 11 16 00-0291			Galvanized Malleable Iron Square Head Plugs (22 11 16 00-0013)		
22 11 16 00-0292	EA		1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	17.05	7.28
			<i>For Work In Restricted Working Space, Add</i>	3.28	
			<i>For 300 LB Rating, Add</i>	21.46	
22 11 16 00-0293	EA		3/4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	18.35	8.20
			<i>For Work In Restricted Working Space, Add</i>	3.67	
			<i>For 300 LB Rating, Add</i>	21.54	
22 11 16 00-0294	EA		1", 150 LB, Galvanized Malleable Iron Square Head Plug.....	20.37	9.12
			<i>For Work In Restricted Working Space, Add</i>	4.10	
			<i>For 300 LB Rating, Add</i>	23.63	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0295	EA	1-1/4"		150 LB, Galvanized Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	25.79 4.64 36.02	10.35
22 11 16 00-0296	EA	1-1/2"		150 LB, Galvanized Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	31.34 5.23 48.31	11.58
22 11 16 00-0297	EA	2"		150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	39.83 6.65 61.41	14.75
22 11 16 00-0298	EA	2-1/2"		150 LB, Galvanized Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	67.25 9.84 119.13	21.83
22 11 16 00-0299	EA	3"		150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	92.04 12.95 168.82	28.80
22 11 16 00-0300	EA	4"		150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	146.30 13.44 347.82	29.85
22 11 16 00-0301	EA	5"		150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	232.98 14.02 636.02	31.19
22 11 16 00-0302	EA	6"		150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i> <i>For 300 LB Rating, Add</i>	250.20 14.66 687.49	32.53
22 11 16 00-0303 Galvanized Malleable Iron Bushing <small>(22 11 16 00-0013)</small>						
22 11 16 00-0304	EA	3/4" x 1/2"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	44.37 8.69	19.27
22 11 16 00-0305	EA	1" x 1/2"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	49.18 9.22	20.50
22 11 16 00-0306	EA	1" x 3/4"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	49.84 9.71	21.62
22 11 16 00-0307	EA	1-1/4" x 1/2"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	58.81 9.90	22.03
22 11 16 00-0308	EA	1-1/4" x 3/4"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	58.10 10.39	23.06
22 11 16 00-0309	EA	1-1/4" x 1"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	59.89 10.92	24.28
22 11 16 00-0310	EA	1-1/2" x 1/2"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	69.59 10.64	23.67
22 11 16 00-0311	EA	1-1/2" x 3/4"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	71.21 11.13	24.70
22 11 16 00-0312	EA	1-1/2" x 1"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	69.65 11.66	25.93
22 11 16 00-0313	EA	1-1/2" x 1-1/4"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	69.52 12.34	27.46
22 11 16 00-0314	EA	2" x 1/2"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	83.98 12.41	27.57
22 11 16 00-0315	EA	2" x 3/4"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	82.65 12.90	28.69
22 11 16 00-0316	EA	2" x 1"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	82.26 13.43	29.82
22 11 16 00-0317	EA	2" x 1-1/4"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	84.52 14.11	31.36
22 11 16 00-0318	EA	2" x 1-1/2"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	82.38 14.85	32.99
22 11 16 00-0319	EA	2-1/2" x 3/4"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	117.96 16.89	37.51
22 11 16 00-0320	EA	2-1/2" x 1"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	119.74 17.42	38.74
22 11 16 00-0321	EA	2-1/2" x 1-1/4"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	122.00 18.10	40.17
22 11 16 00-0322	EA	2-1/2" x 1-1/2"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	123.33 18.84	41.91
22 11 16 00-0323	EA	2-1/2" x 2"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	122.31 20.60	45.81
22 11 16 00-0324	EA	3" x 3/4"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	150.64 20.77	46.11
22 11 16 00-0325	EA	3" x 1"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	152.42 21.30	47.34
22 11 16 00-0326	EA	3" x 1-1/4"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	154.68 21.98	48.88
22 11 16 00-0327	EA	3" x 1-1/2"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	155.55 22.72	50.51
22 11 16 00-0328	EA	3" x 2"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	153.99 24.49	54.41
22 11 16 00-0329	EA	3" x 2-1/2"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	171.48 28.48	63.33
22 11 16 00-0330	EA	4" x 3/4"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	240.92 21.09	46.83
22 11 16 00-0331	EA	4" x 1"		150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	242.59 21.59	47.99



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0332 EA 4" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....	244.70	49.42
<i>For Work In Restricted Working Space, Add</i>	22.23	
22 11 16 00-0333 EA 4" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing.....	247.01	50.97
<i>For Work In Restricted Working Space, Add</i>	22.92	
22 11 16 00-0334 EA 4" x 2", 150 LB, Galvanized Malleable Iron Bushing.....	232.44	54.61
<i>For Work In Restricted Working Space, Add</i>	24.58	
22 11 16 00-0335 EA 4" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing.....	264.98	62.96
<i>For Work In Restricted Working Space, Add</i>	28.31	
22 11 16 00-0336 EA 4" x 3", 150 LB, Galvanized Malleable Iron Bushing.....	265.83	71.02
<i>For Work In Restricted Working Space, Add</i>	31.95	
22 11 16 00-0337 Galvanized Malleable Iron Floor Flange <small>(22 11 16 00-0013)</small>		
<i>Note: Excludes fasteners to floor or wall. See CSI section 05 05 19 00-0001 for anchors.</i>		
22 11 16 00-0338 EA 1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	62.95	37.45
22 11 16 00-0339 EA 3/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	68.81	40.99
22 11 16 00-0340 EA 1", 150 LB, Galvanized Malleable Iron Floor Flange.....	79.00	46.31
22 11 16 00-0341 EA 1-1/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	82.09	47.96
22 11 16 00-0342 EA 1-1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	89.34	52.16
22 11 16 00-0343 EA 2", 150 LB, Galvanized Malleable Iron Floor Flange.....	96.13	54.41
22 11 16 00-0344 Galvanized Cast Iron Flanges <small>(22 11 16 00-0013)</small>		
<i>Note: Excludes bolt and gasket sets</i>		
22 11 16 00-0345 EA 3/4", 125 LB, Galvanized Cast Iron Flange.....	118.66	40.99
<i>For Work In Restricted Working Space, Add</i>	18.44	
22 11 16 00-0346 EA 1", 125 LB, Galvanized Cast Iron Flange.....	113.74	46.31
<i>For Work In Restricted Working Space, Add</i>	20.84	
22 11 16 00-0347 EA 1-1/4", 125 LB, Galvanized Cast Iron Flange.....	95.30	47.96
<i>For Work In Restricted Working Space, Add</i>	21.57	
22 11 16 00-0348 EA 1-1/2", 125 LB, Galvanized Cast Iron Flange.....	130.23	52.16
<i>For Work In Restricted Working Space, Add</i>	23.47	
22 11 16 00-0349 EA 2", 125 LB, Galvanized Cast Iron Flange.....	127.37	54.41
<i>For Work In Restricted Working Space, Add</i>	24.49	
22 11 16 00-0350 EA 2-1/2", 125 LB, Galvanized Cast Iron Flange.....	147.93	63.02
<i>For Work In Restricted Working Space, Add</i>	28.33	
22 11 16 00-0351 EA 3", 125 LB, Galvanized Cast Iron Flange.....	264.29	79.93
<i>For Work In Restricted Working Space, Add</i>	35.95	
22 11 16 00-0352 EA 4", 125 LB, Galvanized Cast Iron Flange.....	350.29	102.41
<i>For Work In Restricted Working Space, Add</i>	46.06	
22 11 16 00-0353 EA 5", 125 LB, Galvanized Cast Iron Flange.....	491.67	121.89
<i>For Work In Restricted Working Space, Add</i>	54.83	
22 11 16 00-0354 EA 6", 125 LB, Galvanized Cast Iron Flange.....	540.13	140.03
<i>For Work In Restricted Working Space, Add</i>	62.98	
22 11 16 00-0355 EA 8", 125 LB, Galvanized Cast Iron Flange.....	498.08	160.03
<i>For Work In Restricted Working Space, Add</i>	71.98	
22 11 16 00-0356 Cut And Thread Existing In-Place Galvanized Steel Pipe <small>(22 11 16 00-0013)</small>		
<i>Note: For use when connecting pipe to an existing in-place system.</i>		
22 11 16 00-0357 EA 1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	33.38	
<i>For Work In Restricted Working Space, Add</i>	10.01	
22 11 16 00-0358 EA 3/4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	36.72	
<i>For Work In Restricted Working Space, Add</i>	11.02	
22 11 16 00-0359 EA 1", Cut And Thread Existing In Place Galvanized Steel Pipe.....	40.06	
<i>For Work In Restricted Working Space, Add</i>	12.02	
22 11 16 00-0360 EA 1-1/4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	43.40	
<i>For Work In Restricted Working Space, Add</i>	13.02	
22 11 16 00-0361 EA 1-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	45.62	
<i>For Work In Restricted Working Space, Add</i>	13.69	
22 11 16 00-0362 EA 2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	47.85	
<i>For Work In Restricted Working Space, Add</i>	14.36	
22 11 16 00-0363 EA 2-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	50.08	
<i>For Work In Restricted Working Space, Add</i>	15.02	
22 11 16 00-0364 EA 3", Cut And Thread Existing In Place Galvanized Steel Pipe.....	52.30	
<i>For Work In Restricted Working Space, Add</i>	15.69	
22 11 16 00-0365 EA 4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	54.52	
<i>For Work In Restricted Working Space, Add</i>	16.36	
22 11 16 00-0366 EA 6", Cut And Thread Existing In Place Galvanized Steel Pipe.....	58.97	
<i>For Work In Restricted Working Space, Add</i>	17.69	
22 11 16 00-0367 EA 8", Cut And Thread Existing In Place Galvanized Steel Pipe.....	63.42	
<i>For Work In Restricted Working Space, Add</i>	19.03	
22 11 16 00-0368 Copper Pipe And Fittings <small>(22 11 16)</small>		
<i>Note: Excludes hangers. See CSI section 22 11 16 00-0899 for pipe with fittings assembly.</i>		
22 11 16 00-0369 Copper Tube/Pipe <small>(22 11 16 00-0368)</small>		
<i>Note: Pipe based on inside diameter size. Excludes hangers and fittings (couplers, tees, elbows, etc).</i>		
22 11 16 00-0370 Hard Drawn Type L Copper Tube/Pipe <small>(22 11 16 00-0369)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0371 LF 1/4" Hard Drawn Type L Copper Tube/Pipe	5.01	2.51
<i>For Up To 20, Add</i>	0.53	
<i>For >150, Deduct</i>	-0.13	
<i>For Work In Restricted Working Space, Add</i>	1.13	
<i>For Medical/Oxygen Service Tubing, Add</i>	0.10	
22 11 16 00-0372 LF 3/8" Hard Drawn Type L Copper Tube/Pipe	5.75	2.61
<i>For Up To 20, Add</i>	0.62	
<i>For >150, Deduct</i>	-0.18	
<i>For Work In Restricted Working Space, Add</i>	1.17	
<i>For Medical/Oxygen Service Tubing, Add</i>	0.15	
22 11 16 00-0373 LF 1/2" Hard Drawn Type L Copper Tube/Pipe	6.28	2.72
<i>For Up To 20, Add</i>	0.68	
<i>For >150, Deduct</i>	-0.22	
<i>For Work In Restricted Working Space, Add</i>	1.22	
<i>For Medical/Oxygen Service Tubing, Add</i>	0.18	
22 11 16 00-0374 LF 3/4" Hard Drawn Type L Copper Tube/Pipe	7.89	2.88
<i>For Up To 20, Add</i>	0.88	
<i>For >150, Deduct</i>	-0.36	
<i>For Work In Restricted Working Space, Add</i>	1.30	
<i>For Medical/Oxygen Service Tubing, Add</i>	0.29	
22 11 16 00-0375 LF 1" Hard Drawn Type L Copper Tube/Pipe	10.01	3.24
<i>For Up To 20, Add</i>	1.13	
<i>For >150, Deduct</i>	-0.52	
<i>For Work In Restricted Working Space, Add</i>	1.46	
<i>For Medical/Oxygen Service Tubing, Add</i>	0.41	
22 11 16 00-0376 LF 1-1/4" Hard Drawn Type L Copper Tube/Pipe	14.33	4.81
<i>For Up To 20, Add</i>	1.61	
<i>For >150, Deduct</i>	-0.71	
<i>For Work In Restricted Working Space, Add</i>	2.17	
<i>For Medical/Oxygen Service Tubing, Add</i>	0.57	
22 11 16 00-0377 LF 1-1/2" Hard Drawn Type L Copper Tube/Pipe	17.22	5.38
<i>For Up To 20, Add</i>	1.95	
<i>For >150, Deduct</i>	-0.92	
<i>For Work In Restricted Working Space, Add</i>	2.42	
<i>For Medical/Oxygen Service Tubing, Add</i>	0.73	
22 11 16 00-0378 LF 2" Hard Drawn Type L Copper Tube/Pipe	24.42	6.63
<i>For Up To 20, Add</i>	2.80	
<i>For >150, Deduct</i>	-1.45	
<i>For Work In Restricted Working Space, Add</i>	2.98	
<i>For Medical/Oxygen Service Tubing, Add</i>	1.16	
22 11 16 00-0379 LF 2-1/2" Hard Drawn Type L Copper Tube/Pipe	44.35	7.80
<i>For Up To 20, Add</i>	4.96	
<i>For >150, Deduct</i>	-2.09	
<i>For Work In Restricted Working Space, Add</i>	7.03	
<i>For Medical/Oxygen Service Tubing, Add</i>	1.67	
22 11 16 00-0380 LF 3" Hard Drawn Type L Copper Tube/Pipe	55.46	9.19
<i>For Up To 20, Add</i>	6.24	
<i>For >150, Deduct</i>	-2.79	
<i>For Work In Restricted Working Space, Add</i>	8.27	
<i>For Medical/Oxygen Service Tubing, Add</i>	2.23	
22 11 16 00-0381 LF 4" Hard Drawn Type L Copper Tube/Pipe	80.82	10.37
<i>For Up To 20, Add</i>	9.33	
<i>For >150, Deduct</i>	-4.97	
<i>For Work In Restricted Working Space, Add</i>	9.33	
<i>For Medical/Oxygen Service Tubing, Add</i>	3.98	
22 11 16 00-0382 LF 5" Hard Drawn Type L Copper Tube/Pipe	123.55	11.91
<i>For Up To 20, Add</i>	14.55	
<i>For >150, Deduct</i>	-8.78	
<i>For Work In Restricted Working Space, Add</i>	10.71	
<i>For Medical/Oxygen Service Tubing, Add</i>	7.03	
22 11 16 00-0383 LF 6" Hard Drawn Type L Copper Tube/Pipe	170.89	18.45
<i>For Up To 20, Add</i>	19.98	
<i>For >150, Deduct</i>	-11.56	
<i>For Work In Restricted Working Space, Add</i>	16.60	
<i>For Medical/Oxygen Service Tubing, Add</i>	9.24	
22 11 16 00-0384 LF 8" Hard Drawn Type L Copper Tube/Pipe	279.32	20.52
<i>For Up To 20, Add</i>	33.38	
<i>For >150, Deduct</i>	-21.78	
<i>For Work In Restricted Working Space, Add</i>	18.46	
<i>For Medical/Oxygen Service Tubing, Add</i>	17.42	
22 11 16 00-0385 Hard Drawn Type K Copper Tube/Pipe (22 11 16 00-0369)		
22 11 16 00-0386 LF 1/4" Hard Drawn Type K Copper Tube/Pipe	5.45	2.69
<i>For Up To 20, Add</i>	0.58	
<i>For >150, Deduct</i>	-0.14	
<i>For Work In Restricted Working Space, Add</i>	1.21	
<i>For Medical/Oxygen Service Tubing, Add</i>	0.11	
22 11 16 00-0387 LF 3/8" Hard Drawn Type K Copper Tube/Pipe	7.15	2.80
<i>For Up To 20, Add</i>	0.78	
<i>For >150, Deduct</i>	-0.25	
<i>For Work In Restricted Working Space, Add</i>	1.38	
<i>For Medical/Oxygen Service Tubing, Add</i>	0.20	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0388 LF 1/2" Hard Drawn Type K Copper Tube/Pipe	7.49	2.91
For Up To 20, Add	0.82	
For >150, Deduct	-0.30	
For Work In Restricted Working Space, Add	1.35	
For Medical/Oxygen Service Tubing, Add	0.24	
22 11 16 00-0389 LF 3/4" Hard Drawn Type K Copper Tube/Pipe	10.59	3.09
For Up To 20, Add	1.19	
For >150, Deduct	-0.54	
For Work In Restricted Working Space, Add	1.56	
For Medical/Oxygen Service Tubing, Add	0.43	
22 11 16 00-0390 LF 1" Hard Drawn Type K Copper Tube/Pipe	12.69	3.48
For Up To 20, Add	1.45	
For >150, Deduct	-0.72	
For Work In Restricted Working Space, Add	1.66	
For Medical/Oxygen Service Tubing, Add	0.57	
22 11 16 00-0391 LF 1-1/4" Hard Drawn Type K Copper Tube/Pipe	16.76	5.18
For Up To 20, Add	1.90	
For >150, Deduct	-0.89	
For Work In Restricted Working Space, Add	2.36	
For Medical/Oxygen Service Tubing, Add	0.71	
22 11 16 00-0392 LF 1-1/2" Hard Drawn Type K Copper Tube/Pipe	20.24	5.77
For Up To 20, Add	2.31	
For >150, Deduct	-1.14	
For Work In Restricted Working Space, Add	2.65	
For Medical/Oxygen Service Tubing, Add	0.91	
22 11 16 00-0393 LF 2" Hard Drawn Type K Copper Tube/Pipe	28.35	7.13
For Up To 20, Add	3.27	
For >150, Deduct	-1.75	
For Work In Restricted Working Space, Add	3.25	
For Medical/Oxygen Service Tubing, Add	1.40	
22 11 16 00-0394 LF 2-1/2" Hard Drawn Type K Copper Tube/Pipe	49.66	8.38
For Up To 20, Add	5.62	
For >150, Deduct	-2.61	
For Work In Restricted Working Space, Add	7.06	
For Medical/Oxygen Service Tubing, Add	2.09	
22 11 16 00-0395 LF 3" Hard Drawn Type K Copper Tube/Pipe	66.03	9.88
For Up To 20, Add	7.50	
For >150, Deduct	-3.57	
For Work In Restricted Working Space, Add	9.10	
For Medical/Oxygen Service Tubing, Add	2.86	
22 11 16 00-0396 LF 4" Hard Drawn Type K Copper Tube/Pipe	98.00	11.14
For Up To 20, Add	11.39	
For >150, Deduct	-6.37	
For Work In Restricted Working Space, Add	10.31	
For Medical/Oxygen Service Tubing, Add	5.09	
22 11 16 00-0397 LF 5" Hard Drawn Type K Copper Tube/Pipe	157.20	12.80
For Up To 20, Add	18.64	
For >150, Deduct	-11.67	
For Work In Restricted Working Space, Add	12.17	
For Medical/Oxygen Service Tubing, Add	9.33	
22 11 16 00-0398 LF 6" Hard Drawn Type K Copper Tube/Pipe	232.74	19.84
For Up To 20, Add	27.46	
For >150, Deduct	-16.74	
For Work In Restricted Working Space, Add	19.61	
For Medical/Oxygen Service Tubing, Add	13.39	
22 11 16 00-0399 LF 8" Hard Drawn Type K Copper Tube/Pipe	385.43	22.05
For Up To 20, Add	46.38	
For >150, Deduct	-31.34	
For Work In Restricted Working Space, Add	21.61	
For Medical/Oxygen Service Tubing, Add	25.07	
22 11 16 00-0400 Hard Drawn Type M Copper Tube/Pipe (22 11 16 00-0369)		
22 11 16 00-0401 LF 3/8" Hard Drawn Type M Copper Tube/Pipe	4.81	2.35
For Up To 20, Add	0.52	
For >150, Deduct	-0.14	
For Work In Restricted Working Space, Add	1.01	
22 11 16 00-0402 LF 1/2" Hard Drawn Type M Copper Tube/Pipe	5.11	2.45
For Up To 20, Add	0.55	
For >150, Deduct	-0.16	
For Work In Restricted Working Space, Add	1.05	
22 11 16 00-0403 LF 3/4" Hard Drawn Type M Copper Tube/Pipe	6.33	2.59
For Up To 20, Add	0.70	
For >150, Deduct	-0.26	
For Work In Restricted Working Space, Add	1.12	
22 11 16 00-0404 LF 1" Hard Drawn Type M Copper Tube/Pipe	8.18	2.91
For Up To 20, Add	0.92	
For >150, Deduct	-0.40	
For Work In Restricted Working Space, Add	1.25	
22 11 16 00-0405 LF 1-1/4" Hard Drawn Type M Copper Tube/Pipe	12.27	4.34
For Up To 20, Add	1.37	
For >150, Deduct	-0.59	
For Work In Restricted Working Space, Add	1.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0406 LF 1-1/2" Hard Drawn Type M Copper Tube/Pipe	15.44	4.84
For Up To 20, Add	1.75	
For >150, Deduct	-0.81	
For Work In Restricted Working Space, Add	2.21	
22 11 16 00-0407 LF 2" Hard Drawn Type M Copper Tube/Pipe	21.85	5.96
For Up To 20, Add	2.50	
For >150, Deduct	-1.27	
For Work In Restricted Working Space, Add	2.73	
22 11 16 00-0408 LF 2-1/2" Hard Drawn Type M Copper Tube/Pipe	40.63	7.02
For Up To 20, Add	4.53	
For >150, Deduct	-1.85	
For Work In Restricted Working Space, Add	6.64	
22 11 16 00-0409 LF 3" Hard Drawn Type M Copper Tube/Pipe	49.44	8.27
For Up To 20, Add	5.56	
For >150, Deduct	-2.46	
For Work In Restricted Working Space, Add	7.46	
22 11 16 00-0410 LF 4" Hard Drawn Type M Copper Tube/Pipe	75.05	9.33
For Up To 20, Add	8.66	
For >150, Deduct	-4.60	
For Work In Restricted Working Space, Add	8.70	
22 11 16 00-0411 LF 5" Hard Drawn Type M Copper Tube/Pipe	122.87	10.72
For Up To 20, Add	14.52	
For >150, Deduct	-8.94	
For Work In Restricted Working Space, Add	10.05	
22 11 16 00-0412 LF 6" Hard Drawn Type M Copper Tube/Pipe	171.27	16.61
For Up To 20, Add	20.11	
For >150, Deduct	-11.94	
For Work In Restricted Working Space, Add	15.56	
22 11 16 00-0413 LF 8" Hard Drawn Type M Copper Tube/Pipe	283.33	18.46
For Up To 20, Add	33.99	
For >150, Deduct	-22.63	
For Work In Restricted Working Space, Add	17.12	
22 11 16 00-0414 Soft Drawn Type L Copper Tube (22 11 16 00-0369)		
22 11 16 00-0415 LF 1/4" Soft Drawn Type L Copper Tube	5.37	2.51
For Up To 20, Add	0.58	
For >150, Deduct	-0.16	
For Work In Restricted Working Space, Add	1.13	
22 11 16 00-0416 LF 3/8" Soft Drawn Type L Copper Tube	6.43	2.61
For Up To 20, Add	0.71	
For >150, Deduct	-0.25	
For Work In Restricted Working Space, Add	1.17	
22 11 16 00-0417 LF 1/2" Soft Drawn Type L Copper Tube	7.47	2.72
For Up To 20, Add	0.83	
For >150, Deduct	-0.34	
For Work In Restricted Working Space, Add	1.22	
22 11 16 00-0418 LF 5/8" Soft Drawn Type L Copper Tube	8.55	2.80
For Up To 20, Add	0.96	
For >150, Deduct	-0.44	
For Work In Restricted Working Space, Add	1.26	
22 11 16 00-0419 LF 3/4" Soft Drawn Type L Copper Tube	9.50	2.88
For Up To 20, Add	1.08	
For >150, Deduct	-0.52	
For Work In Restricted Working Space, Add	1.30	
22 11 16 00-0420 LF 1" Soft Drawn Type L Copper Tube	12.03	3.24
For Up To 20, Add	1.38	
For >150, Deduct	-0.72	
For Work In Restricted Working Space, Add	1.46	
22 11 16 00-0421 LF 1-1/4" Soft Drawn Type L Copper Tube	16.67	4.81
For Up To 20, Add	1.90	
For >150, Deduct	-0.95	
For Work In Restricted Working Space, Add	2.17	
22 11 16 00-0422 LF 1-1/2" Soft Drawn Type L Copper Tube	20.87	5.38
For Up To 20, Add	2.41	
For >150, Deduct	-1.28	
For Work In Restricted Working Space, Add	2.42	
22 11 16 00-0423 LF 2" Soft Drawn Type L Copper Tube	30.30	6.63
For Up To 20, Add	3.54	
For >150, Deduct	-2.04	
For Work In Restricted Working Space, Add	2.98	
22 11 16 00-0424 Soft Drawn Type K Copper Tube (22 11 16 00-0369)		
22 11 16 00-0425 LF 1/4" Soft Drawn Type K Copper Tube	5.54	2.51
For Up To 20, Add	0.60	
For >150, Deduct	-0.18	
For Work In Restricted Working Space, Add	1.13	
22 11 16 00-0426 LF 3/8" Soft Drawn Type K Copper Tube	6.96	2.61
For Up To 20, Add	0.77	
For >150, Deduct	-0.31	
For Work In Restricted Working Space, Add	1.17	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0427	LF	1/2"	Soft Drawn Type K Copper Tube.....	7.90	2.72
			<i>For Up To 20, Add</i>	0.89	
			<i>For >150, Deduct</i>	-0.38	
			<i>For Work In Restricted Working Space, Add</i>	1.22	
22 11 16 00-0428	LF	5/8"	Soft Drawn Type K Copper Tube.....	8.76	2.80
			<i>For Up To 20, Add</i>	0.99	
			<i>For >150, Deduct</i>	-0.46	
			<i>For Work In Restricted Working Space, Add</i>	1.26	
22 11 16 00-0429	LF	3/4"	Soft Drawn Type K Copper Tube.....	11.39	2.88
			<i>For Up To 20, Add</i>	1.32	
			<i>For >150, Deduct</i>	-0.71	
			<i>For Work In Restricted Working Space, Add</i>	1.30	
22 11 16 00-0430	LF	1"	Soft Drawn Type K Copper Tube.....	14.23	3.24
			<i>For Up To 20, Add</i>	1.66	
			<i>For >150, Deduct</i>	-0.94	
			<i>For Work In Restricted Working Space, Add</i>	1.46	
22 11 16 00-0431	LF	1-1/4"	Soft Drawn Type K Copper Tube.....	18.28	4.81
			<i>For Up To 20, Add</i>	2.10	
			<i>For >150, Deduct</i>	-1.11	
			<i>For Work In Restricted Working Space, Add</i>	2.17	
22 11 16 00-0432	LF	1-1/2"	Soft Drawn Type K Copper Tube.....	23.43	5.38
			<i>For Up To 20, Add</i>	2.73	
			<i>For >150, Deduct</i>	-1.54	
			<i>For Work In Restricted Working Space, Add</i>	2.42	
22 11 16 00-0433	LF	2"	Soft Drawn Type K Copper Tube.....	33.84	6.63
			<i>For Up To 20, Add</i>	3.98	
			<i>For >150, Deduct</i>	-2.39	
			<i>For Work In Restricted Working Space, Add</i>	2.98	
22 11 16 00-0434	LF	2-1/2"	Soft Drawn Type K Copper Tube.....	47.76	7.96
			<i>For Up To 20, Add</i>	5.67	
			<i>For >150, Deduct</i>	-3.58	
			<i>For Work In Restricted Working Space, Add</i>	3.58	
22 11 16 00-0435	LF	3"	Soft Drawn Type K Copper Tube.....	63.93	9.39
			<i>For Up To 20, Add</i>	7.64	
			<i>For >150, Deduct</i>	-4.99	
			<i>For Work In Restricted Working Space, Add</i>	4.22	
22 11 16 00-0436			Copper And Brass Fittings (22 11 16 00-0368)		
			Note: All fittings are based on 95/5 solder.		
22 11 16 00-0437			90 Degree Copper Elbows (22 11 16 00-0436)		
22 11 16 00-0438	EA	1/4"	90 Degree Copper Elbow	26.39	14.85
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.43	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.34	
			<i>For Street Fitting, Add</i>	1.65	
			<i>For Work In Restricted Working Space, Add</i>	6.68	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.55	
22 11 16 00-0439	EA	3/8"	90 Degree Copper Elbow	31.08	17.81
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.89	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.01	
			<i>For Street Fitting, Add</i>	1.75	
			<i>For Work In Restricted Working Space, Add</i>	8.01	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.23	
22 11 16 00-0440	EA	1/2"	90 Degree Copper Elbow	38.14	24.48
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.74	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.51	
			<i>For Street Fitting, Add</i>	0.57	
			<i>For Work In Restricted Working Space, Add</i>	11.02	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.58	
22 11 16 00-0441	EA	3/4"	90 Degree Copper Elbow	48.81	30.49
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.72	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.84	
			<i>For Street Fitting, Add</i>	1.28	
			<i>For Work In Restricted Working Space, Add</i>	13.69	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.00	
22 11 16 00-0442	EA	1"	90 Degree Copper Elbow	62.32	36.39
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.84	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.18	
			<i>For Street Fitting, Add</i>	3.12	
			<i>For Work In Restricted Working Space, Add</i>	16.36	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.57	
22 11 16 00-0443	EA	1-1/4"	90 Degree Copper Elbow	70.62	39.39
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.48	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.85	
			<i>For Street Fitting, Add</i>	4.66	
			<i>For Work In Restricted Working Space, Add</i>	17.69	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.43	
22 11 16 00-0444	EA	1-1/2"	90 Degree Copper Elbow	82.75	43.07
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.36	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.68	
			<i>For Street Fitting, Add</i>	7.28	
			<i>For Work In Restricted Working Space, Add</i>	19.36	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.59	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0445	EA		2" 90 Degree Copper Elbow	105.52	48.29
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.89	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.85	
			<i>For Street Fitting, Add</i>	13.28	
			<i>For Work In Restricted Working Space, Add</i>	21.70	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.51	
22 11 16 00-0446	EA		2-1/2" 90 Degree Copper Elbow	138.88	49.18
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-10.63	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.07	
			<i>For Work In Restricted Working Space, Add</i>	22.13	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	14.32	
22 11 16 00-0447	EA		3" 90 Degree Copper Elbow	179.93	58.82
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-13.40	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	13.22	
			<i>For Work In Restricted Working Space, Add</i>	26.44	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	17.81	
22 11 16 00-0448	EA		4" 90 Degree Copper Elbow	347.75	83.42
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-23.64	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	18.75	
			<i>For Work In Restricted Working Space, Add</i>	37.50	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	29.89	
22 11 16 00-0449	EA		5" 90 Degree Copper Elbow	1,104.27	114.15
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-63.77	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	25.67	
			<i>For Work In Restricted Working Space, Add</i>	51.34	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	72.33	
22 11 16 00-0450	EA		6" 90 Degree Copper Elbow	1,492.96	166.11
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-87.10	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	37.35	
			<i>For Work In Restricted Working Space, Add</i>	74.70	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	99.55	
22 11 16 00-0451	EA		8" 90 Degree Copper Elbow	4,933.97	221.45
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-263.30	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	49.80	
			<i>For Work In Restricted Working Space, Add</i>	99.60	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	279.90	
22 11 16 00-0452 90 Degree Brass Elbows (22 11 16 00-0436)					
22 11 16 00-0453	EA		1/2" Drop Ear 90 Degree Brass Elbow	45.61	24.48
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.12	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.51	
			<i>For Work In Restricted Working Space, Add</i>	11.02	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.95	
22 11 16 00-0454	EA		3/4" Drop Ear 90 Degree Brass Elbow	71.54	30.49
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.86	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.84	
			<i>For Work In Restricted Working Space, Add</i>	13.69	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.14	
22 11 16 00-0455	EA		1/2" Flanged Sink 90 Degree Brass Elbow	52.93	24.48
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.48	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.51	
			<i>For Work In Restricted Working Space, Add</i>	11.02	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.32	
22 11 16 00-0456	EA		3/8" Drop Ear 90 Degree Brass Elbow, Solder X Threaded	40.00	17.81
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.34	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.01	
			<i>For Work In Restricted Working Space, Add</i>	8.01	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.67	
22 11 16 00-0457	EA		1/2" Drop Ear 90 Degree Brass Elbow, Solder X Threaded	46.24	24.48
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.15	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.51	
			<i>For Work In Restricted Working Space, Add</i>	11.02	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.98	
22 11 16 00-0458	EA		3/4" Drop Ear 90 Degree Brass Elbow, Solder X Threaded	62.38	30.49
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.40	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.84	
			<i>For Work In Restricted Working Space, Add</i>	13.69	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.68	
22 11 16 00-0459	EA		1" Drop Ear 90 Degree Brass Elbow, Solder X Threaded	108.02	36.39
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.13	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.18	
			<i>For Work In Restricted Working Space, Add</i>	16.36	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.85	
22 11 16 00-0460 Reducing 90 Degree Copper Elbows (22 11 16 00-0436)					
22 11 16 00-0461	EA		1/2" Reducing 90 Degree Copper Elbow	48.21	24.48
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.25	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.51	
			<i>For Work In Restricted Working Space, Add</i>	11.02	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.08	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0462	EA		3/4" Reducing 90 Degree Copper Elbow .....53.76		30.49
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.97	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.84	
			<i>For Work In Restricted Working Space, Add</i>	13.69	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.25	
22 11 16 00-0463	EA		1" Reducing 90 Degree Copper Elbow .....69.48		36.39
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.20	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.18	
			<i>For Work In Restricted Working Space, Add</i>	16.36	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.93	
22 11 16 00-0464	EA		1-1/4" Reducing 90 Degree Copper Elbow .....97.05		39.39
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.80	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.85	
			<i>For Work In Restricted Working Space, Add</i>	17.69	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.75	
22 11 16 00-0465	EA		1-1/2" Reducing 90 Degree Copper Elbow .....114.57		43.07
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.96	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.68	
			<i>For Work In Restricted Working Space, Add</i>	19.36	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.18	
22 11 16 00-0466	EA		2" Reducing 90 Degree Copper Elbow .....139.66		48.29
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-10.60	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.85	
			<i>For Work In Restricted Working Space, Add</i>	21.70	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	14.22	
22 11 16 00-0467			45 Degree Copper Elbows (22 11 16 00-0436)		
22 11 16 00-0468	EA		1/4" 45 Degree Copper Elbow .....29.97		14.85
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.61	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.34	
			<i>For Street Fitting, Add</i>	3.08	
			<i>For Work In Restricted Working Space, Add</i>	6.68	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.72	
22 11 16 00-0469	EA		3/8" 45 Degree Copper Elbow .....33.32		17.81
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.00	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.01	
			<i>For Street Fitting, Add</i>	2.64	
			<i>For Work In Restricted Working Space, Add</i>	8.01	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.34	
22 11 16 00-0470	EA		1/2" 45 Degree Copper Elbow .....39.32		24.48
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.80	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.51	
			<i>For Street Fitting, Add</i>	1.04	
			<i>For Work In Restricted Working Space, Add</i>	11.02	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.64	
22 11 16 00-0471	EA		3/4" 45 Degree Copper Elbow .....50.06		30.49
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.78	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.84	
			<i>For Street Fitting, Add</i>	1.78	
			<i>For Work In Restricted Working Space, Add</i>	13.69	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.07	
22 11 16 00-0472	EA		1" 45 Degree Copper Elbow .....65.62		36.39
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.01	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.18	
			<i>For Street Fitting, Add</i>	4.44	
			<i>For Work In Restricted Working Space, Add</i>	16.36	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.73	
22 11 16 00-0473	EA		1-1/4" 45 Degree Copper Elbow .....74.01		39.39
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.65	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.85	
			<i>For Street Fitting, Add</i>	6.01	
			<i>For Work In Restricted Working Space, Add</i>	17.69	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.60	
22 11 16 00-0474	EA		1-1/2" 45 Degree Copper Elbow .....82.99		43.07
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.38	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.68	
			<i>For Street Fitting, Add</i>	7.38	
			<i>For Work In Restricted Working Space, Add</i>	19.36	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.60	
22 11 16 00-0475	EA		2" 45 Degree Copper Elbow .....103.08		48.29
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.77	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.85	
			<i>For Work In Restricted Working Space, Add</i>	21.70	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.39	
22 11 16 00-0476	EA		2-1/2" 45 Degree Copper Elbow .....138.09		49.18
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-10.59	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.07	
			<i>For Work In Restricted Working Space, Add</i>	22.13	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	14.28	
22 11 16 00-0477	EA		3" 45 Degree Copper Elbow .....183.55		58.82
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-13.58	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	13.22	
			<i>For Work In Restricted Working Space, Add</i>	26.44	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	17.99	



Plumbing	22	22
Plumbing Piping	22 10	
Facility Water Distribution	22 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0478	EA		4" 45 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	328.48 -22.67 18.75 37.50 28.93	83.42
22 11 16 00-0479	EA		5" 45 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	959.13 -56.51 25.67 51.34 65.07	114.15
22 11 16 00-0480	EA		6" 45 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1,490.83 -86.99 37.35 74.70 99.44	166.11
22 11 16 00-0481	EA		8" 45 Degree Copper Elbow <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4,551.65 -244.18 49.80 99.60 260.78	221.45
22 11 16 00-0482 Straight Copper And Brass Tees (22 11 16 00-0436)					
22 11 16 00-0483	EA		1/4" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	42.03 -3.77 5.01 10.01 5.44	22.26
22 11 16 00-0484	EA		3/8" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	47.02 -4.35 6.01 12.02 6.36	26.71
22 11 16 00-0485	EA		1/2" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	58.08 -5.69 8.35 16.69 8.47	37.16
22 11 16 00-0486	EA		3/4" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	74.81 -7.19 10.35 20.70 10.64	46.07
22 11 16 00-0487	EA		1" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	99.85 -9.11 12.35 24.71 13.23	54.97
22 11 16 00-0488	EA		1-1/4" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	113.41 -10.12 13.35 26.71 14.57	59.42
22 11 16 00-0489	EA		1-1/2" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	133.70 -11.53 14.52 29.04 16.37	64.54
22 11 16 00-0490	EA		2" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	167.70 -13.84 16.36 32.72 19.29	72.78
22 11 16 00-0491	EA		2-1/2" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	226.70 -16.87 16.60 33.20 22.40	73.78
22 11 16 00-0492	EA		3" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	310.48 -22.18 19.98 39.96 28.85	88.85
22 11 16 00-0493	EA		4" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	615.54 -40.10 27.98 55.95 49.43	124.40
22 11 16 00-0494	EA		5" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1,657.69 -95.64 38.27 76.55 108.40	170.21



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0495	EA		6" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	2,291.28 -133.27 56.10 112.21 151.97	249.52
22 11 16 00-0496	EA		8" Straight Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7,893.72 -419.59 74.70 149.40 444.49	332.22
22 11 16 00-0497	EA		1/2" Cast Bronze Drop Ear Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	70.63 -6.31 8.35 16.69 9.10	37.16
22 11 16 00-0498			Reducing Copper Tees (22 11 16 00-0498)		
22 11 16 00-0499	EA		3/8" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	49.37 -4.25 5.34 10.68 6.03	23.70
22 11 16 00-0500	EA		1/2" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	62.19 -5.61 7.51 15.02 8.12	33.38
22 11 16 00-0501	EA		3/4" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	70.72 -6.76 9.68 19.36 9.99	43.07
22 11 16 00-0502	EA		1" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	97.52 -8.77 11.68 23.37 12.67	51.97
22 11 16 00-0503	EA		1-1/4" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	114.35 -9.95 12.69 25.37 14.17	56.41
22 11 16 00-0504	EA		1-1/2" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	134.45 -11.34 13.85 27.71 15.96	61.65
22 11 16 00-0505	EA		2" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	164.34 -13.39 15.52 31.05 18.57	68.99
22 11 16 00-0506	EA		2-1/2" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	233.68 -17.01 15.99 31.97 22.34	71.11
22 11 16 00-0507	EA		3" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	331.71 -22.73 18.45 36.89 28.88	81.97
22 11 16 00-0508	EA		4" Reducing Copper Tee <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	591.09 -37.14 22.75 45.50 44.72	101.14
22 11 16 00-0509			Copper Couplings (22 11 16 00-0498)		
22 11 16 00-0510	EA		1/4" Copper Coupling <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	23.09 -2.27 3.34 6.68 3.38	14.85
22 11 16 00-0511	EA		3/8" Copper Coupling <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	27.81 -2.73 4.01 8.01 4.06	17.81
22 11 16 00-0512	EA		1/2" Copper Coupling <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	37.62 -3.72 5.51 11.02 5.55	24.48



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0513 EA 3/4" Copper Coupling.....	47.47	30.49
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.65	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.84	
For Work In Restricted Working Space, Add	13.69	
For Silver Solder Instead Of 95/5 Solder, Add	6.94	
22 11 16 00-0514 EA 1" Copper Coupling.....	58.19	36.39
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.64	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.18	
For Work In Restricted Working Space, Add	16.36	
For Silver Solder Instead Of 95/5 Solder, Add	8.36	
22 11 16 00-0515 EA 1-1/4" Copper Coupling	65.43	39.39
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.22	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.85	
For Work In Restricted Working Space, Add	17.69	
For Silver Solder Instead Of 95/5 Solder, Add	9.17	
22 11 16 00-0516 EA 1-1/2" Copper Coupling	73.08	43.07
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.88	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.68	
For Work In Restricted Working Space, Add	19.36	
For Silver Solder Instead Of 95/5 Solder, Add	10.11	
22 11 16 00-0517 EA 2" Copper Coupling.....	86.52	47.85
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.94	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.85	
For Work In Restricted Working Space, Add	21.70	
For Silver Solder Instead Of 95/5 Solder, Add	11.56	
22 11 16 00-0518 EA 2-1/2" Copper Coupling	98.87	46.52
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.43	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.45	
For Work In Restricted Working Space, Add	20.90	
For Silver Solder Instead Of 95/5 Solder, Add	11.91	
22 11 16 00-0519 EA 3" Copper Coupling.....	123.76	56.36
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.39	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.60	
For Work In Restricted Working Space, Add	25.21	
For Silver Solder Instead Of 95/5 Solder, Add	14.59	
22 11 16 00-0520 EA 4" Copper Coupling.....	200.24	75.83
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-15.65	
For Brazed Fittings Instead Of 95/5 Solder, Add	16.91	
For Work In Restricted Working Space, Add	33.82	
For Silver Solder Instead Of 95/5 Solder, Add	21.28	
22 11 16 00-0521 EA 5" Copper Coupling.....	336.10	138.33
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-24.49	
For Brazed Fittings Instead Of 95/5 Solder, Add	23.06	
For Work In Restricted Working Space, Add	46.11	
For Silver Solder Instead Of 95/5 Solder, Add	32.18	
22 11 16 00-0522 EA 6" Copper Coupling.....	526.85	150.32
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-37.61	
For Brazed Fittings Instead Of 95/5 Solder, Add	33.82	
For Work In Restricted Working Space, Add	67.63	
For Silver Solder Instead Of 95/5 Solder, Add	48.89	
22 11 16 00-0523 EA 8" Copper Coupling.....	1,276.25	199.31
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-78.77	
For Brazed Fittings Instead Of 95/5 Solder, Add	44.88	
For Work In Restricted Working Space, Add	89.77	
For Silver Solder Instead Of 95/5 Solder, Add	93.73	
22 11 16 00-0524 Reducing Copper Couplings (22 11 16 00-0436)		
22 11 16 00-0525 EA 3/8" Reducing Copper Coupling	24.07	14.80
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.32	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.34	
For Work In Restricted Working Space, Add	6.68	
For Silver Solder Instead Of 95/5 Solder, Add	3.43	
22 11 16 00-0526 EA 1/2" Reducing Copper Coupling	33.61	21.14
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.27	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.76	
For Work In Restricted Working Space, Add	9.52	
For Silver Solder Instead Of 95/5 Solder, Add	4.85	
22 11 16 00-0527 EA 3/4" Reducing Copper Coupling	44.43	27.49
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.28	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.18	
For Work In Restricted Working Space, Add	12.35	
For Silver Solder Instead Of 95/5 Solder, Add	6.34	
22 11 16 00-0528 EA 1" Reducing Copper Coupling	55.98	33.38
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.30	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.51	
For Work In Restricted Working Space, Add	15.02	
For Silver Solder Instead Of 95/5 Solder, Add	7.81	
22 11 16 00-0529 EA 1-1/4" Reducing Copper Coupling	64.97	37.83
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.09	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.51	
For Work In Restricted Working Space, Add	17.03	
For Silver Solder Instead Of 95/5 Solder, Add	8.92	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0530	EA		1-1/2" Reducing Copper Coupling	75.37	41.17
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.86	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.26	
			<i>For Work In Restricted Working Space, Add</i>	18.53	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.94	
22 11 16 00-0531	EA		2" Reducing Copper Coupling.....	89.48	45.62
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.90	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.27	
			<i>For Work In Restricted Working Space, Add</i>	20.53	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.32	
22 11 16 00-0532	EA		2-1/2" Reducing Copper Coupling	113.50	46.83
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.18	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.53	
			<i>For Work In Restricted Working Space, Add</i>	21.06	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.69	
22 11 16 00-0533	EA		3" Reducing Copper Coupling.....	134.49	54.31
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-10.77	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.14	
			<i>For Work In Restricted Working Space, Add</i>	24.29	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	14.82	
22 11 16 00-0534	EA		4" Reducing Copper Coupling.....	212.85	71.11
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-15.97	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	15.99	
			<i>For Work In Restricted Working Space, Add</i>	31.97	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	21.30	
22 11 16 00-0535	EA		5" Reducing Copper Coupling.....	564.17	99.09
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-35.64	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	22.29	
			<i>For Work In Restricted Working Space, Add</i>	44.57	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	43.07	
22 11 16 00-0536	EA		6" Reducing Copper Coupling.....	843.39	133.21
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-52.16	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	29.97	
			<i>For Work In Restricted Working Space, Add</i>	59.95	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	62.15	
22 11 16 00-0537	EA		8" Reducing Copper Coupling.....	1,655.33	194.12
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-97.32	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	43.65	
			<i>For Work In Restricted Working Space, Add</i>	87.31	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	111.87	
22 11 16 00-0538			Male Copper Adapters (22 11 16 00-0436)		
22 11 16 00-0539	EA		1/4" Male Copper Adapter.....	36.85	14.46
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.96	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.34	
			<i>For Work In Restricted Working Space, Add</i>	6.68	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.07	
22 11 16 00-0540	EA		3/8" Male Copper Adapter.....	33.99	17.81
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.04	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.01	
			<i>For Work In Restricted Working Space, Add</i>	8.01	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.37	
22 11 16 00-0541	EA		1/2" Male Copper Adapter.....	36.33	22.26
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.49	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.01	
			<i>For Work In Restricted Working Space, Add</i>	10.01	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.15	
22 11 16 00-0542	EA		3/4" Male Copper Adapter.....	46.17	27.82
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.37	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.18	
			<i>For Work In Restricted Working Space, Add</i>	12.35	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.43	
22 11 16 00-0543	EA		1" Male Copper Adapter.....	60.55	32.27
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.42	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.18	
			<i>For Work In Restricted Working Space, Add</i>	14.36	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.81	
22 11 16 00-0544	EA		1-1/4" Male Copper Adapter	74.13	36.72
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.49	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.35	
			<i>For Work In Restricted Working Space, Add</i>	16.69	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.27	
22 11 16 00-0545	EA		1-1/2" Male Copper Adapter	85.06	42.28
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.42	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.51	
			<i>For Work In Restricted Working Space, Add</i>	19.03	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.60	
22 11 16 00-0546	EA		2" Male Copper Adapter.....	117.85	53.96
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.95	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.18	
			<i>For Work In Restricted Working Space, Add</i>	24.37	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	14.02	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0547	EA			2-1/2" Male Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	221.05 -16.28 15.69 31.38 21.51	70.10
22 11 16 00-0548	EA			3" Male Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	293.55 -21.65 20.90 41.81 28.61	93.50
22 11 16 00-0549	EA			4" Male Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	443.33 -32.00 29.51 59.03 41.84	131.17
22 11 16 00-0550 Female Copper Adapters (22 11 16 00-0436)						
22 11 16 00-0551	EA			1/4" Female Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	31.58 -2.69 3.34 6.68 3.81	14.46
22 11 16 00-0552	EA			3/8" Female Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	36.46 -3.16 4.01 8.01 4.49	17.81
22 11 16 00-0553	EA			1/2" Female Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	38.10 -3.57 5.01 10.01 5.24	22.26
22 11 16 00-0554	EA			3/4" Female Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	47.62 -4.44 6.18 12.35 6.50	27.82
22 11 16 00-0555	EA			1" Female Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	62.60 -5.52 7.18 14.36 7.92	32.27
22 11 16 00-0556	EA			1-1/4" Female Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	77.27 -6.65 8.35 16.69 9.43	36.72
22 11 16 00-0557	EA			1-1/2" Female Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	97.30 -8.04 9.51 19.03 11.21	42.28
22 11 16 00-0558	EA			2" Female Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	127.17 -10.42 12.18 24.37 14.48	53.96
22 11 16 00-0559	EA			2-1/2" Female Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	260.65 -17.85 14.45 28.90 22.66	64.56
22 11 16 00-0560	EA			3" Female Copper Adapter <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	416.19 -27.78 20.90 41.81 34.75	93.50
22 11 16 00-0561 Wrot Copper, Solder Union (22 11 16 00-0436)						
22 11 16 00-0562	EA			1/4" Wrot Copper, Solder Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	47.29 -3.70 4.01 8.01 5.04	17.81
22 11 16 00-0563	EA			3/8" Wrot Copper, Solder Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	53.47 -4.29 4.84 9.68 5.90	21.47
22 11 16 00-0564	EA			1/2" Wrot Copper, Solder Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	53.17 -4.66 6.01 12.02 6.66	26.71

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0565	EA		3/4" Wrot Copper, Solder Union.....	61.74	30.49
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.37	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.84	
			<i>For Work In Restricted Working Space, Add</i>	13.69	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.65	
22 11 16 00-0566	EA		1" Wrot Copper, Solder Union.....	82.23	36.39
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.84	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.18	
			<i>For Work In Restricted Working Space, Add</i>	16.36	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.56	
22 11 16 00-0567	EA		1-1/4" Wrot Copper, Solder Union.....	100.20	40.06
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.01	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.01	
			<i>For Work In Restricted Working Space, Add</i>	18.03	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.02	
22 11 16 00-0568	EA		1-1/2" Wrot Copper, Solder Union.....	123.32	44.51
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.50	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.02	
			<i>For Work In Restricted Working Space, Add</i>	20.03	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.84	
22 11 16 00-0569	EA		2" Wrot Copper, Solder Union.....	176.51	53.41
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-12.83	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.02	
			<i>For Work In Restricted Working Space, Add</i>	24.04	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	16.84	
22 11 16 00-0570	EA		2-1/2" Wrot Copper, Solder Union.....	351.00	58.82
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-21.96	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	13.22	
			<i>For Work In Restricted Working Space, Add</i>	26.44	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	26.36	
22 11 16 00-0571	EA		3" Wrot Copper, Solder Union.....	805.25	83.42
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-46.51	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	18.75	
			<i>For Work In Restricted Working Space, Add</i>	37.50	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	52.76	
22 11 16 00-0572			Cast Bronze, Solder Union <small>(22 11 16 00-0436)</small>		
22 11 16 00-0573	EA		1/4" Cast Bronze, Solder Union.....	54.88	17.81
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.08	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.01	
			<i>For Work In Restricted Working Space, Add</i>	8.01	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.42	
22 11 16 00-0574	EA		3/8" Cast Bronze, Solder Union.....	60.63	21.47
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.65	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.84	
			<i>For Work In Restricted Working Space, Add</i>	9.68	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.26	
22 11 16 00-0575	EA		1/2" Cast Bronze, Solder Union.....	55.16	26.71
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.76	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.01	
			<i>For Work In Restricted Working Space, Add</i>	12.02	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.76	
22 11 16 00-0576	EA		3/4" Cast Bronze, Solder Union.....	64.55	30.49
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.51	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.84	
			<i>For Work In Restricted Working Space, Add</i>	13.69	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.79	
22 11 16 00-0577	EA		1" Cast Bronze, Solder Union.....	87.12	36.39
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.08	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.18	
			<i>For Work In Restricted Working Space, Add</i>	16.36	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.81	
22 11 16 00-0578	EA		1-1/4" Cast Bronze, Solder Union.....	113.57	40.06
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.68	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.01	
			<i>For Work In Restricted Working Space, Add</i>	18.03	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.69	
22 11 16 00-0579	EA		1-1/2" Cast Bronze, Solder Union.....	137.27	44.51
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-10.20	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.02	
			<i>For Work In Restricted Working Space, Add</i>	20.03	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	13.54	
22 11 16 00-0580	EA		2" Cast Bronze, Solder Union.....	200.26	53.41
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-14.02	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.02	
			<i>For Work In Restricted Working Space, Add</i>	24.04	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	18.03	
22 11 16 00-0581	EA		2-1/2" Cast Bronze, Solder Union.....	350.98	58.82
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-21.96	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	13.22	
			<i>For Work In Restricted Working Space, Add</i>	26.44	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	26.36	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0582	EA			3" Cast Bronze, Solder Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	805.25 -46.51 18.75 37.50 52.76	83.42
22 11 16 00-0583 Cast Bronze, Solder X Female Threaded Union <small>(22 11 16 00-0436)</small>						
22 11 16 00-0584	EA			1/4" Cast Bronze, Solder X Female Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	65.13 -4.59 4.01 8.01 5.93	17.81
22 11 16 00-0585	EA			3/8" Cast Bronze, Solder X Female Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	72.02 -5.21 4.84 9.68 6.83	21.47
22 11 16 00-0586	EA			1/2" Cast Bronze, Solder X Female Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	71.63 -5.58 6.01 12.02 7.59	26.71
22 11 16 00-0587	EA			3/4" Cast Bronze, Solder X Female Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	88.65 -6.71 6.84 13.69 8.99	30.49
22 11 16 00-0588	EA			1" Cast Bronze, Solder X Female Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	144.04 -9.93 8.18 16.36 12.66	36.39
22 11 16 00-0589	EA			1-1/4" Cast Bronze, Solder X Female Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	226.90 -14.35 9.01 18.03 17.35	40.06
22 11 16 00-0590	EA			1-1/2" Cast Bronze, Solder X Female Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	278.10 -17.24 10.02 20.03 20.58	44.51
22 11 16 00-0591	EA			2" Cast Bronze, Solder X Female Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	437.84 -25.90 12.02 24.04 29.90	53.41
22 11 16 00-0592	EA			2-1/2" Cast Bronze, Solder X Female Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	766.25 -42.72 13.22 26.44 47.13	58.82
22 11 16 00-0593 Cast Bronze, Solder X Male Threaded Union <small>(22 11 16 00-0436)</small>						
22 11 16 00-0594	EA			1/4" Cast Bronze, Solder X Male Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	55.97 -4.13 4.01 8.01 5.47	17.81
22 11 16 00-0595	EA			3/8" Cast Bronze, Solder X Male Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	66.42 -4.93 4.84 9.68 6.55	21.47
22 11 16 00-0596	EA			1/2" Cast Bronze, Solder X Male Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	64.98 -5.25 6.01 12.02 7.26	26.71
22 11 16 00-0597	EA			3/4" Cast Bronze, Solder X Male Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	83.02 -6.43 6.84 13.69 8.71	30.49
22 11 16 00-0598	EA			1" Cast Bronze, Solder X Male Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	146.62 -10.06 8.18 16.36 12.78	36.39
22 11 16 00-0599	EA			1-1/4" Cast Bronze, Solder X Male Threaded Union..... <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	174.32 -11.72 9.01 18.03 14.73	40.06

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0600	EA		1-1/2" Cast Bronze, Solder X Male Threaded Union.....	186.75	44.51
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-12.68	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.02	
			<i>For Work In Restricted Working Space, Add</i>	20.03	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	16.01	
22 11 16 00-0601	EA		2" Cast Bronze, Solder X Male Threaded Union.....	264.42	53.41
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-17.23	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.02	
			<i>For Work In Restricted Working Space, Add</i>	24.04	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	21.23	
22 11 16 00-0602	EA		2-1/2" Cast Bronze, Solder X Male Threaded Union.....	628.23	58.82
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-35.82	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	13.22	
			<i>For Work In Restricted Working Space, Add</i>	26.44	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	40.22	
22 11 16 00-0603			Copper Caps (22 11 16 00-0436)		
22 11 16 00-0604	EA		1/4" Copper Cap	8.60	4.89
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-0.80	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	1.10	
			<i>For Work In Restricted Working Space, Add</i>	2.20	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1.16	
22 11 16 00-0605	EA		3/8" Copper Cap	10.82	5.79
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-0.98	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	1.32	
			<i>For Work In Restricted Working Space, Add</i>	2.64	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1.42	
22 11 16 00-0606	EA		1/2" Copper Cap	13.14	8.01
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-1.26	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	1.82	
			<i>For Work In Restricted Working Space, Add</i>	3.64	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1.87	
22 11 16 00-0607	EA		3/4" Copper Cap	16.99	9.90
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-1.60	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	2.26	
			<i>For Work In Restricted Working Space, Add</i>	4.52	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	2.36	
22 11 16 00-0608	EA		1" Copper Cap	22.52	11.90
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.03	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	2.70	
			<i>For Work In Restricted Working Space, Add</i>	5.40	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	2.93	
22 11 16 00-0609	EA		1-1/4" Copper Cap	25.52	12.80
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.25	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	2.92	
			<i>For Work In Restricted Working Space, Add</i>	5.84	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.22	
22 11 16 00-0610	EA		1-1/2" Copper Cap	30.11	14.02
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.57	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.20	
			<i>For Work In Restricted Working Space, Add</i>	6.39	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.64	
22 11 16 00-0611	EA		2" Copper Cap	38.26	14.55
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.01	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.30	
			<i>For Work In Restricted Working Space, Add</i>	6.59	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.11	
22 11 16 00-0612	EA		2-1/2" Copper Cap	74.60	17.01
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.02	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.87	
			<i>For Work In Restricted Working Space, Add</i>	7.75	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.31	
22 11 16 00-0613	EA		3" Copper Cap	102.91	21.83
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.80	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.96	
			<i>For Work In Restricted Working Space, Add</i>	9.92	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.45	
22 11 16 00-0614	EA		4" Copper Cap	181.85	32.99
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-11.59	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.50	
			<i>For Work In Restricted Working Space, Add</i>	15.00	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	14.09	
22 11 16 00-0615	EA		5" Cast Bronze Cap	1,003.77	50.83
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-54.04	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.55	
			<i>For Work In Restricted Working Space, Add</i>	23.10	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	57.89	
22 11 16 00-0616	EA		6" Cast Bronze Cap	1,958.50	73.98
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-103.53	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	16.81	
			<i>For Work In Restricted Working Space, Add</i>	33.62	
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	109.13	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0617	EA		8" Cast Bronze Cap <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	2,492.83 -132.11 22.41 44.82 139.58	98.58
22 11 16 00-0618 Copper Crosses <small>(22 11 16 00-0436)</small>					
22 11 16 00-0619	EA		1/2" Copper Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	83.86 -7.58 10.15 20.29 10.96	45.08
22 11 16 00-0620	EA		3/4" Copper Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	115.57 -9.98 12.60 25.21 14.18	56.06
22 11 16 00-0621	EA		1" Copper Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	153.99 -12.72 15.06 30.13 17.74	66.91
22 11 16 00-0622	EA		1-1/4" Copper Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	185.61 -14.71 16.29 32.59 20.14	72.45
22 11 16 00-0623	EA		1-1/2" Copper Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	228.61 -17.37 17.83 35.66 23.32	79.21
22 11 16 00-0624	EA		2" Copper Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	340.53 -23.69 19.98 39.96 30.35	88.85
22 11 16 00-0625	EA		2-1/2" Copper Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	625.46 -38.65 22.13 44.27 46.03	98.37
22 11 16 00-0626 Cast Bronze Crosses <small>(22 11 16 00-0436)</small>					
22 11 16 00-0627	EA		3/8" Cast Bronze Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	70.81 -6.00 7.38 14.75 8.46	32.79
22 11 16 00-0628	EA		1/2" Cast Bronze Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	87.11 -7.74 10.15 20.29 11.12	45.08
22 11 16 00-0629	EA		3/4" Cast Bronze Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	121.87 -10.30 12.60 25.21 14.50	56.06
22 11 16 00-0630	EA		1" Cast Bronze Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	164.69 -13.26 15.06 30.13 18.28	66.91
22 11 16 00-0631	EA		1-1/4" Cast Bronze Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	201.01 -15.48 16.29 32.59 20.91	72.45
22 11 16 00-0632	EA		1-1/2" Cast Bronze Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	250.56 -18.47 17.83 35.66 24.42	79.21
22 11 16 00-0633	EA		2" Cast Bronze Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	381.99 -25.76 19.98 39.96 32.42	88.85
22 11 16 00-0634	EA		2-1/2" Cast Bronze Cross <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i>	721.04 -43.43 22.13 44.27 50.81	98.37



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0635			Flexible Corrugated Copper Supply Line (22 11 16 00-0436)		
22 11 16 00-0636	EA		3/4" Threaded x 3/4" Solder x 18" Long, Flexible Corrugated Copper Supply Line	94.40	30.49
22 11 16 00-0637	EA		3/4" Threaded x 3/4" Solder x 24" Long, Flexible Corrugated Copper Supply Line	100.27	30.49
22 11 16 00-0638	EA		3/4" Threaded x 3/4" Threaded x 12" Long, Flexible Corrugated Copper Supply Line	83.84	30.49
22 11 16 00-0639	EA		3/4" Threaded x 3/4" Threaded x 15" Long, Flexible Corrugated Copper Supply Line	90.49	30.49
22 11 16 00-0640	EA		3/4" Threaded x 3/4" Threaded x 18" Long, Flexible Corrugated Copper Supply Line	96.36	30.49
22 11 16 00-0641	EA		3/4" Threaded x 3/4" Threaded x 24" Long, Flexible Corrugated Copper Supply Line	100.27	30.49
22 11 16 00-0642			Crimped Copper Fittings (22 11 16 00-0368) Note: Viega ProPress type. Includes factory installed ethylene propylene diene monomer (EPDM) sealing elements.		
22 11 16 00-0643			Crimped Copper 90 Degree Elbows (22 11 16 00-0642)		
22 11 16 00-0644	EA		1/2" Crimped Copper 90 Degree Elbow	24.04	13.36
22 11 16 00-0645	EA		3/4" Crimped Copper 90 Degree Elbow	29.61	15.25
22 11 16 00-0646	EA		1" Crimped Copper 90 Degree Elbow	40.88	18.14
22 11 16 00-0647	EA		1-1/4" Crimped Copper 90 Degree Elbow	57.54	20.03
22 11 16 00-0648	EA		1-1/2" Crimped Copper 90 Degree Elbow	85.45	22.26
22 11 16 00-0649	EA		2" Crimped Copper 90 Degree Elbow	112.43	26.71
22 11 16 00-0650	EA		2-1/2" Crimped Copper 90 Degree Elbow	256.95	31.16
22 11 16 00-0651	EA		3" Crimped Copper 90 Degree Elbow	320.12	37.05
22 11 16 00-0652	EA		4" Crimped Copper 90 Degree Elbow	400.66	48.96
22 11 16 00-0653			Crimped Copper 45 Degree Elbows (22 11 16 00-0642)		
22 11 16 00-0654	EA		1/2" Crimped Copper 45 Degree Elbow	24.70	13.36
22 11 16 00-0655	EA		3/4" Crimped Copper 45 Degree Elbow	28.55	15.25
22 11 16 00-0656	EA		1" Crimped Copper 45 Degree Elbow	45.69	18.14
22 11 16 00-0657	EA		1-1/4" Crimped Copper 45 Degree Elbow	56.48	20.03
22 11 16 00-0658	EA		1-1/2" Crimped Copper 45 Degree Elbow	76.25	22.26
22 11 16 00-0659	EA		2" Crimped Copper 45 Degree Elbow	100.02	26.71
22 11 16 00-0660	EA		2-1/2" Crimped Copper 45 Degree Elbow	185.59	31.16
22 11 16 00-0661	EA		3" Crimped Copper 45 Degree Elbow	254.04	37.05
22 11 16 00-0662	EA		4" Crimped Copper 45 Degree Elbow	348.97	48.96
22 11 16 00-0663			Crimped Copper Straight Tees (22 11 16 00-0642)		
22 11 16 00-0664	EA		1/2" Crimped Copper Straight Tee	36.18	20.03
22 11 16 00-0665	EA		3/4" Crimped Copper Straight Tee	50.31	26.37
22 11 16 00-0666	EA		1" Crimped Copper Straight Tee	63.45	29.27
22 11 16 00-0667	EA		1-1/4" Crimped Copper Straight Tee	78.05	30.04
22 11 16 00-0668	EA		1-1/2" Crimped Copper Straight Tee	115.27	34.16
22 11 16 00-0669	EA		2" Crimped Copper Straight Tee	139.26	40.06
22 11 16 00-0670	EA		2-1/2" Crimped Copper Straight Tee	329.83	46.73
22 11 16 00-0671	EA		3" Crimped Copper Straight Tee	408.10	55.64
22 11 16 00-0672	EA		4" Crimped Copper Straight Tee	565.70	73.44
22 11 16 00-0673			Crimped Copper Reducing Tees (22 11 16 00-0642)		
22 11 16 00-0674	EA		3/4" Crimped Copper Reducing Tee	45.28	19.03
22 11 16 00-0675	EA		1" Crimped Copper Reducing Tee	67.15	25.04
22 11 16 00-0676	EA		1-1/4" Crimped Copper Reducing Tee	71.90	27.82
22 11 16 00-0677	EA		1-1/2" Crimped Copper Reducing Tee	99.73	28.59
22 11 16 00-0678	EA		2" Crimped Copper Reducing Tee	120.60	32.38
22 11 16 00-0679	EA		2-1/2" Crimped Copper Reducing Tee	360.74	36.72
22 11 16 00-0680	EA		3" Crimped Copper Reducing Tee	440.27	44.51
22 11 16 00-0681	EA		4" Crimped Copper Reducing Tee	513.96	59.31
22 11 16 00-0682			Crimped Copper Couplings (22 11 16 00-0642)		
22 11 16 00-0683	EA		1/2" Crimped Copper Coupling	23.64	13.36
22 11 16 00-0684	EA		3/4" Crimped Copper Coupling	28.29	15.25
22 11 16 00-0685	EA		1" Crimped Copper Coupling	38.33	18.14
22 11 16 00-0686	EA		1-1/4" Crimped Copper Coupling	43.80	20.03
22 11 16 00-0687	EA		1-1/2" Crimped Copper Coupling	59.02	22.26
22 11 16 00-0688	EA		2" Crimped Copper Coupling	72.78	26.71
22 11 16 00-0689	EA		2-1/2" Crimped Copper Coupling	151.43	31.16
22 11 16 00-0690	EA		3" Crimped Copper Coupling	188.98	37.05
22 11 16 00-0691	EA		4" Crimped Copper Coupling	258.59	48.96
22 11 16 00-0692			Crimped Copper Reducing Couplings (22 11 16 00-0642)		
22 11 16 00-0693	EA		3/4" Crimped Copper Reducing Coupling	35.46	12.69
22 11 16 00-0694	EA		1" Crimped Copper Reducing Coupling	40.52	14.46
22 11 16 00-0695	EA		1-1/4" Crimped Copper Reducing Coupling	53.30	17.24
22 11 16 00-0696	EA		1-1/2" Crimped Copper Reducing Coupling	68.91	19.03
22 11 16 00-0697	EA		2" Crimped Copper Reducing Coupling	77.11	21.14



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0698 EA 2-1/2" Crimped Copper FTG x C Reducing Coupling	161.51	25.26
22 11 16 00-0699 EA 3" Crimped Copper FTG x C Reducing Coupling	202.27	29.71
22 11 16 00-0700 EA 4" Crimped Copper FTG x C Reducing Coupling	262.52	39.28
22 11 16 00-0701 Crimped Copper Male Adapters (22 11 16 00-0642)		
22 11 16 00-0702 EA 1/2" Crimped Copper Male Adapter	24.44	13.36
22 11 16 00-0703 EA 3/4" Crimped Copper Male Adapter	30.81	15.25
22 11 16 00-0704 EA 1" Crimped Copper Male Adapter	41.94	18.14
22 11 16 00-0705 EA 1-1/4" Crimped Copper Male Adapter	62.22	20.03
22 11 16 00-0706 EA 1-1/2" Crimped Copper Male Adapter	78.51	22.26
22 11 16 00-0707 EA 2" Crimped Copper Male Adapter	126.98	26.71
22 11 16 00-0708 EA 2-1/2" Crimped Copper Male Adapter	256.95	31.16
22 11 16 00-0709 EA 3" Crimped Copper Male Adapter	320.12	37.05
22 11 16 00-0710 EA 4" Crimped Copper Male Adapter	379.58	48.96
22 11 16 00-0711 Crimped Copper Female Adapters (22 11 16 00-0642)		
22 11 16 00-0712 EA 1/2" Crimped Copper Female Adapter	25.37	13.36
22 11 16 00-0713 EA 3/4" Crimped Copper Female Adapter	31.49	15.25
22 11 16 00-0714 EA 1" Crimped Copper Female Adapter	43.29	18.14
22 11 16 00-0715 EA 1-1/4" Crimped Copper Female Adapter	66.23	20.03
22 11 16 00-0716 EA 1-1/2" Crimped Copper Female Adapter	85.99	22.26
22 11 16 00-0717 EA 2" Crimped Copper Female Adapter	129.38	26.71
22 11 16 00-0718 Crimped Copper Caps (22 11 16 00-0642)		
22 11 16 00-0719 EA 1/2" Crimped Copper Cap	17.75	6.68
22 11 16 00-0720 EA 3/4" Crimped Copper Cap	24.76	7.79
22 11 16 00-0721 EA 1" Crimped Copper Cap	33.52	8.90
22 11 16 00-0722 EA 1-1/4" Crimped Copper Cap	37.86	10.01
22 11 16 00-0723 EA 1-1/2" Crimped Copper Cap	52.62	11.46
22 11 16 00-0724 EA 2" Crimped Copper Cap	63.02	13.36
22 11 16 00-0725 EA 2-1/2" Crimped Copper Cap	160.82	15.58
22 11 16 00-0726 EA 3" Crimped Copper Cap	201.78	18.58
22 11 16 00-0727 EA 4" Crimped Copper Cap	268.54	24.48
22 11 16 00-0728 C x F NPT Crimped Bronze Unions (22 11 16 00-0642)		
22 11 16 00-0729 EA 1/2" C x F NPT Crimped Bronze Union	49.97	18.14
22 11 16 00-0730 EA 3/4" C x F NPT Crimped Bronze Union	62.61	22.37
22 11 16 00-0731 EA 1" C x F NPT Crimped Bronze Union	88.51	26.82
22 11 16 00-0732 EA 1-1/4" C x F NPT Crimped Bronze Union	107.67	30.93
22 11 16 00-0733 EA 1-1/2" C x F NPT Crimped Bronze Union	141.54	30.27
22 11 16 00-0734 EA 2" C x F NPT Crimped Bronze Union	193.03	43.84
22 11 16 00-0735 C x C Crimped Bronze Unions (22 11 16 00-0642)		
22 11 16 00-0736 EA 1/2" C x C Bronze Crimped Union	48.33	13.36
22 11 16 00-0737 EA 3/4" C x C Bronze Crimped Union	59.92	15.25
22 11 16 00-0738 EA 1" C x C Bronze Crimped Union	86.54	18.14
22 11 16 00-0739 EA 1-1/4" C x C Bronze Crimped Union	114.69	20.03
22 11 16 00-0740 EA 1-1/2" C x C Bronze Crimped Union	148.34	22.26
22 11 16 00-0741 EA 2" C x C Bronze Crimped Union	227.79	26.71
22 11 16 00-0742 C x Flange Crimped Bronze Flange (22 11 16 00-0642)		
22 11 16 00-0743 EA 2-1/2" C x Flange Crimped Bronze Flange	448.70	31.16
22 11 16 00-0744 EA 3" C x Flange Crimped Bronze Flange	488.29	37.05
22 11 16 00-0745 EA 4" C x Flange Crimped Bronze Flange	557.78	48.96
22 11 16 00-0746 Field Installed FKM Seals (22 11 16 00-0642)		
Note: For vacuum systems. Includes removing factory installed ethylene propylene diene monomer (EPDM) seal and installing FKM seal.		
22 11 16 00-0747 EA 1/2" Field Installed FKM Seal	7.28	
Note: To be used in conjunction with fittings.		
22 11 16 00-0748 EA 3/4" Field Installed FKM Seal	9.31	
Note: To be used in conjunction with fittings.		
22 11 16 00-0749 EA 1" Field Installed FKM Seal	10.69	
Note: To be used in conjunction with fittings.		
22 11 16 00-0750 EA 1-1/4" Field Installed FKM Seal	12.32	
Note: To be used in conjunction with fittings.		
22 11 16 00-0751 EA 1-1/2" Field Installed FKM Seal	17.71	
Note: To be used in conjunction with fittings.		
22 11 16 00-0752 EA 2" Field Installed FKM Seal	19.62	
Note: To be used in conjunction with fittings.		
22 11 16 00-0753 EA 2-1/2" Field Installed FKM Seal	29.97	
Note: To be used in conjunction with fittings.		
22 11 16 00-0754 EA 3" Field Installed FKM Seal	34.33	
Note: To be used in conjunction with fittings.		

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0755 EA 4" Field Installed FKM Seal Note: To be used in conjunction with fittings.	46.93	
22 11 16 00-0756 Cut And Prepare Existing In-Place Copper Pipe (22 11 16 00-0368)		
22 11 16 00-0757 EA Up To 1/2", Cut And Prepare Existing In Place Copper Pipe	11.13	
22 11 16 00-0758 EA 3/4", Cut And Prepare Existing In Place Copper Pipe	12.02	
22 11 16 00-0759 EA 1", Cut And Prepare Existing In Place Copper Pipe	13.52	
22 11 16 00-0760 EA 1-1/4", Cut And Prepare Existing In Place Copper Pipe	14.19	
22 11 16 00-0761 EA 1-1/2", Cut And Prepare Existing In Place Copper Pipe	15.02	
22 11 16 00-0762 EA 2", Cut And Prepare Existing In Place Copper Pipe	16.53	
22 11 16 00-0763 EA 2-1/2", Cut And Prepare Existing In Place Copper Pipe	17.81	
22 11 16 00-0764 EA 3", Cut And Prepare Existing In Place Copper Pipe	21.03	
22 11 16 00-0765 EA 4", Cut And Prepare Existing In Place Copper Pipe	28.37	
22 11 16 00-0766 EA 6", Cut And Prepare Existing In Place Copper Pipe	40.55	
22 11 16 00-0767 EA 8", Cut And Prepare Existing In Place Copper Pipe	54.07	
22 11 16 00-0768 Sweat Brass Companion Flanges (22 11 16 00-0368) Note: Excludes bolt and gasket sets		
22 11 16 00-0769 EA 1" Sweat Brass Companion Flange	70.39	17.11
22 11 16 00-0770 EA 1-1/4" Sweat Brass Companion Flange	76.79	18.85
22 11 16 00-0771 EA 1-1/2" Sweat Brass Companion Flange	111.78	20.50
22 11 16 00-0772 EA 2" Sweat Brass Companion Flange	151.04	22.75
22 11 16 00-0773 EA 2-1/2" Sweat Brass Companion Flange	191.41	27.36
22 11 16 00-0774 EA 3" Sweat Brass Companion Flange	209.46	35.86
22 11 16 00-0775 EA 4" Sweat Brass Companion Flange	281.26	42.74
22 11 16 00-0776 EA 5" Sweat Brass Companion Flange	526.17	50.08
22 11 16 00-0777 EA 6" Sweat Brass Companion Flange	599.49	72.77
22 11 16 00-0778 EA 8" Copper Companion Flange	1,414.42	103.80
22 11 16 00-0779 Brass Compression Fittings (22 11 16 00-0368)		
22 11 16 00-0780 Brass Compression Unions (22 11 16 00-0779)		
22 11 16 00-0781 EA 1/4" Brass Compression Union	19.33	12.02
22 11 16 00-0782 EA 3/8" Brass Compression Union	19.68	12.02
22 11 16 00-0783 EA 1/2" Brass Compression Union	20.75	12.02
22 11 16 00-0784 EA 5/8" Brass Compression Union	21.26	12.02
22 11 16 00-0785 EA 3/4" Brass Compression Union	27.85	12.02
22 11 16 00-0786 EA 3/8" x 1/4" Brass Compression Union	19.92	12.02
22 11 16 00-0787 EA 1/2" x 3/8" Brass Compression Union	20.83	12.02
22 11 16 00-0788 EA 5/8" x 3/8" Brass Compression Union	21.47	12.02
22 11 16 00-0789 EA 5/8" x 1/2" Brass Compression Union	22.48	12.02
22 11 16 00-0790 Brass Compression Union Elbows (22 11 16 00-0779)		
22 11 16 00-0791 EA 1/4" Brass Compression Union Elbow	20.75	12.02
22 11 16 00-0792 EA 3/8" Brass Compression Union Elbow	21.33	12.02
22 11 16 00-0793 EA 1/2" Brass Compression Union Elbow	22.59	12.02
22 11 16 00-0794 EA 5/8" Brass Compression Union Elbow	24.56	12.02
22 11 16 00-0795 EA 3/4" Brass Compression Union Elbow	32.23	12.02
22 11 16 00-0796 EA 3/8" x 1/4" Brass Compression Union Elbow	21.33	12.02
22 11 16 00-0797 EA 1/2" x 3/8" Brass Compression Union Elbow	22.59	12.02
22 11 16 00-0798 EA 5/8" x 3/8" Brass Compression Union Elbow	22.94	12.02
22 11 16 00-0799 EA 5/8" x 1/2" Brass Compression Union Elbow	28.71	12.02
22 11 16 00-0800 Brass Compression Union Tees (22 11 16 00-0779)		
22 11 16 00-0801 EA 1/4" Brass Compression Union Tee	21.19	12.02
22 11 16 00-0802 EA 3/8" Brass Compression Union Tee	22.38	12.02
22 11 16 00-0803 EA 1/2" Brass Compression Union Tee	23.65	12.02
22 11 16 00-0804 EA 5/8" Brass Compression Union Tee	27.66	12.02
22 11 16 00-0805 EA 3/4" Brass Compression Union Tee	41.51	12.02
22 11 16 00-0806 EA 3/8" x 3/8" x 1/4" Brass Compression Union Tee	23.22	12.02
22 11 16 00-0807 EA 1/2" x 1/2" x 3/8" Brass Compression Union Tee	29.73	12.02
22 11 16 00-0808 EA 5/8" x 5/8" x 3/8" Brass Compression Union Tee	29.10	12.02
22 11 16 00-0809 EA 5/8" x 5/8" x 1/2" Brass Compression Union Tee	29.84	12.02
22 11 16 00-0810 Brass Compression Male Connectors (22 11 16 00-0779)		
22 11 16 00-0811 EA 1/4" Brass Compression Male Connector	19.08	12.02
22 11 16 00-0812 EA 3/8" Brass Compression Male Connector	19.54	12.02
22 11 16 00-0813 EA 1/2" Brass Compression Male Connector	20.34	12.02
22 11 16 00-0814 EA 5/8" Brass Compression Male Connector	21.54	12.02
22 11 16 00-0815 EA 3/4" Brass Compression Male Connector	24.89	11.90
22 11 16 00-0816 Brass Compression Female Connectors (22 11 16 00-0779)		
22 11 16 00-0817 EA 1/4" Brass Compression Female Connector	19.58	12.02



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0818	EA			3/8" Brass Compression Female Connector.....	20.18	12.02
22 11 16 00-0819	EA			1/2" Brass Compression Female Connector.....	21.20	12.02
22 11 16 00-0820	EA			5/8" Brass Compression Female Connector.....	21.96	12.02
22 11 16 00-0821	EA			3/4" Brass Compression Female Connector.....	31.78	11.79
22 11 16 00-0822				Dielectric Fittings (22 11 16 00-0368)		
22 11 16 00-0823				Copper x Female Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)		
22 11 16 00-0824	EA			1/2" Copper x Female Iron Pipe Thread Dielectric Union	47.36	26.71
22 11 16 00-0825	EA			3/4" Copper x Female Iron Pipe Thread Dielectric Union	52.92	30.49
22 11 16 00-0826	EA			1" Copper x Female Iron Pipe Thread Dielectric Union	62.91	33.51
22 11 16 00-0827	EA			1-1/4" Copper x Female Iron Pipe Thread Dielectric Union	76.14	36.89
22 11 16 00-0828	EA			1-1/2" Copper x Female Iron Pipe Thread Dielectric Union	91.99	40.99
22 11 16 00-0829	EA			2" Copper x Female Iron Pipe Thread Dielectric Union	116.77	49.18
22 11 16 00-0830				Female Brass Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)		
22 11 16 00-0831	EA			1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	51.97	26.71
22 11 16 00-0832	EA			3/4" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	60.51	30.49
22 11 16 00-0833	EA			1" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	72.92	33.51
22 11 16 00-0834	EA			1-1/4" Female Brass Thread x Iron Pipe Thread Dielectric Union	89.42	36.89
22 11 16 00-0835	EA			1-1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union	108.42	40.99
22 11 16 00-0836	EA			2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	136.04	49.18
22 11 16 00-0837				Female Iron Pipe Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)		
22 11 16 00-0838	EA			1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	49.05	26.71
22 11 16 00-0839	EA			3/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	55.69	30.49
22 11 16 00-0840	EA			1" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	63.64	33.51
22 11 16 00-0841	EA			1-1/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	73.57	36.89
22 11 16 00-0842	EA			1-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	89.45	40.99
22 11 16 00-0843	EA			2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	114.73	49.18
22 11 16 00-0844				Copper x Female Iron Pipe Thread Dielectric Flanges (22 11 16 00-0822)		
22 11 16 00-0845	EA			2-1/2" Copper x Female Iron Pipe Thread Dielectric Flange.....	284.43	126.45
22 11 16 00-0846	EA			3" Copper x Female Iron Pipe Thread Dielectric Flange.....	356.10	159.24
22 11 16 00-0847	EA			4" Copper x Female Iron Pipe Thread Dielectric Flange.....	501.89	216.73
22 11 16 00-0848				Copper x Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flanges (22 11 16 00-0822)		
22 11 16 00-0849	EA			2-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	286.33	126.45
22 11 16 00-0850	EA			3" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange	371.21	159.24
22 11 16 00-0851	EA			4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange	676.25	216.73
22 11 16 00-0852				Brass Push-Fit Fittings (22 11 16)		
22 11 16 00-0853	EA			1/4" x 1/4" Brass Push-Fit Coupling.....	24.25	11.13
				Note: (Sharkbite)		
22 11 16 00-0854	EA			3/8" x 3/8" Brass Push-Fit Coupling.....	30.24	11.87
				Note: (Sharkbite)		
22 11 16 00-0855	EA			1/2" x 1/2" Brass Push-Fit Coupling.....	31.27	13.36
				Note: (Sharkbite)		
22 11 16 00-0856	EA			5/8" x 5/8" Brass Push-Fit Coupling.....	36.06	14.24
				Note: (Sharkbite)		
22 11 16 00-0857	EA			3/4" x 3/4" Brass Push-Fit Coupling.....	36.71	15.21
				Note: (Sharkbite)		
22 11 16 00-0858	EA			1" x 1" Brass Push-Fit Coupling.....	51.82	18.17
				Note: (Sharkbite)		
22 11 16 00-0859	EA			1/2" x 3/8" Brass Push-Fit Reducing Coupling.....	30.74	12.61
				Note: (Sharkbite)		
22 11 16 00-0860	EA			3/4" x 5/8" Brass Push-Fit Reducing Coupling.....	35.66	13.80
				Note: (Sharkbite)		
22 11 16 00-0861	EA			1" x 3/4" Brass Push-Fit Reducing Coupling.....	53.38	16.69
				Note: (Sharkbite)		
22 11 16 00-0862	EA			1/4" x 1/4" Brass Push-Fit Elbow	25.34	11.13
				Note: (Sharkbite)		
22 11 16 00-0863	EA			3/8" x 3/8" Brass Push-Fit Elbow	34.90	11.87
				Note: (Sharkbite)		
22 11 16 00-0864	EA			1/2" x 1/2" Brass Push-Fit Elbow	31.86	13.36
				Note: (Sharkbite)		
22 11 16 00-0865	EA			5/8" x 5/8" Brass Push-Fit Elbow	38.76	14.24
				Note: (Sharkbite)		
22 11 16 00-0866	EA			3/4" x 3/4" Brass Push-Fit Elbow	35.94	15.21
				Note: (Sharkbite)		
22 11 16 00-0867	EA			1" x 1" Brass Push-Fit Elbow	52.42	18.17
				Note: (Sharkbite)		
22 11 16 00-0868	EA			1/2" x 3/8" Brass Push-Fit Reducing Elbow	30.25	12.61
				Note: (Sharkbite)		

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0869	EA		3/4" x 1/2" Brass Push-Fit Reducing Elbow Note: (Sharkbite)	33.73	13.80
22 11 16 00-0870	EA		1" x 3/4" Brass Push-Fit Reducing Elbow Note: (Sharkbite)	66.71	16.69
22 11 16 00-0871	EA		1/4" x 1/4" x 1/4" Brass Push-Fit Tee Note: (Sharkbite)	38.47	16.69
22 11 16 00-0872	EA		3/8" x 3/8" x 3/8" Brass Push-Fit Tee Note: (Sharkbite)	48.95	17.81
22 11 16 00-0873	EA		1/2" x 1/2" x 1/2" Brass Push-Fit Tee Note: (Sharkbite)	44.56	20.03
22 11 16 00-0874	EA		5/8" x 5/8" x 5/8" Brass Push-Fit Tee Note: (Sharkbite)	57.01	21.36
22 11 16 00-0875	EA		3/4" x 3/4" x 3/4" Brass Push-Fit Tee Note: (Sharkbite)	52.01	22.81
22 11 16 00-0876	EA		1" x 1" x 1" Brass Push-Fit Tee Note: (Sharkbite)	71.38	27.26
22 11 16 00-0877	EA		1/2" x 1/2" x 1/4" Brass Push-Fit Reducing Tee Note: (Sharkbite)	50.25	18.91
22 11 16 00-0878	EA		1/2" x 1/2" x 3/8" Brass Push-Fit Reducing Tee Note: (Sharkbite)	50.52	19.29
22 11 16 00-0879	EA		3/4" x 3/4" x 1/2" Brass Push-Fit Reducing Tee Note: (Sharkbite)	50.22	21.89
22 11 16 00-0880	EA		1" x 1" x 3/4" Brass Push-Fit Reducing Tee Note: (Sharkbite)	69.30	25.78
22 11 16 00-0881	EA		1/4" x 1/2" Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	28.94	12.24
22 11 16 00-0882	EA		3/8" x 1/2" Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	28.56	12.61
22 11 16 00-0883	EA		1/2" x 1/2" Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	28.17	13.36
22 11 16 00-0884	EA		3/4" x 3/4" Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	32.26	15.21
22 11 16 00-0885	EA		1" x 1" Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	45.56	18.17
22 11 16 00-0886	EA		1/4" x 1/2" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	25.20	12.24
22 11 16 00-0887	EA		3/8" x 1/2" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	28.56	12.61
22 11 16 00-0888	EA		1/2" x 1/2" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	28.24	13.36
22 11 16 00-0889	EA		3/4" x 3/4" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	31.92	15.21
22 11 16 00-0890	EA		5/8" x 3/4" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	34.82	14.72
22 11 16 00-0891	EA		1" x 3/4" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	41.85	16.69
22 11 16 00-0892	EA		1" x 1" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	46.26	18.17
22 11 16 00-0893	EA		1/2" Brass Push-Fit Ball Valve Note: (Sharkbite)	41.09	13.36
22 11 16 00-0894	EA		3/4" Brass Push-Fit Ball Valve Note: (Sharkbite)	48.07	15.21
22 11 16 00-0895	EA		1" Brass Push-Fit Ball Valve Note: (Sharkbite)	63.64	18.17
22 11 16 00-0896	EA		1/2" Brass Push-Fit Check Valve Note: (Sharkbite)	44.10	13.36
22 11 16 00-0897	EA		3/4" Brass Push-Fit Check Valve Note: (Sharkbite)	53.14	15.21
22 11 16 00-0898	EA		1" Brass Push-Fit Check Valve Note: (Sharkbite)	90.01	18.17
22 11 16 00-0899			Copper Pipe Assemblies <small>(22 11 16)</small> Note: Includes hangers and all coupling, elbow, tee and reducer fittings. All fittings are based on 95/5 solder. All hangers are complete assemblies installed in accordance with MSS SP 58 and 69. Excludes insulation. Not for use where detail is available.		
22 11 16 00-0900	LF		1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 1.48 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.24 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 2.84 <i>For For Brazed Fittings, Add</i> 0.70 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -1.97 <i>For Work In Restricted Working Space, Add</i> 5.22	21.91	3.11
22 11 16 00-0901	LF		3/4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 1.77 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.47 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 3.24 <i>For For Brazed Fittings, Add</i> 0.79 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.26 <i>For Work In Restricted Working Space, Add</i> 5.92	25.38	4.01



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0902	LF			1" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 2.13 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.72 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 3.47 <i>For For Brazed Fittings, Add</i> 0.83 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.44 <i>For Work In Restricted Working Space, Add</i> 6.20	28.12	4.78
22 11 16 00-0903	LF			1-1/4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 2.66 <i>For Type M Tubing Instead Of Type L, Deduct</i> -2.10 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 3.74 <i>For For Brazed Fittings, Add</i> 0.86 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.66 <i>For Work In Restricted Working Space, Add</i> 6.44 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -1.03	31.80	5.56
22 11 16 00-0904	LF			1-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 3.12 <i>For Type M Tubing Instead Of Type L, Deduct</i> -2.43 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 4.07 <i>For For Brazed Fittings, Add</i> 0.92 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.92 <i>For Work In Restricted Working Space, Add</i> 6.87 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -1.26	35.52	6.35
22 11 16 00-0905	LF			2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 4.31 <i>For Type M Tubing Instead Of Type L, Deduct</i> -3.29 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 4.89 <i>For For Brazed Fittings, Add</i> 1.05 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -3.57 <i>For Work In Restricted Working Space, Add</i> 7.91 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -1.87	45.02	7.90
22 11 16 00-0906	LF			2-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 5.97 <i>For Type M Tubing Instead Of Type L, Deduct</i> -4.46 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 5.63 <i>For For Brazed Fittings, Add</i> 1.13 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -4.22 <i>For Work In Restricted Working Space, Add</i> 8.48 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -2.78	56.05	9.53
22 11 16 00-0907	LF			3" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 7.87 <i>For Type M Tubing Instead Of Type L, Deduct</i> -5.80 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 6.50 <i>For For Brazed Fittings, Add</i> 1.22 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -4.97 <i>For Work In Restricted Working Space, Add</i> 9.19 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -3.81	68.74	11.06
22 11 16 00-0908	LF			4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 13.60 <i>For Type M Tubing Instead Of Type L, Deduct</i> -9.85 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 9.38 <i>For For Brazed Fittings, Add</i> 1.58 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -7.40 <i>For Work In Restricted Working Space, Add</i> 11.88 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -6.89	108.47	14.65
22 11 16 00-0909	LF			5" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 28.14 <i>For Type M Tubing Instead Of Type L, Deduct</i> -20.00 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 15.11 <i>For For Brazed Fittings, Add</i> 2.03 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -12.57 <i>For Work In Restricted Working Space, Add</i> 15.25 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -14.97	200.55	18.24

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0910	LF		6" Inside Diameter Copper Pipe/Tubing Type L Assembly .....262.63 Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. For Type K Tubing Instead Of Type L, Add 37.13 For Type M Tubing Instead Of Type L, Deduct -26.35 For Silver Solder Instead Of 95/5 Solder, Add 19.59 For For Brazed Fittings, Add 2.58 For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct -16.36 For Work In Restricted Working Space, Add 19.37 For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct -19.81		22.03
22 11 16 00-0911	LF		8" Inside Diameter Copper Pipe/Tubing Type L Assembly .....602.64 Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. For Type K Tubing Instead Of Type L, Add 94.32 For Type M Tubing Instead Of Type L, Deduct -65.90 For Silver Solder Instead Of 95/5 Solder, Add 38.16 For For Brazed Fittings, Add 3.21 For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct -34.14 For Work In Restricted Working Space, Add 24.07 For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct -52.24		26.33
22 11 16 00-0912			Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16) Note: Socket weld.		
22 11 16 00-0913			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16 00-0912)		
22 11 16 00-0914			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pipe (22 11 16 00-0913)		
22 11 16 00-0915	LF		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe .....8.60 For Work In Restricted Working Space, Add 1.23		1.64
22 11 16 00-0916	LF		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe .....10.45 For Work In Restricted Working Space, Add 1.29		1.72
22 11 16 00-0917	LF		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe .....13.66 For Work In Restricted Working Space, Add 1.39		1.85
22 11 16 00-0918	LF		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe .....17.52 For Work In Restricted Working Space, Add 1.52		2.02
22 11 16 00-0919	LF		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe .....20.67 For Work In Restricted Working Space, Add 1.68		2.24
22 11 16 00-0920	LF		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe .....27.14 For Work In Restricted Working Space, Add 1.87		2.50
22 11 16 00-0921	LF		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe .....39.07 For Work In Restricted Working Space, Add 2.13		2.84
22 11 16 00-0922	LF		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe .....51.10 For Work In Restricted Working Space, Add 2.52		3.37
22 11 16 00-0923	LF		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe .....72.96 For Work In Restricted Working Space, Add 3.10		4.13
22 11 16 00-0924	LF		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe .....134.28 For Work In Restricted Working Space, Add 3.94		5.25
22 11 16 00-0925	LF		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe .....195.90 For Work In Restricted Working Space, Add 5.16		6.88
22 11 16 00-0926			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows (22 11 16 00-0913)		
22 11 16 00-0927	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....26.49 For Work In Restricted Working Space, Add 5.84		7.79
22 11 16 00-0928	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....35.52 For Work In Restricted Working Space, Add 7.38		9.83
22 11 16 00-0929	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....48.11 For Work In Restricted Working Space, Add 9.25		12.29
22 11 16 00-0930	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....71.79 For Work In Restricted Working Space, Add 11.56		15.37
22 11 16 00-0931	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....80.17 For Work In Restricted Working Space, Add 12.79		17.01
22 11 16 00-0932	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....98.17 For Work In Restricted Working Space, Add 14.27		17.01
22 11 16 00-0933	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....185.96 For Work In Restricted Working Space, Add 16.23		21.62
22 11 16 00-0934	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....207.23 For Work In Restricted Working Space, Add 19.19		25.62
22 11 16 00-0935	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....317.65 For Work In Restricted Working Space, Add 23.61		31.46
22 11 16 00-0936	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....399.53 For Work In Restricted Working Space, Add 30.00		39.96
22 11 16 00-0937	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....864.20 For Work In Restricted Working Space, Add 39.35		52.47
22 11 16 00-0938			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows (22 11 16 00-0913)		
22 11 16 00-0939	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....30.00 For Work In Restricted Working Space, Add 5.84		7.79
22 11 16 00-0940	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....39.72 For Work In Restricted Working Space, Add 7.38		9.83



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0941	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	54.93 9.25	12.29
22 11 16 00-0942	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	80.77 11.56	15.37
22 11 16 00-0943	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	91.10 12.79	17.01
22 11 16 00-0944	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	101.88 14.27	19.06
22 11 16 00-0945	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	188.30 16.23	21.62
22 11 16 00-0946	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	206.93 19.19	25.62
22 11 16 00-0947	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	274.84 23.61	31.46
22 11 16 00-0948	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	479.79 30.00	39.96
22 11 16 00-0949	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	921.07 39.35	52.47
22 11 16 00-0950 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tees (22 11 16 00-0913)					
22 11 16 00-0951	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	41.98 8.76	11.68
22 11 16 00-0952	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	57.28 11.07	14.75
22 11 16 00-0953	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	71.38 13.89	18.55
22 11 16 00-0954	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	110.65 17.34	23.16
22 11 16 00-0955	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	124.52 19.19	25.62
22 11 16 00-0956	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	161.67 21.40	28.49
22 11 16 00-0957	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	229.58 24.35	32.49
22 11 16 00-0958	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	257.39 28.77	38.32
22 11 16 00-0959	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	308.82 35.42	47.24
22 11 16 00-0960	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	522.78 45.01	60.05
22 11 16 00-0961	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	1,263.92 59.03	78.70
22 11 16 00-0962 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Crosses (22 11 16 00-0913)					
22 11 16 00-0963	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	49.94 11.68	15.58
22 11 16 00-0964	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	66.74 14.75	19.67
22 11 16 00-0965	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	83.29 18.51	24.70
22 11 16 00-0966	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	122.59 23.12	30.84
22 11 16 00-0967	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	137.43 25.58	34.12
22 11 16 00-0968	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	172.91 28.53	38.02
22 11 16 00-0969	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	236.04 32.46	43.24
22 11 16 00-0970	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	266.97 38.36	51.13
22 11 16 00-0971	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	321.71 47.22	62.92
22 11 16 00-0972	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	521.08 60.01	80.03
22 11 16 00-0973	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	1,181.50 78.70	104.93
22 11 16 00-0974 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld Reducing Inserts (22 11 16 00-0913)					
22 11 16 00-0975	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	22.24 5.41	7.17
22 11 16 00-0976	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	32.47 7.28	9.73
22 11 16 00-0977	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	69.21 9.53	12.71
22 11 16 00-0978	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	79.34 10.55	14.04
22 11 16 00-0979	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	97.28 11.78	15.68

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0980 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	102.71 13.40	17.83
22 11 16 00-0981 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	127.09 15.83	21.11
22 11 16 00-0982 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	184.05 19.49	25.93
22 11 16 00-0983 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	336.17 24.75	32.99
22 11 16 00-0984 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	871.47 32.46	43.24
22 11 16 00-0985 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Thread Reducing Inserts (22 11 16 00-0913)		
22 11 16 00-0986 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	40.31 3.84	5.12
22 11 16 00-0987 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	47.69 5.41	7.17
22 11 16 00-0988 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	56.07 7.28	9.73
22 11 16 00-0989 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	67.17 9.53	12.71
22 11 16 00-0990 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	82.35 10.55	14.04
22 11 16 00-0991 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	112.31 11.78	15.68
22 11 16 00-0992 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	200.83 13.40	17.83
22 11 16 00-0993 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	460.64 15.83	21.11
22 11 16 00-0994 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	707.78 19.49	25.93
22 11 16 00-0995 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters (22 11 16 00-0913)		
22 11 16 00-0996 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	23.34 3.84	5.12
22 11 16 00-0997 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	32.28 5.41	7.17
22 11 16 00-0998 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	48.27 7.28	9.73
22 11 16 00-0999 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	67.17 9.53	12.71
22 11 16 00-1000 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	83.04 10.55	14.04
22 11 16 00-1001 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	104.01 11.78	15.68
22 11 16 00-1002 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	167.28 13.40	17.83
22 11 16 00-1003 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	201.01 15.83	21.11
22 11 16 00-1004 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	315.61 19.49	25.93
22 11 16 00-1005 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters (22 11 16 00-0913)		
22 11 16 00-1006 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	27.35 3.84	5.12
22 11 16 00-1007 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	33.55 5.41	7.17
22 11 16 00-1008 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	48.61 7.28	9.73
22 11 16 00-1009 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	68.34 9.53	12.71
22 11 16 00-1010 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	77.67 10.55	14.04
22 11 16 00-1011 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	99.63 11.78	15.68
22 11 16 00-1012 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	169.82 13.40	17.83
22 11 16 00-1013 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	245.29 15.83	21.11
22 11 16 00-1014 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	390.90 19.49	25.93



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1015 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings <small>(22 11 16 00-0913)</small>						
22 11 16 00-1016	EA			1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	20.65	4.72
				<i>For Work In Restricted Working Space, Add</i>	3.50	
22 11 16 00-1017	EA			3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	29.07	6.56
				<i>For Work In Restricted Working Space, Add</i>	4.92	
22 11 16 00-1018	EA			1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	39.10	8.82
				<i>For Work In Restricted Working Space, Add</i>	6.61	
22 11 16 00-1019	EA			1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	54.36	11.58
				<i>For Work In Restricted Working Space, Add</i>	8.67	
22 11 16 00-1020	EA			1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	64.06	12.81
				<i>For Work In Restricted Working Space, Add</i>	9.59	
22 11 16 00-1021	EA			2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	72.92	14.25
				<i>For Work In Restricted Working Space, Add</i>	10.70	
22 11 16 00-1022	EA			2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	129.92	16.19
				<i>For Work In Restricted Working Space, Add</i>	12.17	
22 11 16 00-1023	EA			3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	138.18	19.17
				<i>For Work In Restricted Working Space, Add</i>	14.39	
22 11 16 00-1024	EA			4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	177.23	23.57
				<i>For Work In Restricted Working Space, Add</i>	17.71	
22 11 16 00-1025	EA			6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	308.21	30.03
				<i>For Work In Restricted Working Space, Add</i>	22.50	
22 11 16 00-1026	EA			8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	570.90	39.35
				<i>For Work In Restricted Working Space, Add</i>	29.51	
22 11 16 00-1027 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <small>(22 11 16 00-0913)</small>						
22 11 16 00-1028	EA			1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	52.27	5.63
				<i>For Work In Restricted Working Space, Add</i>	4.21	
22 11 16 00-1029	EA			3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	59.76	7.89
				<i>For Work In Restricted Working Space, Add</i>	5.90	
22 11 16 00-1030	EA			1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	67.79	10.55
				<i>For Work In Restricted Working Space, Add</i>	7.93	
22 11 16 00-1031	EA			1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	131.87	13.84
				<i>For Work In Restricted Working Space, Add</i>	10.39	
22 11 16 00-1032	EA			1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	137.32	15.37
				<i>For Work In Restricted Working Space, Add</i>	11.50	
22 11 16 00-1033	EA			2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	207.08	17.11
				<i>For Work In Restricted Working Space, Add</i>	12.85	
22 11 16 00-1034	EA			2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	389.24	19.47
				<i>For Work In Restricted Working Space, Add</i>	14.60	
22 11 16 00-1035	EA			3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	572.26	23.06
				<i>For Work In Restricted Working Space, Add</i>	17.28	
22 11 16 00-1036	EA			4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	945.75	28.29
				<i>For Work In Restricted Working Space, Add</i>	21.24	
22 11 16 00-1037	EA			6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	1,271.64	35.96
				<i>For Work In Restricted Working Space, Add</i>	26.99	
22 11 16 00-1038	EA			8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	1,561.48	47.24
				<i>For Work In Restricted Working Space, Add</i>	35.42	
22 11 16 00-1039 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Caps <small>(22 11 16 00-0913)</small>						
22 11 16 00-1040	EA			1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	21.46	4.82
				<i>For Work In Restricted Working Space, Add</i>	2.19	
22 11 16 00-1041	EA			3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	29.31	6.05
				<i>For Work In Restricted Working Space, Add</i>	2.77	
22 11 16 00-1042	EA			1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	47.07	7.59
				<i>For Work In Restricted Working Space, Add</i>	3.47	
22 11 16 00-1043	EA			1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	53.37	5.73
				<i>For Work In Restricted Working Space, Add</i>	4.34	
22 11 16 00-1044	EA			1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	55.68	6.35
				<i>For Work In Restricted Working Space, Add</i>	4.79	
22 11 16 00-1045	EA			2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	81.74	7.17
				<i>For Work In Restricted Working Space, Add</i>	5.35	
22 11 16 00-1046	EA			2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	135.37	8.09
				<i>For Work In Restricted Working Space, Add</i>	6.09	
22 11 16 00-1047	EA			3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	141.70	9.63
				<i>For Work In Restricted Working Space, Add</i>	7.19	
22 11 16 00-1048	EA			4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	228.08	11.78
				<i>For Work In Restricted Working Space, Add</i>	8.85	
22 11 16 00-1049	EA			6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	531.59	14.96
				<i>For Work In Restricted Working Space, Add</i>	11.25	
22 11 16 00-1050	EA			8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	683.61	19.67
				<i>For Work In Restricted Working Space, Add</i>	14.75	
22 11 16 00-1051 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <small>(22 11 16 00-0913)</small>						
22 11 16 00-1052	EA			1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges.....	43.46	3.69
				<i>For Work In Restricted Working Space, Add</i>	2.80	
22 11 16 00-1053	EA			3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges.....	49.70	5.23
				<i>For Work In Restricted Working Space, Add</i>	3.94	
22 11 16 00-1054	EA			1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges.....	58.39	7.07
				<i>For Work In Restricted Working Space, Add</i>	5.29	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1055	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	65.10 6.95	9.22
22 11 16 00-1056	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	68.53 7.69	10.25
22 11 16 00-1057	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	85.55 8.55	11.38
22 11 16 00-1058	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	121.55 9.75	13.01
22 11 16 00-1059	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	135.46 11.50	15.37
22 11 16 00-1060	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	170.32 14.17	18.85
22 11 16 00-1061	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	253.55 18.02	23.98
22 11 16 00-1062	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	515.24 23.61	31.46
22 11 19 Domestic Water Piping Specialties (22 11)					
22 11 19 00-0001			Rubber Hose And Clamps (22 11 19)		
22 11 19 00-0002			General Purpose Hose (22 11 19 00-0001) Note: For medium pressure (up to 200/250 psi) applications requiring excellent resistance to air, oil and heat.		
22 11 19 00-0003	LF		3/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	6.86	2.21
22 11 19 00-0004	LF		1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	8.01	2.21
22 11 19 00-0005	LF		5/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	9.70	2.21
22 11 19 00-0006	LF		3/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	9.78	2.21
22 11 19 00-0007	LF		1" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	13.17	3.32
22 11 19 00-0008	LF		1-1/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	21.42	3.32
22 11 19 00-0009	LF		1-1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	23.32	4.43
22 11 19 00-0010	LF		2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	44.07	4.43
22 11 19 00-0011			Reinforced EPDM Water Hose Assembly (22 11 19 00-0001) Note: Includes male/female camlock, 150 psi, synthetic fiber with steel wire helix reinforcement.		
22 11 19 00-0012	LF		1-1/2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	58.16	4.43
22 11 19 00-0013	LF		2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	68.55	4.43
22 11 19 00-0014	LF		3" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	96.35	5.44
22 11 19 00-0015	LF		4" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	135.14	7.36
22 11 19 00-0016			Chemical Resistant Rubber Hoses (22 11 19 00-0001)		
22 11 19 00-0017	EA		50' x 6" Brown Gum Rubber, Chemical Resistant Flexible Hose.....	1,163.58	263.84
22 11 19 00-0018	EA		50' x 6" Nitrile Rubber, Low pH Resistance, Flexible Hose.....	1,580.21	263.84
22 11 19 00-0019			Water Pump Hose (22 11 19 00-0001)		
22 11 19 00-0020	EA		2" Inside Diameter, 20' Rubber Discharge Hose.....	506.33	67.61
22 11 19 00-0021	EA		2" Inside Diameter, 20' Rubber Intake Hose.....	535.04	67.61
22 11 19 00-0022			Barbed Hose x Threaded Male Pipe, Steel Coupling (22 11 19 00-0001)		
22 11 19 00-0023	EA		3/8" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling.....	27.38	9.29
22 11 19 00-0024	EA		1/2" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling.....	29.06	9.96
22 11 19 00-0025	EA		5/8" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling.....	31.12	10.62
22 11 19 00-0026	EA		3/4" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling.....	35.70	11.95
22 11 19 00-0027	EA		1" Inside Diameter Barbed Hose x 1" Threaded Male Pipe, Steel Coupling.....	42.35	14.61
22 11 19 00-0028	EA		1-1/4" Inside Diameter Barbed Hose x 1-1/4" Threaded Male Pipe, Steel Coupling.....	50.20	17.48
22 11 19 00-0029	EA		1-1/2" Inside Diameter Barbed Hose x 1-1/2" Threaded Male Pipe, Steel Coupling.....	64.75	23.01
22 11 19 00-0030	EA		2" Inside Diameter Barbed Hose x 2" Threaded Male Pipe, Steel Coupling.....	81.49	28.77
22 11 19 00-0031			Worm-Drive Hose Clamp (22 11 19 00-0001)		
22 11 19 00-0032	EA		3/8" To 1" Diameter Worm Drive Hose Clamp.....	11.52	3.32
22 11 19 00-0033	EA		1/2" To 1-1/6" Diameter Worm Drive Hose Clamp.....	12.18	3.32
22 11 19 00-0034	EA		5/8" To 1-1/2" Diameter Worm Drive Hose Clamp.....	12.91	3.32
22 11 19 00-0035	EA		3/4" To 2" Diameter Worm Drive Hose Clamp.....	13.73	3.32
22 11 19 00-0036	EA		1" To 2-1/2" Diameter Worm Drive Hose Clamp.....	14.69	3.32
22 11 19 00-0037	EA		1-1/4" To 2-3/4" Diameter Worm Drive Hose Clamp.....	15.89	4.43
22 11 19 00-0038	EA		1-1/2" To 3" Diameter Worm Drive Hose Clamp.....	17.16	4.43
22 11 19 00-0039			Trap Primer And Accessories (22 11 19)		
22 11 19 00-0040			Trap Primer (22 11 19 00-0039)		
22 11 19 00-0041	EA		1/2" Inlet/Outlet, Flow Through Automatic Trap Primer (JR Smith 2699).....	287.07	16.69
22 11 19 00-0042	EA		1/2" Inlet/Outlet, Automatic Trap Primer, Up To Two Floor Drains (PPP PR-500).....	176.02	11.13



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0043 EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Four Floor Drains (PPP PO-500).....	170.45	11.13
22 11 19 00-0044 Trap Primer Distribution Unit <small>(22 11 19 00-0039)</small>		
22 11 19 00-0045 EA Molded Plastic Four Opening Trap Primer Distribution Unit (PPP DU-U)..... Note: Can be used for two, three or four drains.	146.97	22.26
22 11 19 00-0046 EA Copper Four Opening Trap Primer Distribution Unit (PPP DU-4)..... Note: Can be used for two, three or four drains.	161.97	22.26
22 11 19 00-0047 Trap Primer Manifold <small>(22 11 19 00-0039)</small>		
22 11 19 00-0048 EA Two Outlet Trap Primer Manifold.....	230.36	29.93
22 11 19 00-0049 EA Four Outlet Trap Primer Manifold.....	348.97	34.05
22 11 19 00-0050 EA Six Outlet Trap Primer Manifold.....	464.88	36.06
22 11 19 00-0051 EA Eight Outlet Trap Primer Manifold.....	584.94	42.28
22 11 19 00-0052 Brass, Anti Siphon Vacuum Breakers <small>(22 11 19)</small>		
<small>Note: Watts 288A</small>		
22 11 19 00-0053 EA 1/2" Brass, Anti Siphon Vacuum Breaker.....	103.10	27.82
22 11 19 00-0054 EA 3/4" Brass, Anti Siphon Vacuum Breaker.....	118.48	31.16
22 11 19 00-0055 EA 1" Brass, Anti Siphon Vacuum Breaker.....	243.46	35.60
22 11 19 00-0056 EA 1-1/4" Brass, Anti Siphon Vacuum Breaker.....	387.66	41.17
22 11 19 00-0057 EA 1-1/2" Brass, Anti Siphon Vacuum Breaker.....	463.05	45.62
22 11 19 00-0058 EA 2" Brass, Anti Siphon Vacuum Breaker.....	678.01	55.64
22 11 19 00-0059 EA 2-1/2" Brass, Anti Siphon Vacuum Breaker.....	1,779.88	69.55
22 11 19 00-0060 Anti Siphon Pressure Vacuum Breakers <small>(22 11 19)</small>		
<small>Note: Watts 800M4QT</small>		
22 11 19 00-0061 EA 1/2" Anti Siphon Pressure Type Vacuum Breaker.....	304.14	27.82
22 11 19 00-0062 EA 3/4" Anti Siphon Pressure Type Vacuum Breaker.....	265.72	31.16
22 11 19 00-0063 EA 1" Anti Siphon Pressure Type Vacuum Breaker.....	380.20	35.60
22 11 19 00-0064 EA 1-1/4" Anti Siphon Pressure Type Vacuum Breaker.....	688.49	41.17
22 11 19 00-0065 EA 1-1/2" Anti Siphon Pressure Type Vacuum Breaker.....	838.47	45.62
22 11 19 00-0066 EA 2" Anti Siphon Pressure Type Vacuum Breaker.....	846.17	55.64
22 11 19 00-0067 Bellows Type Water Hammer Arrestors <small>(22 11 19)</small>		
22 11 19 00-0068 EA Up To 11 Fixture Unit Capacity, 3/4" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5005).....	279.07	13.30
22 11 19 00-0069 EA >11 To 32 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5010).....	545.94	16.10
22 11 19 00-0070 EA >32 To 60 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5020).....	800.61	16.10
22 11 19 00-0071 EA >60 To 113 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5030).....	1,958.71	16.10
22 11 19 00-0072 EA >113 To 154 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5040).....	2,206.77	16.10
22 11 19 00-0073 EA >154 To 330 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5050).....	2,704.36	16.10
22 11 19 00-0074 Piston Type Water Hammer Arrestors <small>(22 11 19)</small>		
22 11 19 00-0075 Threaded Piston Type Water Hammer Arrestors <small>(22 11 19 00-0074)</small>		
22 11 19 00-0076 EA Up To 11 Fixture Unit Capacity, 1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-A).....	168.54	7.42
22 11 19 00-0077 EA >11 To 32 Fixture Unit Capacity, 3/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-B).....	324.52	8.56
22 11 19 00-0078 EA >32 To 60 Fixture Unit Capacity, 1" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-C).....	482.77	9.28
22 11 19 00-0079 EA >60 To 113 Fixture Unit Capacity, 1-1/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-D).....	1,189.17	11.97
22 11 19 00-0080 EA >113 To 154 Fixture Unit Capacity, 1-1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-E).....	1,448.32	14.84
22 11 19 00-0081 EA >154 To 330 Fixture Unit Capacity, 2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-F).....	1,648.18	16.10
22 11 19 00-0082 Escutcheons <small>(22 11 19)</small>		
22 11 19 00-0083 Brass Escutcheons <small>(22 11 19 00-0082)</small>		
22 11 19 00-0084 Shallow Brass Escutcheons <small>(22 11 19 00-0083)</small>		
22 11 19 00-0085 EA 3/8" IPS, Antique Or Polished Brass Shallow Escutcheon.....	12.89	2.78
22 11 19 00-0086 EA 1/2" IPS, Antique Or Polished Brass Shallow Escutcheon.....	13.92	2.78
22 11 19 00-0087 Deep Bell Brass Escutcheons <small>(22 11 19 00-0083)</small>		
22 11 19 00-0088 EA 3/8" IPS, Antique Or Polished Deep Bell Brass Escutcheon.....	15.25	3.11
22 11 19 00-0089 EA 1/2" IPS, Antique Or Polished Deep Bell Brass Escutcheon.....	15.29	3.11



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 11 19 00-0090	Chrome Plated Brass Escutcheons With Setscrew (22 11 19 00-0083)		
22 11 19 00-0091	EA 3/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	24.11	2.78
22 11 19 00-0092	EA 1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	24.38	2.78
22 11 19 00-0093	EA 5/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	24.77	2.78
22 11 19 00-0094	EA 3/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	26.21	2.78
22 11 19 00-0095	EA 7/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	26.57	3.33
22 11 19 00-0096	EA 1" IPS, Chrome Plated Brass Escutcheon With Setscrew	27.96	3.33
22 11 19 00-0097	EA 1-1/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	28.91	3.68
22 11 19 00-0098	EA 1-1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	30.19	3.90
22 11 19 00-0099	EA 2" IPS, Chrome Plated Brass Escutcheon With Setscrew	43.79	4.45
22 11 19 00-0100	Plastic Escutcheons (22 11 19 00-0082)		
22 11 19 00-0101	Split-Ring White Plastic Escutcheons (22 11 19 00-0100)		
22 11 19 00-0102	EA 3/8" IPS, Split-Ring White Plastic Escutcheon	6.52	2.76
22 11 19 00-0103	EA 1/2" IPS, Split-Ring White Plastic Escutcheon	6.52	2.76
22 11 19 00-0104	EA 3/4" IPS, Split-Ring White Plastic Escutcheon	7.53	3.09
22 11 19 00-0105	EA 1" IPS, Split-Ring White Plastic Escutcheon	8.17	3.32
22 11 19 00-0106	EA 1-1/4" IPS, Split-Ring White Plastic Escutcheon	8.80	3.66
22 11 19 00-0107	EA 1-1/2" IPS, Split-Ring White Plastic Escutcheon	9.42	3.88
22 11 19 00-0108	EA 2" IPS, Split-Ring White Plastic Escutcheon	10.64	4.43
22 11 19 00-0109	EA 2-1/2" IPS, Split-Ring White Plastic Escutcheon	13.24	4.76
22 11 19 00-0110	EA 3" IPS, Split-Ring White Plastic Escutcheon	15.86	4.98
22 11 19 00-0111	EA 4" IPS, Split-Ring White Plastic Escutcheon	19.02	5.54
22 11 19 00-0112	Chrome Plate Plastic Escutcheons (22 11 19 00-0100)		
22 11 19 00-0113	EA 1/2" IPS, Chrome Plate Plastic Escutcheon	8.20	2.76
22 11 19 00-0114	EA 3/4" IPS, Chrome Plate Plastic Escutcheon	8.97	3.09
22 11 19 00-0115	EA 1" IPS, Chrome Plate Plastic Escutcheon	10.02	3.32
22 11 19 00-0116	EA 1-1/4" IPS, Chrome Plate Plastic Escutcheon	11.08	3.66
22 11 19 00-0117	EA 1-1/2" IPS, Chrome Plate Plastic Escutcheon	11.71	3.88
22 11 19 00-0118	EA 2" IPS, Chrome Plate Plastic Escutcheon	14.54	4.43
22 11 19 00-0119	EA 2-1/2" IPS, Chrome Plate Plastic Escutcheon	20.27	4.76
22 11 19 00-0120	EA 3" IPS, Chrome Plate Plastic Escutcheon	21.05	4.98
22 11 19 00-0121	EA 4" IPS, Chrome Plate Plastic Escutcheon	22.59	5.54
22 11 19 00-0122	Stainless Steel Escutcheons (22 11 19 00-0082)		
22 11 19 00-0123	Shallow Stainless Steel Escutcheons (22 11 19 00-0122)		
22 11 19 00-0124	EA 3/8" IPS, Shallow Stainless Steel Escutcheon	17.38	2.78
22 11 19 00-0125	EA 1/2" IPS, Shallow Stainless Steel Escutcheon	17.38	2.78
22 11 19 00-0126	EA 3/4" IPS, Shallow Stainless Steel Escutcheon	24.77	3.11
22 11 19 00-0127	Chrome Plated Steel Escutcheons (22 11 19 00-0082)		
22 11 19 00-0128	Split-Ring Chrome Plated Steel Escutcheons (22 11 19 00-0127)		
22 11 19 00-0129	EA 1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	6.36	2.76
22 11 19 00-0130	EA 3/4" IPS, Split-Ring Chrome Plated Steel Escutcheon	6.91	3.09
22 11 19 00-0131	EA 1" IPS, Split-Ring Chrome Plated Steel Escutcheon	7.61	3.32
22 11 19 00-0132	EA 1-1/4" IPS, Split-Ring Chrome Plated Steel Escutcheon	8.16	3.66
22 11 19 00-0133	EA 1-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	8.72	3.88
22 11 19 00-0134	EA 2" IPS, Split-Ring Chrome Plated Steel Escutcheon	10.06	4.43
22 11 19 00-0135	EA 2-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	16.09	4.76
22 11 19 00-0136	EA 3" IPS, Split-Ring Chrome Plated Steel Escutcheon	17.10	4.98
22 11 19 00-0137	EA 3-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	21.47	5.31
22 11 19 00-0138	EA 4" IPS, Split-Ring Chrome Plated Steel Escutcheon	18.61	5.54
22 11 19 00-0139	EA 5" IPS, Split-Ring Chrome Plated Steel Escutcheon	24.49	6.09
22 11 19 00-0140	EA 6" IPS, Split-Ring Chrome Plated Steel Escutcheon	28.78	6.64
22 11 19 00-0141	Split-Ring/Springs Chrome Plated Steel Escutcheons (22 11 19 00-0127)		
22 11 19 00-0142	EA 3/8" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	10.95	2.76
22 11 19 00-0143	EA 1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	10.95	2.76
22 11 19 00-0144	EA 3/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	11.67	3.09
22 11 19 00-0145	EA 1" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	11.57	3.32
22 11 19 00-0146	EA 1-1/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	13.96	3.66
22 11 19 00-0147	EA 1-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	14.75	3.88
22 11 19 00-0148	EA 2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	17.56	4.43
22 11 19 00-0149	EA 2-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	20.39	4.76
22 11 19 00-0150	EA 3" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	25.27	4.98
22 11 19 00-0151	EA 3-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	31.46	5.31
22 11 19 00-0152	EA 4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	31.85	5.54
22 11 19 00-0153	EA 5" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	54.02	6.09
22 11 19 00-0154	EA 6" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	56.26	6.64



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0155			Deep Bell Chrome Plated Steel Escutcheons <small>(22 11 19 00-0127)</small>		
22 11 19 00-0156	EA		3/8" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	7.89	3.11
22 11 19 00-0157	EA		1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	7.75	3.11
22 11 19 00-0158	EA		3/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	7.47	3.11
22 11 19 00-0159	EA		1" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	8.39	3.33
22 11 19 00-0160	EA		1-1/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	9.11	3.68
22 11 19 00-0161	EA		1-1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	10.07	3.90
22 11 19 00-0162			Shallow Chrome Plated Steel Escutcheons <small>(22 11 19 00-0127)</small>		
22 11 19 00-0163	EA		3/8" IPS, Shallow Chrome Plated Steel Escutcheon.....	6.94	2.78
22 11 19 00-0164	EA		1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	6.94	2.78
22 11 19 00-0165	EA		3/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	7.07	2.78
22 11 19 00-0166	EA		1" IPS, Shallow Chrome Plated Steel Escutcheon.....	7.58	3.33
22 11 19 00-0167	EA		1-1/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.20	3.68
22 11 19 00-0168	EA		1-1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	9.14	3.90
22 11 19 00-0169	EA		2" IPS, Shallow Chrome Plated Steel Escutcheon.....	10.35	4.45
22 11 19 00-0170			Wall Hydrants <small>(22 11 19)</small>		
			Note: Female inlet connection, 3/4" hose thread outlet.		
22 11 19 00-0171			Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants <small>(22 11 19 00-0170)</small>		
			Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0172	EA		6" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	847.34	27.82
			<i>For Cast Bronze Box, Add</i>	43.74	
			<i>For 1" NPT Outlet, Add</i>	103.08	
22 11 19 00-0173	EA		12" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	891.65	33.38
			<i>For Cast Bronze Box, Add</i>	43.74	
			<i>For 1" NPT Outlet, Add</i>	103.08	
22 11 19 00-0174	EA		18" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	914.44	40.17
			<i>For Cast Bronze Box, Add</i>	43.74	
			<i>For 1" NPT Outlet, Add</i>	103.08	
22 11 19 00-0175			Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants <small>(22 11 19 00-0170)</small>		
			Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0176	EA		Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	843.17	46.73
			<i>For Cast Bronze Box, Add</i>	43.74	
			<i>For 1" NPT Outlet, Add</i>	103.08	
22 11 19 00-0177			Cast Bronze Non-Freezing Wall Hydrant <small>(22 11 19 00-0170)</small>		
			Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0178	EA		3" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	451.02	34.50
			<i>For 1" NPT Outlet, Add</i>	103.08	
22 11 19 00-0179	EA		4" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	561.76	34.50
			<i>For 1" NPT Outlet, Add</i>	103.08	
22 11 19 00-0180	EA		6" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	561.76	34.50
			<i>For 1" NPT Outlet, Add</i>	103.08	
22 11 19 00-0181	EA		8" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	561.76	34.50
			<i>For 1" NPT Outlet, Add</i>	103.08	
22 11 19 00-0182	EA		10" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	587.53	69.55
			<i>For 1" NPT Outlet, Add</i>	103.08	
22 11 19 00-0183	EA		12" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	587.53	69.55
			<i>For 1" NPT Outlet, Add</i>	103.08	
22 11 19 00-0184	EA		18" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	664.62	69.55
			<i>For 1" NPT Outlet, Add</i>	103.08	
22 11 19 00-0185			Stainless Steel Box Type Wall Hydrants <small>(22 11 19 00-0170)</small>		
			Note: With 3/4" NPT female and 3/4" NPT male inlet connection.		
22 11 19 00-0186	EA		Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8140).....	417.62	27.82
22 11 19 00-0187	EA		Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8141).....	456.26	27.82
22 11 19 00-0188	EA		Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8150).....	461.53	27.82
22 11 19 00-0189	EA		Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8151).....	519.48	27.82
22 11 19 00-0190	EA		Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8145).....	732.95	38.95
			Note: Includes hot and cold hose connections.		
22 11 19 00-0191	EA		Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8146).....	755.78	38.95
			Note: Includes hot and cold hose connections.		
22 11 19 00-0192	EA		Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8155).....	755.78	38.95
			Note: Includes hot and cold hose connections.		
22 11 19 00-0193	EA		Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8156).....	810.22	38.95
			Note: Includes hot and cold hose connections.		
22 11 19 00-0194			Washer Boxes And Dryer Outlets <small>(22 11 19)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0195 Dryer Vent Kit <small>(22 11 19 00-0194)</small> Note: Includes 4" flexible tubing plastic hood clamps and tailpipe.		
22 11 19 00-0196 EA Dryer Vent Kit With Hood, 4" x 5' Flexible Vent And Clamps	74.56	14.46
22 11 19 00-0197 Washer Boxes And Dryer Vents <small>(22 11 19 00-0194)</small> Note: Includes 1/2" supply valves and mounting brackets.		
22 11 19 00-0198 EA 2" Washing Machine Outlet Box, Plastic, Two 1/2" Supply Valves	266.13	22.26
22 11 19 00-0199 Ice Maker Outlet Box <small>(22 11 19)</small> Note: Includes one 1/2" quarter turn ball valve and connections wall mount.		
22 11 19 00-0200 EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount.....	141.26	22.26
22 11 19 00-0201 EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve With Water Hammer Arrestor, Wall Mount.....	143.64	22.26
22 11 19 00-0202 EA Steel Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount.....	205.72	22.26
22 11 19 00-0203 Tempering Controllers For Potable Hot Water <small>(22 11 19)</small>		
22 11 19 00-0204 Point-Of-Use Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0203)</small> Note: Point-of-Use Water Tempering Valves: ASSE 1016, or 1070, with piston-control mechanism, positive shutoff of hot water when cold water supply is lost, bronze body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner.		
22 11 19 00-0205 EA 1/2" Inlets, 1/2" Outlet Sink/Faucet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-2007).....	533.51	26.94
22 11 19 00-0206 EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4004).....	136.43	26.94
22 11 19 00-0207 EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4008).....	300.33	26.94
22 11 19 00-0208 EA 3/4" Inlets, 3/4" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4016).....	343.19	36.29
22 11 19 00-0209 Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0203)</small> Note: Standard Thermostatic, Water Mixing Valves: ASSE 1017, liquid-filled motor and piston control mechanism with positive shutoff of hot water when coldwater supply is lost. Water flow is shut off in event of thermostat failure. Bronze valve body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner. Equipped with integral check stops and removable strainers.		
22 11 19 00-0210 EA 3/4" Inlets, 3/4" Outlet, 25 GPM Thermostatic Mixing Valve (Bradley S59-2025)	1,459.04	38.85
22 11 19 00-0211 EA 3/4" Inlets, 1" Outlet, 45 GPM Thermostatic Mixing Valve (Bradley S59-2045)	1,636.41	47.85
22 11 19 00-0212 EA 1" Inlets, 1-1/4" Outlet, 80 GPM Thermostatic Mixing Valve (Bradley S59-2080).....	1,967.84	55.66
22 11 19 00-0213 EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM Thermostatic Mixing Valve (Bradley S59-2130).....	2,554.98	58.50
22 11 19 00-0214 EA 2" Inlets, 2" Outlet, 220 GPM Thermostatic Mixing Valve (Bradley S59-2200)	3,430.96	75.90
22 11 19 00-0215 High Low Temperature Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0203)</small> Note: High Low Temperature Thermostatic Mixing Valves: ASSE 1017, liquid-filled thermal motor and piston control mechanism with positive shutoff of hot water when cold water supply is lost, and allowing restricted cold flow in event of loss or interruption of hot water supply. Flow is shut off in the event of thermostat failure. Equipped with integral check stops, thermometer, and removable strainers.		
22 11 19 00-0216 EA 3/4" Inlets, 1" Outlet, 45 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3045)	3,731.19	59.83
22 11 19 00-0217 EA 1" Inlets, 1-1/4" Outlet, 80 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3080)	4,858.80	69.57
22 11 19 00-0218 EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3130).....	5,668.95	73.13
22 11 19 00-0219 EA 2" Inlets, 2" Outlet, 220 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3200)	6,276.24	94.87
22 11 19 00-0220 Thermostatic Mixing Valves (Leonard) <small>(22 11 19 00-0203)</small> Note: Thermostatic Water Mixing Valve with Integral combination checkstops with strainers, 125 PSI (8.6 BAR) maximum operating pressure, Copper encapsulated thermostatic assembly with Teflon coated brass shuttle, Locking temperature regulating handle, Top or bottom supply/outlet connections, Integral circulation port connection		
22 11 19 00-0221 EA 3/4" In x 3/4" Out Thermostatic Mixing Valve (Leonard LV-981-RF).....	1,055.40	38.85
22 11 19 00-0222 EA 1" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-982-RF).....	1,241.96	47.85
22 11 19 00-0223 EA 1-1/4" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-983-RF).....	1,527.28	55.66
22 11 19 00-0224 EA 1-1/4" In x 1-1/2" Out Thermostatic Mixing Valve (Leonard LV-984-RF).....	1,870.10	58.52
22 11 19 00-0225 EA 2" In x 2" Out Thermostatic Mixing Valve (Leonard LV-985-RF).....	2,781.44	75.90
22 11 19 00-0226 Water Mixing/Self Operating Temperature Regulator <small>(22 11 19 00-0203)</small> Note: Includes high rate spring, temperature adjustment screw, temperature dial and remote bulb with 8' capillary tube.		
22 11 19 00-0227 EA 3/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,133.78	55.64
22 11 19 00-0228 EA 1" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,316.92	70.10
22 11 19 00-0229 EA 1-1/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,650.85	84.57
22 11 19 00-0230 EA 1-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	4,016.61	99.03
22 11 19 00-0231 EA 2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	4,780.73	130.19
22 11 19 00-0232 EA 2-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	5,650.59	148.48
22 11 19 00-0233 Thermostatic Mixing Valves (Holby) <small>(22 11 19 00-0203)</small>		
22 11 19 00-0234 EA 2-1/2" Thermostatic Mixing Valve (Holby HOLBY2500).....	4,974.22	75.92



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0235				Backflow Preventer Valves <small>(22 11 19)</small>		
22 11 19 00-0236				Double Check Valve Backflow Preventer Assemblies <small>(22 11 19 00-0235)</small>		
22 11 19 00-0237				Threaded Double Check Valve Assemblies <small>(22 11 19 00-0236)</small>		
22 11 19 00-0238				Double Check Valve Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0237)</small>		
				Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and two epoxy coated bronze body check valves (Watts 007 QT or 719 QT series).		
22 11 19 00-0239	EA			1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series)	429.97	29.82
				<i>For Work In Restricted Working Space, Add</i>	22.37	
				<i>For Owner Furnished Material, Deduct</i>	-355.42	
22 11 19 00-0240	EA			3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	506.94	42.28
				<i>For Work In Restricted Working Space, Add</i>	31.71	
				<i>For Owner Furnished Material, Deduct</i>	-401.23	
22 11 19 00-0241	EA			1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	584.31	51.63
				<i>For Work In Restricted Working Space, Add</i>	38.72	
				<i>For Owner Furnished Material, Deduct</i>	-455.23	
22 11 19 00-0242	EA			1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	819.03	60.09
				<i>For Work In Restricted Working Space, Add</i>	45.07	
				<i>For Owner Furnished Material, Deduct</i>	-668.81	
22 11 19 00-0243	EA			1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	1,014.68	68.99
				<i>For Work In Restricted Working Space, Add</i>	51.41	
				<i>For Owner Furnished Material, Deduct</i>	-843.32	
22 11 19 00-0244	EA			2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	1,168.03	89.02
				<i>For Work In Restricted Working Space, Add</i>	66.77	
				<i>For Owner Furnished Material, Deduct</i>	-945.48	
22 11 19 00-0245				Double Check Valve Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0237)</small>		
				Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, two epoxy coated bronze body check valves, and bronze strainer (Watts 007 QT-S or 719 QT-S series).		
22 11 19 00-0246	EA			1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	531.67	29.82
				<i>For Work In Restricted Working Space, Add</i>	22.37	
				<i>For Owner Furnished Material, Deduct</i>	-457.12	
22 11 19 00-0247	EA			3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	655.90	42.28
				<i>For Work In Restricted Working Space, Add</i>	31.71	
				<i>For Owner Furnished Material, Deduct</i>	-550.19	
22 11 19 00-0248	EA			1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	766.93	51.63
				<i>For Work In Restricted Working Space, Add</i>	38.72	
				<i>For Owner Furnished Material, Deduct</i>	-637.85	
22 11 19 00-0249	EA			1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,079.23	60.09
				<i>For Work In Restricted Working Space, Add</i>	45.07	
				<i>For Owner Furnished Material, Deduct</i>	-929.01	
22 11 19 00-0250	EA			1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,321.14	68.99
				<i>For Work In Restricted Working Space, Add</i>	51.41	
				<i>For Owner Furnished Material, Deduct</i>	-1,149.78	
22 11 19 00-0251	EA			2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,591.13	89.02
				<i>For Work In Restricted Working Space, Add</i>	66.77	
				<i>For Owner Furnished Material, Deduct</i>	-1,368.58	
22 11 19 00-0252				Flanged Double Check Valve Assemblies <small>(22 11 19 00-0236)</small>		
22 11 19 00-0253				Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0252)</small>		
				Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 NRS series).		
22 11 19 00-0254	EA			2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS)	5,837.64	245.93
				<i>For Work In Restricted Working Space, Add</i>	98.37	
				<i>For Owner Furnished Material, Deduct</i>	-5,509.73	
22 11 19 00-0255	EA			3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS).....	6,414.04	276.68
				<i>For Work In Restricted Working Space, Add</i>	109.13	
				<i>For Owner Furnished Material, Deduct</i>	-6,050.26	
22 11 19 00-0256				Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0252)</small>		
				Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 OSY series).		
22 11 19 00-0257	EA			2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF007 OSY).....	6,397.67	245.93
				<i>For Work In Restricted Working Space, Add</i>	98.37	
				<i>For Owner Furnished Material, Deduct</i>	-6,069.76	
22 11 19 00-0258	EA			3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 007 OSY)	7,347.42	276.68
				<i>For Work In Restricted Working Space, Add</i>	109.13	
				<i>For Owner Furnished Material, Deduct</i>	-6,983.64	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0259 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0252)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 NRS series).		
22 11 19 00-0260 EA 2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	5,878.02	245.93
<i>For Work In Restricted Working Space, Add</i>	98.37	
<i>For Owner Furnished Material, Deduct</i>	-5,550.13	
22 11 19 00-0261 EA 3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	4,478.12	276.68
<i>For Work In Restricted Working Space, Add</i>	109.14	
<i>For Owner Furnished Material, Deduct</i>	-4,114.33	
22 11 19 00-0262 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	7,011.63	409.89
<i>For Work In Restricted Working Space, Add</i>	163.87	
<i>For Owner Furnished Material, Deduct</i>	-6,465.40	
22 11 19 00-0263 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series).....	10,629.48	595.03
<i>For Work In Restricted Working Space, Add</i>	322.47	
<i>For Owner Furnished Material, Deduct</i>	-9,554.59	
22 11 19 00-0264 EA 8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series).....	24,333.86	892.55
<i>For Work In Restricted Working Space, Add</i>	483.78	
<i>For Owner Furnished Material, Deduct</i>	-22,721.26	
22 11 19 00-0265 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series).....	31,263.48	1,055.70
<i>For Work In Restricted Working Space, Add</i>	575.84	
<i>For Owner Furnished Material, Deduct</i>	-29,344.02	
22 11 19 00-0266 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs And Strainer <small>(22 11 19 00-0252)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, two epoxy coated iron body check valves, and iron body strainer (Watts 709 NRS-S series).		
22 11 19 00-0267 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	8,194.33	409.89
<i>For Work In Restricted Working Space, Add</i>	163.85	
<i>For Owner Furnished Material, Deduct</i>	-7,648.15	
22 11 19 00-0268 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	13,601.69	595.03
<i>For Work In Restricted Working Space, Add</i>	322.47	
<i>For Owner Furnished Material, Deduct</i>	-12,526.80	
22 11 19 00-0269 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	36,334.07	1,055.70
<i>For Work In Restricted Working Space, Add</i>	575.84	
<i>For Owner Furnished Material, Deduct</i>	-34,414.61	
22 11 19 00-0270 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0252)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 OSY series).		
22 11 19 00-0271 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	6,244.41	245.93
<i>For Work In Restricted Working Space, Add</i>	98.37	
<i>For Owner Furnished Material, Deduct</i>	-5,916.52	
22 11 19 00-0272 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series).....	6,861.22	276.68
<i>For Work In Restricted Working Space, Add</i>	109.13	
<i>For Owner Furnished Material, Deduct</i>	-6,497.44	
22 11 19 00-0273 EA 4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	7,440.66	409.89
<i>For Work In Restricted Working Space, Add</i>	163.85	
<i>For Owner Furnished Material, Deduct</i>	-6,894.48	
22 11 19 00-0274 EA 6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	12,453.77	595.03
<i>For Work In Restricted Working Space, Add</i>	322.47	
<i>For Owner Furnished Material, Deduct</i>	-11,378.88	
22 11 19 00-0275 EA 8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	25,848.66	892.55
<i>For Work In Restricted Working Space, Add</i>	483.71	
<i>For Owner Furnished Material, Deduct</i>	-24,236.31	
22 11 19 00-0276 EA 10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	33,218.32	1,055.70
<i>For Work In Restricted Working Space, Add</i>	575.84	
<i>For Owner Furnished Material, Deduct</i>	-31,298.86	
22 11 19 00-0277 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0252)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 OSY series).		
22 11 19 00-0278 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	3,713.27	245.93
<i>For Work In Restricted Working Space, Add</i>	98.37	
<i>For Owner Furnished Material, Deduct</i>	-3,385.38	
22 11 19 00-0279 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	4,087.90	276.68
<i>For Work In Restricted Working Space, Add</i>	109.13	
<i>For Owner Furnished Material, Deduct</i>	-3,724.12	
22 11 19 00-0280 EA 4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	4,609.03	409.89
<i>For Work In Restricted Working Space, Add</i>	163.85	
<i>For Owner Furnished Material, Deduct</i>	-4,062.85	
22 11 19 00-0281 EA 6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	7,427.73	595.03
<i>For Work In Restricted Working Space, Add</i>	322.47	
<i>For Owner Furnished Material, Deduct</i>	-6,352.84	
22 11 19 00-0282 EA 8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	14,172.45	892.55
<i>For Work In Restricted Working Space, Add</i>	483.71	
<i>For Owner Furnished Material, Deduct</i>	-12,560.10	
22 11 19 00-0283 EA 10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	15,359.65	1,055.70
<i>For Work In Restricted Working Space, Add</i>	575.84	
<i>For Owner Furnished Material, Deduct</i>	-13,440.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0284 N-Pattern Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0252)</small>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N OSY series).		
22 11 19 00-0285 EA 2-1/2" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	4,914.48	245.93
For Work In Restricted Working Space, Add	98.37	
For Owner Furnished Material, Deduct	-4,586.59	
22 11 19 00-0286 EA 3" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	5,289.10	276.68
For Work In Restricted Working Space, Add	109.13	
For Owner Furnished Material, Deduct	-4,925.32	
22 11 19 00-0287 EA 4" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757 OSY Series).....	6,616.29	409.89
For Work In Restricted Working Space, Add	163.85	
For Owner Furnished Material, Deduct	-6,070.11	
22 11 19 00-0288 EA 6" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	10,787.97	595.03
For Work In Restricted Working Space, Add	322.47	
For Owner Furnished Material, Deduct	-9,713.08	
22 11 19 00-0289 EA 8" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	19,152.66	892.55
For Work In Restricted Working Space, Add	483.71	
For Owner Furnished Material, Deduct	-17,540.31	
22 11 19 00-0290 EA 10" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	22,791.38	1,055.70
For Work In Restricted Working Space, Add	575.84	
For Owner Furnished Material, Deduct	-20,871.92	
22 11 19 00-0291 Double Check Valve Assemblies With Non-Rising Stem Shut-Off Valves <small>(22 11 19 00-0252)</small>		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 NRS series).		
22 11 19 00-0292 EA 2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	3,474.36	245.93
For Work In Restricted Working Space, Add	98.37	
For Owner Furnished Material, Deduct	-3,146.47	
22 11 19 00-0293 EA 3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	3,859.85	276.68
For Work In Restricted Working Space, Add	109.13	
For Owner Furnished Material, Deduct	-3,496.07	
22 11 19 00-0294 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	4,391.71	409.89
For Work In Restricted Working Space, Add	163.85	
For Owner Furnished Material, Deduct	-3,845.53	
22 11 19 00-0295 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	7,257.00	595.03
For Work In Restricted Working Space, Add	322.47	
For Owner Furnished Material, Deduct	-6,182.11	
22 11 19 00-0296 EA 8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	14,007.92	892.55
For Work In Restricted Working Space, Add	483.71	
For Owner Furnished Material, Deduct	-12,395.57	
22 11 19 00-0297 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	15,819.03	1,055.70
For Work In Restricted Working Space, Add	575.84	
For Owner Furnished Material, Deduct	-13,899.57	
22 11 19 00-0298 N-Pattern Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0252)</small>		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N NRS series).		
22 11 19 00-0299 EA 2-1/2" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	4,574.84	245.93
For Work In Restricted Working Space, Add	98.37	
For Owner Furnished Material, Deduct	-4,246.95	
22 11 19 00-0300 EA 3" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	4,949.46	276.68
For Work In Restricted Working Space, Add	109.13	
For Owner Furnished Material, Deduct	-4,585.68	
22 11 19 00-0301 EA 4" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	6,277.07	409.89
For Work In Restricted Working Space, Add	163.85	
For Owner Furnished Material, Deduct	-5,730.89	
22 11 19 00-0302 EA 6" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	10,426.66	595.03
For Work In Restricted Working Space, Add	322.47	
For Owner Furnished Material, Deduct	-9,351.77	
22 11 19 00-0303 EA 8" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	18,605.79	892.55
For Work In Restricted Working Space, Add	483.71	
For Owner Furnished Material, Deduct	-16,993.44	
22 11 19 00-0304 EA 10" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	22,242.91	1,055.70
For Work In Restricted Working Space, Add	575.84	
For Owner Furnished Material, Deduct	-20,323.45	
22 11 19 00-0305 Double Check Valve Assemblies With Butterfly Shut-Off Valves <small>(22 11 19 00-0252)</small>		
Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757 BFG series).		

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0306	EA		2-1/2" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,039.40 98.37 -3,711.51	245.93
22 11 19 00-0307	EA		3" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,414.02 109.13 -4,050.24	276.68
22 11 19 00-0308	EA		4" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,935.16 163.85 -4,388.98	409.89
22 11 19 00-0309	EA		6" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	7,762.07 322.47 -6,687.18	595.03
22 11 19 00-0310	EA		8" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	14,506.79 483.71 -12,894.44	892.55
22 11 19 00-0311			N-Pattern Double Check Valve Assemblies With Butterfly Shut-Offs (22 11 19 00-0232) Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757N BFG series).		
22 11 19 00-0312	EA		2-1/2" N-Pattern Flanged Double Check Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,240.61 98.37 -4,912.72	245.93
22 11 19 00-0313	EA		3" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,615.23 109.13 -5,251.45	276.68
22 11 19 00-0314	EA		4" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	6,942.41 163.85 -6,396.23	409.89
22 11 19 00-0315	EA		6" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	11,122.38 322.47 -10,047.49	595.03
22 11 19 00-0316	EA		8" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	14,506.79 483.71 -12,894.44	892.55
22 11 19 00-0317			Grooved Double Check Valve Assemblies (22 11 19 00-0236)		
22 11 19 00-0318			Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0317) Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757 QT series).		
22 11 19 00-0319	EA		2-1/2" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,474.36 98.37 -3,146.47	131.17
22 11 19 00-0320	EA		3" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,859.85 109.13 -3,496.07	145.51
22 11 19 00-0321			N-Patten Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0317) Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757N QT series).		
22 11 19 00-0322	EA		2-1/2" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,574.84 98.37 -4,246.95	131.17
22 11 19 00-0323	EA		3" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,949.46 109.13 -4,585.68	145.51
22 11 19 00-0324			Reduced Pressure Zone Backflow Preventer Assemblies (22 11 19 00-0235)		
22 11 19 00-0325			Threaded Reduced Pressure Zone Assemblies (22 11 19 00-0324)		
22 11 19 00-0326			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0325) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
22 11 19 00-0327	EA		1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	477.92 19.36 -413.38	25.81
22 11 19 00-0328	EA		3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	504.67 21.37 -433.45	28.48
22 11 19 00-0329	EA		1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	588.01 22.37 -513.46	29.82
22 11 19 00-0330	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	789.55 31.71 -683.84	42.28
22 11 19 00-0331	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	936.67 38.72 -807.59	51.63



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0332	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,417.10	60.09
			<i>For Work In Restricted Working Space, Add</i>	45.07	
			<i>For Owner Furnished Material, Deduct</i>	-1,266.88	
22 11 19 00-0333	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,497.82	68.99
			<i>For Work In Restricted Working Space, Add</i>	51.41	
			<i>For Owner Furnished Material, Deduct</i>	-1,326.46	
22 11 19 00-0334	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,796.60	89.02
			<i>For Work In Restricted Working Space, Add</i>	66.77	
			<i>For Owner Furnished Material, Deduct</i>	-1,574.05	
22 11 19 00-0335			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0325)</small>		
			Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 009 QT-S series).		
22 11 19 00-0336	EA		1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	527.96	25.81
			<i>For Work In Restricted Working Space, Add</i>	19.36	
			<i>For Owner Furnished Material, Deduct</i>	-463.42	
22 11 19 00-0337	EA		3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	557.41	28.48
			<i>For Work In Restricted Working Space, Add</i>	21.37	
			<i>For Owner Furnished Material, Deduct</i>	-486.19	
22 11 19 00-0338	EA		1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	660.29	42.28
			<i>For Work In Restricted Working Space, Add</i>	22.37	
			<i>For Owner Furnished Material, Deduct</i>	-585.74	
22 11 19 00-0339	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	903.13	42.28
			<i>For Work In Restricted Working Space, Add</i>	31.71	
			<i>For Owner Furnished Material, Deduct</i>	-797.42	
22 11 19 00-0340	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,078.70	51.63
			<i>For Work In Restricted Working Space, Add</i>	38.72	
			<i>For Owner Furnished Material, Deduct</i>	-949.62	
22 11 19 00-0341	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,610.78	60.09
			<i>For Work In Restricted Working Space, Add</i>	45.07	
			<i>For Owner Furnished Material, Deduct</i>	-1,460.56	
22 11 19 00-0342	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,771.15	68.99
			<i>For Work In Restricted Working Space, Add</i>	51.41	
			<i>For Owner Furnished Material, Deduct</i>	-1,599.79	
22 11 19 00-0343	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	2,131.95	89.02
			<i>For Work In Restricted Working Space, Add</i>	66.77	
			<i>For Owner Furnished Material, Deduct</i>	-1,909.40	
22 11 19 00-0344			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0325)</small>		
			Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 919 QT series).		
22 11 19 00-0345	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	789.55	42.28
			<i>For Work In Restricted Working Space, Add</i>	31.71	
			<i>For Owner Furnished Material, Deduct</i>	-683.84	
22 11 19 00-0346	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	936.67	51.63
			<i>For Work In Restricted Working Space, Add</i>	38.72	
			<i>For Owner Furnished Material, Deduct</i>	-807.59	
22 11 19 00-0347	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	1,417.10	60.09
			<i>For Work In Restricted Working Space, Add</i>	45.07	
			<i>For Owner Furnished Material, Deduct</i>	-1,266.88	
22 11 19 00-0348	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	1,497.82	68.99
			<i>For Work In Restricted Working Space, Add</i>	51.41	
			<i>For Owner Furnished Material, Deduct</i>	-1,326.46	
22 11 19 00-0349	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	1,796.60	89.02
			<i>For Work In Restricted Working Space, Add</i>	66.77	
			<i>For Owner Furnished Material, Deduct</i>	-1,574.05	
22 11 19 00-0350			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0325)</small>		
			Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 919 QT-S series).		
22 11 19 00-0351	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	903.13	42.28
			<i>For Work In Restricted Working Space, Add</i>	31.71	
			<i>For Owner Furnished Material, Deduct</i>	-797.42	
22 11 19 00-0352	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,078.70	51.63
			<i>For Work In Restricted Working Space, Add</i>	38.72	
			<i>For Owner Furnished Material, Deduct</i>	-949.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0353 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,610.78	60.09
For Work In Restricted Working Space, Add	45.07	
For Owner Furnished Material, Deduct	-1,460.56	
22 11 19 00-0354 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,771.15	68.99
For Work In Restricted Working Space, Add	51.41	
For Owner Furnished Material, Deduct	-1,599.79	
22 11 19 00-0355 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	2,131.95	89.02
For Work In Restricted Working Space, Add	66.77	
For Owner Furnished Material, Deduct	-1,909.40	
22 11 19 00-0356 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0325)</small>		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 909 QT series).		
22 11 19 00-0357 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....	1,633.18	42.28
For Work In Restricted Working Space, Add	31.71	
For Owner Furnished Material, Deduct	-1,527.47	
22 11 19 00-0358 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....	1,932.99	51.63
For Work In Restricted Working Space, Add	38.72	
For Owner Furnished Material, Deduct	-1,803.91	
22 11 19 00-0359 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT).....	2,976.30	60.09
For Work In Restricted Working Space, Add	45.07	
For Owner Furnished Material, Deduct	-2,826.08	
22 11 19 00-0360 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT).....	3,217.30	68.99
For Work In Restricted Working Space, Add	51.41	
For Owner Furnished Material, Deduct	-3,045.94	
22 11 19 00-0361 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 909M1QT).....	3,731.36	89.02
For Work In Restricted Working Space, Add	66.77	
For Owner Furnished Material, Deduct	-3,508.81	
22 11 19 00-0362 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0325)</small>		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts LF909 QT-S series).		
22 11 19 00-0363 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S).....	2,200.97	42.28
For Work In Restricted Working Space, Add	31.71	
For Owner Furnished Material, Deduct	-2,095.26	
22 11 19 00-0364 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S).....	2,616.23	51.63
For Work In Restricted Working Space, Add	38.72	
For Owner Furnished Material, Deduct	-2,487.15	
22 11 19 00-0365 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	3,990.50	60.09
For Work In Restricted Working Space, Add	45.07	
For Owner Furnished Material, Deduct	-3,840.28	
22 11 19 00-0366 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	4,358.79	68.99
For Work In Restricted Working Space, Add	51.41	
For Owner Furnished Material, Deduct	-4,187.43	
22 11 19 00-0367 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	5,176.80	89.02
For Work In Restricted Working Space, Add	66.77	
For Owner Furnished Material, Deduct	-4,954.25	
22 11 19 00-0368 Flanged Reduced Pressure Zone Assemblies <small>(22 11 19 00-0324)</small>		
22 11 19 00-0369 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0368)</small>		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 NRS series).		
22 11 19 00-0370 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....	5,368.16	245.93
For Work In Restricted Working Space, Add	98.37	
For Owner Furnished Material, Deduct	-5,040.25	
22 11 19 00-0371 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....	6,049.04	276.68
For Work In Restricted Working Space, Add	109.13	
For Owner Furnished Material, Deduct	-5,685.26	
22 11 19 00-0372 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Strainer <small>(22 11 19 00-0368)</small>		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF009 NRS-S-FDA series).		
22 11 19 00-0373 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	6,401.85	245.93
For Work In Restricted Working Space, Add	98.37	
For Owner Furnished Material, Deduct	-6,073.94	
22 11 19 00-0374 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	7,249.90	276.68
For Work In Restricted Working Space, Add	109.13	
For Owner Furnished Material, Deduct	-6,886.12	



Plumbing	22
Plumbing Piping	22 10
Facility Water Distribution	22 11

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0375 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0368)</small>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 OSY series).		
22 11 19 00-0376 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....	5,763.81	245.93
<i>For Work In Restricted Working Space, Add</i>		
	98.37	
<i>For Owner Furnished Material, Deduct</i>		
	-5,435.90	
22 11 19 00-0377 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....	6,706.59	276.68
<i>For Work In Restricted Working Space, Add</i>		
	109.13	
<i>For Owner Furnished Material, Deduct</i>		
	-6,342.81	
22 11 19 00-0378 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs And Strainer <small>(22 11 19 00-0368)</small>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies. (Watts LF009 OSY-S-FDA Series)		
22 11 19 00-0379 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series).....	6,401.85	245.93
<i>For Work In Restricted Working Space, Add</i>		
	98.37	
<i>For Owner Furnished Material, Deduct</i>		
	-6,073.94	
22 11 19 00-0380 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series).....	7,249.90	276.68
<i>For Work In Restricted Working Space, Add</i>		
	109.13	
<i>For Owner Furnished Material, Deduct</i>		
	-6,886.12	
22 11 19 00-0381 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0368)</small>		
Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and captured spring assemblies (Watts LF009 QT-FDA series).		
22 11 19 00-0382 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series).....	7,108.15	245.93
<i>For Work In Restricted Working Space, Add</i>		
	98.37	
<i>For Owner Furnished Material, Deduct</i>		
	-6,780.24	
22 11 19 00-0383 EA 3" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series).....	8,226.46	276.68
<i>For Work In Restricted Working Space, Add</i>		
	109.13	
<i>For Owner Furnished Material, Deduct</i>		
	-7,862.68	
22 11 19 00-0384 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0368)</small>		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 NRS series).		
22 11 19 00-0385 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	9,228.44	245.93
<i>For Work In Restricted Working Space, Add</i>		
	98.37	
<i>For Owner Furnished Material, Deduct</i>		
	-8,900.55	
22 11 19 00-0386 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	10,484.70	276.68
<i>For Work In Restricted Working Space, Add</i>		
	109.14	
<i>For Owner Furnished Material, Deduct</i>		
	-10,120.91	
22 11 19 00-0387 EA 4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	13,198.41	409.89
<i>For Work In Restricted Working Space, Add</i>		
	163.87	
<i>For Owner Furnished Material, Deduct</i>		
	-12,652.18	
22 11 19 00-0388 EA 6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	19,888.15	595.03
<i>For Work In Restricted Working Space, Add</i>		
	451.49	
<i>For Owner Furnished Material, Deduct</i>		
	-18,383.20	
22 11 19 00-0389 EA 8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	33,000.82	892.55
<i>For Work In Restricted Working Space, Add</i>		
	677.23	
<i>For Owner Furnished Material, Deduct</i>		
	-30,743.39	
22 11 19 00-0390 EA 10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	42,638.39	1,055.70
<i>For Work In Restricted Working Space, Add</i>		
	575.84	
<i>For Owner Furnished Material, Deduct</i>		
	-40,718.93	
22 11 19 00-0391 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Epoxy Coated Strainer <small>(22 11 19 00-0368)</small>		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF909 NRS-S-FDA series).		
22 11 19 00-0392 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	9,945.89	245.93
<i>For Work In Restricted Working Space, Add</i>		
	98.37	
<i>For Owner Furnished Material, Deduct</i>		
	-9,618.00	
22 11 19 00-0393 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	11,239.75	276.68
<i>For Work In Restricted Working Space, Add</i>		
	109.13	
<i>For Owner Furnished Material, Deduct</i>		
	-10,875.97	
22 11 19 00-0394 EA 4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	14,356.03	409.89
<i>For Work In Restricted Working Space, Add</i>		
	163.85	
<i>For Owner Furnished Material, Deduct</i>		
	-13,809.85	
22 11 19 00-0395 EA 6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	21,637.12	595.03
<i>For Work In Restricted Working Space, Add</i>		
	322.47	
<i>For Owner Furnished Material, Deduct</i>		
	-20,562.23	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0396	EA		8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	35,045.96	892.55
			<i>For Work In Restricted Working Space, Add</i>	483.71	
			<i>For Owner Furnished Material, Deduct</i>	-33,433.61	
22 11 19 00-0397	EA		10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	47,577.61	1,055.70
			<i>For Work In Restricted Working Space, Add</i>	575.84	
			<i>For Owner Furnished Material, Deduct</i>	-45,658.15	
22 11 19 00-0398			Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0368)</small>		
			Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 OSY series).		
22 11 19 00-0399	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	9,819.11	245.93
			<i>For Work In Restricted Working Space, Add</i>	98.37	
			<i>For Owner Furnished Material, Deduct</i>	-9,491.22	
22 11 19 00-0400	EA		3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)....	11,161.75	276.68
			<i>For Work In Restricted Working Space, Add</i>	109.14	
			<i>For Owner Furnished Material, Deduct</i>	-10,797.96	
22 11 19 00-0401	EA		4" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)....	14,039.85	409.89
			<i>For Work In Restricted Working Space, Add</i>	163.87	
			<i>For Owner Furnished Material, Deduct</i>	-13,493.62	
22 11 19 00-0402	EA		6" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)....	20,684.70	595.03
			<i>For Work In Restricted Working Space, Add</i>	322.47	
			<i>For Owner Furnished Material, Deduct</i>	-19,609.81	
22 11 19 00-0403	EA		8" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	34,406.25	892.55
			<i>For Work In Restricted Working Space, Add</i>	483.71	
			<i>For Owner Furnished Material, Deduct</i>	-32,793.90	
22 11 19 00-0404	EA		10" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	45,351.46	1,055.70
			<i>For Work In Restricted Working Space, Add</i>	575.84	
			<i>For Owner Furnished Material, Deduct</i>	-43,432.00	
22 11 19 00-0405			Double Check Detector Assemblies <small>(22 11 19 00-0235)</small>		
22 11 19 00-0406			Flanged Double Check Detector Assemblies With Meter <small>(22 11 19 00-0405)</small>		
22 11 19 00-0407			Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter <small>(22 11 19 00-0406)</small>		
			Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, two epoxy coated iron body check valves, and meter (Watts 709 DCDA OSY series).		
22 11 19 00-0408	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	7,361.42	276.68
			<i>For Work In Restricted Working Space, Add</i>	109.13	
			<i>For Owner Furnished Material, Deduct</i>	-6,997.64	
22 11 19 00-0409	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	7,706.18	409.89
			<i>For Work In Restricted Working Space, Add</i>	163.85	
			<i>For Owner Furnished Material, Deduct</i>	-7,160.00	
22 11 19 00-0410	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	10,372.40	595.03
			<i>For Work In Restricted Working Space, Add</i>	322.47	
			<i>For Owner Furnished Material, Deduct</i>	-9,297.51	
22 11 19 00-0411	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	18,418.14	892.55
			<i>For Work In Restricted Working Space, Add</i>	483.71	
			<i>For Owner Furnished Material, Deduct</i>	-16,805.79	
22 11 19 00-0412	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	24,887.30	1,055.70
			<i>For Work In Restricted Working Space, Add</i>	575.84	
			<i>For Owner Furnished Material, Deduct</i>	-22,967.84	
22 11 19 00-0413			Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter <small>(22 11 19 00-0406)</small>		
			Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA OSY series).		
22 11 19 00-0414	EA		2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	5,512.00	245.93
			<i>For Work In Restricted Working Space, Add</i>	98.37	
			<i>For Owner Furnished Material, Deduct</i>	-5,184.09	
22 11 19 00-0415	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	5,886.26	276.68
			<i>For Work In Restricted Working Space, Add</i>	109.13	
			<i>For Owner Furnished Material, Deduct</i>	-5,522.48	
22 11 19 00-0416	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	6,415.40	409.89
			<i>For Work In Restricted Working Space, Add</i>	163.85	
			<i>For Owner Furnished Material, Deduct</i>	-5,869.22	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0417	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	8,696.01	595.03
			<i>For Work In Restricted Working Space, Add</i>	322.47	
			<i>For Owner Furnished Material, Deduct</i>	-7,621.12	
22 11 19 00-0418	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	15,388.21	892.55
			<i>For Work In Restricted Working Space, Add</i>	483.71	
			<i>For Owner Furnished Material, Deduct</i>	-13,775.86	
22 11 19 00-0419	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	18,145.58	1,055.70
			<i>For Work In Restricted Working Space, Add</i>	575.84	
			<i>For Owner Furnished Material, Deduct</i>	-16,226.12	
22 11 19 00-0420			Double Check Detector Assembly With Butterfly Valves And Meter <small>(22 11 19 00-0406)</small>		
			Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA BFG series).		
22 11 19 00-0421	EA		2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	5,838.20	245.93
			<i>For Work In Restricted Working Space, Add</i>	98.37	
			<i>For Owner Furnished Material, Deduct</i>	-5,510.29	
22 11 19 00-0422	EA		3" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	6,212.45	276.68
			<i>For Work In Restricted Working Space, Add</i>	109.13	
			<i>For Owner Furnished Material, Deduct</i>	-5,848.67	
22 11 19 00-0423	EA		4" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	6,741.53	409.89
			<i>For Work In Restricted Working Space, Add</i>	163.85	
			<i>For Owner Furnished Material, Deduct</i>	-6,195.35	
22 11 19 00-0424	EA		6" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	9,030.36	595.03
			<i>For Work In Restricted Working Space, Add</i>	322.47	
			<i>For Owner Furnished Material, Deduct</i>	-7,955.47	
22 11 19 00-0425	EA		8" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	14,987.06	892.55
			<i>For Work In Restricted Working Space, Add</i>	483.71	
			<i>For Owner Furnished Material, Deduct</i>	-13,374.71	
22 11 19 00-0426			Flanged Double Check Detector Assemblies Without Meter <small>(22 11 19 00-0405)</small>		
22 11 19 00-0427			Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs Less Meter <small>(22 11 19 00-0426)</small>		
			Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA OSY LM series).		
22 11 19 00-0428	EA		2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	5,409.01	245.93
			<i>For Work In Restricted Working Space, Add</i>	98.37	
22 11 19 00-0429	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	5,783.31	276.68
			<i>For Work In Restricted Working Space, Add</i>	109.13	
22 11 19 00-0430	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	6,312.45	409.89
			<i>For Work In Restricted Working Space, Add</i>	163.85	
22 11 19 00-0431	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	8,593.06	595.03
			<i>For Work In Restricted Working Space, Add</i>	322.47	
22 11 19 00-0432	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	15,285.33	892.55
			<i>For Work In Restricted Working Space, Add</i>	483.71	
22 11 19 00-0433	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	18,042.56	1,055.70
			<i>For Work In Restricted Working Space, Add</i>	575.84	
22 11 19 00-0434			Double Check Detector Assembly With Butterfly Valves Less Meter <small>(22 11 19 00-0426)</small>		
			Note: Includes ball type test cocks, two butterfly resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA BFG LM series).		
22 11 19 00-0435	EA		2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	5,735.18	245.93
			<i>For Work In Restricted Working Space, Add</i>	98.37	
22 11 19 00-0436	EA		3" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	6,109.43	276.68
			<i>For Work In Restricted Working Space, Add</i>	109.13	
22 11 19 00-0437	EA		4" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	6,638.58	409.89
			<i>For Work In Restricted Working Space, Add</i>	163.85	
22 11 19 00-0438	EA		6" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	8,927.34	595.03
			<i>For Work In Restricted Working Space, Add</i>	322.47	
22 11 19 00-0439	EA		8" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	15,619.67	892.55
			<i>For Work In Restricted Working Space, Add</i>	483.71	
22 11 19 00-0440			Backflow Preventer Accessories <small>(22 11 19 00-0235)</small>		
22 11 19 00-0441			Air Gap <small>(22 11 19 00-0440)</small>		
22 11 19 00-0442	EA		Up To 1" Diameter Air Gap For Backflow Preventer.....	122.40	13.91
22 11 19 00-0443	EA		1-1/4" To 2" Diameter Air Gap For Backflow Preventer.....	150.64	16.69
22 11 19 00-0444	EA		2-1/2" To 3" Diameter Air Gap For Backflow Preventer.....	283.20	22.26
22 11 19 00-0445	EA		4" To 6" Diameter Air Gap For Backflow Preventer.....	560.35	38.95
22 11 19 00-0446	EA		8" To 10" Diameter Air Gap For Backflow Preventer.....	593.73	55.64

22 Plumbing
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0447			Brass Test Cocks (22 11 19 00-0440)		
22 11 19 00-0448	EA		1/8" Or 1/4" Brass Test Cock.....	49.83	5.56
22 11 19 00-0449			Backflow Valve Enclosures (22 11 19 00-0235)		
22 11 19 00-0450			Flip-Top, Insulated Fiberglass Valve Enclosures (22 11 19 00-0449) Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0451	EA		19" Length x 11" Width x 22" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,208.14	100.14
			<i>For Heated Enclosure, Add</i>	156.18	
22 11 19 00-0452	EA		27" Length x 13" Width x 23" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,499.48	100.14
			<i>For Heated Enclosure, Add</i>	199.89	
22 11 19 00-0453	EA		27" Length x 13" Width x 35" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,922.03	92.22
			<i>For Heated Enclosure, Add</i>	265.25	
22 11 19 00-0454	EA		33" Length x 21" Width x 25" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,980.86	122.97
			<i>For Heated Enclosure, Add</i>	266.39	
22 11 19 00-0455	EA		39" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	2,079.66	122.97
			<i>For Heated Enclosure, Add</i>	281.21	
22 11 19 00-0456	EA		47" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	2,464.74	122.97
			<i>For Heated Enclosure, Add</i>	338.97	
22 11 19 00-0457	EA		39" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	2,474.88	122.97
			<i>For Heated Enclosure, Add</i>	340.49	
22 11 19 00-0458	EA		47" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	3,131.03	122.97
			<i>For Heated Enclosure, Add</i>	438.91	
22 11 19 00-0459	EA		70" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	7,271.76	184.45
			<i>For Heated Enclosure, Add</i>	1,044.65	
22 11 19 00-0460	EA		83" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	10,582.93	184.45
			<i>For Heated Enclosure, Add</i>	1,541.33	
22 11 19 00-0461	EA		70" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	10,050.91	184.45
			<i>For Heated Enclosure, Add</i>	1,461.52	
22 11 19 00-0462	EA		83" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	12,106.07	215.19
			<i>For Heated Enclosure, Add</i>	1,762.11	
22 11 19 00-0463			One-Piece Drop Over, Insulated Fiberglass Valve Enclosures (22 11 19 00-0449) Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0464	EA		20" Length x 6-1/2" Width x 22" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	677.86	26.71
			<i>For Heated Enclosure, Add</i>	126.67	
22 11 19 00-0465	EA		27" Length x 14" Width x 26" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	946.40	26.71
			<i>For Heated Enclosure, Add</i>	180.38	
22 11 19 00-0466	EA		38-1/2" Length x 12" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	1,191.16	24.60
			<i>For Heated Enclosure, Add</i>	230.03	
22 11 19 00-0467	EA		47" Length x 13" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	1,804.24	24.60
			<i>For Heated Enclosure, Add</i>	352.65	
22 11 19 00-0468	EA		70" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	4,677.53	46.11
			<i>For Heated Enclosure, Add</i>	920.13	
22 11 19 00-0469	EA		83" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	6,392.65	46.11
			<i>For Heated Enclosure, Add</i>	1,263.16	
22 11 19 00-0470	EA		45" Length x 35" Width x 35" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	4,251.92	46.11
			<i>For Heated Enclosure, Add</i>	835.01	
22 11 19 00-0471	EA		53" Length x 44" Width x 44" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	4,814.34	46.11
			<i>For Heated Enclosure, Add</i>	947.50	
22 11 19 00-0472	EA		61" Length x 52" Width x 50" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	7,542.82	46.11
			<i>For Heated Enclosure, Add</i>	1,493.19	
22 11 19 00-0473			Sectional, Insulated Aluminum Valve Enclosures (22 11 19 00-0449) Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0474	EA		70" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure	9,484.51	200.30
			<i>For Heated Enclosure, Add</i>	1,372.60	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0475	EA		83" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure	10,464.94	200.30
			<i>For Heated Enclosure, Add</i>	1,519.67	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0476	EA		53" Length x 33" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure	7,390.83	184.45
			<i>For Heated Enclosure, Add</i>	1,062.51	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0477	EA		53" Length x 44" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure	8,115.39	184.45
			<i>For Heated Enclosure, Add</i>	1,171.20	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0478	EA		90" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure	9,426.30	245.93
			<i>For Heated Enclosure, Add</i>	1,352.46	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0479	EA		102" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure	10,586.60	245.93
			<i>For Heated Enclosure, Add</i>	1,526.51	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0480	EA			90" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	10,586.60	245.93
				<i>For Heated Enclosure, Add</i>	1,526.51	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0481	EA			102" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	11,711.43	245.93
				<i>For Heated Enclosure, Add</i>	1,695.23	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0482	EA			62" Length x 39" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure.....	8,777.17	215.19
				<i>For Heated Enclosure, Add</i>	1,262.78	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0483	EA			62" Length x 53" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure.....	10,280.06	245.93
				<i>For Heated Enclosure, Add</i>	1,480.53	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0484	EA			105" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure.....	12,035.71	245.93
				<i>For Heated Enclosure, Add</i>	1,743.87	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0485	EA			125" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure.....	13,216.56	261.30
				<i>For Heated Enclosure, Add</i>	1,917.16	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0486	EA			105" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure.....	13,545.32	283.75
				<i>For Heated Enclosure, Add</i>	1,960.86	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0487	EA			125" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure.....	15,022.24	300.44
				<i>For Heated Enclosure, Add</i>	2,178.23	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0488	EA			105" Length x 36" Width x 80" Height, Sectional, Insulated Aluminum Valve Enclosure.....	15,562.78	276.68
				<i>For Heated Enclosure, Add</i>	2,265.25	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0489	EA			72" Length x 45" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure.....	11,275.69	245.93
				<i>For Heated Enclosure, Add</i>	1,629.87	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0490	EA			72" Length x 45" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure.....	12,028.11	245.93
				<i>For Heated Enclosure, Add</i>	1,742.73	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0491	EA			72" Length x 65" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure.....	13,619.38	261.30
				<i>For Heated Enclosure, Add</i>	1,977.58	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0492	EA			72" Length x 65" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure.....	16,528.01	276.68
				<i>For Heated Enclosure, Add</i>	2,410.03	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0493	EA			118" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure.....	14,402.48	122.97
				<i>For Heated Enclosure, Add</i>	2,091.20	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0494	EA			142" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure.....	17,328.86	122.97
				<i>For Heated Enclosure, Add</i>	2,526.32	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0495	EA			118" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure.....	16,748.71	184.45
				<i>For Heated Enclosure, Add</i>	2,439.29	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0496	EA			142" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure.....	19,442.29	184.45
				<i>For Heated Enclosure, Add</i>	2,835.65	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0497	EA			142" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure.....	17,934.62	184.45
				<i>For Heated Enclosure, Add</i>	2,613.34	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0498	EA			172" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure.....	20,972.75	215.19
				<i>For Heated Enclosure, Add</i>	3,061.37	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0499	EA			142" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure.....	21,023.98	184.45
				<i>For Heated Enclosure, Add</i>	3,061.37	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	
22 11 19 00-0500	EA			172" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure.....	24,964.01	184.45
				<i>For Heated Enclosure, Add</i>	3,644.69	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	765.84	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,370.45	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0501			Faucets (Hose Bibbs) ^(22 11 19)		
22 11 19 00-0502			Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends ^(22 11 19 00-0501)		
22 11 19 00-0503	EA		1/2", 125 LB Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends	59.54	11.13
22 11 19 00-0504	EA		3/4", 125 LB Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends	68.89	12.24
22 11 19 00-0505	EA		3/4" Screwed Ends Vacuum Breaker (Mueller 108-904NL)	17.17	8.35
22 11 19 00-0506			Chrome Plated Brass Hose Valves, Screwed Ends ^(22 11 19 00-0501)		
22 11 19 00-0507	EA		3/4" Hose Valve With Screwed Ends (Chicago Faucets #387-CP)	211.47	34.05
22 11 19 00-0508			Antisiphon Freezeless Wall Faucet (Woodford 19CP) ^(22 11 19 00-0501)		
22 11 19 00-0509	EA		4" Long, 1/2" Antisiphon Freezeless Wall Faucet	131.97	27.82
22 11 19 00-0510	EA		6" Long, 1/2" Antisiphon Freezeless Wall Faucet	143.08	30.82
22 11 19 00-0511	EA		8" Long, 1/2" Antisiphon Freezeless Wall Faucet	151.40	32.60
22 11 19 00-0512	EA		10" Long, 1/2" Antisiphon Freezeless Wall Faucet	159.71	34.94
22 11 19 00-0513	EA		12" Long, 1/2" Antisiphon Freezeless Wall Faucet	168.13	37.05
22 11 19 00-0514			Keyed, Recessed Valve Boxes ^(22 11 19)		
22 11 19 00-0515	EA		8" x 8" x 4" Painted Steel, Keyed, Recessed Valve Box	298.40	33.20
22 11 19 00-0516	EA		8" x 8" x 6" Painted Steel, Keyed, Recessed Valve Box	331.54	33.20
22 11 19 00-0517	EA		8" x 8" x 8" Painted Steel, Keyed, Recessed Valve Box	381.26	33.20
22 11 19 00-0518	EA		12" x 12" x 4" Painted Steel, Keyed, Recessed Valve Box	370.24	44.26
22 11 19 00-0519	EA		12" x 12" x 6" Painted Steel, Keyed, Recessed Valve Box	419.96	44.26
22 11 19 00-0520	EA		12" x 12" x 8" Painted Steel, Keyed, Recessed Valve Box	434.88	44.26
22 11 19 00-0521	EA		8" x 8" x 4" Stainless Steel, Keyed, Recessed Valve Box	351.43	33.20
22 11 19 00-0522	EA		8" x 8" x 6" Stainless Steel, Keyed, Recessed Valve Box	424.35	33.20
22 11 19 00-0523	EA		8" x 8" x 8" Stainless Steel, Keyed, Recessed Valve Box	488.98	33.20
22 11 19 00-0524	EA		12" x 12" x 4" Stainless Steel, Keyed, Recessed Valve Box	463.05	44.26
22 11 19 00-0525	EA		12" x 12" x 6" Stainless Steel, Keyed, Recessed Valve Box	527.69	44.26
22 11 19 00-0526	EA		12" x 12" x 8" Stainless Steel, Keyed, Recessed Valve Box	552.55	44.26
22 11 23			Domestic Water Pumps ^(22 11)		
22 11 23 13			Domestic Water Packaged Booster Pumps ^(22 11 23)		
			Note: Includes motor starter and controls.		
22 11 23 13-0001			Simplex Domestic Water Packaged Booster Pumps And Tank ^(22 11 23 13)		
22 11 23 13-0002	EA		1 HP Simplex Domestic Water Packaged Booster Pump And Tank	11,775.57	327.91
22 11 23 13-0003	EA		1.5 HP Simplex Domestic Water Packaged Booster Pump And Tank	12,224.64	440.64
22 11 23 13-0004	EA		2 HP Simplex Domestic Water Packaged Booster Pump And Tank	12,757.33	553.35
22 11 23 13-0005	EA		3 HP Simplex Domestic Water Packaged Booster Pump And Tank	13,248.21	666.07
22 11 23 13-0006	EA		5 HP Simplex Domestic Water Packaged Booster Pump And Tank	14,659.04	778.79
22 11 23 13-0007	EA		7.5 HP Simplex Domestic Water Packaged Booster Pump And Tank	16,278.96	891.51
22 11 23 13-0008	EA		10 HP Simplex Domestic Water Packaged Booster Pump And Tank	17,397.08	1,004.23
22 11 23 13-0009			Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator ^(22 11 23 13)		
22 11 23 13-0010	EA		100 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator	31,633.49	1,329.20
22 11 23 13-0011	EA		200 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator	38,132.38	1,412.27
22 11 23 13-0012	EA		300 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator	44,657.96	1,495.36
22 11 23 13-0013			Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator ^(22 11 23 13)		
22 11 23 13-0014	EA		200 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	41,697.20	1,412.27
22 11 23 13-0015	EA		300 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	51,958.51	1,495.36
22 11 23 13-0016	EA		500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	64,613.41	1,661.50
22 11 23 13-0017	EA		750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	81,903.12	1,827.65
22 11 23 13-0018	EA		1,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	99,192.82	1,993.81
22 11 23 13-0019	EA		1,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	115,570.58	2,243.03
22 11 23 13-0020	EA		2,500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	131,948.35	2,492.25
22 11 23 13-0021	EA		3,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	148,326.11	2,741.48
22 11 23 13-0022	EA		5,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	164,911.57	3,073.78
22 11 23 23			Domestic-Water In-Line Pumps ^(22 11 23)		
22 11 23 23-0001			Bronze In-Line Centrifugal Domestic Water Booster Pumps ^(22 11 23 23)		
			Note: ODP motor.		
22 11 23 23-0002	EA		1/12 HP, 3/4" To 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL30B)	1,131.09	184.45
22 11 23 23-0003	EA		1/6 HP, 3/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL36B)	1,163.15	184.45
22 11 23 23-0004	EA		1/6 HP, 1" To 1-1/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL45B)	1,219.20	188.03
22 11 23 23-0005	EA		1/6 HP, 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL50B)	1,348.04	195.72
22 11 23 23-0006	EA		1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL75B)	2,473.27	203.01
22 11 23 23-0007	EA		1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2AB)	2,643.52	203.01
22 11 23 23-0008	EA		1/4 HP, 2-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2AB)	3,981.70	223.52
22 11 23 23-0009	EA		1/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G LD3 AB)	4,147.33	245.56



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 23 23-0010 EA 1/3 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G HD3 AB)	5,031.63	270.17
22 11 23 23-0011 EA 1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB35S).....	5,134.53	297.34
22 11 23 23-0012 EA 3/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB37S).....	5,614.57	326.56
22 11 23 23-0013 EA 1 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB38S).....	8,087.92	359.37
22 11 23 23-0014 EA 1-1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB40S)	9,331.17	376.80
22 11 23 23-0015 Cast Iron In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)		
Note: ODP motor.		
22 11 23 23-0016 EA 1/12 HP, 3/4" To 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL30)	1,181.00	184.45
22 11 23 23-0017 EA 1/6 HP, 3/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL36).....	2,023.66	184.45
22 11 23 23-0018 EA 1/6 HP, 1" To 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45)	2,031.07	188.03
22 11 23 23-0019 EA 1/6 HP, 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45).....	2,065.89	192.13
22 11 23 23-0020 EA 1/6 HP, 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL50).....	2,073.04	195.72
22 11 23 23-0021 EA 1/6 HP, 2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL75).....	2,110.77	203.01
22 11 23 23-0022 EA 1/4 HP, 2-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2)	2,589.61	223.52
22 11 23 23-0023 EA 1/3 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G HD30).....	3,348.13	270.17
22 11 23 23-0024 EA 1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD35S).....	3,522.53	297.34
22 11 23 23-0025 EA 3/4 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD37S).....	4,119.74	326.56
22 11 23 23-0026 EA 1 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD38S).....	5,591.50	359.37
22 11 23 23-0027 EA 1-1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD40S).....	6,553.93	376.80
22 11 23 23-0028 EA 2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	5,861.51	395.77
22 11 23 23-0029 EA 3 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	6,297.18	435.04
22 11 23 23-0030 EA 5 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	6,918.25	461.38
22 11 23 23-0031 EA 7-1/2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	8,801.13	512.65
22 11 23 23-0032 EA 10 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	9,307.51	615.28
22 11 23 23-0033 EA 15 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	11,898.74	718.02
22 12 Facility Potable-Water Storage Tanks (22 10)		
22 12 19 Facility Ground-Mounted, Potable-Water Storage Tanks (22 12)		
22 12 19 00-0001 Steel, Horizontal, Ground-Mounted Water Tanks (22 12 19)		
22 12 19 00-0002 EA 5,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	37,611.60	9,030.72
22 12 19 00-0003 EA 10,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	42,591.37	9,030.72
22 12 19 00-0004 EA 20,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	76,563.58	13,936.32
22 12 19 00-0005 EA 35,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	98,830.97	18,061.43
22 12 19 00-0006 Galvanized Steel, Flat Bottom, Vertical Storage Tanks (22 12 19)		
22 12 19 00-0007 EA 5,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	44,989.03	9,030.72
22 12 19 00-0008 EA 10,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	62,325.97	9,030.72
22 12 19 00-0009 EA 20,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	92,957.89	13,936.32
22 12 19 00-0010 EA 35,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	133,517.23	18,061.43
22 12 23 Facility Indoor Potable-Water Storage Tanks (22 12)		
22 12 23 13 Facility Steel, Indoor Potable-Water Storage Pressure Tanks (22 12 23)		
22 12 23 13-0001 Insulated Glass Lined Storage Tank (A.O. Smith TJ, TJV And TJH) (22 12 23 13)		
22 12 23 13-0002 EA 80 Gallon ASME Rated Tank, 150PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJ-80A).....	2,575.48	409.89
22 12 23 13-0003 EA 119 Gallon 150 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-120M).....	3,189.66	512.36
22 12 23 13-0004 EA 140 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-140A).....	5,970.28	563.60
22 12 23 13-0005 EA 200 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-200A).....	6,604.31	614.83
22 12 23 13-0006 EA 250 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-250A).....	13,239.66	666.07
22 12 23 13-0007 EA 350 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-350A).....	11,376.99	717.30
22 12 23 13-0008 EA 400 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-400A).....	19,630.36	768.54
22 12 23 13-0009 EA 500 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-500A).....	18,065.76	819.78
22 12 23 13-0010 EA 750 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-750A).....	19,630.01	871.01
22 12 23 13-0011 EA 1,000 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-1000A).....	23,414.05	922.25
22 12 23 13-0012 Uninsulated Glass Lined Storage Tank (A.O. Smith T) (22 12 23 13)		
22 12 23 13-0013 EA 80 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-80S).....	2,191.14	409.89
22 12 23 13-0014 EA 120 Gallon 150 PSA, Uninsulated, Glass Lined Water Storage Tank (T-120S).....	4,272.17	512.36
22 12 23 13-0015 EA 140 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-140A)	5,359.03	563.60
22 12 23 13-0016 EA 200 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200S).....	6,642.14	614.83
22 12 23 13-0017 EA 200 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200A)	5,620.91	614.83
22 12 23 13-0018 EA 250 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-250A)	8,754.98	666.07
22 12 23 13-0019 EA 325 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-325A)	9,476.03	717.30
22 12 23 13-0020 EA 350 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350S).....	9,012.10	717.30
22 12 23 13-0021 EA 350 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350A)	8,209.57	717.30

22 Plumbing
22 10 Plumbing Piping
22 12 Facility Potable-Water Storage Tanks



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 12 23 13-0022	EA		400 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-400A)	11,279.58	768.54
22 12 23 13-0023	EA		500 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-500A)	12,239.27	819.78
22 12 23 13-0024	EA		750 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-750A)	14,227.32	871.01
22 12 23 13-0025	EA		1,000 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-1000A)	26,850.37	922.25

22 12 23 26 Facility Plastic, Indoor Potable-Water Storage Non-Pressure Tanks (22 12 23)

22 12 23 26-0001 Horizontal Non-Pressurized Polyethylene Tanks (22 12 23 26)

Note: Excludes excavation and backfill.

22 12 23 26-0002	EA		100 Gallon Horizontal Non-Pressurized Polyethylene Tank	681.53	230.57
			<i>For Saddle Assembly, Add</i>	761.76	
22 12 23 26-0003	EA		150 Gallon Horizontal Non-Pressurized Polyethylene Tank	798.40	268.99
			<i>For Saddle Assembly, Add</i>	761.76	
22 12 23 26-0004	EA		200 Gallon Horizontal Non-Pressurized Polyethylene Tank	948.09	307.42
			<i>For Saddle Assembly, Add</i>	873.34	
22 12 23 26-0005	EA		300 Gallon Horizontal Non-Pressurized Polyethylene Tank	1,156.85	345.84
			<i>For Saddle Assembly, Add</i>	1,308.74	
22 12 23 26-0006	EA		335 Gallon Horizontal Non-Pressurized Polyethylene Tank	1,389.69	384.28
			<i>For Two Tie Down Bands, Add</i>	436.33	
22 12 23 26-0007	EA		535 Gallon Horizontal Non-Pressurized Polyethylene Tank	1,796.77	525.64
			<i>For Two Tie Down Bands, Add</i>	466.96	
22 12 23 26-0008	EA		1,035 Gallon Horizontal Non-Pressurized Polyethylene Tank	2,695.25	613.24
			<i>For Three Tie Down Bands, Add</i>	798.91	
22 12 23 26-0009	EA		1,335 Gallon Horizontal Non-Pressurized Polyethylene Tank	3,899.04	700.85
			<i>For Three Tie Down Bands, Add</i>	805.48	
22 12 23 26-0010	EA		1,635 Gallon Horizontal Non-Pressurized Polyethylene Tank	4,871.32	788.45
			<i>For Four Tie Down Bands, Add</i>	1,091.47	
22 12 23 26-0011	EA		2,035 Gallon Horizontal Non-Pressurized Polyethylene Tank	5,708.94	876.06
			<i>For Four Tie Down Bands, Add</i>	1,537.80	
22 12 23 26-0012	EA		2,635 Gallon Horizontal Non-Pressurized Polyethylene Tank	8,176.74	963.66
			<i>For Four Tie Down Bands, Add</i>	2,027.89	
22 12 23 26-0013	EA		3,135 Gallon Horizontal Non-Pressurized Polyethylene Tank	9,475.02	1,051.27
			<i>For Four Tie Down Bands, Add</i>	2,194.17	
22 12 23 26-0014	EA		4,035 Gallon Horizontal Non-Pressurized Polyethylene Tank	13,615.93	1,401.69
			<i>For Four Tie Down Bands, Add</i>	2,482.97	
22 12 23 26-0015	EA		5,025 Gallon Horizontal Non-Pressurized Polyethylene Tank	17,637.09	1,401.69
			<i>For Five Tie Down Bands, Add</i>	3,902.30	

22 12 23 26-0016 Vertical Non-Pressurized Polyethylene Tanks (22 12 23 26)

22 12 23 26-0017	EA		100 Gallon Vertical Non-Pressurized Polyethylene Tank	740.24	307.42
22 12 23 26-0018	EA		160 Gallon Vertical Non-Pressurized Polyethylene Tank	894.95	326.63
22 12 23 26-0019	EA		210 Gallon Vertical Non-Pressurized Polyethylene Tank	984.01	345.84
22 12 23 26-0020	EA		300 Gallon Vertical Non-Pressurized Polyethylene Tank	1,194.96	384.28
22 12 23 26-0021	EA		405 Gallon Vertical Non-Pressurized Polyethylene Tank	1,360.88	461.12
22 12 23 26-0022	EA		500 Gallon Vertical Non-Pressurized Polyethylene Tank	1,607.75	537.98
22 12 23 26-0023	EA		800 Gallon Vertical Non-Pressurized Polyethylene Tank	2,255.93	700.85
22 12 23 26-0024	EA		1,000 Gallon Vertical Non-Pressurized Polyethylene Tank	2,922.74	876.06
22 12 23 26-0025	EA		2,000 Gallon Vertical Non-Pressurized Polyethylene Tank	3,935.26	1,051.27
22 12 23 26-0026	EA		3,000 Gallon Vertical Non-Pressurized Polyethylene Tank	5,153.43	1,226.48
22 12 23 26-0027	EA		4,000 Gallon Vertical Non-Pressurized Polyethylene Tank	7,603.38	1,401.69
22 12 23 26-0028	EA		5,000 Gallon Vertical Non-Pressurized Polyethylene Tank	10,311.51	1,576.90
22 12 23 26-0029	EA		6,250 Gallon Vertical Non-Pressurized Polyethylene Tank	11,691.59	1,752.11
22 12 23 26-0030	EA		7,000 Gallon Vertical Non-Pressurized Polyethylene Tank	12,883.51	1,927.32
22 12 23 26-0031	EA		8,000 Gallon Vertical Non-Pressurized Polyethylene Tank	14,849.94	2,102.53
22 12 23 26-0032	EA		9,150 Gallon Vertical Non-Pressurized Polyethylene Tank	16,779.17	2,277.74
22 12 23 26-0033	EA		10,500 Gallon Vertical Non-Pressurized Polyethylene Tank	20,786.92	2,452.95
22 12 23 26-0034	EA		12,500 Gallon Vertical Non-Pressurized Polyethylene Tank	25,017.33	2,803.38

22 13 Facility Sanitary Sewerage (22 10)

22 13 16 Sanitary Waste and Vent Piping (22 13)

22 13 16 00-0001 Cast Iron Soil Pipe Assemblies (22 13 16)

22 13 16 00-0002 Underground Bell And Spigot Cast Iron Soil Pipe Assemblies (22 13 16 00-0001)

Note: Includes fittings and gaskets. Fittings are assumed every 10'. Excludes excavation, backfill and compaction. Not for use where detail is available.

22 13 16 00-0003	LF		2" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	39.84	6.46
			Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	4.74	
22 13 16 00-0004	LF		3" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	57.43	9.73
			Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	6.42	
22 13 16 00-0005	LF		4" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	74.62	12.39
			Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	8.26	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 13 16 00-0006	LF		5" Underground Bell And Spigot Cast Iron Soil Pipe Assembly Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	88.77	14.97
				<i>For Work In Restricted Working Space, Add</i>	8.42	
	22 13 16 00-0007	LF		6" Underground Bell And Spigot Cast Iron Soil Pipe Assembly Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	105.09	16.31
				<i>For Work In Restricted Working Space, Add</i>	9.36	
	22 13 16 00-0008	LF		8" Underground Bell And Spigot Cast Iron Soil Pipe Assembly Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	169.50	23.27
				<i>For Work In Restricted Working Space, Add</i>	13.18	
	22 13 16 00-0009	LF		10" Underground Bell And Spigot Cast Iron Soil Pipe Assembly Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	255.70	23.27
				<i>For Work In Restricted Working Space, Add</i>	14.92	
	22 13 16 00-0010			Aboveground No Hub Cast Iron Soil Pipe Assemblies <small>(22 13 16 00-0001)</small> Note: Includes fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
	22 13 16 00-0011	LF		1-1/2" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	31.26	6.15
				<i>For Work In Restricted Working Space, Add</i>	5.40	
	22 13 16 00-0012	LF		2" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	33.11	6.56
				<i>For Work In Restricted Working Space, Add</i>	5.80	
	22 13 16 00-0013	LF		3" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	42.38	9.53
				<i>For Work In Restricted Working Space, Add</i>	7.11	
	22 13 16 00-0014	LF		4" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	50.92	12.39
				<i>For Work In Restricted Working Space, Add</i>	8.51	
	22 13 16 00-0015	LF		5" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	67.50	14.69
				<i>For Work In Restricted Working Space, Add</i>	9.97	
	22 13 16 00-0016	LF		6" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	76.70	16.03
				<i>For Work In Restricted Working Space, Add</i>	10.86	
	22 13 16 00-0017	LF		8" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	121.16	23.08
				<i>For Work In Restricted Working Space, Add</i>	15.02	
	22 13 16 00-0018	LF		10" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 20'. Not for use where detail is available.	172.46	26.22
				<i>For Work In Restricted Working Space, Add</i>	17.46	
	22 13 16 00-0019			Bell And Spigot Cast Iron Soil Pipe And Fittings <small>(22 13 16)</small> Note: Service weight. ASTM A74 and CISPI 301 (Fitting Requirements).		
	22 13 16 00-0020			Bell And Spigot Cast Iron Pipe <small>(22 13 16 00-0019)</small> Note: Excludes excavation, hangers, gaskets, and fittings.		
	22 13 16 00-0021	LF		2" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	29.01 8.09 0.49 2.93	6.46
	22 13 16 00-0022	LF		3" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	42.24 11.59 0.73 4.39	9.73
	22 13 16 00-0023	LF		4" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	54.52 15.07 0.93 5.59	12.39
	22 13 16 00-0024	LF		5" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	73.05 21.27 1.12 6.72	14.97
	22 13 16 00-0025	LF		6" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	86.11 25.91 1.22 7.33	16.31
	22 13 16 00-0026	LF		8" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	130.84 40.29 1.75 10.47	23.27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0027 LF 10" Bell And Spigot Cast Iron Pipe	198.99	26.22
For Extra Heavy Pipe, Add	67.08	
For Above Ground Cast Iron Pipe Installation, Add	1.96	
For Work In Restricted Working Space, Add	11.78	
22 13 16 00-0028 LF 12" Bell And Spigot Cast Iron Pipe	284.38	34.96
For Extra Heavy Pipe, Add	97.44	
For Above Ground Cast Iron Pipe Installation, Add	2.62	
For Work In Restricted Working Space, Add	15.71	
22 13 16 00-0029 LF 15" Bell And Spigot Cast Iron Pipe	401.94	41.93
For Extra Heavy Pipe, Add	142.42	
For Above Ground Cast Iron Pipe Installation, Add	3.14	
For Work In Restricted Working Space, Add	18.86	
22 13 16 00-0030 Bell And Spigot Cast Iron Fittings (22 13 16 00-0019)		
22 13 16 00-0031 Bell And Spigot Cast Iron Long Sweeps (22 13 16 00-0030)		
22 13 16 00-0032 EA 2" Bell And Spigot Cast Iron Long Sweep	105.52	29.41
For Extra Heavy Fittings, Add	21.51	
For Above Ground Cast Iron Pipe Installation, Add	2.20	
For Work In Restricted Working Space, Add	13.22	
22 13 16 00-0033 EA 3" Bell And Spigot Cast Iron Long Sweep	180.06	36.99
For Extra Heavy Fittings, Add	43.63	
For Above Ground Cast Iron Pipe Installation, Add	2.77	
For Work In Restricted Working Space, Add	16.62	
22 13 16 00-0034 EA 4" Bell And Spigot Cast Iron Long Sweep	239.89	49.18
For Extra Heavy Fittings, Add	58.16	
For Above Ground Cast Iron Pipe Installation, Add	3.69	
For Work In Restricted Working Space, Add	22.12	
22 13 16 00-0035 EA 6" Bell And Spigot Cast Iron Long Sweep	374.73	63.34
For Extra Heavy Fittings, Add	97.93	
For Above Ground Cast Iron Pipe Installation, Add	4.75	
For Work In Restricted Working Space, Add	28.48	
22 13 16 00-0036 EA 8" Bell And Spigot Cast Iron Long Sweep	746.78	81.90
For Extra Heavy Fittings, Add	218.41	
For Above Ground Cast Iron Pipe Installation, Add	6.14	
For Work In Restricted Working Space, Add	36.83	
22 13 16 00-0037 EA 10" Bell And Spigot Cast Iron Long Sweep	1,022.67	100.75
For Extra Heavy Fittings, Add	305.06	
For Above Ground Cast Iron Pipe Installation, Add	7.55	
For Work In Restricted Working Space, Add	45.32	
22 13 16 00-0038 EA 12" Bell And Spigot Cast Iron Long Sweep	1,569.74	140.63
For Extra Heavy Fittings, Add	475.61	
For Above Ground Cast Iron Pipe Installation, Add	10.54	
For Work In Restricted Working Space, Add	63.26	
22 13 16 00-0039 EA 15" Bell And Spigot Cast Iron Long Sweep	2,921.80	195.82
For Extra Heavy Fittings, Add	919.88	
For Above Ground Cast Iron Pipe Installation, Add	14.68	
For Work In Restricted Working Space, Add	88.07	
22 13 16 00-0040 Bell And Spigot Cast Iron Short Sweeps (22 13 16 00-0030)		
22 13 16 00-0041 EA 2" Bell And Spigot Cast Iron Short Sweep	89.29	29.41
For Extra Heavy Fittings, Add	15.83	
For Above Ground Cast Iron Pipe Installation, Add	2.20	
For Work In Restricted Working Space, Add	13.22	
22 13 16 00-0042 EA 3" Bell And Spigot Cast Iron Short Sweep	152.84	36.99
For Extra Heavy Fittings, Add	34.11	
For Above Ground Cast Iron Pipe Installation, Add	2.77	
For Work In Restricted Working Space, Add	16.62	
22 13 16 00-0043 EA 4" Bell And Spigot Cast Iron Short Sweep	209.28	49.18
For Extra Heavy Fittings, Add	47.45	
For Above Ground Cast Iron Pipe Installation, Add	3.69	
For Work In Restricted Working Space, Add	22.12	
22 13 16 00-0044 EA 5" Bell And Spigot Cast Iron Short Sweep	315.09	53.84
For Extra Heavy Fittings, Add	82.04	
For Above Ground Cast Iron Pipe Installation, Add	4.03	
For Work In Restricted Working Space, Add	24.21	
22 13 16 00-0045 EA 6" Bell And Spigot Cast Iron Short Sweep	380.56	63.34
For Extra Heavy Fittings, Add	99.97	
For Above Ground Cast Iron Pipe Installation, Add	4.75	
For Work In Restricted Working Space, Add	28.48	
22 13 16 00-0046 EA 8" Bell And Spigot Cast Iron Short Sweep	629.44	81.90
For Extra Heavy Fittings, Add	177.34	
For Above Ground Cast Iron Pipe Installation, Add	6.14	
For Work In Restricted Working Space, Add	36.83	
22 13 16 00-0047 EA 10" Bell And Spigot Cast Iron Short Sweep	922.56	100.75
For Extra Heavy Fittings, Add	270.02	
For Above Ground Cast Iron Pipe Installation, Add	7.55	
For Work In Restricted Working Space, Add	45.32	
22 13 16 00-0048 EA 12" Bell And Spigot Cast Iron Short Sweep	1,532.41	140.63
For Extra Heavy Fittings, Add	462.55	
For Above Ground Cast Iron Pipe Installation, Add	10.54	
For Work In Restricted Working Space, Add	63.26	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0049 Bell And Spigot Cast Iron 1/4 Bends (22 13 16 00-0030)					
22 13 16 00-0050	EA		2" Bell And Spigot Cast Iron 1/4 Bend	80.09	29.30
			For Extra Heavy Fittings, Add	12.64	
			For Above Ground Cast Iron Pipe Installation, Add	2.20	
			For Work In Restricted Working Space, Add	13.19	
22 13 16 00-0051	EA		3" Bell And Spigot Cast Iron 1/4 Bend	121.68	32.99
			For Extra Heavy Fittings, Add	25.26	
			For Above Ground Cast Iron Pipe Installation, Add	2.48	
			For Work In Restricted Working Space, Add	14.85	
22 13 16 00-0052	EA		4" Bell And Spigot Cast Iron 1/4 Bend	174.23	43.96
			For Extra Heavy Fittings, Add	37.92	
			For Above Ground Cast Iron Pipe Installation, Add	3.29	
			For Work In Restricted Working Space, Add	19.77	
22 13 16 00-0053	EA		5" Bell And Spigot Cast Iron 1/4 Bend	217.55	48.08
			For Extra Heavy Fittings, Add	50.93	
			For Above Ground Cast Iron Pipe Installation, Add	3.60	
			For Work In Restricted Working Space, Add	21.61	
22 13 16 00-0054	EA		6" Bell And Spigot Cast Iron 1/4 Bend	261.69	57.58
			For Extra Heavy Fittings, Add	61.35	
			For Above Ground Cast Iron Pipe Installation, Add	4.32	
			For Work In Restricted Working Space, Add	25.92	
22 13 16 00-0055	EA		8" Bell And Spigot Cast Iron 1/4 Bend	548.00	75.42
			For Extra Heavy Fittings, Add	152.24	
			For Above Ground Cast Iron Pipe Installation, Add	5.65	
			For Work In Restricted Working Space, Add	33.91	
22 13 16 00-0056	EA		10" Bell And Spigot Cast Iron 1/4 Bend	810.17	91.52
			For Extra Heavy Fittings, Add	235.54	
			For Above Ground Cast Iron Pipe Installation, Add	6.86	
			For Work In Restricted Working Space, Add	41.16	
22 13 16 00-0057	EA		12" Bell And Spigot Cast Iron 1/4 Bend	1,069.42	108.03
			For Extra Heavy Fittings, Add	317.60	
			For Above Ground Cast Iron Pipe Installation, Add	8.10	
			For Work In Restricted Working Space, Add	48.60	
22 13 16 00-0058	EA		15" Bell And Spigot Cast Iron 1/4 Bend	2,743.52	170.38
			For Extra Heavy Fittings, Add	870.84	
			For Above Ground Cast Iron Pipe Installation, Add	12.77	
			For Work In Restricted Working Space, Add	76.62	
22 13 16 00-0059 Bell And Spigot Cast Iron 1/8 Bends (22 13 16 00-0030)					
22 13 16 00-0060	EA		2" Bell And Spigot Cast Iron 1/8 Bend	72.90	29.41
			For Extra Heavy Fittings, Add	10.09	
			For Above Ground Cast Iron Pipe Installation, Add	2.20	
			For Work In Restricted Working Space, Add	13.22	
22 13 16 00-0061	EA		3" Bell And Spigot Cast Iron 1/8 Bend	114.89	36.99
			For Extra Heavy Fittings, Add	20.83	
			For Above Ground Cast Iron Pipe Installation, Add	2.77	
			For Work In Restricted Working Space, Add	16.62	
22 13 16 00-0062	EA		4" Bell And Spigot Cast Iron 1/8 Bend	164.00	49.18
			For Extra Heavy Fittings, Add	31.60	
			For Above Ground Cast Iron Pipe Installation, Add	3.69	
			For Work In Restricted Working Space, Add	22.12	
22 13 16 00-0063	EA		5" Bell And Spigot Cast Iron 1/8 Bend	204.02	60.18
			For Extra Heavy Fittings, Add	39.84	
			For Above Ground Cast Iron Pipe Installation, Add	4.51	
			For Work In Restricted Working Space, Add	27.05	
22 13 16 00-0064	EA		6" Bell And Spigot Cast Iron 1/8 Bend	236.19	67.09
			For Extra Heavy Fittings, Add	47.45	
			For Above Ground Cast Iron Pipe Installation, Add	5.03	
			For Work In Restricted Working Space, Add	30.19	
22 13 16 00-0065	EA		8" Bell And Spigot Cast Iron 1/8 Bend	474.64	90.34
			For Extra Heavy Fittings, Add	118.71	
			For Above Ground Cast Iron Pipe Installation, Add	6.77	
			For Work In Restricted Working Space, Add	40.64	
22 13 16 00-0066	EA		10" Bell And Spigot Cast Iron 1/8 Bend	665.34	111.46
			For Extra Heavy Fittings, Add	174.37	
			For Above Ground Cast Iron Pipe Installation, Add	8.36	
			For Work In Restricted Working Space, Add	50.15	
22 13 16 00-0067	EA		12" Bell And Spigot Cast Iron 1/8 Bend	1,078.70	144.55
			For Extra Heavy Fittings, Add	301.71	
			For Above Ground Cast Iron Pipe Installation, Add	10.83	
			For Work In Restricted Working Space, Add	65.00	
22 13 16 00-0068	EA		15" Bell And Spigot Cast Iron 1/8 Bend	2,077.99	170.38
			For Extra Heavy Fittings, Add	637.90	
			For Above Ground Cast Iron Pipe Installation, Add	12.77	
			For Work In Restricted Working Space, Add	76.62	
22 13 16 00-0069 Bell And Spigot Cast Iron Wyes (22 13 16 00-0030)					
22 13 16 00-0070	EA		2" Bell And Spigot Cast Iron Wye	126.27	65.68
			For Extra Heavy Fittings, Add	9.71	
			For Above Ground Cast Iron Pipe Installation, Add	4.93	
			For Work In Restricted Working Space, Add	29.56	

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0071	EA		3" Bell And Spigot Cast Iron Wye	159.82	71.94
			<i>For Extra Heavy Fittings, Add</i>	18.19	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.39	
			<i>For Work In Restricted Working Space, Add</i>	32.36	
22 13 16 00-0072	EA		4" Bell And Spigot Cast Iron Wye	210.46	94.28
			<i>For Extra Heavy Fittings, Add</i>	24.20	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.07	
			<i>For Work In Restricted Working Space, Add</i>	42.39	
22 13 16 00-0073	EA		5" Bell And Spigot Cast Iron Wye	270.52	103.56
			<i>For Extra Heavy Fittings, Add</i>	40.33	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.77	
			<i>For Work In Restricted Working Space, Add</i>	46.59	
22 13 16 00-0074	EA		6" Bell And Spigot Cast Iron Wye	340.17	122.74
			<i>For Extra Heavy Fittings, Add</i>	54.64	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.20	
			<i>For Work In Restricted Working Space, Add</i>	55.22	
22 13 16 00-0075	EA		8" Bell And Spigot Cast Iron Wye	630.18	164.98
			<i>For Extra Heavy Fittings, Add</i>	133.98	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.37	
			<i>For Work In Restricted Working Space, Add</i>	74.21	
22 13 16 00-0076	EA		10" Bell And Spigot Cast Iron Wye	888.18	187.17
			<i>For Extra Heavy Fittings, Add</i>	212.66	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	14.03	
			<i>For Work In Restricted Working Space, Add</i>	84.17	
22 13 16 00-0077	EA		12" Bell And Spigot Cast Iron Wye	1,319.06	227.83
			<i>For Extra Heavy Fittings, Add</i>	342.12	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	17.08	
			<i>For Work In Restricted Working Space, Add</i>	102.47	
22 13 16 00-0078	EA		15" Bell And Spigot Cast Iron Wye	2,057.02	255.62
			<i>For Extra Heavy Fittings, Add</i>	585.83	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	19.16	
			<i>For Work In Restricted Working Space, Add</i>	114.97	
22 13 16 00-0079			Bell And Spigot Cast Iron Reducing Wyes (22 13 16 00-0030)		
22 13 16 00-0080	EA		3" x 2" Bell And Spigot Cast Iron Reducing Wye	202.73	68.65
			<i>For Extra Heavy Fittings, Add</i>	34.92	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.15	
			<i>For Work In Restricted Working Space, Add</i>	30.89	
22 13 16 00-0081	EA		4" x 2" Bell And Spigot Cast Iron Reducing Wye	246.64	84.85
			<i>For Extra Heavy Fittings, Add</i>	41.78	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.36	
			<i>For Work In Restricted Working Space, Add</i>	38.18	
22 13 16 00-0082	EA		4" x 3" Bell And Spigot Cast Iron Reducing Wye	275.83	87.00
			<i>For Extra Heavy Fittings, Add</i>	50.87	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.53	
			<i>For Work In Restricted Working Space, Add</i>	39.15	
22 13 16 00-0083	EA		6" x 2" Bell And Spigot Cast Iron Reducing Wye	407.03	109.98
			<i>For Extra Heavy Fittings, Add</i>	84.77	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.24	
			<i>For Work In Restricted Working Space, Add</i>	49.45	
22 13 16 00-0084	EA		6" x 3" Bell And Spigot Cast Iron Reducing Wye	417.66	112.00
			<i>For Extra Heavy Fittings, Add</i>	87.40	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.40	
			<i>For Work In Restricted Working Space, Add</i>	50.39	
22 13 16 00-0085	EA		6" x 4" Bell And Spigot Cast Iron Reducing Wye	436.93	119.49
			<i>For Extra Heavy Fittings, Add</i>	90.22	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.96	
			<i>For Work In Restricted Working Space, Add</i>	53.75	
22 13 16 00-0086	EA		8" x 2" Bell And Spigot Cast Iron Reducing Wye	648.14	132.67
			<i>For Extra Heavy Fittings, Add</i>	157.23	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.95	
			<i>For Work In Restricted Working Space, Add</i>	59.67	
22 13 16 00-0087	EA		8" x 3" Bell And Spigot Cast Iron Reducing Wye	677.88	135.22
			<i>For Extra Heavy Fittings, Add</i>	166.32	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.13	
			<i>For Work In Restricted Working Space, Add</i>	60.81	
22 13 16 00-0088	EA		8" x 4" Bell And Spigot Cast Iron Reducing Wye	693.87	141.61
			<i>For Extra Heavy Fittings, Add</i>	168.54	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.62	
			<i>For Work In Restricted Working Space, Add</i>	63.70	
22 13 16 00-0089	EA		8" x 6" Bell And Spigot Cast Iron Reducing Wye	820.97	157.52
			<i>For Extra Heavy Fittings, Add</i>	204.67	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.81	
			<i>For Work In Restricted Working Space, Add</i>	70.86	
22 13 16 00-0090	EA		10" x 3" Bell And Spigot Cast Iron Reducing Wye	1,017.71	147.60
			<i>For Extra Heavy Fittings, Add</i>	278.74	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.07	
			<i>For Work In Restricted Working Space, Add</i>	66.39	
22 13 16 00-0091	EA		10" x 4" Bell And Spigot Cast Iron Reducing Wye	1,058.61	154.08
			<i>For Extra Heavy Fittings, Add</i>	289.64	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.55	
			<i>For Work In Restricted Working Space, Add</i>	69.32	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0092	EA			10" x 6" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,157.93 315.88 12.77 76.62	170.38
22 13 16 00-0093	EA			10" x 8" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,536.16 442.84 13.55 81.27	180.70
22 13 16 00-0094	EA			12" x 4" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,581.72 458.79 13.55 81.27	180.70
22 13 16 00-0095	EA			12" x 6" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,645.35 473.12 14.68 88.07	195.82
22 13 16 00-0096	EA			12" x 8" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,934.94 569.40 15.40 92.43	205.54
22 13 16 00-0097	EA			12" x 10" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,356.48 713.72 15.86 95.19	211.63
22 13 16 00-0098	EA			15" x 4" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,913.89 1,265.15 14.96 89.75	199.55
22 13 16 00-0099	EA			15" x 6" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,083.87 1,316.01 16.19 97.15	215.95
22 13 16 00-0100	EA			15" x 8" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,167.00 1,340.23 16.89 101.33	225.27
22 13 16 00-0101	EA			15" x 10" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,263.76 1,370.11 17.46 104.75	232.94
22 13 16 00-0102	EA			15" x 12" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,370.63 1,400.38 18.48 110.86	246.49
22 13 16 00-0103				Bell And Spigot Cast Iron Combination Wye And 1/8 Bends <small>(22 13 16 00-0030)</small>		
22 13 16 00-0104	EA			2" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	138.15 13.87 4.93 29.56	65.68
22 13 16 00-0105	EA			3" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	167.14 20.75 5.39 32.36	71.94
22 13 16 00-0106	EA			4" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	223.20 28.66 7.07 42.39	94.28
22 13 16 00-0107	EA			5" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	311.21 51.93 8.14 48.85	108.64
22 13 16 00-0108	EA			6" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	389.88 65.76 10.10 60.60	134.75
22 13 16 00-0109	EA			8" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	723.68 160.08 13.32 79.89	177.65
22 13 16 00-0110	EA			10" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,046.97 244.23 17.46 104.75	232.94
22 13 16 00-0111	EA			12" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,405.17 334.69 22.45 134.68	299.42
22 13 16 00-0112				Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bends <small>(22 13 16 00-0030)</small>		

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0113 EA 3" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	147.42	68.65
For Extra Heavy Fittings, Add	15.56	
For Above Ground Cast Iron Pipe Installation, Add	5.15	
For Work In Restricted Working Space, Add	30.89	
22 13 16 00-0114 EA 4" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	208.93	84.85
For Extra Heavy Fittings, Add	28.58	
For Above Ground Cast Iron Pipe Installation, Add	6.36	
For Work In Restricted Working Space, Add	38.18	
22 13 16 00-0115 EA 4" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	226.06	87.00
For Extra Heavy Fittings, Add	33.45	
For Above Ground Cast Iron Pipe Installation, Add	6.53	
For Work In Restricted Working Space, Add	39.15	
22 13 16 00-0116 EA 6" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	335.66	109.98
For Extra Heavy Fittings, Add	59.79	
For Above Ground Cast Iron Pipe Installation, Add	8.24	
For Work In Restricted Working Space, Add	49.45	
22 13 16 00-0117 EA 6" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	349.90	112.00
For Extra Heavy Fittings, Add	63.68	
For Above Ground Cast Iron Pipe Installation, Add	8.40	
For Work In Restricted Working Space, Add	50.39	
22 13 16 00-0118 EA 6" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	370.82	119.49
For Extra Heavy Fittings, Add	67.08	
For Above Ground Cast Iron Pipe Installation, Add	8.96	
For Work In Restricted Working Space, Add	53.75	
22 13 16 00-0119 EA 8" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	515.58	132.67
For Extra Heavy Fittings, Add	110.84	
For Above Ground Cast Iron Pipe Installation, Add	9.95	
For Work In Restricted Working Space, Add	59.67	
22 13 16 00-0120 EA 8" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	529.01	141.61
For Extra Heavy Fittings, Add	110.84	
For Above Ground Cast Iron Pipe Installation, Add	10.62	
For Work In Restricted Working Space, Add	63.70	
22 13 16 00-0121 EA 8" x 6" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	670.95	157.52
For Extra Heavy Fittings, Add	152.16	
For Above Ground Cast Iron Pipe Installation, Add	11.81	
For Work In Restricted Working Space, Add	70.86	
22 13 16 00-0122 Bell And Spigot Cast Iron Double Wyes (22 13 16 00-0030)		
22 13 16 00-0123 EA 2" Bell And Spigot Cast Iron Double Wye	227.36	78.60
For Extra Heavy Fittings, Add	38.35	
For Above Ground Cast Iron Pipe Installation, Add	5.89	
For Work In Restricted Working Space, Add	35.34	
22 13 16 00-0124 EA 3" Bell And Spigot Cast Iron Double Wye	332.47	99.09
For Extra Heavy Fittings, Add	64.39	
For Above Ground Cast Iron Pipe Installation, Add	7.43	
For Work In Restricted Working Space, Add	44.55	
22 13 16 00-0125 EA 4" Bell And Spigot Cast Iron Double Wye	452.07	125.32
For Extra Heavy Fittings, Add	92.44	
For Above Ground Cast Iron Pipe Installation, Add	9.40	
For Work In Restricted Working Space, Add	56.39	
22 13 16 00-0126 EA 6" Bell And Spigot Cast Iron Double Wye	868.67	188.59
For Extra Heavy Fittings, Add	205.07	
For Above Ground Cast Iron Pipe Installation, Add	14.14	
For Work In Restricted Working Space, Add	84.83	
22 13 16 00-0127 EA 8" Bell And Spigot Cast Iron Double Wye	1,760.47	223.01
For Extra Heavy Fittings, Add	499.16	
For Above Ground Cast Iron Pipe Installation, Add	16.72	
For Work In Restricted Working Space, Add	100.29	
22 13 16 00-0128 EA 10" Bell And Spigot Cast Iron Double Wye	2,338.90	249.53
For Extra Heavy Fittings, Add	687.68	
For Above Ground Cast Iron Pipe Installation, Add	18.71	
For Work In Restricted Working Space, Add	112.23	
22 13 16 00-0129 EA 12" Bell And Spigot Cast Iron Double Wye	1,605.59	299.42
For Extra Heavy Fittings, Add	404.83	
For Above Ground Cast Iron Pipe Installation, Add	22.45	
For Work In Restricted Working Space, Add	134.68	
22 13 16 00-0130 EA 15" Bell And Spigot Cast Iron Double Wye	4,595.23	314.25
For Extra Heavy Fittings, Add	1,443.34	
For Above Ground Cast Iron Pipe Installation, Add	23.57	
For Work In Restricted Working Space, Add	141.42	
22 13 16 00-0131 Bell And Spigot Cast Iron Reducing Double Wyes (22 13 16 00-0030)		
22 13 16 00-0132 EA 3" x 2" Bell And Spigot Cast Iron Reducing Double Wye	204.03	92.94
For Extra Heavy Fittings, Add	22.63	
For Above Ground Cast Iron Pipe Installation, Add	6.97	
For Work In Restricted Working Space, Add	41.81	
22 13 16 00-0133 EA 4" x 2" Bell And Spigot Cast Iron Reducing Double Wye	237.21	106.77
For Extra Heavy Fittings, Add	26.99	
For Above Ground Cast Iron Pipe Installation, Add	8.01	
For Work In Restricted Working Space, Add	48.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0134 EA 4" x 3" Bell And Spigot Cast Iron Reducing Double Wye	257.32	112.00
<i>For Extra Heavy Fittings, Add</i>	31.27	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.40	
<i>For Work In Restricted Working Space, Add</i>	50.40	
22 13 16 00-0135 EA 6" x 2" Bell And Spigot Cast Iron Reducing Double Wye	329.42	130.82
<i>For Extra Heavy Fittings, Add</i>	46.67	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.80	
<i>For Work In Restricted Working Space, Add</i>	58.83	
22 13 16 00-0136 EA 6" x 3" Bell And Spigot Cast Iron Reducing Double Wye	349.60	135.80
<i>For Extra Heavy Fittings, Add</i>	51.11	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.18	
<i>For Work In Restricted Working Space, Add</i>	61.07	
22 13 16 00-0137 EA 6" x 4" Bell And Spigot Cast Iron Reducing Double Wye	403.32	148.09
<i>For Extra Heavy Fittings, Add</i>	63.46	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.10	
<i>For Work In Restricted Working Space, Add</i>	66.60	
22 13 16 00-0138 EA 8" x 4" Bell And Spigot Cast Iron Reducing Double Wye	660.17	171.85
<i>For Extra Heavy Fittings, Add</i>	140.91	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.88	
<i>For Work In Restricted Working Space, Add</i>	77.27	
22 13 16 00-0139 EA 8" x 6" Bell And Spigot Cast Iron Reducing Double Wye	716.97	203.37
<i>For Extra Heavy Fittings, Add</i>	144.20	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	15.25	
<i>For Work In Restricted Working Space, Add</i>	91.49	
22 13 16 00-0140 EA 10" x 4" Bell And Spigot Cast Iron Reducing Double Wye	703.16	183.83
<i>For Extra Heavy Fittings, Add</i>	149.63	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.78	
<i>For Work In Restricted Working Space, Add</i>	82.70	
22 13 16 00-0141 EA 10" x 6" Bell And Spigot Cast Iron Reducing Double Wye	819.28	215.95
<i>For Extra Heavy Fittings, Add</i>	173.40	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	16.19	
<i>For Work In Restricted Working Space, Add</i>	97.15	
22 13 16 00-0142 EA 10" x 8" Bell And Spigot Cast Iron Reducing Double Wye	1,013.53	235.39
<i>For Extra Heavy Fittings, Add</i>	231.21	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	17.65	
<i>For Work In Restricted Working Space, Add</i>	105.88	
22 13 16 00-0143 EA 12" x 6" Bell And Spigot Cast Iron Reducing Double Wye	1,035.19	240.79
<i>For Extra Heavy Fittings, Add</i>	235.95	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	18.05	
<i>For Work In Restricted Working Space, Add</i>	108.31	
22 13 16 00-0144 EA 12" x 8" Bell And Spigot Cast Iron Reducing Double Wye	1,329.18	262.00
<i>For Extra Heavy Fittings, Add</i>	327.73	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	19.64	
<i>For Work In Restricted Working Space, Add</i>	117.84	
22 13 16 00-0145 Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0030)</small>		
22 13 16 00-0146 EA 2" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	188.09	78.60
<i>For Extra Heavy Fittings, Add</i>	24.61	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.89	
<i>For Work In Restricted Working Space, Add</i>	35.34	
22 13 16 00-0147 EA 3" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	253.38	105.14
<i>For Extra Heavy Fittings, Add</i>	33.51	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.88	
<i>For Work In Restricted Working Space, Add</i>	47.30	
22 13 16 00-0148 EA 4" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	331.78	131.47
<i>For Extra Heavy Fittings, Add</i>	47.15	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.85	
<i>For Work In Restricted Working Space, Add</i>	59.12	
22 13 16 00-0149 EA 6" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	733.64	210.76
<i>For Extra Heavy Fittings, Add</i>	146.17	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	15.80	
<i>For Work In Restricted Working Space, Add</i>	94.80	
22 13 16 00-0150 Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0030)</small>		
22 13 16 00-0151 EA 3" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	252.43	94.28
<i>For Extra Heavy Fittings, Add</i>	38.89	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.07	
<i>For Work In Restricted Working Space, Add</i>	42.39	
22 13 16 00-0152 EA 4" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	300.12	106.77
<i>For Extra Heavy Fittings, Add</i>	49.00	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.01	
<i>For Work In Restricted Working Space, Add</i>	48.03	
22 13 16 00-0153 EA 4" x 3" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	337.05	118.87
<i>For Extra Heavy Fittings, Add</i>	55.62	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.91	
<i>For Work In Restricted Working Space, Add</i>	53.45	
22 13 16 00-0154 EA 6" x 4" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	681.57	157.21
<i>For Extra Heavy Fittings, Add</i>	156.05	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.79	
<i>For Work In Restricted Working Space, Add</i>	70.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0155 Bell And Spigot Cast Iron Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0156 EA 2" Bell And Spigot Cast Iron Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	153.41 19.18 4.93 29.59	65.79
22 13 16 00-0157 EA 3" Bell And Spigot Cast Iron Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	174.76 23.42 5.39 32.36	71.94
22 13 16 00-0158 EA 4" Bell And Spigot Cast Iron Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	284.44 53.29 6.61 39.66	88.13
22 13 16 00-0159 EA 5" Bell And Spigot Cast Iron Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	414.71 94.86 7.18 43.10	95.78
22 13 16 00-0160 EA 6" Bell And Spigot Cast Iron Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	497.51 113.84 8.61 51.68	114.88
22 13 16 00-0161 EA 8" Bell And Spigot Cast Iron Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,082.40 299.74 11.30 67.80	150.74
22 13 16 00-0162 EA 10" Bell And Spigot Cast Iron Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,632.04 474.73 13.78 82.70	183.83
22 13 16 00-0163 EA 12" Bell And Spigot Cast Iron Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	2,442.61 741.57 16.19 97.15	215.95
22 13 16 00-0164 Bell And Spigot Cast Iron Reducing Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0165 EA 3" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	207.92 36.74 5.15 30.89	68.65
22 13 16 00-0166 EA 4" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	246.28 44.00 6.03 36.17	80.44
22 13 16 00-0167 EA 4" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	258.39 48.24 6.03 36.17	80.44
22 13 16 00-0168 EA 6" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	390.88 79.12 8.24 49.45	109.98
22 13 16 00-0169 EA 6" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	407.28 83.77 8.40 50.39	112.00
22 13 16 00-0170 EA 6" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	442.12 92.04 8.96 53.75	119.49
22 13 16 00-0171 EA 8" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	762.49 192.56 10.62 63.70	141.61
22 13 16 00-0172 EA 8" x 6" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	959.96 253.31 11.81 70.86	157.52
22 13 16 00-0173 Bell And Spigot Cast Iron Vent Tees (22 13 16 00-0030)		
22 13 16 00-0174 EA 2" Bell And Spigot Cast Iron Vent Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	130.54 11.20 4.93 29.56	65.68
22 13 16 00-0175 EA 3" Bell And Spigot Cast Iron Vent Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	163.57 19.50 5.39 32.36	71.94
22 13 16 00-0176 EA 4" Bell And Spigot Cast Iron Vent Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	216.80 26.42 7.07 42.39	94.28



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0177	EA		5" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	275.46 39.42 8.14 48.85	108.64
22 13 16 00-0178	EA		6" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	347.09 50.79 10.10 60.60	134.75
22 13 16 00-0179	EA		8" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	603.96 118.18 13.32 79.89	177.65
22 13 16 00-0180			Bell And Spigot Cast Iron Tapped Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0181	EA		2" Bell And Spigot Cast Iron Tapped Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	134.28 12.51 4.93 29.56	65.68
22 13 16 00-0182	EA		3" Bell And Spigot Cast Iron Tapped Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	148.29 14.15 5.39 32.36	71.94
22 13 16 00-0183	EA		4" Bell And Spigot Cast Iron Tapped Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	191.14 17.44 7.07 42.39	94.28
22 13 16 00-0184			Bell And Spigot Cast Iron Tapped Sanitary Crosses (22 13 16 00-0030)		
22 13 16 00-0185	EA		2" Bell And Spigot Cast Iron Tapped Sanitary Cross <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	136.65 13.34 4.93 29.56	65.68
22 13 16 00-0186	EA		3" Bell And Spigot Cast Iron Tapped Sanitary Cross <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	152.78 15.72 5.39 32.36	71.94
22 13 16 00-0187	EA		4" Bell And Spigot Cast Iron Tapped Sanitary Cross <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	202.44 21.40 7.07 42.39	94.28
22 13 16 00-0188			Bell And Spigot Cast Iron Reducers (22 13 16 00-0030)		
22 13 16 00-0189	EA		3" x 2" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	75.63 7.08 2.77 16.62	36.99
22 13 16 00-0190	EA		4" x 2" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	94.36 7.41 3.66 21.96	48.78
22 13 16 00-0191	EA		4" x 3" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	101.23 9.63 3.69 22.12	49.18
22 13 16 00-0192	EA		6" x 2" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	127.20 13.99 4.36 26.17	58.16
22 13 16 00-0193	EA		6" x 3" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	133.31 15.72 4.42 26.52	58.93
22 13 16 00-0194	EA		6" x 4" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	137.70 16.63 4.51 27.05	60.18
22 13 16 00-0195	EA		8" x 2" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	180.69 30.70 4.65 27.89	62.00
22 13 16 00-0196	EA		8" x 3" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	203.32 31.02 5.73 34.40	76.50
22 13 16 00-0197	EA		8" x 4" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	208.68 31.85 5.88 35.30	78.46
22 13 16 00-0198	EA		8" x 6" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	215.42 32.43 6.14 36.83	81.90

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0199	EA		10" x 4" Bell And Spigot Cast Iron Reducer For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	270.47 46.42 6.89 41.35	91.92
22 13 16 00-0200	EA		10" x 6" Bell And Spigot Cast Iron Reducer For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	285.21 49.15 7.24 43.44	96.54
22 13 16 00-0201	EA		10" x 8" Bell And Spigot Cast Iron Reducer For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	304.19 53.59 7.55 45.32	100.75
22 13 16 00-0202	EA		12" x 4" Bell And Spigot Cast Iron Reducer For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	380.22 75.79 8.18 49.10	109.20
22 13 16 00-0203	EA		12" x 6" Bell And Spigot Cast Iron Reducer For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	423.21 81.06 9.58 57.48	127.76
22 13 16 00-0204	EA		12" x 8" Bell And Spigot Cast Iron Reducer For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	456.69 83.46 10.91 65.47	145.53
22 13 16 00-0205	EA		12" x 10" Bell And Spigot Cast Iron Reducer For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	499.18 86.75 12.57 75.40	167.63
22 13 16 00-0206	EA		15" x 6" Bell And Spigot Cast Iron Reducer For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	659.56 142.88 12.57 75.40	167.63
22 13 16 00-0207	EA		15" x 8" Bell And Spigot Cast Iron Reducer For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	701.46 150.70 13.55 81.27	180.70
22 13 16 00-0208	EA		15" x 10" Bell And Spigot Cast Iron Reducer For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	730.08 155.54 14.28 85.70	190.51
22 13 16 00-0209	EA		15" x 12" Bell And Spigot Cast Iron Reducer For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	768.93 162.38 15.25 91.49	203.37
22 13 16 00-0210			Bell And Spigot Cast Iron P-Traps (22 13 16 00-0030)		
22 13 16 00-0211	EA		2" Bell And Spigot Cast Iron P-Trap..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	78.67 12.11 2.20 13.22	29.41
22 13 16 00-0212	EA		3" Bell And Spigot Cast Iron P-Trap..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	105.73 17.62 2.77 16.62	36.99
22 13 16 00-0213	EA		4" Bell And Spigot Cast Iron P-Trap..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	144.25 24.69 3.69 22.12	49.18
22 13 16 00-0214	EA		5" Bell And Spigot Cast Iron P-Trap..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	231.90 52.92 4.03 24.21	53.84
22 13 16 00-0215	EA		6" Bell And Spigot Cast Iron P-Trap..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	312.70 76.22 4.75 28.48	63.34
22 13 16 00-0216	EA		8" Bell And Spigot Cast Iron P-Trap..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	704.05 203.46 6.14 36.83	81.90
22 13 16 00-0217	EA		10" Bell And Spigot Cast Iron P-Trap..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	779.10 219.81 7.55 45.32	100.75
22 13 16 00-0218			Bell And Spigot Cast Iron Deep Seal P-Traps (22 13 16 00-0030)		
22 13 16 00-0219	EA		2" Bell And Spigot Cast Iron Deep Seal P-Trap For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	91.82 16.71 2.20 13.22	29.41



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 13 16 00-0220	EA		3" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	131.57 26.66 2.77 16.62	36.99
	22 13 16 00-0221	EA		4" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	192.29 41.50 3.69 22.12	49.18
	22 13 16 00-0222	EA		5" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	317.34 79.51 4.51 27.05	60.18
	22 13 16 00-0223	EA		6" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	336.27 82.47 5.03 30.19	67.09
	22 13 16 00-0224			Bell And Spigot Cast Iron Running Traps With Single Vent <small>(22 13 16 00-0030)</small>		
	22 13 16 00-0225	EA		3" x 3" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	211.21 5.39 32.36	71.01
	22 13 16 00-0226	EA		4" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	282.00 7.07 42.39	93.35
	22 13 16 00-0227	EA		5" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	382.00 7.90 47.40	104.52
	22 13 16 00-0228	EA		6" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	782.15 8.96 53.75	118.43
	22 13 16 00-0229	EA		8" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,606.24 10.62 63.70	140.03
	22 13 16 00-0230	EA		8" x 6" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,821.26 11.81 70.86	156.25
	22 13 16 00-0231			Bell And Spigot Cast Running Traps With Double Vent <small>(22 13 16 00-0030)</small>		
	22 13 16 00-0232	EA		3" x 3" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	269.27 7.43 44.55	98.07
	22 13 16 00-0233	EA		4" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	369.09 9.40 56.39	123.78
	22 13 16 00-0234	EA		6" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	869.54 11.10 66.60	146.36
	22 13 16 00-0235	EA		6" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,007.39 13.42 80.54	177.16
	22 13 16 00-0236	EA		8" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,804.13 12.88 77.27	169.79
	22 13 16 00-0237	EA		8" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,074.77 15.25 91.49	201.61
	22 13 16 00-0238	EA		10" x 8" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,094.98 17.65 105.88	232.64
	22 13 16 00-0239	EA		12" x 10" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,676.18 20.37 122.24	268.97
	22 13 16 00-0240	EA		15" x 12" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	11,082.85 23.58 141.47	311.11
	22 13 16 00-0241			Bell And Spigot Cast Iron Scission Joint Fittings <small>(22 13 16 00-0030)</small>		
	22 13 16 00-0242	EA		2" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	167.47 2.20 13.19	
	22 13 16 00-0243	EA		3" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	232.13 2.47 14.82	
	22 13 16 00-0244	EA		4" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	267.13 3.31 19.85	
	22 13 16 00-0245	EA		5" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	330.37 3.84 23.06	
	22 13 16 00-0246	EA		6" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	401.25 4.64 27.86	

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22 13 16 00-0247	EA		8" Bell And Spigot Cast Iron Scission Joint Fitting.....	765.91	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.87	
			<i>For Work In Restricted Working Space, Add</i>	35.20	
22 13 16 00-0248			Cut And Prepare Existing In-Place Cast Iron Pipe (22 13 16 00-0019)		
			Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0249	EA		2", Cut And Prepare Existing In-Place Cast Iron Pipe.....	12.24	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	0.61	
			<i>For Work In Restricted Working Space, Add</i>	3.67	
22 13 16 00-0250	EA		3", Cut And Prepare Existing In-Place Cast Iron Pipe.....	13.36	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	0.67	
			<i>For Work In Restricted Working Space, Add</i>	4.01	
22 13 16 00-0251	EA		4", Cut And Prepare Existing In-Place Cast Iron Pipe.....	16.69	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	0.83	
			<i>For Work In Restricted Working Space, Add</i>	5.01	
22 13 16 00-0252	EA		6", Cut And Prepare Existing In-Place Cast Iron Pipe.....	20.03	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	1.00	
			<i>For Work In Restricted Working Space, Add</i>	6.01	
22 13 16 00-0253	EA		8", Cut And Prepare Existing In-Place Cast Iron Pipe.....	26.71	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	1.34	
			<i>For Work In Restricted Working Space, Add</i>	8.01	
22 13 16 00-0254	EA		10", Cut And Prepare Existing In-Place Cast Iron Pipe.....	31.16	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	1.56	
			<i>For Work In Restricted Working Space, Add</i>	9.35	
22 13 16 00-0255	EA		12", Cut And Prepare Existing In-Place Cast Iron Pipe.....	36.72	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	1.84	
			<i>For Work In Restricted Working Space, Add</i>	11.02	
22 13 16 00-0256	EA		15", Cut And Prepare Existing In-Place Cast Iron Pipe.....	42.28	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	2.11	
			<i>For Work In Restricted Working Space, Add</i>	12.68	
22 13 16 00-0257			Joint Material (22 13 16 00-0019)		
			Note: Labor costs are included in the installation costs for fittings.		
22 13 16 00-0258	LB		Lead (1 LB/Diameter Inch) Joint Material.....	6.03	
22 13 16 00-0259	LB		Oakum (1/8 LB/Diameter Inch) Joint Material.....	16.96	
22 13 16 00-0260	EA		2" Dual Tite Rubber Gasket.....	3.17	
22 13 16 00-0261	EA		3" Dual Tite Rubber Gasket.....	4.34	
22 13 16 00-0262	EA		4" Dual Tite Rubber Gasket.....	5.40	
22 13 16 00-0263	EA		6" Dual Tite Rubber Gasket.....	8.95	
22 13 16 00-0264	EA		8" Dual Tite Rubber Gasket.....	19.75	
22 13 16 00-0265	EA		10" Dual Tite Rubber Gasket.....	30.28	
22 13 16 00-0266	EA		12" Dual Tite Rubber Gasket.....	38.57	
22 13 16 00-0267	EA		15" Dual Tite Rubber Gasket.....	45.81	
22 13 16 00-0268			No Hub Cast Iron Soil Pipe And Fittings (22 13 16)		
			Note: Service Weight. Excludes hangers.		
22 13 16 00-0269			No Hub Cast Iron Pipe (22 13 16 00-0268)		
			Note: Excludes couplings.		
22 13 16 00-0270	LF		1-1/2" No Hub Cast Iron Pipe.....	17.23	6.15
			<i>For Below Ground Installation, Add</i>	0.46	
			<i>For Work In Restricted Working Space, Add</i>	2.77	
22 13 16 00-0271	LF		2" No Hub Cast Iron Pipe.....	18.31	6.56
			<i>For Below Ground Installation, Add</i>	0.50	
			<i>For Work In Restricted Working Space, Add</i>	2.97	
22 13 16 00-0272	LF		3" No Hub Cast Iron Pipe.....	25.96	9.53
			<i>For Below Ground Installation, Add</i>	0.72	
			<i>For Work In Restricted Working Space, Add</i>	4.30	
22 13 16 00-0273	LF		4" No Hub Cast Iron Pipe.....	33.69	12.39
			<i>For Below Ground Installation, Add</i>	0.93	
			<i>For Work In Restricted Working Space, Add</i>	5.59	
22 13 16 00-0274	LF		5" No Hub Cast Iron Pipe.....	43.00	14.69
			<i>For Below Ground Installation, Add</i>	1.10	
			<i>For Work In Restricted Working Space, Add</i>	6.61	
22 13 16 00-0275	LF		6" No Hub Cast Iron Pipe.....	49.94	16.03
			<i>For Below Ground Installation, Add</i>	1.20	
			<i>For Work In Restricted Working Space, Add</i>	7.20	
22 13 16 00-0276	LF		8" No Hub Cast Iron Pipe.....	76.10	23.08
			<i>For Below Ground Installation, Add</i>	1.73	
			<i>For Work In Restricted Working Space, Add</i>	10.36	
22 13 16 00-0277	LF		10" No Hub Cast Iron Pipe.....	108.19	26.22
			<i>For Below Ground Installation, Add</i>	1.96	
			<i>For Work In Restricted Working Space, Add</i>	11.78	
22 13 16 00-0278			No Hub Cast Iron Fittings (22 13 16 00-0268)		
22 13 16 00-0279			No Hub Cast Iron Long Sweeps (22 13 16 00-0278)		
22 13 16 00-0280	EA		1-1/2" No Hub Cast Iron Long Sweep.....	60.60	27.87
			<i>For Below Ground Installation, Add</i>	2.09	
			<i>For Work In Restricted Working Space, Add</i>	12.55	



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22 13 16 00-0281 EA 2" No Hub Cast Iron Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	62.84 2.18 13.08	29.10
22 13 16 00-0282 EA 3" No Hub Cast Iron Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	74.11 2.50 15.00	33.30
22 13 16 00-0283 EA 4" No Hub Cast Iron Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	102.05 3.31 19.83	44.07
22 13 16 00-0284 EA 5" No Hub Cast Iron Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	138.81 3.63 21.79	48.46
22 13 16 00-0285 EA 6" No Hub Cast Iron Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	164.70 4.33 26.01	57.78
22 13 16 00-0286 EA 8" No Hub Cast Iron Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	325.51 5.61 33.67	74.83
22 13 16 00-0287 No Hub Cast Iron Reducing Long Sweeps (22 13 16 00-0278)		
22 13 16 00-0288 EA 3" x 2" No Hub Cast Iron Reducing Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	93.97 2.50 15.00	33.30
22 13 16 00-0289 EA 4" x 3" No Hub Cast Iron Reducing Long Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	139.92 3.31 19.83	44.07
22 13 16 00-0290 No Hub Cast Iron Short Sweeps (22 13 16 00-0278)		
22 13 16 00-0291 EA 2" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	58.85 2.18 13.08	29.10
22 13 16 00-0292 EA 3" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	70.94 2.50 15.00	33.30
22 13 16 00-0293 EA 4" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	100.39 3.31 19.83	44.07
22 13 16 00-0294 EA 5" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	139.43 3.63 21.79	48.46
22 13 16 00-0295 EA 6" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	155.00 4.33 26.01	57.78
22 13 16 00-0296 EA 8" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	296.20 5.61 33.67	74.83
22 13 16 00-0297 EA 10" No Hub Cast Iron Short Sweep <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	480.72 7.86 47.14	104.78
22 13 16 00-0298 No Hub Cast Iron 1/4 Bends (22 13 16 00-0278)		
22 13 16 00-0299 EA 1-1/2" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	53.66 2.09 12.55	27.87
22 13 16 00-0300 EA 2" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	56.10 2.18 13.08	29.10
22 13 16 00-0301 EA 3" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	66.48 2.50 15.00	33.30
22 13 16 00-0302 EA 4" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	90.54 3.31 19.83	44.07
22 13 16 00-0303 EA 5" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	127.19 3.63 21.79	48.46
22 13 16 00-0304 EA 6" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	147.17 4.33 26.01	57.78
22 13 16 00-0305 EA 8" No Hub Cast Iron 1/4 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	273.38 5.61 33.67	74.83
22 13 16 00-0306 No Hub Cast Iron 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0307 EA 1-1/2" No Hub Cast Iron 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	51.11 2.09 12.55	27.87
22 13 16 00-0308 EA 2" No Hub Cast Iron 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	53.09 2.18 13.08	29.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0309 EA 3" No Hub Cast Iron 1/8 Bend.....	63.53	33.30
For Below Ground Installation, Add	2.50	
For Work In Restricted Working Space, Add	15.00	
22 13 16 00-0310 EA 4" No Hub Cast Iron 1/8 Bend.....	83.90	44.07
For Below Ground Installation, Add	3.31	
For Work In Restricted Working Space, Add	19.83	
22 13 16 00-0311 EA 6" No Hub Cast Iron 1/8 Bend.....	138.20	65.07
For Below Ground Installation, Add	4.88	
For Work In Restricted Working Space, Add	29.28	
22 13 16 00-0312 EA 8" No Hub Cast Iron 1/8 Bend.....	236.19	85.46
For Below Ground Installation, Add	6.41	
For Work In Restricted Working Space, Add	38.43	
22 13 16 00-0313 EA 10" No Hub Cast Iron 1/8 Bend.....	361.54	105.14
For Below Ground Installation, Add	7.88	
For Work In Restricted Working Space, Add	47.30	
22 13 16 00-0314 No Hub Cast Iron Wyes (22 13 16 00-0278)		
22 13 16 00-0315 EA 1-1/2" No Hub Cast Iron Wye.....	82.18	43.85
For Below Ground Installation, Add	3.28	
For Work In Restricted Working Space, Add	19.71	
22 13 16 00-0316 EA 2" No Hub Cast Iron Wye.....	105.81	59.43
For Below Ground Installation, Add	4.46	
For Work In Restricted Working Space, Add	26.73	
22 13 16 00-0317 EA 3" No Hub Cast Iron Wye.....	120.41	65.07
For Below Ground Installation, Add	4.88	
For Work In Restricted Working Space, Add	29.28	
22 13 16 00-0318 EA 4" No Hub Cast Iron Wye.....	165.13	85.46
For Below Ground Installation, Add	6.41	
For Work In Restricted Working Space, Add	38.43	
22 13 16 00-0319 EA 5" No Hub Cast Iron Wye.....	221.57	94.35
For Below Ground Installation, Add	7.07	
For Work In Restricted Working Space, Add	42.43	
22 13 16 00-0320 EA 6" No Hub Cast Iron Wye.....	262.92	112.00
For Below Ground Installation, Add	8.40	
For Work In Restricted Working Space, Add	50.39	
22 13 16 00-0321 EA 8" No Hub Cast Iron Wye.....	447.60	149.76
For Below Ground Installation, Add	11.22	
For Work In Restricted Working Space, Add	67.34	
22 13 16 00-0322 EA 10" No Hub Cast Iron Wye.....	732.54	166.35
For Below Ground Installation, Add	12.47	
For Work In Restricted Working Space, Add	74.82	
22 13 16 00-0323 No Hub Cast Iron Reducing Wyes (22 13 16 00-0278)		
22 13 16 00-0324 EA 3" x 1-1/2" No Hub Cast Iron Reducing Wye.....	103.04	56.77
For Below Ground Installation, Add	4.25	
For Work In Restricted Working Space, Add	25.51	
22 13 16 00-0325 EA 3" x 2" No Hub Cast Iron Reducing Wye.....	115.59	65.07
For Below Ground Installation, Add	4.88	
For Work In Restricted Working Space, Add	29.28	
22 13 16 00-0326 EA 4" x 2" No Hub Cast Iron Reducing Wye.....	130.89	71.94
For Below Ground Installation, Add	5.39	
For Work In Restricted Working Space, Add	32.36	
22 13 16 00-0327 EA 4" x 3" No Hub Cast Iron Reducing Wye.....	150.71	79.93
For Below Ground Installation, Add	5.99	
For Work In Restricted Working Space, Add	35.96	
22 13 16 00-0328 EA 6" x 2" No Hub Cast Iron Reducing Wye.....	194.13	95.30
For Below Ground Installation, Add	7.15	
For Work In Restricted Working Space, Add	42.88	
22 13 16 00-0329 EA 6" x 3" No Hub Cast Iron Reducing Wye.....	207.02	99.62
For Below Ground Installation, Add	7.46	
For Work In Restricted Working Space, Add	44.79	
22 13 16 00-0330 EA 6" x 4" No Hub Cast Iron Reducing Wye.....	237.73	116.42
For Below Ground Installation, Add	8.73	
For Work In Restricted Working Space, Add	52.35	
22 13 16 00-0331 EA 8" x 4" No Hub Cast Iron Reducing Wye.....	304.29	117.74
For Below Ground Installation, Add	8.83	
For Work In Restricted Working Space, Add	52.96	
22 13 16 00-0332 EA 8" x 6" No Hub Cast Iron Reducing Wye.....	351.76	129.43
For Below Ground Installation, Add	9.70	
For Work In Restricted Working Space, Add	58.19	
22 13 16 00-0333 EA 10" x 4" No Hub Cast Iron Reducing Wye.....	540.87	137.88
For Below Ground Installation, Add	10.34	
For Work In Restricted Working Space, Add	62.02	
22 13 16 00-0334 EA 10" x 6" No Hub Cast Iron Reducing Wye.....	570.89	147.60
For Below Ground Installation, Add	11.07	
For Work In Restricted Working Space, Add	66.39	
22 13 16 00-0335 EA 10" x 8" No Hub Cast Iron Reducing Wye.....	656.09	157.62
For Below Ground Installation, Add	11.81	
For Work In Restricted Working Space, Add	70.88	
22 13 16 00-0336 No Hub Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0278)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 13 16 00-0337	EA		1-1/2" No Hub Cast Iron Combination Wye And 1/8 Bend.....	93.17	51.03
				<i>For Below Ground Installation, Add</i>	3.82	
				<i>For Work In Restricted Working Space, Add</i>	22.94	
	22 13 16 00-0338	EA		2" No Hub Cast Iron Combination Wye And 1/8 Bend.....	106.49	59.43
				<i>For Below Ground Installation, Add</i>	4.46	
				<i>For Work In Restricted Working Space, Add</i>	26.73	
	22 13 16 00-0339	EA		3" No Hub Cast Iron Combination Wye And 1/8 Bend.....	125.49	65.07
				<i>For Below Ground Installation, Add</i>	4.88	
				<i>For Work In Restricted Working Space, Add</i>	29.28	
	22 13 16 00-0340	EA		4" No Hub Cast Iron Combination Wye And 1/8 Bend.....	179.50	85.46
				<i>For Below Ground Installation, Add</i>	6.41	
				<i>For Work In Restricted Working Space, Add</i>	38.43	
	22 13 16 00-0341	EA		6" No Hub Cast Iron Combination Wye And 1/8 Bend.....	326.47	131.47
				<i>For Below Ground Installation, Add</i>	9.85	
				<i>For Work In Restricted Working Space, Add</i>	59.12	
	22 13 16 00-0342	EA		8" No Hub Cast Iron Combination Wye And 1/8 Bend.....	577.59	168.67
				<i>For Below Ground Installation, Add</i>	12.65	
				<i>For Work In Restricted Working Space, Add</i>	75.87	
	22 13 16 00-0343	EA		10" No Hub Cast Iron Combination Wye And 1/8 Bend.....	678.53	203.92
				<i>For Below Ground Installation, Add</i>	15.29	
				<i>For Work In Restricted Working Space, Add</i>	91.71	
	22 13 16 00-0344			No Hub Cast Iron Reducing Combination Wye And 1/8 Bends <small>(22 13 16 00-0278)</small>		
	22 13 16 00-0345	EA		2" x 1-1/2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	107.32	59.43
				<i>For Below Ground Installation, Add</i>	4.46	
				<i>For Work In Restricted Working Space, Add</i>	26.73	
	22 13 16 00-0346	EA		3" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	118.13	65.07
				<i>For Below Ground Installation, Add</i>	4.88	
				<i>For Work In Restricted Working Space, Add</i>	29.28	
	22 13 16 00-0347	EA		4" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	135.97	71.94
				<i>For Below Ground Installation, Add</i>	5.39	
				<i>For Work In Restricted Working Space, Add</i>	32.36	
	22 13 16 00-0348	EA		4" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	155.64	79.93
				<i>For Below Ground Installation, Add</i>	5.99	
				<i>For Work In Restricted Working Space, Add</i>	35.96	
	22 13 16 00-0349	EA		6" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	208.92	95.30
				<i>For Below Ground Installation, Add</i>	7.15	
				<i>For Work In Restricted Working Space, Add</i>	42.88	
	22 13 16 00-0350	EA		6" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	232.85	99.62
				<i>For Below Ground Installation, Add</i>	7.46	
				<i>For Work In Restricted Working Space, Add</i>	44.79	
	22 13 16 00-0351	EA		6" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	260.34	116.42
				<i>For Below Ground Installation, Add</i>	8.73	
				<i>For Work In Restricted Working Space, Add</i>	52.35	
	22 13 16 00-0352	EA		8" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	346.56	117.74
				<i>For Below Ground Installation, Add</i>	8.83	
				<i>For Work In Restricted Working Space, Add</i>	52.96	
	22 13 16 00-0353	EA		8" x 6" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	448.39	129.43
				<i>For Below Ground Installation, Add</i>	9.70	
				<i>For Work In Restricted Working Space, Add</i>	58.19	
	22 13 16 00-0354			No Hub Cast Iron Double Wyes <small>(22 13 16 00-0278)</small>		
	22 13 16 00-0355	EA		2" No Hub Cast Iron Double Wye	134.07	73.88
				<i>For Below Ground Installation, Add</i>	5.54	
				<i>For Work In Restricted Working Space, Add</i>	33.23	
	22 13 16 00-0356	EA		3" No Hub Cast Iron Double Wye	177.79	89.98
				<i>For Below Ground Installation, Add</i>	6.74	
				<i>For Work In Restricted Working Space, Add</i>	40.45	
	22 13 16 00-0357	EA		4" No Hub Cast Iron Double Wye	235.82	98.37
				<i>For Below Ground Installation, Add</i>	7.37	
				<i>For Work In Restricted Working Space, Add</i>	44.23	
	22 13 16 00-0358	EA		6" No Hub Cast Iron Double Wye	363.87	141.18
				<i>For Below Ground Installation, Add</i>	10.58	
				<i>For Work In Restricted Working Space, Add</i>	63.48	
	22 13 16 00-0359	EA		8" No Hub Cast Iron Double Wye	698.08	190.51
				<i>For Below Ground Installation, Add</i>	14.28	
				<i>For Work In Restricted Working Space, Add</i>	85.70	
	22 13 16 00-0360			No Hub Cast Iron Reducing Double Wyes <small>(22 13 16 00-0278)</small>		
	22 13 16 00-0361	EA		3" x 2" No Hub Cast Iron Double Wye	159.55	81.87
				<i>For Below Ground Installation, Add</i>	6.14	
				<i>For Work In Restricted Working Space, Add</i>	36.82	
	22 13 16 00-0362	EA		4" x 2" No Hub Cast Iron Double Wye	190.82	94.28
				<i>For Below Ground Installation, Add</i>	7.07	
				<i>For Work In Restricted Working Space, Add</i>	42.40	
	22 13 16 00-0363	EA		4" x 3" No Hub Cast Iron Double Wye	209.90	102.78
				<i>For Below Ground Installation, Add</i>	7.70	
				<i>For Work In Restricted Working Space, Add</i>	46.23	
	22 13 16 00-0364	EA		6" x 4" No Hub Cast Iron Double Wye	310.11	124.48
				<i>For Below Ground Installation, Add</i>	9.33	
				<i>For Work In Restricted Working Space, Add</i>	55.98	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0365			No Hub Cast Iron Double Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0366	EA		2" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	173.90	88.75
			<i>For Below Ground Installation, Add</i>	6.65	
			<i>For Work In Restricted Working Space, Add</i>	39.92	
22 13 16 00-0367	EA		3" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	210.67	98.37
			<i>For Below Ground Installation, Add</i>	7.37	
			<i>For Work In Restricted Working Space, Add</i>	44.23	
22 13 16 00-0368	EA		4" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	315.94	130.24
			<i>For Below Ground Installation, Add</i>	9.76	
			<i>For Work In Restricted Working Space, Add</i>	58.56	
22 13 16 00-0369	EA		6" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	442.36	201.05
			<i>For Below Ground Installation, Add</i>	15.07	
			<i>For Work In Restricted Working Space, Add</i>	90.42	
22 13 16 00-0370			No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0371	EA		3" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	161.84	76.34
			<i>For Below Ground Installation, Add</i>	5.72	
			<i>For Work In Restricted Working Space, Add</i>	34.35	
22 13 16 00-0372	EA		4" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	187.64	88.75
			<i>For Below Ground Installation, Add</i>	6.65	
			<i>For Work In Restricted Working Space, Add</i>	39.92	
22 13 16 00-0373	EA		4" x 3" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	224.66	96.94
			<i>For Below Ground Installation, Add</i>	7.27	
			<i>For Work In Restricted Working Space, Add</i>	43.61	
22 13 16 00-0374			No Hub Cast Iron Sanitary Tees (22 13 16 00-0278)		
22 13 16 00-0375	EA		1-1/2" No Hub Cast Iron Sanitary Tee.....	80.11	42.94
			<i>For Below Ground Installation, Add</i>	3.22	
			<i>For Work In Restricted Working Space, Add</i>	19.34	
22 13 16 00-0376	EA		2" No Hub Cast Iron Sanitary Tee.....	106.64	59.43
			<i>For Below Ground Installation, Add</i>	4.46	
			<i>For Work In Restricted Working Space, Add</i>	26.73	
22 13 16 00-0377	EA		3" No Hub Cast Iron Sanitary Tee.....	118.54	65.07
			<i>For Below Ground Installation, Add</i>	4.88	
			<i>For Work In Restricted Working Space, Add</i>	29.28	
22 13 16 00-0378	EA		4" No Hub Cast Iron Sanitary Tee.....	160.88	85.46
			<i>For Below Ground Installation, Add</i>	6.41	
			<i>For Work In Restricted Working Space, Add</i>	38.43	
22 13 16 00-0379	EA		5" No Hub Cast Iron Sanitary Tee.....	222.46	94.35
			<i>For Below Ground Installation, Add</i>	7.07	
			<i>For Work In Restricted Working Space, Add</i>	42.43	
22 13 16 00-0380	EA		6" No Hub Cast Iron Sanitary Tee.....	262.30	112.00
			<i>For Below Ground Installation, Add</i>	8.40	
			<i>For Work In Restricted Working Space, Add</i>	50.39	
22 13 16 00-0381	EA		8" No Hub Cast Iron Sanitary Tee.....	500.04	149.76
			<i>For Below Ground Installation, Add</i>	11.22	
			<i>For Work In Restricted Working Space, Add</i>	67.34	
22 13 16 00-0382			No Hub Cast Iron Reducing Sanitary Tees (22 13 16 00-0278)		
22 13 16 00-0383	EA		2" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee	90.20	48.47
			<i>For Below Ground Installation, Add</i>	3.63	
			<i>For Work In Restricted Working Space, Add</i>	21.80	
22 13 16 00-0384	EA		3" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee	104.49	56.77
			<i>For Below Ground Installation, Add</i>	4.25	
			<i>For Work In Restricted Working Space, Add</i>	25.51	
22 13 16 00-0385	EA		3" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	108.56	59.43
			<i>For Below Ground Installation, Add</i>	4.46	
			<i>For Work In Restricted Working Space, Add</i>	26.73	
22 13 16 00-0386	EA		3" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	128.63	59.43
			<i>For Below Ground Installation, Add</i>	4.46	
			<i>For Work In Restricted Working Space, Add</i>	26.73	
22 13 16 00-0387	EA		4" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	145.51	80.44
			<i>For Below Ground Installation, Add</i>	6.03	
			<i>For Work In Restricted Working Space, Add</i>	36.17	
22 13 16 00-0388	EA		4" x 3" No Hub Cast Iron Reducing Sanitary Tee.....	150.38	80.44
			<i>For Below Ground Installation, Add</i>	6.03	
			<i>For Work In Restricted Working Space, Add</i>	36.17	
22 13 16 00-0389	EA		5" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	192.31	89.63
			<i>For Below Ground Installation, Add</i>	6.72	
			<i>For Work In Restricted Working Space, Add</i>	40.31	
22 13 16 00-0390	EA		5" x 3" No Hub Cast Iron Reducing Sanitary Tee.....	199.10	89.63
			<i>For Below Ground Installation, Add</i>	6.72	
			<i>For Work In Restricted Working Space, Add</i>	40.31	
22 13 16 00-0391	EA		5" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	199.93	89.63
			<i>For Below Ground Installation, Add</i>	6.72	
			<i>For Work In Restricted Working Space, Add</i>	40.31	
22 13 16 00-0392	EA		6" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	207.44	93.38
			<i>For Below Ground Installation, Add</i>	7.00	
			<i>For Work In Restricted Working Space, Add</i>	41.99	



Plumbing	22	22
Plumbing Piping	22 10	
Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0393 EA 8" x 6" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	394.64 9.47 56.79	126.29
22 13 16 00-0394 No Hub Cast Iron Sanitary Tapped Tees (22 13 16 00-0278)		
22 13 16 00-0395 EA 2" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	61.18 2.18 13.08	29.10
22 13 16 00-0396 EA 3" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	71.10 2.50 15.00	33.30
22 13 16 00-0397 EA 4" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	87.69 3.31 19.83	44.07
22 13 16 00-0398 No Hub Cast Iron Cleanout Tees (22 13 16 00-0278)		
22 13 16 00-0399 EA 2" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	58.12 2.18 13.08	29.10
22 13 16 00-0400 EA 3" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	73.33 2.50 15.00	33.30
22 13 16 00-0401 EA 4" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	107.14 3.31 19.83	44.07
22 13 16 00-0402 EA 6" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	177.62 4.88 29.28	65.07
22 13 16 00-0403 No Hub Cast Iron Two-Way Cleanout Tees (22 13 16 00-0278)		
22 13 16 00-0404 EA 4" No Hub Cast Iron Single Two-Way Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	245.25 6.41 38.43	85.46
22 13 16 00-0405 EA 4" No Hub Cast Iron Double Two-Way Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	303.47 9.73 58.41	129.83
22 13 16 00-0406 No Hub Cast Iron Cleanout Plugs (22 13 16 00-0278)		
22 13 16 00-0407 EA 2" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	49.77 2.18 13.08	29.10
22 13 16 00-0408 EA 3" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	59.69 2.50 15.00	33.30
22 13 16 00-0409 EA 4" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	84.52 3.31 19.83	44.07
22 13 16 00-0410 EA 6" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	131.98 4.88 29.28	65.07
22 13 16 00-0411 EA 8" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	175.35 6.41 38.43	85.46
22 13 16 00-0412 No Hub Cast Iron Sanitary Crosses (22 13 16 00-0278)		
22 13 16 00-0413 EA 1-1/2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	107.28 4.31 25.84	57.39
22 13 16 00-0414 EA 2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	115.56 4.46 26.73	59.43
22 13 16 00-0415 EA 3" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	139.24 4.88 29.28	65.07
22 13 16 00-0416 EA 4" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	206.37 6.41 38.43	85.46
22 13 16 00-0417 No Hub Cast Iron Reducing Sanitary Crosses (22 13 16 00-0278)		
22 13 16 00-0418 EA 3" x 2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	151.92 5.72 34.34	76.34
22 13 16 00-0419 EA 4" x 2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	170.75 5.89 35.35	78.60

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0420	EA		4" x 3" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	186.84 6.15 36.90	82.09
22 13 16 00-0421 No Hub Cast Iron Reducers (22 13 16 00-0278)					
22 13 16 00-0422	EA		3" x 2" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	97.98 4.46 26.73	59.43
22 13 16 00-0423	EA		4" x 2" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	134.10 6.03 36.17	80.44
22 13 16 00-0424	EA		4" x 3" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	134.51 6.03 36.17	80.44
22 13 16 00-0425	EA		5" x 2" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	154.24 6.72 40.31	89.63
22 13 16 00-0426	EA		5" x 3" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	156.98 6.72 40.31	89.63
22 13 16 00-0427	EA		5" x 4" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	158.07 6.72 40.31	89.63
22 13 16 00-0428	EA		6" x 3" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	183.57 7.46 44.79	99.62
22 13 16 00-0429	EA		6" x 4" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	183.99 7.46 44.79	99.62
22 13 16 00-0430	EA		6" x 5" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	185.23 7.46 44.79	99.62
22 13 16 00-0431	EA		8" x 2" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	255.19 10.48 62.85	139.74
22 13 16 00-0432	EA		8" x 3" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	258.36 10.48 62.85	139.74
22 13 16 00-0433	EA		8" x 4" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	263.44 10.48 62.85	139.74
22 13 16 00-0434	EA		8" x 5" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	268.73 10.48 62.85	139.74
22 13 16 00-0435	EA		8" x 6" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	269.35 10.48 62.85	139.74
22 13 16 00-0436	EA		10" x 4" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	319.09 11.05 66.29	147.40
22 13 16 00-0437	EA		10" x 6" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	340.74 11.54 69.23	153.88
22 13 16 00-0438	EA		10" x 8" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	382.16 12.52 75.13	167.04
22 13 16 00-0439 No Hub Cast Iron Blind Plugs (22 13 16 00-0278)					
22 13 16 00-0440	EA		1-1/2" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	26.00 1.05 6.28	13.95
22 13 16 00-0441	EA		2" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	26.69 1.09 6.54	14.55
22 13 16 00-0442	EA		3" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	33.65 1.25 7.50	16.71
22 13 16 00-0443	EA		4" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	44.65 1.65 9.91	22.03
22 13 16 00-0444	EA		5" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	58.53 1.85 11.09	24.67
22 13 16 00-0445	EA		6" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	65.16 2.17 13.01	28.88
22 13 16 00-0446	EA		8" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	124.80 2.80 16.82	37.41
22 13 16 00-0447	EA		10" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	159.20 3.02 18.12	40.26



Plumbing	22	22
Plumbing Piping	22 10	
Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0448 No Hub Cast Iron P-Traps (22 13 16 00-0278)		
22 13 16 00-0449 EA 2" No Hub Cast Iron P-Trap..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	61.60 2.18 13.08	29.10
22 13 16 00-0450 EA 3" No Hub Cast Iron P-Trap..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	91.02 2.50 15.00	33.30
22 13 16 00-0451 EA 4" No Hub Cast Iron P-Trap..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	137.38 3.31 19.83	44.07
22 13 16 00-0452 EA 5" No Hub Cast Iron P-Trap..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	236.27 3.66 21.96	48.85
22 13 16 00-0453 EA 6" No Hub Cast Iron P-Trap..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	250.56 4.37 26.20	58.26
22 13 16 00-0454 No Hub Cast Iron Deep Seal P-Traps (22 13 16 00-0278)		
22 13 16 00-0455 EA 2" No Hub Cast Iron Deep Seal P-Trap..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	98.34 2.77 16.62	36.99
22 13 16 00-0456 EA 3" No Hub Cast Iron Deep Seal P-Trap..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	142.24 3.69 22.12	49.18
22 13 16 00-0457 EA 4" No Hub Cast Iron Deep Seal P-Trap..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	207.31 4.87 29.21	64.96
22 13 16 00-0458 No Hub Cast Iron Closet Flanges (22 13 16 00-0278)		
22 13 16 00-0459 EA 4" No Hub Cast Iron Closet Flange..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	94.64 3.31 19.83	44.07
22 13 16 00-0460 EA 4" x 2-1/2" No Hub Cast Iron Offset Closet Flange..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	100.56 3.31 19.83	44.07
22 13 16 00-0461 No Hub Cast Iron Closet Bends (22 13 16 00-0278)		
22 13 16 00-0462 EA 4" x 16" No Hub Cast Iron Closet Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	177.78 3.31 19.83	44.07
22 13 16 00-0463 No Hub Cast Iron Threaded Adapter (22 13 16 00-0278)		
22 13 16 00-0464 EA 1-1/4" No Hub Cast Iron Threaded Adapter..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	70.85 2.77 16.62	36.99
22 13 16 00-0465 EA 1-1/2" No Hub Cast Iron Threaded Adapter..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	75.62 2.77 16.62	36.99
22 13 16 00-0466 No Hub Couplings (22 13 16 00-0278)		
Note: Includes stainless steel shield/clamps assembly with elastomeric gasket, ASTM C 564. (Feroco NH).		
22 13 16 00-0467 EA 1-1/2" No Hub Coupling..... <i>For Medium Duty (Feroco MD-2000), Add</i> <i>For Heavy Duty (Feroco HD-4000), Add</i>	18.04 2.35 4.87	
22 13 16 00-0468 EA 2" No Hub Coupling..... <i>For Medium Duty (Feroco MD-2000), Add</i> <i>For Heavy Duty (Feroco HD-4000), Add</i>	18.04 2.35 4.87	
22 13 16 00-0469 EA 3" No Hub Coupling..... <i>For Medium Duty (Feroco MD-2000), Add</i> <i>For Heavy Duty (Feroco HD-4000), Add</i>	21.41 2.78 5.78	
22 13 16 00-0470 EA 4" No Hub Coupling..... <i>For Medium Duty (Feroco MD-2000), Add</i> <i>For Heavy Duty (Feroco HD-4000), Add</i>	25.42 3.30 6.86	
22 13 16 00-0471 EA 5" No Hub Coupling..... <i>For Medium Duty (Feroco MD-2000), Add</i> <i>For Heavy Duty (Feroco HD-4000), Add</i>	58.78 7.64 15.87	
22 13 16 00-0472 EA 6" No Hub Coupling..... <i>For Medium Duty (Feroco MD-2000), Add</i> <i>For Heavy Duty (Feroco HD-4000), Add</i>	64.58 8.40 17.44	
22 13 16 00-0473 EA 8" No Hub Coupling..... <i>For Medium Duty (Feroco MD-2000), Add</i> <i>For Heavy Duty (Feroco HD-4000), Add</i>	121.67 15.82 32.85	
22 13 16 00-0474 EA 10" No Hub Coupling..... <i>For Medium Duty (Feroco MD-2000), Add</i> <i>For Heavy Duty (Feroco HD-4000), Add</i>	167.61 21.79 45.25	
22 13 16 00-0475 EA 2" x 1-1/2" No Hub Reducing Coupling.....	21.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0476 EA 3" x 2" No Hub Reducing Coupling	33.20	
22 13 16 00-0477 EA 4" x 2" No Hub Reducing Coupling	46.32	
22 13 16 00-0478 EA 4" x 3" No Hub Reducing Coupling	39.47	
22 13 16 00-0479 Cast Iron Mechanical Joint Couplings With Neoprene Gasket And Bolts (22 13 16 00-0278)		
Note: For underground connections. See CSI section 22 13 16 00-0870 for additional FERNCO couplings.		
22 13 16 00-0480 EA 1-1/2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	34.17	
22 13 16 00-0481 EA 2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	35.27	
22 13 16 00-0482 EA 3" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	37.03	
22 13 16 00-0483 EA 4" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	43.20	
22 13 16 00-0484 EA 5" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	81.56	
22 13 16 00-0485 EA 6" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	111.98	
22 13 16 00-0486 EA 8" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	196.19	
22 13 16 00-0487 EA 10" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	299.79	
22 13 16 00-0488 Cut And Prepare Existing Pipe In-Place (22 13 16 00-0268)		
Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0489 EA Cut And Prepare 1-1/2" Cast Iron Pipe, No Hub	10.01	
For Work In Restricted Working Space, Add	3.00	
22 13 16 00-0490 EA Cut And Prepare 2" Cast Iron Pipe, No Hub	12.24	
For Work In Restricted Working Space, Add	3.67	
22 13 16 00-0491 EA Cut And Prepare 3" Cast Iron Pipe, No Hub	13.36	
For Work In Restricted Working Space, Add	4.01	
22 13 16 00-0492 EA Cut And Prepare 4" Cast Iron Pipe, No Hub	16.69	
For Work In Restricted Working Space, Add	5.01	
22 13 16 00-0493 EA Cut And Prepare 6" Cast Iron Pipe, No Hub	20.03	
For Work In Restricted Working Space, Add	6.01	
22 13 16 00-0494 EA Cut And Prepare 8" Cast Iron Pipe, No Hub	26.71	
For Work In Restricted Working Space, Add	8.01	
22 13 16 00-0495 EA Cut And Prepare 10" Cast Iron Pipe, No Hub	31.16	
For Work In Restricted Working Space, Add	9.35	
22 13 16 00-0496 Copper Drain-Waste-Vent (DWV) Pipe (22 13 16)		
See CSI section 22 11 16 00-0436 for copper and brass fittings.		
22 13 16 00-0497 LF 1-1/4" Hard Drawn DWV Copper Tube/Pipe	15.06	4.81
22 13 16 00-0498 LF 1-1/2" Hard Drawn DWV Copper Tube/Pipe	17.91	5.38
22 13 16 00-0499 LF 2" Hard Drawn DWV Copper Tube/Pipe	23.00	6.63
22 13 16 00-0500 LF 3" Hard Drawn DWV Copper Tube/Pipe	50.31	9.19
22 13 16 00-0501 LF 4" Hard Drawn DWV Copper Tube/Pipe	69.33	10.37
22 13 16 00-0502 LF 5" Hard Drawn DWV Copper Tube/Pipe	133.02	11.91
22 13 16 00-0503 LF 6" Hard Drawn DWV Copper Tube/Pipe	190.28	18.45
22 13 16 00-0504 Polyvinyl Chloride (PVC) Drain-Waste-Vent (DWV) Pipe And Fittings (22 13 16)		
Note: Aboveground installation. See CSI section 33 31 11 00-0019 for underground installation.		
22 13 16 00-0505 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies (22 13 16 00-0504)		
22 13 16 00-0506 Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies (22 13 16 00-0505)		
Note: Includes all fittings. Fittings are assumed every 20'. Excludes excavation, backfill and compaction. Not for use where detail is available. Not for use where detail is available.		
22 13 16 00-0507 LF 1-1/2" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	11.33	
Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
For Work In Restricted Working Space, Add	2.40	
22 13 16 00-0508 LF 2" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	13.63	
Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
For Work In Restricted Working Space, Add	2.92	
22 13 16 00-0509 LF 3" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	22.07	
Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
For Work In Restricted Working Space, Add	4.13	
22 13 16 00-0510 LF 4" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	28.04	
Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
For Work In Restricted Working Space, Add	4.55	
22 13 16 00-0511 LF 6" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	49.16	
Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
For Work In Restricted Working Space, Add	5.86	
22 13 16 00-0512 LF 8" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	70.09	
Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
For Work In Restricted Working Space, Add	7.83	
22 13 16 00-0513 LF 10" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	101.16	
Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
For Work In Restricted Working Space, Add	10.44	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0514				Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies <small>(22 13 16 00-0505)</small> Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
	22 13 16 00-0515	LF		1-1/2" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	46.11	8.61
				<i>For Work In Restricted Working Space, Add</i>	9.86	
	22 13 16 00-0516	LF		2" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	51.75	10.25
				<i>For Work In Restricted Working Space, Add</i>	10.97	
	22 13 16 00-0517	LF		3" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	72.70	14.75
				<i>For Work In Restricted Working Space, Add</i>	13.64	
	22 13 16 00-0518	LF		4" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	90.33	15.98
				<i>For Work In Restricted Working Space, Add</i>	14.89	
	22 13 16 00-0519	LF		6" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	139.46	20.50
				<i>For Work In Restricted Working Space, Add</i>	19.07	
	22 13 16 00-0520	LF		8" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	182.05	27.26
				<i>For Work In Restricted Working Space, Add</i>	21.85	
	22 13 16 00-0521	LF		10" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	255.66	36.48
				<i>For Work In Restricted Working Space, Add</i>	28.49	
22 13 16 00-0522				Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <small>(22 13 16 00-0504)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0523				Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (ASTM D-2665) <small>(22 13 16 00-0522)</small> Note: Excludes fittings or hangers.		
	22 13 16 00-0524	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....	8.72	4.30
				<i>For Work In Restricted Working Space, Add</i>	1.92	
	22 13 16 00-0525	LF		2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....	10.72	5.12
				<i>For Work In Restricted Working Space, Add</i>	2.30	
	22 13 16 00-0526	LF		3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....	17.08	7.38
				<i>For Work In Restricted Working Space, Add</i>	3.30	
	22 13 16 00-0527	LF		4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....	20.52	7.99
				<i>For Work In Restricted Working Space, Add</i>	3.59	
	22 13 16 00-0528	LF		6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....	29.69	9.59
				<i>For Work In Restricted Working Space, Add</i>	4.31	
	22 13 16 00-0529	LF		8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....	42.43	12.76
				<i>For Work In Restricted Working Space, Add</i>	5.76	
	22 13 16 00-0530	LF		10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe.....	61.17	17.08
				<i>For Work In Restricted Working Space, Add</i>	7.68	
22 13 16 00-0531				Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe (ASTM F-891) <small>(22 13 16 00-0522)</small> Note: Excludes fittings or hangers.		
	22 13 16 00-0532	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....	8.04	4.30
				<i>For Work In Restricted Working Space, Add</i>	1.92	
	22 13 16 00-0533	LF		2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....	9.90	5.12
				<i>For Work In Restricted Working Space, Add</i>	2.30	
	22 13 16 00-0534	LF		3" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....	15.54	7.38
				<i>For Work In Restricted Working Space, Add</i>	3.30	
	22 13 16 00-0535	LF		4" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....	18.47	7.99
				<i>For Work In Restricted Working Space, Add</i>	3.59	
	22 13 16 00-0536	LF		6" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....	25.87	9.59
				<i>For Work In Restricted Working Space, Add</i>	4.31	
	22 13 16 00-0537	LF		8" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....	37.06	12.76
				<i>For Work In Restricted Working Space, Add</i>	5.76	
	22 13 16 00-0538	LF		10" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe.....	55.33	17.08
				<i>For Work In Restricted Working Space, Add</i>	7.68	
22 13 16 00-0539				Polyvinyl Chloride (PVC) DWV Fittings (ASTM D-2665) <small>(22 13 16 00-0504)</small>		
22 13 16 00-0540				Polyvinyl Chloride (PVC) DWV 1/4 Bends <small>(22 13 16 00-0539)</small>		
	22 13 16 00-0541	EA		1-1/2" Polyvinyl Chloride (PVC) DWV 1/4 Bends.....	31.25	17.11
				<i>For Work In Restricted Working Space, Add</i>	7.69	
	22 13 16 00-0542	EA		2" Polyvinyl Chloride (PVC) DWV 1/4 Bends.....	39.94	21.83
				<i>For Work In Restricted Working Space, Add</i>	9.84	
	22 13 16 00-0543	EA		3" Polyvinyl Chloride (PVC) DWV 1/4 Bends.....	66.28	29.30
				<i>For Work In Restricted Working Space, Add</i>	13.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0544 EA 4" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	98.37 15.37	34.12
22 13 16 00-0545 EA 6" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	353.41 19.98	44.37
22 13 16 00-0546 EA 8" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	580.93 26.90	59.75
22 13 16 00-0547 EA 10" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	767.24 35.86	79.62
22 13 16 00-0548 Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends (22 13 16 00-0539)		
22 13 16 00-0549 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	47.07 7.69	17.11
22 13 16 00-0550 EA 2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	49.04 9.84	21.83
22 13 16 00-0551 EA 3" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	89.69 13.22	29.30
22 13 16 00-0552 EA 4" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	141.28 15.37	34.12
22 13 16 00-0553 EA 6" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	270.53 19.98	44.37
22 13 16 00-0554 EA 8" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	472.01 26.90	59.75
22 13 16 00-0555 EA 10" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	765.28 35.86	79.62
22 13 16 00-0556 Polyvinyl Chloride (PVC) DWV 1/8 Bends (22 13 16 00-0539)		
22 13 16 00-0557 EA 1-1/2" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	32.55 7.69	17.11
22 13 16 00-0558 EA 2" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	39.83 9.84	21.83
22 13 16 00-0559 EA 3" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	64.33 13.22	29.30
22 13 16 00-0560 EA 4" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	88.84 15.37	34.12
22 13 16 00-0561 EA 6" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	329.14 19.98	44.37
22 13 16 00-0562 EA 8" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	524.52 26.90	59.75
22 13 16 00-0563 EA 10" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	601.30 35.86	79.62
22 13 16 00-0564 Polyvinyl Chloride (PVC) DWV Sanitary Tees (22 13 16 00-0539)		
22 13 16 00-0565 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	48.50 11.53	25.62
22 13 16 00-0566 EA 2" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	63.59 14.75	32.79
22 13 16 00-0567 EA 3" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	104.44 19.83	44.07
22 13 16 00-0568 EA 4" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	150.00 23.06	51.24
22 13 16 00-0569 EA 6" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	525.31 29.97	66.51
22 13 16 00-0570 EA 8" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	684.43 40.35	89.56
22 13 16 00-0571 Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees (22 13 16 00-0539)		
22 13 16 00-0572 EA 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	60.21 12.60	27.97
22 13 16 00-0573 EA 2" x 1-1/2" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	70.74 13.68	30.33
22 13 16 00-0574 EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	60.01 13.68	30.33
22 13 16 00-0575 EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	86.23 17.06	37.92
22 13 16 00-0576 EA 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	88.41 18.14	40.27
22 13 16 00-0577 EA 4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	103.49 19.22	42.62
22 13 16 00-0578 EA 4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	166.78 20.29	45.08
22 13 16 00-0579 EA 4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	208.06 21.98	48.78
22 13 16 00-0580 EA 6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	503.62 27.67	61.38
22 13 16 00-0581 EA 8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	1,547.32 34.58	76.75
22 13 16 00-0582 EA 8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	1,601.19 36.89	81.87



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0583				Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <small>(22 13 16 00-0539)</small>		
			EA	1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees .....81.58		34.12
				<i>For Work In Restricted Working Space, Add</i>	15.37	
			EA	2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees.....110.00		43.65
				<i>For Work In Restricted Working Space, Add</i>	19.67	
			EA	3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees.....212.73		58.72
				<i>For Work In Restricted Working Space, Add</i>	26.44	
			EA	4" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees.....302.81		68.25
				<i>For Work In Restricted Working Space, Add</i>	30.74	
22 13 16 00-0588				Polyvinyl Chloride (PVC) DWV Reducing Double Sanitary Tees <small>(22 13 16 00-0539)</small>		
			EA	2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee .....98.56		38.94
				<i>For Work In Restricted Working Space, Add</i>	17.52	
			EA	3" x 3" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee .....164.00		46.42
				<i>For Work In Restricted Working Space, Add</i>	20.90	
			EA	3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee .....188.61		51.24
				<i>For Work In Restricted Working Space, Add</i>	23.06	
			EA	4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee .....330.13		55.95
				<i>For Work In Restricted Working Space, Add</i>	25.21	
			EA	4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee .....348.16		63.43
				<i>For Work In Restricted Working Space, Add</i>	28.59	
22 13 16 00-0594				Polyvinyl Chloride (PVC) DWV Reducers <small>(22 13 16 00-0539)</small>		
			EA	2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers .....40.47		19.47
				<i>For Work In Restricted Working Space, Add</i>	8.76	
			EA	3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers .....70.82		23.16
				<i>For Work In Restricted Working Space, Add</i>	10.46	
			EA	3" x 2" Polyvinyl Chloride (PVC) DWV Reducers.....68.54		25.62
				<i>For Work In Restricted Working Space, Add</i>	11.53	
			EA	4" x 2" Polyvinyl Chloride (PVC) DWV Reducers.....101.60		27.97
				<i>For Work In Restricted Working Space, Add</i>	12.60	
			EA	4" x 3" Polyvinyl Chloride (PVC) DWV Reducers.....109.95		31.76
				<i>For Work In Restricted Working Space, Add</i>	14.30	
			EA	6" x 3" Polyvinyl Chloride (PVC) DWV Reducers.....370.08		36.89
				<i>For Work In Restricted Working Space, Add</i>	16.60	
			EA	6" x 4" Polyvinyl Chloride (PVC) DWV Reducers.....311.70		39.25
				<i>For Work In Restricted Working Space, Add</i>	17.68	
			EA	8" x 4" Polyvinyl Chloride (PVC) DWV Reducers.....764.06		46.94
				<i>For Work In Restricted Working Space, Add</i>	21.14	
			EA	8" x 6" Polyvinyl Chloride (PVC) DWV Reducers.....648.82		52.06
				<i>For Work In Restricted Working Space, Add</i>	23.44	
			EA	10" x 6" Polyvinyl Chloride (PVC) DWV Reducers.....869.83		61.99
				<i>For Work In Restricted Working Space, Add</i>	27.92	
			EA	10" x 8" Polyvinyl Chloride (PVC) DWV Reducers.....687.32		69.68
				<i>For Work In Restricted Working Space, Add</i>	31.38	
22 13 16 00-0606				Polyvinyl Chloride (PVC) DWV P-Traps <small>(22 13 16 00-0539)</small>		
			EA	1-1/2" Polyvinyl Chloride (PVC) DWV P-Traps .....58.14		25.62
				<i>For Work In Restricted Working Space, Add</i>	11.53	
			EA	2" Polyvinyl Chloride (PVC) DWV P-Traps .....76.05		32.79
				<i>For Work In Restricted Working Space, Add</i>	14.75	
			EA	3" Polyvinyl Chloride (PVC) DWV P-Traps .....199.90		44.07
				<i>For Work In Restricted Working Space, Add</i>	19.83	
			EA	4" Polyvinyl Chloride (PVC) DWV P-Traps .....395.51		51.24
				<i>For Work In Restricted Working Space, Add</i>	23.06	
			EA	6" Polyvinyl Chloride (PVC) DWV P-Traps .....663.32		66.51
				<i>For Work In Restricted Working Space, Add</i>	29.97	
22 13 16 00-0612				Polyvinyl Chloride (PVC) DWV Closet Flanges <small>(22 13 16 00-0539)</small>		
			EA	4" Polyvinyl Chloride (PVC) DWV Closet Flanges .....89.05		34.12
				<i>For Work In Restricted Working Space, Add</i>	15.37	
			EA	4" x 3" Polyvinyl Chloride (PVC) DWV Closet Flanges .....74.09		31.76
				<i>For Work In Restricted Working Space, Add</i>	14.30	
22 13 16 00-0615				Polyvinyl Chloride (PVC) DWV Wyes <small>(22 13 16 00-0539)</small>		
			EA	1-1/2" Polyvinyl Chloride (PVC) DWV Wyes .....58.57		25.62
				<i>For Work In Restricted Working Space, Add</i>	11.53	
			EA	2" Polyvinyl Chloride (PVC) DWV Wyes .....69.44		32.79
				<i>For Work In Restricted Working Space, Add</i>	14.75	
			EA	3" Polyvinyl Chloride (PVC) DWV Wyes .....111.92		44.07
				<i>For Work In Restricted Working Space, Add</i>	19.83	
			EA	4" Polyvinyl Chloride (PVC) DWV Wyes .....162.24		51.24
				<i>For Work In Restricted Working Space, Add</i>	23.06	
			EA	6" Polyvinyl Chloride (PVC) DWV Wyes .....479.37		66.51
				<i>For Work In Restricted Working Space, Add</i>	29.97	

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0621	EA		8" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	597.16 40.35	89.56
22 13 16 00-0622	EA		10" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	786.43 53.80	119.38
22 13 16 00-0623			Polyvinyl Chloride (PVC) DWV Reducing Wyes <small>(22 13 16 00-0539)</small>		
22 13 16 00-0624	EA		2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	77.98 12.60	27.97
22 13 16 00-0625	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	81.25 13.68	30.33
22 13 16 00-0626	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	112.87 17.06	37.92
22 13 16 00-0627	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	95.89 18.14	40.27
22 13 16 00-0628	EA		4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	152.96 19.22	42.62
22 13 16 00-0629	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	136.22 20.29	45.08
22 13 16 00-0630	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	153.34 21.98	48.78
22 13 16 00-0631	EA		6" x 6" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	432.87 26.59	59.02
22 13 16 00-0632	EA		6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	532.48 27.67	61.38
22 13 16 00-0633	EA		8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	511.82 34.58	76.75
22 13 16 00-0634	EA		8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	641.83 36.89	81.87
22 13 16 00-0635	EA		10" x 10" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	591.94 43.55	96.64
22 13 16 00-0636	EA		10" x 10" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	732.48 45.85	101.76
22 13 16 00-0637	EA		10" x 10" x 8" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	850.12 49.31	109.44
22 13 16 00-0638			Polyvinyl Chloride (PVC) DWV Double Wyes <small>(22 13 16 00-0539)</small>		
22 13 16 00-0639	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	94.15 15.37	34.12
22 13 16 00-0640	EA		2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	120.73 19.67	43.65
22 13 16 00-0641	EA		3" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	230.61 26.44	58.72
22 13 16 00-0642	EA		4" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	391.33 30.74	68.25
22 13 16 00-0643	EA		6" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	787.40 39.96	88.75
22 13 16 00-0644	EA		8" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	917.64 53.80	119.48
22 13 16 00-0645	EA		10" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	1,415.57 71.73	159.24
22 13 16 00-0646			Polyvinyl Chloride (PVC) DWV Reducing Double Wyes <small>(22 13 16 00-0539)</small>		
22 13 16 00-0647	EA		2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	108.78 17.52	38.94
22 13 16 00-0648	EA		3" x 3" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	194.70 20.90	46.42
22 13 16 00-0649	EA		3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	182.93 23.06	51.24
22 13 16 00-0650	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	257.19 25.21	55.95
22 13 16 00-0651	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	324.02 28.59	63.43
22 13 16 00-0652	EA		6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	493.51 35.36	78.50
22 13 16 00-0653	EA		8" x 8" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	578.34 42.27	93.86
22 13 16 00-0654	EA		8" x 8" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	731.37 46.88	104.11
22 13 16 00-0655	EA		10" x 10" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	773.88 51.23	113.75
22 13 16 00-0656	EA		10" x 10" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	997.53 55.85	123.99
22 13 16 00-0657	EA		10" x 10" x 8" x 8" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	1,203.07 62.76	139.36
22 13 16 00-0658			Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <small>(22 13 16 00-0539)</small>		
22 13 16 00-0659	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	71.14 11.53	25.62



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0660	EA			2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	89.05 14.75	32.79
22 13 16 00-0661	EA			3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	170.86 19.83	44.07
22 13 16 00-0662	EA			4" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	294.42 23.06	51.24
22 13 16 00-0663				Polyvinyl Chloride (PVC) DWV Reducing Combination Wye And 1/8 Bends <small>(22 13 16 00-0539)</small>		
22 13 16 00-0664	EA			2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	128.16 13.68	30.33
22 13 16 00-0665	EA			3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	200.31 17.06	37.92
22 13 16 00-0666	EA			3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	150.11 18.14	40.27
22 13 16 00-0667	EA			4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	267.08 20.29	45.08
22 13 16 00-0668	EA			4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	289.29 21.98	48.78
22 13 16 00-0669				Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0539)</small>		
22 13 16 00-0670	EA			1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	103.90 15.37	34.12
22 13 16 00-0671	EA			2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	121.81 19.67	43.65
22 13 16 00-0672	EA			3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	185.86 26.44	58.72
22 13 16 00-0673	EA			4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	617.34 30.74	68.25
22 13 16 00-0674	EA			6" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	2,002.46 39.96	88.75
22 13 16 00-0675				Polyvinyl Chloride (PVC) DWV Reducing Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0539)</small>		
22 13 16 00-0676	EA			2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	230.70 17.52	38.94
22 13 16 00-0677	EA			3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	368.77 23.06	51.24
22 13 16 00-0678	EA			4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	628.06 25.21	55.95
22 13 16 00-0679	EA			4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	571.42 28.59	63.43
22 13 16 00-0680	EA			6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	1,339.03 35.36	78.50
22 13 16 00-0681				Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <small>(22 13 16 00-0539)</small>		
22 13 16 00-0682	EA			2" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	145.09 14.75	32.79
22 13 16 00-0683	EA			3" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	249.32 19.83	44.07
22 13 16 00-0684	EA			4" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	395.57 23.06	51.24
22 13 16 00-0685	EA			6" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	1,025.99 29.97	66.51
22 13 16 00-0686	EA			8" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	1,287.52 40.35	89.56
22 13 16 00-0687	EA			10" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	1,708.71 53.80	119.38
22 13 16 00-0688				Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <small>(22 13 16 00-0539)</small>		
22 13 16 00-0689	EA			1-1/2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	42.20 7.69	17.11
22 13 16 00-0690	EA			2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	59.55 9.84	21.83
22 13 16 00-0691	EA			3" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	85.24 13.22	29.30
22 13 16 00-0692	EA			4" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	147.99 15.37	34.12
22 13 16 00-0693	EA			6" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	332.17 19.98	44.37
22 13 16 00-0694	EA			8" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	737.22 26.90	59.75
22 13 16 00-0695	EA			10" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	1,351.35 35.84	79.62
22 13 16 00-0696				Polyvinyl Chloride (PVC) Couplings <small>(22 13 16 00-0539)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0697 EA 1-1/2" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	30.53 7.69	17.11
22 13 16 00-0698 EA 2" Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	38.32 9.84	21.83
22 13 16 00-0699 EA 3" Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	58.19 13.22	29.30
22 13 16 00-0700 EA 4" Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	74.45 15.37	34.12
22 13 16 00-0701 EA 6" Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	194.70 19.98	44.37
22 13 16 00-0702 EA 8" Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	459.67 26.90	59.75
22 13 16 00-0703 EA 10" Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	692.93 35.87	79.62
22 13 16 00-0704 Polyvinyl Chloride (PVC) Male Adapters (22 13 16 00-0539)		
22 13 16 00-0705 EA 1-1/2" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	17.78 3.84	8.50
22 13 16 00-0706 EA 2" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	28.62 4.92	10.96
22 13 16 00-0707 EA 3" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	55.95 6.61	14.65
22 13 16 00-0708 EA 4" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	103.36 7.69	17.11
22 13 16 00-0709 Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe (22 13 16 00-0504) Note: In place piping.		
22 13 16 00-0710 EA 1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	7.51	
22 13 16 00-0711 EA 2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	8.26	
22 13 16 00-0712 EA 3", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	10.51	
22 13 16 00-0713 EA 4", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	14.19	
22 13 16 00-0714 EA 6", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	20.27	
22 13 16 00-0715 EA 8", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	27.04	
22 13 16 00-0716 EA 10", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	33.06	
22 13 16 00-0717 Acrylonitrile Butadiene Styrene (ABS) Drain-Waste-Vent (DWV) Pipe And Fittings (22 13 16) Note: Aboveground installation.		
22 13 16 00-0718 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assemblies (22 13 16 00-0717) Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0719 LF 1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	24.48 5.90	4.30
<i>For Work In Restricted Working Space, Add</i>		
22 13 16 00-0720 LF 2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	27.20 6.53	5.12
<i>For Work In Restricted Working Space, Add</i>		
22 13 16 00-0721 LF 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	36.88 8.11	7.38
<i>For Work In Restricted Working Space, Add</i>		
22 13 16 00-0722 LF 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	42.38 9.01	7.99
<i>For Work In Restricted Working Space, Add</i>		
22 13 16 00-0723 LF 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	69.72 11.98	10.25
<i>For Work In Restricted Working Space, Add</i>		
22 13 16 00-0724 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe (ASTM F-628) (22 13 16 00-0717) Note: Excludes fittings or hangers.		
22 13 16 00-0725 LF 1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	9.41 1.92	4.30
22 13 16 00-0726 LF 2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	11.71 2.30	5.12
22 13 16 00-0727 LF 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	19.34 3.30	7.38
22 13 16 00-0728 LF 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	23.86 3.59	7.99
22 13 16 00-0729 LF 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	38.65 4.31	9.59



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0730			Acrylonitrile Butadiene Styrene (ABS) DWV Fittings (ASTM D-2661) <small>(22 13 16 00-0717)</small>		
22 13 16 00-0731			Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <small>(22 13 16 00-0730)</small>		
22 13 16 00-0732	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends 38.38		17.11
			<i>For Work In Restricted Working Space, Add</i> 7.69		
22 13 16 00-0733	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends 50.99		21.83
			<i>For Work In Restricted Working Space, Add</i> 9.84		
22 13 16 00-0734	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends 100.25		29.30
			<i>For Work In Restricted Working Space, Add</i> 13.22		
22 13 16 00-0735	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends 161.31		34.12
			<i>For Work In Restricted Working Space, Add</i> 15.37		
22 13 16 00-0736	EA		6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends 477.42		44.37
			<i>For Work In Restricted Working Space, Add</i> 19.98		
22 13 16 00-0737			Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <small>(22 13 16 00-0730)</small>		
22 13 16 00-0738	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends 56.03		17.11
			<i>For Work In Restricted Working Space, Add</i> 7.69		
22 13 16 00-0739	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends 68.24		21.83
			<i>For Work In Restricted Working Space, Add</i> 9.84		
22 13 16 00-0740	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends 143.07		29.30
			<i>For Work In Restricted Working Space, Add</i> 13.22		
22 13 16 00-0741	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends 246.52		34.12
			<i>For Work In Restricted Working Space, Add</i> 15.37		
22 13 16 00-0742			Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <small>(22 13 16 00-0730)</small>		
22 13 16 00-0743	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends 40.77		17.11
			<i>For Work In Restricted Working Space, Add</i> 7.69		
22 13 16 00-0744	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends 49.32		21.83
			<i>For Work In Restricted Working Space, Add</i> 9.84		
22 13 16 00-0745	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends 91.46		29.30
			<i>For Work In Restricted Working Space, Add</i> 13.22		
22 13 16 00-0746	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends 145.10		34.12
			<i>For Work In Restricted Working Space, Add</i> 15.37		
22 13 16 00-0747	EA		6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends 494.52		44.37
			<i>For Work In Restricted Working Space, Add</i> 19.98		
22 13 16 00-0748			Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <small>(22 13 16 00-0730)</small>		
22 13 16 00-0749	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees 60.15		25.62
			<i>For Work In Restricted Working Space, Add</i> 11.53		
22 13 16 00-0750	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees 81.85		32.79
			<i>For Work In Restricted Working Space, Add</i> 14.75		
22 13 16 00-0751	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees 149.33		44.07
			<i>For Work In Restricted Working Space, Add</i> 19.83		
22 13 16 00-0752	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees 236.79		51.24
			<i>For Work In Restricted Working Space, Add</i> 23.06		
22 13 16 00-0753	EA		6" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees 966.83		66.51
			<i>For Work In Restricted Working Space, Add</i> 29.97		
22 13 16 00-0754			Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <small>(22 13 16 00-0730)</small>		
22 13 16 00-0755	EA		2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 76.67		27.97
			<i>For Work In Restricted Working Space, Add</i> 12.60		
22 13 16 00-0756	EA		2" x 1-1/2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 94.27		30.33
			<i>For Work In Restricted Working Space, Add</i> 13.68		
22 13 16 00-0757	EA		2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 76.91		30.33
			<i>For Work In Restricted Working Space, Add</i> 13.68		
22 13 16 00-0758	EA		3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 120.45		37.92
			<i>For Work In Restricted Working Space, Add</i> 17.06		
22 13 16 00-0759	EA		3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 124.62		40.27
			<i>For Work In Restricted Working Space, Add</i> 18.14		
22 13 16 00-0760	EA		4" x 4" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 294.56		42.62
			<i>For Work In Restricted Working Space, Add</i> 19.22		
22 13 16 00-0761	EA		4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 282.82		45.08
			<i>For Work In Restricted Working Space, Add</i> 20.29		
22 13 16 00-0762	EA		4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 325.60		48.78
			<i>For Work In Restricted Working Space, Add</i> 21.98		
22 13 16 00-0763	EA		6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 1,061.49		61.38
			<i>For Work In Restricted Working Space, Add</i> 27.67		
22 13 16 00-0764			Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <small>(22 13 16 00-0730)</small>		
22 13 16 00-0765	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 117.26		34.12
			<i>For Work In Restricted Working Space, Add</i> 15.37		
22 13 16 00-0766	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 161.90		43.65
			<i>For Work In Restricted Working Space, Add</i> 19.67		
22 13 16 00-0767	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 358.71		58.72
			<i>For Work In Restricted Working Space, Add</i> 26.44		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0768 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	536.14 30.74	68.25
22 13 16 00-0769 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Sanitary Tees (22 13 16 00-0730)		
22 13 16 00-0770 EA 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	133.28 17.52	38.94
22 13 16 00-0771 EA 3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	207.59 20.90	46.42
22 13 16 00-0772 EA 3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	240.03 23.06	51.24
22 13 16 00-0773 EA 4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	438.07 23.61	52.40
22 13 16 00-0774 EA 4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	458.55 26.78	59.41
22 13 16 00-0775 Acrylonitrile Butadiene Styrene (ABS) DWV Wyes (22 13 16 00-0730)		
22 13 16 00-0776 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	82.18 11.53	25.62
22 13 16 00-0777 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	94.10 14.75	32.79
22 13 16 00-0778 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	165.52 19.83	44.07
22 13 16 00-0779 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	262.10 23.06	51.24
22 13 16 00-0780 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	779.65 29.97	66.51
22 13 16 00-0781 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes (22 13 16 00-0730)		
22 13 16 00-0782 EA 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	120.08 12.60	27.97
22 13 16 00-0783 EA 2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	122.87 13.68	30.33
22 13 16 00-0784 EA 3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	137.73 18.14	40.27
22 13 16 00-0785 EA 4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	216.48 20.29	45.08
22 13 16 00-0786 EA 4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	247.16 21.98	48.78
22 13 16 00-0787 EA 6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	653.82 27.67	61.38
22 13 16 00-0788 Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes (22 13 16 00-0730)		
22 13 16 00-0789 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	144.30 15.37	34.12
22 13 16 00-0790 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	185.28 19.67	43.65
22 13 16 00-0791 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	397.59 26.44	58.72
22 13 16 00-0792 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	729.35 30.74	68.25
22 13 16 00-0793 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Wyes (22 13 16 00-0730)		
22 13 16 00-0794 EA 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	167.73 17.52	38.94
22 13 16 00-0795 EA 3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	287.96 20.90	46.42
22 13 16 00-0796 EA 3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	306.61 23.06	51.24
22 13 16 00-0797 EA 4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	459.88 25.21	55.95
22 13 16 00-0798 EA 4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	591.75 28.59	63.43
22 13 16 00-0799 Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bend (22 13 16 00-0730)		
22 13 16 00-0800 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	108.31 11.53	25.62
22 13 16 00-0801 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	140.01 14.75	32.79
22 13 16 00-0802 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	215.75 19.83	44.07
22 13 16 00-0803 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	365.78 21.59	47.99



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0804				Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Combination Wye And 1/8 Bend <small>(22 13 16 00-0730)</small>		
22 13 16 00-0805	EA			2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	119.16	30.33
				<i>For Work In Restricted Working Space, Add</i>	13.68	
22 13 16 00-0806	EA			3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	231.05	37.92
				<i>For Work In Restricted Working Space, Add</i>	17.06	
22 13 16 00-0807	EA			3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	169.31	40.27
				<i>For Work In Restricted Working Space, Add</i>	18.14	
22 13 16 00-0808	EA			4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	310.10	45.08
				<i>For Work In Restricted Working Space, Add</i>	20.29	
22 13 16 00-0809	EA			4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends.....	335.81	48.78
				<i>For Work In Restricted Working Space, Add</i>	21.98	
22 13 16 00-0810				Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bend <small>(22 13 16 00-0730)</small>		
22 13 16 00-0811	EA			2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends.....	230.02	43.65
				<i>For Work In Restricted Working Space, Add</i>	19.67	
22 13 16 00-0812	EA			3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends.....	467.40	58.72
				<i>For Work In Restricted Working Space, Add</i>	26.44	
22 13 16 00-0813				Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Combination Wye And 1/8 Bend <small>(22 13 16 00-0730)</small>		
22 13 16 00-0814	EA			2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends.....	190.73	38.94
				<i>For Work In Restricted Working Space, Add</i>	17.52	
22 13 16 00-0815	EA			3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends.....	449.66	51.24
				<i>For Work In Restricted Working Space, Add</i>	23.06	
22 13 16 00-0816				Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <small>(22 13 16 00-0730)</small>		
22 13 16 00-0817	EA			1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug.....	120.63	25.62
				<i>For Work In Restricted Working Space, Add</i>	11.53	
22 13 16 00-0818	EA			2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug.....	152.32	32.79
				<i>For Work In Restricted Working Space, Add</i>	14.75	
22 13 16 00-0819	EA			3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug.....	243.27	44.07
				<i>For Work In Restricted Working Space, Add</i>	19.83	
22 13 16 00-0820	EA			4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug.....	408.05	51.24
				<i>For Work In Restricted Working Space, Add</i>	23.06	
22 13 16 00-0821				Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <small>(22 13 16 00-0730)</small>		
22 13 16 00-0822	EA			1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	53.80	17.11
				<i>For Work In Restricted Working Space, Add</i>	7.69	
22 13 16 00-0823	EA			2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	78.27	21.83
				<i>For Work In Restricted Working Space, Add</i>	9.84	
22 13 16 00-0824	EA			3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	113.96	29.30
				<i>For Work In Restricted Working Space, Add</i>	13.22	
22 13 16 00-0825	EA			4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	215.79	34.12
				<i>For Work In Restricted Working Space, Add</i>	15.37	
22 13 16 00-0826	EA			6" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	518.35	44.37
				<i>For Work In Restricted Working Space, Add</i>	19.98	
22 13 16 00-0827				Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <small>(22 13 16 00-0730)</small>		
22 13 16 00-0828	EA			1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	35.33	17.11
				<i>For Work In Restricted Working Space, Add</i>	7.69	
22 13 16 00-0829	EA			2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	43.03	21.83
				<i>For Work In Restricted Working Space, Add</i>	9.84	
22 13 16 00-0830	EA			3" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	71.93	29.30
				<i>For Work In Restricted Working Space, Add</i>	13.22	
22 13 16 00-0831	EA			4" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	97.17	34.12
				<i>For Work In Restricted Working Space, Add</i>	15.37	
22 13 16 00-0832	EA			6" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	293.65	44.37
				<i>For Work In Restricted Working Space, Add</i>	19.98	
22 13 16 00-0833				Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <small>(22 13 16 00-0730)</small>		
22 13 16 00-0834	EA			2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers.....	53.82	19.47
				<i>For Work In Restricted Working Space, Add</i>	8.76	
22 13 16 00-0835	EA			3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers.....	112.92	23.16
				<i>For Work In Restricted Working Space, Add</i>	10.46	
22 13 16 00-0836	EA			3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers.....	103.88	25.62
				<i>For Work In Restricted Working Space, Add</i>	11.53	
22 13 16 00-0837	EA			4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers.....	171.13	27.97
				<i>For Work In Restricted Working Space, Add</i>	12.60	
22 13 16 00-0838	EA			4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers.....	182.74	31.76
				<i>For Work In Restricted Working Space, Add</i>	14.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0839 Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps (22 13 16 00-0730)		
22 13 16 00-0840 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps.....	86.16	25.62
<i>For Work In Restricted Working Space, Add</i>	11.53	
22 13 16 00-0841 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps.....	126.45	32.79
<i>For Work In Restricted Working Space, Add</i>	14.75	
22 13 16 00-0842 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps.....	420.02	44.07
<i>For Work In Restricted Working Space, Add</i>	19.83	
22 13 16 00-0843 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps.....	801.97	51.24
<i>For Work In Restricted Working Space, Add</i>	23.06	
22 13 16 00-0844 Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges (22 13 16 00-0730)		
22 13 16 00-0845 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges.....	117.90	34.12
<i>For Work In Restricted Working Space, Add</i>	15.37	
22 13 16 00-0846 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges.....	110.17	31.76
<i>For Work In Restricted Working Space, Add</i>	14.30	
22 13 16 00-0847 Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters (22 13 16 00-0730)		
22 13 16 00-0848 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters.....	25.20	8.50
<i>For Work In Restricted Working Space, Add</i>	3.84	
22 13 16 00-0849 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters.....	38.36	10.96
<i>For Work In Restricted Working Space, Add</i>	4.92	
22 13 16 00-0850 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters.....	86.03	14.65
<i>For Work In Restricted Working Space, Add</i>	6.61	
22 13 16 00-0851 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters.....	167.21	17.11
<i>For Work In Restricted Working Space, Add</i>	7.69	
22 13 16 00-0852 Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushings (22 13 16 00-0730)		
22 13 16 00-0853 EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	39.44	19.47
<i>For Work In Restricted Working Space, Add</i>	8.76	
22 13 16 00-0854 EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	90.10	23.16
<i>For Work In Restricted Working Space, Add</i>	10.46	
22 13 16 00-0855 EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	73.53	25.62
<i>For Work In Restricted Working Space, Add</i>	11.53	
22 13 16 00-0856 EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	169.35	27.97
<i>For Work In Restricted Working Space, Add</i>	12.60	
22 13 16 00-0857 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	121.45	31.76
<i>For Work In Restricted Working Space, Add</i>	14.30	
22 13 16 00-0858 EA 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	344.55	36.76
<i>For Work In Restricted Working Space, Add</i>	16.55	
22 13 16 00-0859 Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Couplings (22 13 16 00-0730)		
22 13 16 00-0860 EA 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling.....	106.88	17.11
<i>For Work In Restricted Working Space, Add</i>	7.69	
22 13 16 00-0861 EA 2" x 2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling.....	119.47	21.83
<i>For Work In Restricted Working Space, Add</i>	9.84	
22 13 16 00-0862 EA 3" x 3" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling.....	136.17	29.30
<i>For Work In Restricted Working Space, Add</i>	13.22	
22 13 16 00-0863 EA 4" x 4" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling.....	148.76	34.12
<i>For Work In Restricted Working Space, Add</i>	15.37	
22 13 16 00-0864 Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe (22 13 16 00-0717)		
Note: In place piping.		
22 13 16 00-0865 EA 1-1/2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	7.51	
22 13 16 00-0866 EA 2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	8.26	
22 13 16 00-0867 EA 3", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	10.51	
22 13 16 00-0868 EA 4", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	14.19	
22 13 16 00-0869 EA 6", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	20.27	
22 13 16 00-0870 Elastomeric Flexible Pipe Couplings (22 13 16)		
22 13 16 00-0871 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Couplings (22 13 16 00-0870)		
Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0872 EA 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-125).....	12.79	4.45
<i>For Work In Restricted Working Space, Add</i>	2.67	
22 13 16 00-0873 EA 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150).....	13.77	4.73
<i>For Work In Restricted Working Space, Add</i>	2.84	
22 13 16 00-0874 EA 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22).....	14.48	5.01
<i>For Work In Restricted Working Space, Add</i>	3.00	
22 13 16 00-0875 EA 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33).....	16.63	5.29
<i>For Work In Restricted Working Space, Add</i>	3.17	
22 13 16 00-0876 EA 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44).....	18.70	5.56
<i>For Work In Restricted Working Space, Add</i>	3.34	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0877	EA			5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55) .....23.54 <i>For Work In Restricted Working Space, Add</i> 3.50		5.84
22 13 16 00-0878	EA			6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66) .....28.43 <i>For Work In Restricted Working Space, Add</i> 3.67		6.12
22 13 16 00-0879	EA			8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88) .....38.26 <i>For Work In Restricted Working Space, Add</i> 4.01		6.68
22 13 16 00-0880	EA			10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010) .....50.19 <i>For Work In Restricted Working Space, Add</i> 4.67		7.79
22 13 16 00-0881				Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Couplings ^(22 13 16 00-0870) Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0882	EA			1-1/2" x 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-150/125) 13.62 <i>For Work In Restricted Working Space, Add</i> 2.84		4.73
22 13 16 00-0883	EA			2" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-215) .....14.74 <i>For Work In Restricted Working Space, Add</i> 3.00		5.01
22 13 16 00-0884	EA			3" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-315) 17.87 <i>For Work In Restricted Working Space, Add</i> 3.17		5.29
22 13 16 00-0885	EA			3" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-32) 16.17 <i>For Work In Restricted Working Space, Add</i> 3.17		5.29
22 13 16 00-0886	EA			4" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-415) .....21.77 <i>For Work In Restricted Working Space, Add</i> 3.34		5.56
22 13 16 00-0887	EA			4" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-42) .....20.90 <i>For Work In Restricted Working Space, Add</i> 3.34		5.56
22 13 16 00-0888	EA			4" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-43) 19.28 <i>For Work In Restricted Working Space, Add</i> 3.34		5.56
22 13 16 00-0889	EA			5" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-53) .....27.34 <i>For Work In Restricted Working Space, Add</i> 3.50		5.84
22 13 16 00-0890	EA			5" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-54) .....24.87 <i>For Work In Restricted Working Space, Add</i> 3.50		5.84
22 13 16 00-0891	EA			6" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-63) .....33.54 <i>For Work In Restricted Working Space, Add</i> 3.67		6.12
22 13 16 00-0892	EA			6" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-64) .....29.84 <i>For Work In Restricted Working Space, Add</i> 3.67		6.12
22 13 16 00-0893	EA			6" x 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-65) .....30.87 <i>For Work In Restricted Working Space, Add</i> 3.67		6.12
22 13 16 00-0894	EA			8" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-84) .....60.36 <i>For Work In Restricted Working Space, Add</i> 6.68		11.13
22 13 16 00-0895	EA			8" x 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-86) .....50.10 <i>For Work In Restricted Working Space, Add</i> 6.68		11.13
22 13 16 00-0896	EA			10" x 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-10-8) .....62.95 <i>For Work In Restricted Working Space, Add</i> 7.51		12.52
22 13 16 00-0897				Elastomeric Flexible Pipe Caps (Fernco QC) ^(22 13 16) Note: For cast iron, steel, copper or plastic pipe. Includes stainless steel clamp.		
22 13 16 00-0898	EA			1-1/2" Elastomeric Flexible Pipe Cap (Fernco QC-101)..... 48.64		30.04
22 13 16 00-0899	EA			2" Elastomeric Flexible Pipe Cap (Fernco QC-102).....52.14		31.94
22 13 16 00-0900	EA			3" Elastomeric Flexible Pipe Cap (Fernco QC-103).....60.31		36.61
22 13 16 00-0901	EA			4" Elastomeric Flexible Pipe Cap (Fernco QC-104).....79.60		48.40
22 13 16 00-0902	EA			5" Elastomeric Flexible Pipe Cap (Fernco QC-105).....95.38		57.86
22 13 16 00-0903	EA			6" Elastomeric Flexible Pipe Cap (Fernco QC-106).....110.09		66.77
22 13 16 00-0904	EA			8" Elastomeric Flexible Pipe Cap (Fernco QC-108).....146.95		84.57
22 13 16 00-0905	EA			10" Elastomeric Flexible Pipe Cap (Fernco QC-110).....179.33		94.58
22 13 16 00-0906	EA			12" Elastomeric Flexible Pipe Cap (Fernco QC-112).....224.78		105.16
22 13 16 00-0907				Cast Iron Vent Stack Flashing Sleeves With Caulking Recess (Josam 26450 Series) ^(22 13 16)		
22 13 16 00-0908	EA			1-1/2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess 93.46		23.06
22 13 16 00-0909	EA			2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess 98.59		25.62
22 13 16 00-0910	EA			3" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess .....147.77		33.30
22 13 16 00-0911	EA			4" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess .....173.25		38.42
22 13 16 00-0912	EA			5" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess .....202.08		43.55
22 13 16 00-0913	EA			6" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess 340.84		48.67
22 13 16 00-0914				Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess (Josam 26440 Series) ^(22 13 16)		
22 13 16 00-0915	EA			1-1/2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....201.62		23.06
22 13 16 00-0916	EA			2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....206.75		25.62
22 13 16 00-0917	EA			3" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....245.37		33.30
22 13 16 00-0918	EA			4" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....307.44		38.42
22 13 16 00-0919	EA			5" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....421.36		43.55
22 13 16 00-0920	EA			6" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....431.61		48.67
22 13 16 00-0921				Cast Iron Vandal Proof Hooded Vent Cap (Josam 26700 Series) ^(22 13 16) Note: Includes counterflashing collar, deep protective hood and recessed securing screws.		

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0922	EA		1-1/2" Cast Iron Vandal Proof Hooded Vent Cap.....	387.49	23.06
22 13 16 00-0923	EA		2" Cast Iron Vandal Proof Hooded Vent Cap.....	392.62	25.62
22 13 16 00-0924	EA		3" Cast Iron Vandal Proof Hooded Vent Cap.....	450.66	33.30
22 13 16 00-0925	EA		4" Cast Iron Vandal Proof Hooded Vent Cap.....	507.14	38.42
22 13 16 00-0926	EA		5" Cast Iron Vandal Proof Hooded Vent Cap.....	592.07	43.55
22 13 16 00-0927	EA		6" Cast Iron Vandal Proof Hooded Vent Cap.....	646.77	48.67

22 13 19 Sanitary Waste Piping Specialties (22 13)

22 13 19 13 Sanitary Drains (22 13 19)

22 13 19 13-0001 Round Top Floor Drains (22 13 19 13)

22 13 19 13-0002	EA		Bronze Top, 6" Round Top Floor Drain With 1-1/2" Outlet.....	815.13	110.16
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0003	EA		Bronze Top, 6" Round Top Floor Drain With 2" Outlet.....	894.95	123.48
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0004	EA		Bronze Top, 6" Round Top Floor Drain With 3" Outlet.....	868.11	136.60
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0005	EA		Bronze Top, 6" Round Top Floor Drain With 4" Outlet.....	896.24	150.74
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0006	EA		Cast Iron Top, 9" Round Top Floor Drain With 2" Outlet.....	814.36	123.48
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3", Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
22 13 19 13-0007	EA		Cast Iron Top, 9" Round Top Floor Drain With 3" Outlet.....	840.70	136.60
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3", Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
22 13 19 13-0008	EA		Cast Iron Top, 9" Round Top Floor Drain With 4" Outlet.....	868.83	150.74
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3", Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
22 13 19 13-0009	EA		Nikaloy Top, 9" Round Top Floor Drain With 2" Outlet.....	1,379.06	123.48
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3", Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
22 13 19 13-0010	EA		Nikaloy Top, 9" Round Top Floor Drain With 3" Outlet.....	1,405.40	136.60
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3", Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
22 13 19 13-0011	EA		Nikaloy Top, 9" Round Top Floor Drain With 4" Outlet.....	1,433.53	150.74
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3", Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0012 EA Bronze Top, 9" Round Top Floor Drain With 2" Outlet.....	1,296.82	123.48
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0013 EA Bronze Top, 9" Round Top Floor Drain With 3" Outlet.....	1,323.01	136.60
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0014 EA Bronze Top, 9" Round Top Floor Drain With 4" Outlet.....	1,351.29	150.74
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0015 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 2" Outlet	1,428.28	123.38
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0016 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 3" Outlet	1,454.59	136.60
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0017 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 4" Outlet	1,482.87	150.74
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0018 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 2" Outlet.....	2,272.58	123.38
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0019 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 3" Outlet.....	2,298.89	136.60
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	
22 13 19 13-0020 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 4" Outlet.....	2,327.17	150.74
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0021	EA		Bronze Top, 12-5/8" Round Top Floor Drain With 2" Outlet.....	2,160.19	123.38
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Chained Grate, Add</i>	48.50	
22 13 19 13-0022	EA		Bronze Top, 12-5/8" Round Top Floor Drain With 3" Outlet.....	2,186.50	136.60
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Chained Grate, Add</i>	48.50	
22 13 19 13-0023	EA		Bronze Top, 12-5/8" Round Top Floor Drain With 4" Outlet.....	2,214.78	150.74
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Chained Grate, Add</i>	48.50	
22 13 19 13-0024			Square Or Rectangular Top Drains <small>(22 13 19 13)</small>		
22 13 19 13-0025	EA		5" x 5" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	970.49	123.38
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0026	EA		5" x 5" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	997.09	136.70
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0027	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,025.08	150.74
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0028	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,052.73	123.38
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0029	EA		6" x 6" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,079.33	136.70
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0030	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,107.32	150.74
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0031	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,414.57	123.38
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0032	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,441.17	136.70
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0033	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,469.16	150.74
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0034	EA		5" x 5" Floor Drain With 2" Bottom Outlet, Bronze Top.....	910.18	123.38
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0035	EA		5" x 5" Floor Drain With 3" Bottom Outlet, Bronze Top.....	936.78	136.70
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0036	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Bronze Top.....	964.77	150.74
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0037	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,014.35	123.38
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0038 EA 6" x 6" Floor Drain With 3" Bottom Outlet, Bronze Top..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	1,040.95 11.00 105.00 22.50	136.70
22 13 19 13-0039 EA 6" x 6" Floor Drain With 4" Bottom Outlet, Bronze Top..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	1,068.94 11.00 105.00 22.50	150.74
22 13 19 13-0040 EA 8" x 8" Floor Drain With 2" Bottom Outlet, Bronze Top..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	1,307.66 11.00 105.00 22.50	123.38
22 13 19 13-0041 EA 8" x 8" Floor Drain With 3" Bottom Outlet, Bronze Top..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	1,334.26 11.00 105.00 22.50	136.70
22 13 19 13-0042 EA 8" x 8" Floor Drain With 4" Bottom Outlet, Bronze Top..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i>	1,362.25 11.00 105.00 22.50	150.74
22 13 19 13-0043 EA 12" x 12" Can Wash Drain With 3" Bottom Outlet, Cast Iron Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	3,450.51 318.00 48.50 76.00	136.70
22 13 19 13-0044 EA 12" x 12" Can Wash Drain With 4" Bottom Outlet, Cast Iron Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	3,478.50 318.00 48.50 76.00	150.74
22 13 19 13-0045 EA 12" x 12" Can Wash Drain With 3" Bottom Outlet, Nikaloy Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	4,344.16 318.00 48.50 76.00	136.70
22 13 19 13-0046 EA 12" x 12" Can Wash Drain With 4" Bottom Outlet, Nikaloy Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	4,372.15 318.00 48.50 76.00	150.74
22 13 19 13-0047 EA 12" x 12" Can Wash Drain With 3" Bottom Outlet, Bronze Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	4,237.25 318.00 48.50 76.00	136.70
22 13 19 13-0048 EA 12" x 12" Can Wash Drain With 4" Bottom Outlet, Bronze Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i>	4,265.24 318.00 48.50 76.00	150.74
22 13 19 13-0049 EA 5" x 9" Floor Drain With 2" Bottom Outlet, Nikaloy Top..... <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,436.50 11.00 120.94 22.50	123.38
22 13 19 13-0050 EA 5" x 9" Floor Drain With 3" Bottom Outlet, Nikaloy Top..... <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,463.10 11.00 120.94 22.50	136.70
22 13 19 13-0051 EA 5" x 9" Floor Drain With 4" Bottom Outlet, Nikaloy Top..... <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,491.09 11.00 120.94 22.50	150.74
22 13 19 13-0052 EA 5" x 13" Floor Drain With 2" Bottom Outlet, Nikaloy Top..... <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,861.40 11.00 120.94 22.50	123.38
22 13 19 13-0053 EA 5" x 13" Floor Drain With 3" Bottom Outlet, Nikaloy Top..... <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,888.00 11.00 120.94 22.50	136.70
22 13 19 13-0054 EA 5" x 13" Floor Drain With 4" Bottom Outlet, Nikaloy Top..... <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,915.99 11.00 120.94 22.50	150.74
22 13 19 13-0055 EA 5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Nikaloy Top..... <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,960.08 11.00 120.94 22.50	123.38
22 13 19 13-0056 EA 5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Nikaloy Top..... <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	1,986.68 11.00 120.94 22.50	136.70
22 13 19 13-0057 EA 5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Nikaloy Top..... <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	2,014.67 11.00 120.94 22.50	150.74
22 13 19 13-0058 EA 5" x 21" Floor Drain With 2" Bottom Outlet, Nikaloy Top..... <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i> <i>For Sediment Bucket, Add</i>	2,724.89 11.00 120.94 22.50	123.38



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0059	EA		5" x 21" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	2,751.49	136.70
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0060	EA		5" x 21" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	2,779.48	150.74
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0061	EA		5" x 9" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,348.78	123.38
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0062	EA		5" x 9" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,375.38	136.70
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0063	EA		5" x 9" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,403.37	150.74
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0064	EA		5" x 13" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,710.63	123.38
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0065	EA		5" x 13" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,737.23	136.70
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0066	EA		5" x 13" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,765.22	150.74
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0067	EA		5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,809.31	123.38
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0068	EA		5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,835.91	136.70
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0069	EA		5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,863.90	150.74
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0070	EA		5" x 21" Floor Drain With 2" Bottom Outlet, Bronze Top.....	2,431.58	123.38
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0071	EA		5" x 21" Floor Drain With 3" Bottom Outlet, Bronze Top.....	2,458.18	136.70
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0072	EA		5" x 21" Floor Drain With 4" Bottom Outlet, Bronze Top.....	2,486.17	150.74
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
			<i>For Sediment Bucket, Add</i>	22.50	
22 13 19 13-0073			Funnel Type Floor Drains <small>(22 13 19 13)</small>		
22 13 19 13-0074	EA		7" Diameter Floor Drain With 4" Round Funnel With 1-1/2" Outlet, Bronze Top.....	1,357.99	110.16
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0075	EA		7" Diameter Floor Drain With 4" Round Funnel With 2" Outlet, Bronze Top.....	1,384.42	123.38
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0076	EA		7" Diameter Floor Drain With 4" Round Funnel With 3" Outlet, Bronze Top.....	1,410.73	136.60
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0077	EA		7" Diameter Floor Drain With 4" Round Funnel With 4" Outlet, Bronze Top.....	1,439.01	150.74
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0078	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Nikaloy Top.....	2,001.20	123.38
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Primer Tap, Add</i>	15.10	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
22 13 19 13-0079	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Nikaloy Top.....	2,027.51	136.60
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Primer Tap, Add</i>	15.10	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 13 19 13-0080	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Nikaloy Top.....	2,055.79	150.74
				<i>For Vandal Proof Screws, Add</i>	11.00	
				<i>For Primer Tap, Add</i>	15.10	
				<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
				<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
	22 13 19 13-0081	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Bronze Top.....	1,894.29	123.38
				<i>For Vandal Proof Screws, Add</i>	11.00	
				<i>For Primer Tap, Add</i>	15.10	
				<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
				<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
	22 13 19 13-0082	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Bronze Top.....	1,920.60	136.60
				<i>For Vandal Proof Screws, Add</i>	11.00	
				<i>For Primer Tap, Add</i>	15.10	
				<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
				<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
	22 13 19 13-0083	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Bronze Top.....	1,948.88	150.74
				<i>For Vandal Proof Screws, Add</i>	11.00	
				<i>For Primer Tap, Add</i>	15.10	
				<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
				<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
	22 13 19 13-0084			Floor Drain With Sediment Bucket Bottom Outlet <small>(22 13 19 13)</small>		
	22 13 19 13-0085	EA		12-5/8" Round Floor Drain With Sediment Bucket, 2" Bottom Outlet, Satin Bronze Top, Without Trap.....	2,925.89	110.16
				<i>For Vandal Proof Screws, Add</i>	30.50	
				<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
				<i>For Primer Tap, Add</i>	33.50	
	22 13 19 13-0086	EA		12-5/8" Round Floor Drain With Sediment Bucket, 3" Bottom Outlet, Satin Bronze Top, Without Trap.....	2,952.41	123.38
				<i>For Vandal Proof Screws, Add</i>	30.50	
				<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
				<i>For Primer Tap, Add</i>	33.50	
	22 13 19 13-0087	EA		12-5/8" Round Floor Drain With Sediment Bucket, 4" Bottom Outlet, Satin Bronze Top, Without Trap.....	2,978.72	136.60
				<i>For Vandal Proof Screws, Add</i>	30.50	
				<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
				<i>For Primer Tap, Add</i>	33.50	
	22 13 19 13-0088	EA		12-5/8" Round Floor Drain With Sediment Bucket, 5" Bottom Outlet, Satin Bronze Top, Without Trap.....	3,007.00	150.74
				<i>For Vandal Proof Screws, Add</i>	30.50	
				<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
				<i>For Primer Tap, Add</i>	33.50	
	22 13 19 13-0089	EA		12-5/8" Round Floor Drain With Sediment Bucket, 6" Bottom Outlet, Satin Bronze Top, Without Trap.....	3,036.17	165.29
				<i>For Vandal Proof Screws, Add</i>	30.50	
				<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
				<i>For Primer Tap, Add</i>	33.50	
	22 13 19 13-0090	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate.....	3,160.75	123.38
				<i>For Vandal Proof Screws, Add</i>	29.50	
				<i>For Primer Tap, Add</i>	31.00	
				<i>For Aluminum Bucket, Add</i>	77.50	
				<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
	22 13 19 13-0091	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate.....	3,187.35	136.70
				<i>For Vandal Proof Screws, Add</i>	29.50	
				<i>For Primer Tap, Add</i>	31.00	
				<i>For Aluminum Bucket, Add</i>	77.50	
				<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
	22 13 19 13-0092	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate.....	3,215.34	150.74
				<i>For Vandal Proof Screws, Add</i>	29.50	
				<i>For Primer Tap, Add</i>	31.00	
				<i>For Aluminum Bucket, Add</i>	77.50	
				<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
	22 13 19 13-0093	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate.....	3,244.51	165.29
				<i>For Vandal Proof Screws, Add</i>	29.50	
				<i>For Primer Tap, Add</i>	31.00	
				<i>For Aluminum Bucket, Add</i>	77.50	
				<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
	22 13 19 13-0094	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	1,924.44	123.38
				<i>For Vandal Proof Screws, Add</i>	29.50	
				<i>For Primer Tap, Add</i>	31.00	
				<i>For Aluminum Bucket, Add</i>	77.50	
				<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
	22 13 19 13-0095	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	1,951.04	136.70
				<i>For Vandal Proof Screws, Add</i>	29.50	
				<i>For Primer Tap, Add</i>	31.00	
				<i>For Aluminum Bucket, Add</i>	77.50	
				<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
	22 13 19 13-0096	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	1,979.03	150.74
				<i>For Vandal Proof Screws, Add</i>	29.50	
				<i>For Primer Tap, Add</i>	31.00	
				<i>For Aluminum Bucket, Add</i>	77.50	
				<i>For Galvanized Cast Iron Parts, Add</i>	273.75	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0097	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,008.20	165.29
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0098	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,946.93	123.38
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0099	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,973.53	136.70
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0100	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	3,001.52	150.74
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0101	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	3,030.69	165.29
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0102			Other Drains (22 13 19 13)		
22 13 19 13-0103			Shower Drains (22 13 19 13-0102)		
22 13 19 13-0104	EA		4-1/4" Stainless Steel Shower Drain Strainer.....	48.20	11.13
			Note: Includes two 2-5/8" screws.		
22 13 19 13-0105	EA		4-1/4" Brass Shower Drain Strainer.....	53.70	11.13
			Note: Includes two 2-5/8" screws.		
22 13 19 13-0106	EA		4" Brass Shower Drain For Polyvinyl Chloride (PVC) Pipe.....	110.77	22.26
			Note: Fits over 2" polyvinyl chloride (PVC) pipe or inside 3" polyvinyl chloride (PVC) pipe.		
22 13 19 13-0107	EA		4" Chrome Finish, Threaded Brass Shower Drain And Gasket.....	142.42	22.26
			Note: For 2" pipe. Kohler K-9132.		
22 13 19 13-0108			Acid Resistant Floor Drains (22 13 19 13-0102)		
22 13 19 13-0109	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Acid Resistant Top.....	1,368.86	110.16
			For Vandal Proof Screws, Add	30.50	
			For Galvanized Cast Iron Parts, Add	87.50	
			For Primer Tap, Add	33.50	
22 13 19 13-0110	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Acid Resistant Top.....	1,395.38	123.38
			For Vandal Proof Screws, Add	30.50	
			For Galvanized Cast Iron Parts, Add	87.50	
			For Primer Tap, Add	33.50	
22 13 19 13-0111	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Acid Resistant Top.....	1,421.69	136.60
			For Vandal Proof Screws, Add	30.50	
			For Galvanized Cast Iron Parts, Add	87.50	
			For Primer Tap, Add	33.50	
22 13 19 13-0112			Rotary And Lever Drains (22 13 19 13-0102)		
22 13 19 13-0113	EA		1-1/2" Drain, 3" Sink Opening Lever Drain.....	246.83	74.30
22 13 19 13-0114	EA		2" Drain, 3" Sink Opening Lever Drain.....	262.20	81.97
22 13 19 13-0115	EA		1-1/2" Drain, 3-1/2" Sink Opening Lever Drain.....	246.83	74.30
22 13 19 13-0116	EA		2" Drain, 3-1/2" Sink Opening Lever Drain.....	262.20	81.97
22 13 19 13-0117	EA		1-1/2" Drain, 3" Sink Opening Twist Drain.....	246.83	74.30
22 13 19 13-0118	EA		2" Drain, 3" Sink Opening Twist Drain.....	262.20	81.97
22 13 19 13-0119	EA		1-1/2" Drain, 3-1/2" Sink Opening Twist Drain.....	246.83	74.30
22 13 19 13-0120	EA		2" Drain, 3-1/2" Sink Opening Twist Drain.....	262.20	81.97
22 13 19 13-0121	EA		1-1/2"-2" Drain, 3-1/2" Sink Opening Rotary Twist Drain (Fisher 16100).....	338.01	81.97
22 13 19 13-0122			Floor Receptor (22 13 19 13)		
22 13 19 13-0123			9" Diameter Round Shallow Receptor (22 13 19 13-0122)		
			Note: With slotted medium duty grate, aluminum secondary strainer and white acid resisting coated interior and top.		
22 13 19 13-0124	EA		9" Diameter x 3" Shallow Cast Iron Floor Receptor, 2" Drain Connection.....	1,683.39	123.48
			For Flange With Seepage Holes, Add	58.50	
			For Flange With Seepage Holes And Clamp Collar, Add	97.00	
			For Trap Primer Connection, Add	38.00	
			For Full Grate With 2" Square Center Opening, Add	36.00	
			For Vandal Proof Secured Grate, Add	33.50	
			For White Acid Resistant Bucket, Add	47.00	
			For Stainless Steel Liner For Bucket, Add	62.50	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19	13-0125	EA	9" Diameter x 3" Shallow Cast Iron Floor Receptor, 3" Drain Connection <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	1,710.11 58.50 97.00 38.00 36.00 33.50 47.00 62.50	136.80
22 13 19	13-0126	EA	9" Diameter x 3" Shallow Cast Iron Floor Receptor, 4" Drain Connection <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	1,737.81 58.50 97.00 38.00 36.00 33.50 47.00 62.50	150.74
22 13 19 13-0127 Square Top Floor Receptors <small>(22 13 19 13-0122)</small>					
Note: With acid resistant coating.					
22 13 19	13-0128	EA	8" x 8" Floor Drain With 1-1/2" Bottom Outlet, Acid Resistant Top <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	1,996.70 37.50 69.00 39.50 36.00 15.50 88.00 97.00	110.16
22 13 19	13-0129	EA	8" x 8" Floor Drain With 2" Bottom Outlet, Acid Resistant Top..... <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	2,023.25 37.50 69.00 39.50 36.00 15.50 88.00 97.00	123.48
22 13 19	13-0130	EA	8" x 8" Floor Drain With 3" Bottom Outlet, Acid Resistant Top..... <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	2,049.44 37.50 69.00 39.50 36.00 15.50 88.00 97.00	136.60
22 13 19	13-0131	EA	8" x 8" Floor Drain With 4" Bottom Outlet, Acid Resistant Top..... <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	2,077.72 37.50 69.00 39.50 36.00 15.50 88.00 97.00	150.74
22 13 19 13-0132 Floor Drain Accessories <small>(22 13 19 13)</small>					
22 13 19	13-0133	EA	3" Trap Guard Floor Drain Insert (ProVent TG3H)..... Note: Prevents emission of sewer gases.	103.80	12.81
22 13 19	13-0134	EA	2" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG22) Note: Prevents emission of sewer gases.	84.25	12.81
22 13 19	13-0135	EA	3" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG33) Note: Prevents emission of sewer gases.	92.07	12.81
22 13 19	13-0136	EA	3" Trap Guard Drain Insert For 4" Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG34IP)..... Note: Prevents emission of sewer gases.	111.61	12.81
22 13 19	13-0137	EA	3" Trap Guard Drain Insert For 4" Hub (ProVent TG34TP)..... Note: Prevents emission of sewer gases.	99.89	12.81
22 13 19	13-0138	EA	2" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-02) Note: Prevents emission of sewer gases.	143.18	12.81
22 13 19	13-0139	EA	3" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-03) Note: Prevents emission of sewer gases.	158.92	12.81
22 13 19	13-0140	EA	4" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-04) Note: Prevents emission of sewer gases.	197.98	12.81
22 13 19 26 Grease Removal Devices <small>(22 13 19)</small>					
22 13 19	26-0001		Manual Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26)</small> Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval and flow control fitting.		
22 13 19	26-0002		Standard Manual Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26-0001)</small> Note: Josam 60100H/60210A, Smith 8100/8400, Wade 5100, or Zurn Z1173/Z1170 series.		
22 13 19	26-0003	EA	7 GPM, 14 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60102H. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,211.76 1,312.11	76.86

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0004	EA		10 GPM, 20 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60103H. <i>For Flange And Clamp Device, Add</i> <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,413.63 375.45 1,386.37	172.93
22 13 19 26-0005	EA		15 GPM, 30 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60104H. <i>For Flange And Clamp Device, Add</i> <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	2,007.81 388.25 1,514.06	192.13
22 13 19 26-0006	EA		20 GPM, 40 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60105H. <i>For Flange And Clamp Device, Add</i> <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	2,425.76 401.06 1,636.31	211.35
22 13 19 26-0007	EA		25 GPM, 50 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60106H. <i>For Flange And Clamp Device, Add</i> <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	2,716.09 444.27 1,703.85	230.57
22 13 19 26-0008	EA		35 GPM, 70 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60107H. <i>For Flange And Clamp Device, Add</i> <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	3,335.89 481.09 1,874.75	268.99
22 13 19 26-0009	EA		50 GPM, 100 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60108H. <i>For Flange And Clamp Device, Add</i> <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	4,352.76 547.67 1,998.62	307.42
22 13 19 26-0010	EA		75 GPM, 150 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60109H. <i>For Flange And Clamp Device, Add</i>	8,564.29 774.56	345.84
22 13 19 26-0011	EA		100 GPM, 200 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60110H. <i>For Flange And Clamp Device, Add</i>	9,696.42 898.18	435.26
22 13 19 26-0012	EA		150 GPM, 300 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60213A. <i>For Flange And Clamp Device, Add</i>	11,961.71 1,232.29	696.43
22 13 19 26-0013	EA		200 GPM, 400 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60214A. <i>For Flange And Clamp Device, Add</i>	17,166.50 1,477.64	870.54
22 13 19 26-0014	EA		250 GPM, 500 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60215A. <i>For Flange And Clamp Device, Add</i>	20,024.73 1,906.67	1,044.64
22 13 19 26-0015	EA		350 GPM, 700 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60216A. <i>For Flange And Clamp Device, Add</i>	26,020.94 2,260.50	1,218.75
22 13 19 26-0016	EA		500 GPM, 1,000 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60217A. <i>For Flange And Clamp Device, Add</i>	33,666.80 2,649.85	1,392.85
22 13 19 26-0017			Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26-0001)</small> Note: Josam 60110A, Smith 8100, Wade 5100LR, or Zurn Z1171 series.		
22 13 19 26-0018	EA		20 GPM, 40 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60115A.	3,495.38	211.35
22 13 19 26-0019	EA		35 GPM, 70 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60117A.	4,496.67	268.99
22 13 19 26-0020	EA		50 GPM, 100 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Smith 8150.	7,421.16	307.42
22 13 19 26-0021			Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26)</small> Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval, grease recovery cone, flexible hose, grease draw off valve and flow control fitting.		
22 13 19 26-0022			Standard Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26-0021)</small> Note: Josam 60100-SA, Smith 8300GTX, Wade 5100JCX, or Zurn Z1173-TD series.		
22 13 19 26-0023	EA		7 GPM, 14 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60102-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	3,072.79 1,312.11	76.86
22 13 19 26-0024	EA		10 GPM, 20 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60103-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	3,613.64 1,386.37	172.93
22 13 19 26-0025	EA		15 GPM, 30 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60104-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	3,860.74 1,514.06	192.13
22 13 19 26-0026	EA		20 GPM, 40 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60105-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	4,712.21 1,636.31	211.35
22 13 19 26-0027	EA		25 GPM, 50 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60106-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	5,681.17 1,703.85	230.57
22 13 19 26-0028	EA		35 GPM, 70 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60107-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	5,873.53 1,874.75	268.99
22 13 19 26-0029	EA		50 GPM, 100 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60108-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	6,704.70 1,998.62	307.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0030 Low Profile Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26-0021)</small>		
<small>Note: Josam 60115A-SA, Smith 8100GTX, or Zurn Z1171-TD series.</small>		
22 13 19 26-0031 EA 35 GPM, 70 LB Capacity Low Profile Semi Automatic Epoxy Coated Steel Grease Interceptor	7,893.92	268.99
<small>Note: Josam 60115A-SA.</small>		
22 13 19 26-0032 Automatic Cleaning Stainless Steel Grease Interceptor <small>(22 13 19 26)</small>		
22 13 19 26-0033 EA 20 GPM, 69 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor	6,722.34	211.35
<small>Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 20 Greasestopper).</small>		
22 13 19 26-0034 EA 25 GPM, 91 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor	7,819.55	230.57
<small>Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 25 Greasestopper).</small>		
22 13 19 26-0035 EA 35 GPM, 70 LB Capacity, 110 Volt, Automatic Cleaning Stainless Steel Grease Trap/Removal Device (Guardian GGX35)	6,711.55	268.99
22 13 19 26-0036 Precast Concrete Grease Interceptor <small>(22 13 19 26)</small>		
<small>Note: Includes two access manholes, cast iron non-skid surface, lift hole, frame and cover for heavy-traffic.</small>		
22 13 19 26-0037 EA 1,000 Gallon Pre-Cast Grease Interceptor	5,241.51	391.49
22 13 19 26-0038 EA 1,250 Gallon Pre-Cast Grease Interceptor	5,995.94	391.49
22 13 19 26-0039 EA 1,500 Gallon Pre-Cast Grease Interceptor	6,805.35	447.57
22 13 19 26-0040 EA 2,000 Gallon Pre-Cast Grease Interceptor	7,746.60	632.08
22 13 19 26-0041 EA 2,500 Gallon Pre-Cast Grease Interceptor	8,724.76	850.41
22 13 19 26-0042 EA 4,000 Gallon Pre-Cast Grease Interceptor	13,083.26	1,118.86
22 13 19 26-0043 EA 5,000 Gallon Pre-Cast Grease Interceptor	16,804.19	1,834.77
22 13 19 26-0044 Coated Steel Manual Oil Interceptor <small>(22 13 19 26)</small>		
<small>Note: Includes internal air relief, and flow control fitting.</small>		
22 13 19 26-0045 EA 10 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	4,344.59	292.65
22 13 19 26-0046 EA 15 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	5,853.51	347.74
22 13 19 26-0047 EA 20 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	7,088.02	427.86
22 13 19 26-0048 EA 25 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	7,697.83	463.46
22 13 19 26-0049 EA 35 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	9,241.30	505.74
22 13 19 26-0050 EA 50 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	12,184.24	556.37
22 13 19 26-0051 EA 75 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	20,455.87	640.46
22 13 19 26-0052 EA 100 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	22,363.37	788.01
22 13 19 26-0053 EA 150 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	27,459.23	854.11
22 13 19 26-0054 EA 200 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	38,432.10	1,024.72
22 13 19 26-0055 EA 250 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	44,336.19	1,101.58
22 13 19 26-0056 EA 350 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	55,859.56	1,313.70
22 13 19 26-0057 EA 400 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	67,457.79	1,076.48
22 13 19 26-0058 EA 500 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	79,911.17	1,280.91
22 13 19 33 Backwater Valves <small>(22 13 19)</small>		
22 13 19 33-0001 Cast Iron Body Terminal Backwater Valves <small>(22 13 19 33)</small>		
22 13 19 33-0002 EA 2" Cast Iron Body Terminal Backwater Valve	344.84	29.41
22 13 19 33-0003 EA 3" Cast Iron Body Terminal Backwater Valve	356.10	36.99
22 13 19 33-0004 EA 4" Cast Iron Body Terminal Backwater Valve	512.16	49.18
22 13 19 33-0005 EA 6" Cast Iron Body Terminal Backwater Valve	1,353.60	67.09
22 13 19 33-0006 EA 8" Cast Iron Body Terminal Backwater Valve	1,657.33	88.29
22 13 19 33-0007 EA 10" Cast Iron Body Terminal Backwater Valve	4,746.73	108.93
22 13 19 33-0008 EA 12" Cast Iron Body Terminal Backwater Valve	5,383.12	141.27
22 13 19 33-0009 Cast Iron Backwater Sewer Line Valve <small>(22 13 19 33)</small>		
<small>Note: Offset type with bronze swing check assembly, threaded bronze cover, and bell and spigot connections.</small>		
22 13 19 33-0010 EA 2" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	860.60	70.10
22 13 19 33-0011 EA 3" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,301.22	85.05
22 13 19 33-0012 EA 4" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,611.86	109.65
22 13 19 33-0013 EA 6" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	2,243.25	121.89
22 13 19 33-0014 EA 8" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	3,098.12	144.43
22 13 19 33-0015 Cast Iron, Straight Through Shear Gate, Swing Check Backwater Valve <small>(22 13 19 33)</small>		
<small>Note: Offset type with bronze, manually operated shear gate, non-rising stem, and bell and spigot connections.</small>		
22 13 19 33-0016 EA 3" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	2,285.56	110.98
22 13 19 33-0017 EA 4" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	2,340.48	147.56
22 13 19 33-0018 EA 5" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	3,391.41	180.52
22 13 19 33-0019 EA 6" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	3,422.79	201.25
22 13 19 33-0020 Polyvinyl Chloride (PVC) Backwater Sewer Line Valve <small>(22 13 19 33)</small>		
<small>Note: Oatey.</small>		
22 13 19 33-0021 EA 3" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43900)	131.86	36.99



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 33-0022 EA 4" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43904).....	158.04	49.18
22 13 19 33-0023 EA 6" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43908).....	459.85	67.09
22 13 19 33-0024 Polyvinyl Chloride (PVC) Extendable Backwater Valves <small>(22 13 19 33)</small>		
22 13 19 33-0025 EA 3" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check)..... Note: Includes valve body, flapper assembly and collar.	310.91	73.98
22 13 19 33-0026 EA 4" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check)..... Note: Includes valve body, flapper assembly and collar.	414.01	98.37
22 13 19 33-0027 EA 6" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check)..... Note: Includes valve body, flapper assembly and collar.	711.35	134.17
22 13 19 36 Air-Admittance Valves <small>(22 13 19)</small>		
22 13 19 36-0001 Acrylonitrile Butadiene Styrene (ABS) And Polyvinyl Chloride (PVC) Automatic Drain Vent <small>(22 13 19 36)</small>		
22 13 19 36-0002 EA 1-1/4", 1-1/2" And 2" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Mini Vent.....	142.58	14.35
22 13 19 36-0003 EA 2", 3" And 4" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Maxi Vent.....	169.00	14.35
22 13 23 Sanitary Waste Interceptors <small>(22 13)</small>		
22 13 23 00-0001 Sediment Bucket Solids Interceptors <small>(22 13 23)</small>		
22 13 23 00-0002 EA 1-1/2" Or 2" Top Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1180).....	1,192.50	145.11
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0003 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1184).....	1,193.99	145.11
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0004 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Steel (Inside And Outside), Aluminum Cover, Removable Stainless Steel Sediment Bucket Solids Interceptor (Jay R. Smith 8714 ARI0).....	1,678.33	145.11
Note: On floor mount. Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0005 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Acid Resistant Coated Cast Iron, Aluminum Strainer, Removable Stainless Steel Screens, Sediment Bucket Solids Interceptor (Jay R. Smith 8730-AR10).....	1,678.33	145.11
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0006 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Cast Aluminum (Inside And Outside) Removable Stainless Steel Screen, Sediment Bucket Solids Interceptor (Josam 61030).....	1,787.98	145.11
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0007 Solid Interceptors, Cast Iron With Internal Deep Seal Trap <small>(22 13 23)</small>		
22 13 23 00-0008 EA 1-1/2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	321.80	49.63
For Stainless Steel Bucket, Add	175.00	
22 13 23 00-0009 EA 2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	328.14	52.86
For Stainless Steel Bucket, Add	175.00	
22 13 23 00-0010 Sediment Strainers <small>(22 13 23)</small>		
22 13 23 00-0011 EA 2" Strainer, Pump Suction Side.....	155.39	67.61
22 13 29 Sanitary Sewerage Pumps <small>(22 13)</small>		
Note: Includes extra set of gaskets, bearings and seals.		
22 13 29 13 Wet-Pit-Mounted, Vertical Sewerage Pumps <small>(22 13 29)</small>		
22 13 29 13-0001 Vertical Column, Flanged Discharge, Non-Clog Sump Or Drainage Pumps (Crane-DeMing Series 4500) <small>(22 13 29 13)</small>		
Note: Mounted on steel support plate. Excludes float and float switch, and sump cover See CSI section 22 13 29 13-0030 for float and float switch, 22 13 29 13-0034 for sump cover.		
22 13 29 13-0002 1-1/2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps <small>(22 13 29 13-0001)</small>		
22 13 29 13-0003 EA 1/2 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	5,980.25	1,229.26
22 13 29 13-0004 EA 3/4 HP, Up To 125 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	6,196.71	1,229.26
22 13 29 13-0005 EA 1 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	6,413.17	1,229.26
22 13 29 13-0006 EA 1-1/2 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	6,619.64	1,229.26
22 13 29 13-0007 2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps <small>(22 13 29 13-0001)</small>		
22 13 29 13-0008 EA 3/4 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	6,579.68	1,229.26
22 13 29 13-0009 EA 1 HP, Up To 100 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	6,662.94	1,229.26
22 13 29 13-0010 EA 2 HP, Up To 200 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	6,721.22	1,229.26
22 13 29 13-0011 EA 3 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,120.84	1,229.26
22 13 29 13-0012 EA 5 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,512.14	1,229.26
22 13 29 13-0013 EA 7-1/2 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	8,111.57	1,229.26
22 13 29 13-0014 EA 10 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	8,711.01	1,229.26



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 13-0015 EA 15 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	10,123.68	1,635.87
22 13 29 13-0016 3" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)		
22 13 29 13-0017 EA 2 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	6,996.84	1,229.26
22 13 29 13-0018 EA 3 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	6,996.84	1,229.26
22 13 29 13-0019 EA 5 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,141.09	1,229.26
22 13 29 13-0020 EA 7-1/2 HP, Up To 700 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	8,260.30	1,229.26
22 13 29 13-0021 EA 10 HP, Up To 800 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	8,456.63	1,229.26
22 13 29 13-0022 EA 15 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	10,192.74	1,635.87
22 13 29 13-0023 EA 20 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	10,692.27	1,635.87
22 13 29 13-0024 Extra Column Assemblies Addition, 5' Or Less (22 13 29 13-0001)		
22 13 29 13-0025 EA 2-1/2" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	544.22	
22 13 29 13-0026 EA 3" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	653.44	
22 13 29 13-0027 EA 4" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	730.37	
22 13 29 13-0028 EA 5" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	743.67	
22 13 29 13-0029 EA 6" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	834.84	
22 13 29 13-0030 Float Switches (22 13 29 13-0001)		
Note: Copper coated floats, brass rods and stops and switch brackets.		
22 13 29 13-0031 EA Float Switch Copper Coated Float, Add, General Purpose For vertical sewage pumps.....	489.13	
22 13 29 13-0032 EA Float Switch Copper Coated Float, Add, Weather Proof For vertical sewage pumps.....	513.82	
22 13 29 13-0033 EA Float Switch Copper Coated Float, Add, Explosion Proof For vertical sewage pumps.....	525.22	
22 13 29 13-0034 Square Or Round Steel Sump Covers (22 13 29 13-0001)		
22 13 29 13-0035 EA 24" Steel Sump Covers, Square Or Round.....	796.70	40.99
22 13 29 13-0036 EA 30" Steel Sump Covers, Square Or Round.....	881.95	46.11
22 13 29 13-0037 EA 36" Steel Sump Covers, Square Or Round.....	1,224.25	61.49
22 13 29 13-0038 EA 40" Steel Sump Covers, Square Or Round.....	1,779.69	71.73
22 13 29 13-0039 EA 42" Steel Sump Covers, Square Or Round.....	1,908.43	74.30
22 13 29 13-0040 EA 48" Steel Sump Covers, Square Or Round.....	2,041.07	76.86
22 13 29 13-0041 EA 54" Steel Sump Covers, Square Or Round.....	2,601.03	92.22
22 13 29 13-0042 EA 60" Steel Sump Covers, Square Or Round.....	3,527.41	102.47
22 13 29 13-0043 EA 72" Steel Sump Covers, Square Or Round.....	4,473.26	128.10
22 13 29 13-0044 EA 84" Steel Sump Covers, Square Or Round.....	5,690.17	140.90
22 13 29 16 Submersible Sewerage Pumps (22 13 29)		
22 13 29 16-0001 Submersible Sewage Pumps With Vortex Impeller (22 13 29 16)		
22 13 29 16-0002 Submersible Single Seal Sewage Pumps With Cast Iron Vortex Impeller (22 13 29 16-0001)		
Note: Includes 25' cord.		
22 13 29 16-0003 EA 1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,238.30	74.55
22 13 29 16-0004 EA 1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,318.41	74.55
22 13 29 16-0005 EA 1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,293.76	74.55
22 13 29 16-0006 EA 1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,411.87	74.55
22 13 29 16-0007 EA 1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,411.87	74.55
22 13 29 16-0008 EA 1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,498.33	93.19
22 13 29 16-0009 EA 1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,603.08	93.19
22 13 29 16-0010 EA 1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,616.44	93.19
22 13 29 16-0011 Submersible Single Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001)		
Note: Includes 20' cord.		
22 13 29 16-0012 EA 1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,260.90	74.55
22 13 29 16-0013 EA 1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,375.93	74.55
22 13 29 16-0014 EA 1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,321.49	74.55
22 13 29 16-0015 EA 1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,432.41	74.55
22 13 29 16-0016 EA 1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,532.04	74.55
22 13 29 16-0017 EA 1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,434.65	93.19
22 13 29 16-0018 EA 1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,553.79	93.19



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0019 EA 1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,552.76	93.19
22 13 29 16-0020 EA 1-1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,793.62	150.22
22 13 29 16-0021 EA 1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,894.27	150.22
22 13 29 16-0022 EA 1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,911.73	150.22
22 13 29 16-0023 EA 2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,928.51	183.61
22 13 29 16-0024 EA 2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,043.54	183.61
22 13 29 16-0025 EA 2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,046.62	183.61
22 13 29 16-0026 Submersible Double Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001) Note: Includes 20' cord.		
22 13 29 16-0027 EA 1/2 HP Manual Submersible Double Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,490.96	74.55
22 13 29 16-0028 EA 1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,686.10	74.55
22 13 29 16-0029 EA 1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller	1,653.41	93.19
22 13 29 16-0030 EA 1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller	1,771.52	93.19
22 13 29 16-0031 EA 1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,028.81	150.22
22 13 29 16-0032 EA 1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,146.92	150.22
22 13 29 16-0033 EA 2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,164.73	183.61
22 13 29 16-0034 EA 2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,282.84	183.61
22 13 29 16-0035 Submersible Sewage Pumps With Semi-Open Impeller (22 13 29 16) Note: Includes 25' of cord with pump.		
22 13 29 16-0036 EA 1 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	3,854.78	93.19
22 13 29 16-0037 EA 1.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	4,126.01	152.66
22 13 29 16-0038 EA 2 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	4,423.22	186.60
22 13 29 16-0039 EA 3 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	4,631.38	226.17
22 13 29 16-0040 EA 5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	5,198.80	265.75
22 13 29 16-0041 EA 7.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	5,808.25	305.34
22 13 29 16-0042 Submersible Sewage Pumps, Explosion Proof (22 13 29 16) Note: Includes 25' of cord with pump.		
22 13 29 16-0043 EA 1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,221.36	333.97
22 13 29 16-0044 EA 1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,742.27	333.97
22 13 29 16-0045 EA 1 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,742.27	333.97
22 13 29 16-0046 EA 1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,535.82	445.28
22 13 29 16-0047 EA 1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,056.74	445.28
22 13 29 16-0048 EA 1.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,056.74	445.28
22 13 29 16-0049 EA 2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,949.11	556.60
22 13 29 16-0050 EA 2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,470.02	556.60
22 13 29 16-0051 EA 2 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,470.02	556.60
22 13 29 16-0052 EA 3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,269.55	667.93
22 13 29 16-0053 EA 3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,790.47	667.93
22 13 29 16-0054 EA 3 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,790.47	667.93
22 13 29 16-0055 EA 5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	8,036.17	779.25
22 13 29 16-0056 EA 5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,557.08	779.25



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0057	EA		5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,557.08	779.25
22 13 29 16-0058	EA		7.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	8,334.66	890.57
22 13 29 16-0059	EA		7.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	8,334.66	890.57
22 13 29 16-0060			Submersible Sewage Pump Accessories <small>(22 13 29 16)</small>		
22 13 29 16-0061	EA		Simplex Plug In Pump Control Panel with Alarm Float Only, 115 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	607.08	81.28
22 13 29 16-0062	EA		Simplex Plug In Pump Control Panel with Alarm Float Only, 230 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	626.70	81.28
22 13 29 16-0063	EA		Simplex Control Panel With 3 Floats, 115/208/230 Volt, 1 Phase, 0-20 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	1,229.42	108.38
22 13 29 16-0064	EA		Simplex Control Panel 208/230/460 Volt, 3 Phase, 1-23 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	1,731.84	108.38
22 13 29 16-0065	EA		Simplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	3,879.44	108.38
22 13 29 16-0066	EA		Simplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	4,058.44	108.38
22 13 29 16-0067	EA		Duplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	6,483.65	135.46
22 13 29 16-0068	EA		Duplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	5,465.39	135.46
22 13 29 16-0069	EA		Electrical Alternator Duplex Control Panel with 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps	1,365.06	135.46
22 13 29 16-0070	EA		Electrical Alternator Duplex Control Panel With 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps	1,502.44	135.46
22 13 29 16-0071	EA		Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-20 Amperes, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps	1,442.58	135.46
22 13 29 16-0072	EA		Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-30 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps	1,566.39	135.46
22 13 29 16-0073	EA		Electrical Alternator Duplex Control Panel, 200/230/460 Volt, 3 Phase, 1-25 Amperes Range, Indoor/Outdoor NEMA 4X Enclosure For Submersible Sewage Pumps	2,672.22	135.46
22 13 29 16-0074	EA		Alarm System, 115 Volt, Indoor/Outdoor 4X Enclosure	501.88	54.18
22 13 29 16-0075	EA		Variable Level (Clamp Type) Float Switch With 15' Cord	97.36	27.10
22 13 29 16-0076	EA		Variable Level (Clamp Type) Float Switch With 15' Cord For Intrinsically Safe Control Systems Only	114.39	27.10
22 13 29 16-0077	EA		Variable Level (Adjustable Weight Type) Float Switch With 25' Cord	123.73	27.10
22 13 29 16-0078	EA		Variable Level (Adjustable Weight Type) Float Switch With 25' Cord For Intrinsically Safe Control Systems Only	128.04	27.10
22 13 29 16-0079	EA		Float Switch Tree With (3) 15' Floats	363.50	27.10
22 13 29 16-0080	EA		Float Switch Tree And (3) Floats With 15' Cords For Intrinsically Safe Control Systems Only	402.41	27.10
22 13 29 16-0081	EA		Float Switch Tree And (4) Floats With 15' Cords	404.34	27.10
22 13 29 16-0082	EA		Float Switch Tree And (4) Floats With 15' Cords For Intrinsically Safe Control Systems Only	457.96	27.10
22 13 29 16-0083	EA		Float Switch Tree	195.21	27.10
22 13 29 16-0084	EA		Adjustable Weight For Float Switch	52.97	13.54
22 13 29 16-0085	EA		Rail And Disconnect System, Stainless Steel, For 2" Horizontal Discharge	1,023.91	81.28
22 13 29 16-0086	EA		Rail And Disconnect System, Stainless Steel, For 3" Horizontal Discharge	1,603.09	108.38
22 13 29 16-0087	EA		Rail And Disconnect System, Stainless Steel, For 4" Horizontal Discharge	2,093.19	135.46
22 13 29 16-0088	EA		Rail And Disconnect System, Stainless Steel Non-Spearking, For 3" Horizontal Discharge	2,222.15	81.28
22 13 29 16-0089	EA		Rail And Disconnect System, Stainless Steel Non-Spearking, For 4" Horizontal Discharge	3,136.86	81.28
22 13 29 16-0090	EA		Intermediate Guide Rail Bracket, Stainless Steel, For 2" Rail System	298.26	54.18
22 13 29 16-0091	EA		Intermediate Guide Rail Bracket, Stainless Steel, For 3" Rail Systems	522.37	67.74
22 13 29 16-0092	EA		Intermediate Guide Rail Bracket, Stainless Steel, For 4" Rail Systems	524.97	81.28
22 13 29 16-0093	EA		12' Stainless Steel Lifting Cable	147.08	27.10
22 13 29 16-0094	EA		Disconnect Fitting For 2" Horizontal Discharge	287.96	27.10
			Note: Used for shallow systems where guide rails are not necessary.		

22 13 29 33 Sewerage Pump Basins and Pits (22 13 29)

22 13 29 33-0001 Sewage Sump Pump Basin (22 13 29 33)



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 13 29 33-0002	High Density Polyethylene (HDPE) Basin <small>(22 13 29 33-0001)</small>		
22 13 29 33-0003	EA 18" Diameter x 24" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	127.35	
22 13 29 33-0004	EA 18" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	163.52	
22 13 29 33-0005	EA 24" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	364.28	
22 13 29 33-0006	EA 24" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	509.14	
22 13 29 33-0007	EA 30" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	653.99	
22 13 29 33-0008	EA 36" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	760.04	

22 13 29 33-0009	Fiberglass Basin <small>(22 13 29 33-0001)</small>		
22 13 29 33-0010	EA 18" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub.....	354.40	
22 13 29 33-0011	EA 24" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub.....	722.33	
22 13 29 33-0012	EA 30" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub.....	1,298.36	
22 13 29 33-0013	EA 36" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub.....	1,748.35	
22 13 29 33-0014	EA 36" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub.....	2,014.77	
22 13 29 33-0015	EA 36" Diameter x 60" High Fiberglass Basin And Lid With Inlet And Hub.....	2,127.87	
22 13 29 33-0016	EA 36" Diameter x 72" High Fiberglass Basin And Lid With Inlet And Hub.....	2,500.11	
22 13 29 33-0017	EA 48" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub.....	2,903.40	

22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities (22)

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities (22 60)

22 66 53 Laboratory Chemical-Waste and Vent Piping (22 66)

22 66 53 00-0001 Polypropylene Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings (22 66 53)

22 66 53 00-0002 Schedule 40 Polypropylene Acid Resistant DWV Pipe And Fuseal Fittings (22 66 53 00-0001)

22 66 53 00-0003 Schedule 40 Polypropylene Acid Resistant DWV Pipe (22 66 53 00-0002)

22 66 53 00-0004	LF 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	19.20	5.84
	<i>For Schedule 80, Add</i>	5.41	
	<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>	4.63	
	<i>For Work In Restricted Working Space, Add</i>	2.64	
22 66 53 00-0005	LF 2" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	23.98	6.56
	<i>For Schedule 80, Add</i>	7.32	
	<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>	6.26	
	<i>For Work In Restricted Working Space, Add</i>	2.97	
22 66 53 00-0006	LF 3" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	39.73	9.53
	<i>For Schedule 80, Add</i>	13.21	
	<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>	11.30	
	<i>For Work In Restricted Working Space, Add</i>	4.30	
22 66 53 00-0007	LF 4" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	54.69	12.39
	<i>For Schedule 80, Add</i>	18.75	
	<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>	16.05	
	<i>For Work In Restricted Working Space, Add</i>	5.59	
22 66 53 00-0008	LF 6" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	92.32	18.24
	<i>For Schedule 80, Add</i>	33.79	
	<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>	28.92	
	<i>For Work In Restricted Working Space, Add</i>	8.20	

22 66 53 00-0009 Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bends (22 66 53 00-0002)

22 66 53 00-0010	EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	75.00	22.03
	<i>For Work In Restricted Working Space, Add</i>	9.92	
22 66 53 00-0011	EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	95.70	29.10
	<i>For Work In Restricted Working Space, Add</i>	13.08	
22 66 53 00-0012	EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	138.45	33.30
	<i>For Work In Restricted Working Space, Add</i>	15.00	
22 66 53 00-0013	EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	206.92	44.07
	<i>For Work In Restricted Working Space, Add</i>	19.83	
22 66 53 00-0014	EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	443.66	65.07
	<i>For Work In Restricted Working Space, Add</i>	29.28	

22 66 53 00-0015 Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bends (22 66 53 00-0002)

22 66 53 00-0016	EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	74.29	22.03
	<i>For Work In Restricted Working Space, Add</i>	9.92	
22 66 53 00-0017	EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	93.81	29.10
	<i>For Work In Restricted Working Space, Add</i>	13.08	
22 66 53 00-0018	EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	142.07	33.30
	<i>For Work In Restricted Working Space, Add</i>	15.00	
22 66 53 00-0019	EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	170.53	44.07
	<i>For Work In Restricted Working Space, Add</i>	19.83	
22 66 53 00-0020	EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	387.26	65.07
	<i>For Work In Restricted Working Space, Add</i>	29.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0021 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tees <small>(22 66 53 00-0002)</small>		
22 66 53 00-0022 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	122.77	47.14
For Work In Restricted Working Space, Add	21.20	
22 66 53 00-0023 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	151.54	59.43
For Work In Restricted Working Space, Add	26.73	
22 66 53 00-0024 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	222.48	65.07
For Work In Restricted Working Space, Add	29.28	
22 66 53 00-0025 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	315.12	85.46
For Work In Restricted Working Space, Add	38.43	
22 66 53 00-0026 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	576.88	136.70
For Work In Restricted Working Space, Add	61.48	
22 66 53 00-0027 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tees <small>(22 66 53 00-0002)</small>		
22 66 53 00-0028 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee	151.45	59.43
For Work In Restricted Working Space, Add	26.73	
22 66 53 00-0029 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....	213.76	65.07
For Work In Restricted Working Space, Add	29.28	
22 66 53 00-0030 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee	206.01	65.07
For Work In Restricted Working Space, Add	29.28	
22 66 53 00-0031 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....	295.24	85.46
For Work In Restricted Working Space, Add	38.43	
22 66 53 00-0032 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....	302.74	85.46
For Work In Restricted Working Space, Add	38.43	
22 66 53 00-0033 EA 6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....	521.53	136.70
For Work In Restricted Working Space, Add	61.48	
22 66 53 00-0034 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tees With Plug <small>(22 66 53 00-0002)</small>		
22 66 53 00-0035 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug	148.22	47.14
For Work In Restricted Working Space, Add	21.20	
22 66 53 00-0036 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug	157.68	59.43
For Work In Restricted Working Space, Add	26.73	
22 66 53 00-0037 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug	241.31	65.07
For Work In Restricted Working Space, Add	29.28	
22 66 53 00-0038 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug	323.80	85.46
For Work In Restricted Working Space, Add	38.43	
22 66 53 00-0039 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug	469.55	136.70
For Work In Restricted Working Space, Add	61.48	
22 66 53 00-0040 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wyes <small>(22 66 53 00-0002)</small>		
22 66 53 00-0041 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye.....	137.05	47.14
For Work In Restricted Working Space, Add	21.20	
22 66 53 00-0042 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye.....	164.76	59.43
For Work In Restricted Working Space, Add	26.73	
22 66 53 00-0043 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye.....	230.36	65.07
For Work In Restricted Working Space, Add	29.28	
22 66 53 00-0044 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye.....	321.65	85.46
For Work In Restricted Working Space, Add	38.43	
22 66 53 00-0045 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye.....	696.29	136.70
For Work In Restricted Working Space, Add	61.48	
22 66 53 00-0046 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wyes <small>(22 66 53 00-0002)</small>		
22 66 53 00-0047 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....	182.24	59.43
For Work In Restricted Working Space, Add	26.73	
22 66 53 00-0048 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....	221.39	65.07
For Work In Restricted Working Space, Add	29.28	
22 66 53 00-0049 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....	221.39	65.07
For Work In Restricted Working Space, Add	29.28	
22 66 53 00-0050 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....	313.90	85.46
For Work In Restricted Working Space, Add	38.43	
22 66 53 00-0051 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....	313.90	85.46
For Work In Restricted Working Space, Add	38.43	
22 66 53 00-0052 EA 6" x 6" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....	593.43	136.70
For Work In Restricted Working Space, Add	61.48	
22 66 53 00-0053 EA 6" x 6" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....	599.45	136.70
For Work In Restricted Working Space, Add	61.48	
22 66 53 00-0054 EA 6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye.....	524.06	136.70
For Work In Restricted Working Space, Add	61.48	
22 66 53 00-0055 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Crosses <small>(22 66 53 00-0002)</small>		
22 66 53 00-0056 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross	170.02	58.92
For Work In Restricted Working Space, Add	26.50	

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0057	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	209.24 33.41	74.30
22 66 53 00-0058	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	317.77 36.60	81.36
22 66 53 00-0059	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	453.29 48.03	106.77
22 66 53 00-0060	EA		6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	839.23 76.85	170.82
22 66 53 00-0061 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bends (22 66 53 00-0002)					
22 66 53 00-0062	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	118.12 21.20	47.14
22 66 53 00-0063	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	158.43 26.73	59.43
22 66 53 00-0064	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	186.30 29.28	65.07
22 66 53 00-0065	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	266.05 38.43	85.46
22 66 53 00-0066	EA		2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	137.80 26.73	59.43
22 66 53 00-0067	EA		3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	178.00 29.28	65.07
22 66 53 00-0068	EA		3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	181.33 29.28	65.07
22 66 53 00-0069	EA		4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	253.71 38.43	85.46
22 66 53 00-0070	EA		4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	255.81 38.43	85.46
22 66 53 00-0071 Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Traps (22 66 53 00-0002)					
22 66 53 00-0072	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	141.49 24.59	54.72
22 66 53 00-0073	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	189.74 32.36	71.94
22 66 53 00-0074	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	307.46 43.92	97.65
22 66 53 00-0075	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	456.98 55.89	124.30
22 66 53 00-0076 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapters (22 66 53 00-0002)					
22 66 53 00-0077	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	73.02 9.92	22.03
22 66 53 00-0078	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	85.26 13.08	29.10
22 66 53 00-0079	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	101.55 15.00	33.30
22 66 53 00-0080	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	140.41 19.83	44.07
22 66 53 00-0081	EA		6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	208.88 29.28	65.07
22 66 53 00-0082 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapters (22 66 53 00-0002)					
22 66 53 00-0083	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	68.01 9.92	22.03
22 66 53 00-0084	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	89.05 13.08	29.10
22 66 53 00-0085	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	108.50 15.00	33.30
22 66 53 00-0086	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	147.24 19.83	44.07
22 66 53 00-0087 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Couplings (22 66 53 00-0002)					
22 66 53 00-0088	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	61.78 9.92	22.03
22 66 53 00-0089	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	77.85 13.08	29.10
22 66 53 00-0090	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	91.56 15.00	33.30
22 66 53 00-0091	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	121.08 19.83	44.07
22 66 53 00-0092	EA		6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	177.50 29.28	65.07

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0150 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	1,137.40	168.05
22 66 53 00-0151 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tees <small>(22 66 53 00-0103)</small>		
22 66 53 00-0152 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee	479.20	116.21
22 66 53 00-0153 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee	586.15	128.50
22 66 53 00-0154 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee	815.96	153.81
22 66 53 00-0155 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tees <small>(22 66 53 00-0103)</small>		
22 66 53 00-0156 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	452.31	111.39
22 66 53 00-0157 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	575.06	124.40
22 66 53 00-0158 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	699.07	141.42
22 66 53 00-0159 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	754.45	145.61
22 66 53 00-0160 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wyes <small>(22 66 53 00-0103)</small>		
22 66 53 00-0161 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye	405.69	116.41
22 66 53 00-0162 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye	581.74	128.81
22 66 53 00-0163 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye	751.88	153.71
22 66 53 00-0164 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	1,313.18	180.33
22 66 53 00-0165 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye	5,297.03	294.71
22 66 53 00-0166 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes <small>(22 66 53 00-0103)</small>		
22 66 53 00-0167 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	422.79	111.39
22 66 53 00-0168 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	454.75	119.58
22 66 53 00-0169 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	481.81	124.51
22 66 53 00-0170 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	539.44	136.70
22 66 53 00-0171 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	560.98	141.21
22 66 53 00-0172 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	690.50	145.61
22 66 53 00-0173 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	953.32	156.82
22 66 53 00-0174 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	1,150.94	160.66
22 66 53 00-0175 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	1,201.35	168.05
22 66 53 00-0176 EA 8" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	3,066.91	237.75
22 66 53 00-0177 EA 8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	3,319.72	245.61
22 66 53 00-0178 EA 8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	4,091.10	258.18
22 66 53 00-0179 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends <small>(22 66 53 00-0103)</small>		
22 66 53 00-0180 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	498.82	116.21
22 66 53 00-0181 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	600.91	128.50
22 66 53 00-0182 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	914.35	153.81
22 66 53 00-0183 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	1,441.42	180.52
22 66 53 00-0184 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends <small>(22 66 53 00-0103)</small>		
22 66 53 00-0185 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	403.12	111.39
22 66 53 00-0186 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	474.43	119.58
22 66 53 00-0187 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	530.79	124.40
22 66 53 00-0188 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	573.87	136.70
22 66 53 00-0189 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	674.48	141.42
22 66 53 00-0190 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	774.07	145.51
22 66 53 00-0191 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	1,017.20	156.82
22 66 53 00-0192 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	1,293.65	160.76
22 66 53 00-0193 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	1,423.12	168.33
22 66 53 00-0194 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducers <small>(22 66 53 00-0103)</small>		
22 66 53 00-0195 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	247.41	73.17
22 66 53 00-0196 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	273.20	77.27
22 66 53 00-0197 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	308.88	81.36
22 66 53 00-0198 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	523.87	90.18
22 66 53 00-0199 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	549.71	94.38
22 66 53 00-0200 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	593.42	100.48
22 66 53 00-0201 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	786.92	108.16
22 66 53 00-0202 EA 8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	1,150.64	147.40
22 66 53 00-0203 EA 8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	1,223.49	159.88
22 66 53 00-0204 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increasers <small>(22 66 53 00-0103)</small>		
22 66 53 00-0205 EA 2" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser.....	679.22	170.82
22 66 53 00-0206 EA 2" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser.....	935.02	170.82
22 66 53 00-0207 EA 3" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser.....	957.97	170.82



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0208 EA 4" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	1,049.17	224.09
22 66 53 00-0209 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Traps <small>(22 66 53 00-0103)</small>		
22 66 53 00-0210 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	834.64	77.67
22 66 53 00-0211 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	1,013.54	85.46
22 66 53 00-0212 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	1,235.60	102.27
22 66 53 00-0213 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	3,766.63	120.44
22 66 53 00-0214 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hubs <small>(22 66 53 00-0103)</small>		
22 66 53 00-0215 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	387.00	77.67
22 66 53 00-0216 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	497.03	85.46
22 66 53 00-0217 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	694.50	102.27
22 66 53 00-0218 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	897.96	120.44
22 66 53 00-0219 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	1,796.59	168.05
22 66 53 00-0220 Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings <small>(22 66 53 00-0093)</small>		
<small>Note: Labor costs for installation of lead and oakum are included in the installation costs for fittings.</small>		
22 66 53 00-0221 LB Lead (1 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings	6.03	
22 66 53 00-0222 LB Seal-Tite Packing (1/8 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings	90.18	
22 66 53 00-0223 Mechanical Joint High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 66 53)</small>		
<small>Note: ASTM A518.</small>		
22 66 53 00-0224 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe <small>(22 66 53 00-0223)</small>		
22 66 53 00-0225 LF 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe	114.29	6.86
22 66 53 00-0226 LF 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe	130.19	7.59
22 66 53 00-0227 LF 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe	180.21	9.53
22 66 53 00-0228 LF 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe	228.05	11.06
22 66 53 00-0229 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Fittings <small>(22 66 53 00-0223)</small>		
22 66 53 00-0230 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweeps <small>(22 66 53 00-0229)</small>		
22 66 53 00-0231 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	401.35	54.41
22 66 53 00-0232 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	431.64	61.49
22 66 53 00-0233 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	603.40	67.84
22 66 53 00-0234 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	728.02	81.97
22 66 53 00-0235 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0236 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	209.51	54.41
22 66 53 00-0237 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	253.60	60.87
22 66 53 00-0238 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	333.21	68.04
22 66 53 00-0239 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	441.79	81.36
22 66 53 00-0240 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	248.53	57.49
22 66 53 00-0241 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0242 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend	209.51	54.41
22 66 53 00-0243 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend	253.60	60.87
22 66 53 00-0244 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend	333.21	68.04
22 66 53 00-0245 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend	441.79	81.36
22 66 53 00-0246 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0247 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend	253.78	54.41
22 66 53 00-0248 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend	322.47	60.87
22 66 53 00-0249 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend	515.22	68.04
22 66 53 00-0250 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend	574.61	81.36
22 66 53 00-0251 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0252 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend	243.94	54.41
22 66 53 00-0253 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend	292.95	60.87
22 66 53 00-0254 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend	470.94	68.04
22 66 53 00-0255 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend	530.34	81.36

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0256 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0257 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bend.....	368.72	81.87
22 66 53 00-0258 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tees <small>(22 66 53 00-0229)</small>		
22 66 53 00-0259 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	290.01	81.87
22 66 53 00-0260 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	364.54	92.22
22 66 53 00-0261 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	493.51	102.78
22 66 53 00-0262 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	769.82	123.07
22 66 53 00-0263 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tees <small>(22 66 53 00-0229)</small>		
22 66 53 00-0264 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	339.66	88.75
22 66 53 00-0265 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	423.83	95.71
22 66 53 00-0266 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	453.49	99.09
22 66 53 00-0267 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	483.61	109.34
22 66 53 00-0268 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	537.50	112.42
22 66 53 00-0269 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	586.89	115.79
22 66 53 00-0270 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wyes <small>(22 66 53 00-0229)</small>		
22 66 53 00-0271 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	290.42	82.19
22 66 53 00-0272 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	344.86	92.22
22 66 53 00-0273 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	473.83	102.78
22 66 53 00-0274 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	769.82	123.07
22 66 53 00-0275 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes <small>(22 66 53 00-0229)</small>		
22 66 53 00-0276 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	325.60	89.25
22 66 53 00-0277 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	409.04	95.61
22 66 53 00-0278 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	429.35	99.40
22 66 53 00-0279 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	484.10	109.65
22 66 53 00-0280 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	538.43	113.03
22 66 53 00-0281 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	572.56	116.10
22 66 53 00-0282 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wyes <small>(22 66 53 00-0229)</small>		
22 66 53 00-0283 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	444.47	109.44
22 66 53 00-0284 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	578.13	123.17
22 66 53 00-0285 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	755.24	136.29
22 66 53 00-0286 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	993.37	163.86
22 66 53 00-0287 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	493.55	115.89
22 66 53 00-0288 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	557.89	122.77
22 66 53 00-0289 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	676.34	129.53
22 66 53 00-0290 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	746.29	143.46
22 66 53 00-0291 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	914.61	150.74
22 66 53 00-0292 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Crosses <small>(22 66 53 00-0229)</small>		
22 66 53 00-0293 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	503.44	109.44
22 66 53 00-0294 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	597.56	122.97
22 66 53 00-0295 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	884.29	137.00
22 66 53 00-0296 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	1,254.34	164.06
22 66 53 00-0297 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	542.68	115.89
22 66 53 00-0298 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	730.02	122.77
22 66 53 00-0299 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	769.74	129.53
22 66 53 00-0300 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	820.02	143.36
22 66 53 00-0301 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	1,066.30	150.12
22 66 53 00-0302 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0303 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	328.95	81.57
22 66 53 00-0304 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	384.22	92.22
22 66 53 00-0305 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	473.83	102.78
22 66 53 00-0306 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	823.92	123.07
22 66 53 00-0307 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0308 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	364.35	88.85



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0309 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	409.45	95.91
22 66 53 00-0310 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	449.03	99.40
22 66 53 00-0311 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	626.76	109.65
22 66 53 00-0312 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	641.73	113.03
22 66 53 00-0313 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	725.05	116.10
22 66 53 00-0314 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bends (22 66 53 00-0229)		
22 66 53 00-0315 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	537.64	109.23
22 66 53 00-0316 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	686.01	122.87
22 66 53 00-0317 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	1,016.37	136.60
22 66 53 00-0318 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	1,220.44	164.36
22 66 53 00-0319 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bends (22 66 53 00-0229)		
22 66 53 00-0320 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	586.96	115.89
22 66 53 00-0321 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	715.23	122.66
22 66 53 00-0322 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	745.14	129.53
22 66 53 00-0323 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	829.86	143.36
22 66 53 00-0324 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	1,066.30	150.12
22 66 53 00-0325 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducers-Increasers (22 66 53 00-0229)		
22 66 53 00-0326 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser.....	249.39	58.10
22 66 53 00-0327 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser.....	284.03	61.49
22 66 53 00-0328 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser.....	333.83	71.73
22 66 53 00-0329 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser.....	407.15	68.15
22 66 53 00-0330 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser.....	431.94	71.52
22 66 53 00-0331 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser.....	456.73	74.91
22 66 53 00-0332 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tees (22 66 53 00-0229)		
22 66 53 00-0333 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee.....	234.06	47.85
22 66 53 00-0334 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee.....	272.98	54.10
22 66 53 00-0335 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee.....	323.01	61.28
22 66 53 00-0336 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee.....	613.63	74.60
22 66 53 00-0337 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plugs (22 66 53 00-0229)		
22 66 53 00-0338 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	99.83	27.26
22 66 53 00-0339 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	119.43	30.43
22 66 53 00-0340 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	129.72	34.02
22 66 53 00-0341 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	169.24	40.68
22 66 53 00-0342 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Traps (22 66 53 00-0229)		
22 66 53 00-0343 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	450.06	54.10
22 66 53 00-0344 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	460.20	60.87
22 66 53 00-0345 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	574.24	68.04
22 66 53 00-0346 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	736.94	81.36
22 66 53 00-0347 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	638.13	58.20
22 66 53 00-0348 EA 2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	889.43	64.96
22 66 53 00-0349 EA 3" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	1,081.50	71.73
22 66 53 00-0350 EA 4" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	1,348.02	85.46
22 66 53 00-0351 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum Traps (22 66 53 00-0229)		
22 66 53 00-0352 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap.....	864.90	61.79
22 66 53 00-0353 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap.....	1,386.37	68.35
22 66 53 00-0354 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap.....	903.88	61.49
22 66 53 00-0355 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap.....	1,386.37	68.35
22 66 53 00-0356 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Traps (22 66 53 00-0229)		
22 66 53 00-0357 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap.....	800.58	61.49

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0358 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap	943.65	68.35
22 66 53 00-0359 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long P-Trap	933.40	61.49
22 66 53 00-0360 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap	2,099.64	68.35
22 66 53 00-0361 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap	1,228.96	68.35
22 66 53 00-0362 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bends		
(22 66 53 00-0229)		
22 66 53 00-0363 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend	313.17	54.72
22 66 53 00-0364 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend	416.88	61.49
22 66 53 00-0365 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapters		
(22 66 53 00-0229)		
22 66 53 00-0366 EA 1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter	150.02	40.99
22 66 53 00-0367 EA 1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter	297.81	44.47
22 66 53 00-0368 EA 2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter	204.76	51.24
22 66 53 00-0369 Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter		
(22 66 53 00-0229)		
22 66 53 00-0370 EA 1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	294.07	58.30
22 66 53 00-0371 EA 1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	323.38	61.49
22 66 53 00-0372 EA 1-1/2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	362.93	64.86
22 66 53 00-0373 EA 1-1/2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	387.67	71.52
22 66 53 00-0374 EA 2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	362.98	64.96
22 66 53 00-0375 EA 2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	382.81	68.35
22 66 53 00-0376 EA 2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	412.46	74.91
22 66 53 00-0377 EA 3" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	476.52	71.73
22 66 53 00-0378 EA 4" x 4" Mechanical Joint High Silicon Iron Alloy Hub To Mechanical Joint Adapter	590.50	85.46
22 66 53 00-0379 Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings		
(22 66 53 00-0229)		
22 66 53 00-0380 EA 1-1/2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting	118.06	
22 66 53 00-0381 EA 2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting	137.74	
22 66 53 00-0382 EA 3" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting	147.57	
22 66 53 00-0383 EA 4" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting	162.33	
22 66 53 00-0384 Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Fittings		
(22 66 53 00-0229)		
22 66 53 00-0385 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Outlet	852.64	27.36
22 66 53 00-0386 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Stopper	320.57	13.63
22 66 53 00-0387 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Overflow	605.88	13.63
22 66 53 00-0388 Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drains With Stainless Steel Strainer Plates		
(22 66 53 00-0229)		
22 66 53 00-0389 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain With Stainless Steel Strainer	3,028.51	136.70
22 66 53 00-0390 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sediment Basin Floor Drain With Stainless Steel Strainer	3,756.95	143.56
22 66 53 00-0391 EA Stainless Steel Funnel Attachment For Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain	2,588.27	13.63

END OF SECTION 22



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 Electrical

Note: Termination costs are included with all electrical equipment, panel boards, fixtures and devices. Terminations are not included with patch panels. Electrical equipment and lighting shall conform to California Title 24.

26 01 Operation and Maintenance of Electrical Systems ⁽²⁶⁾

26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution ^(26 01)

26 01 10 91 Medium-Voltage Electrical Distribution Restoration ^(26 01 10)

26 01 10 91-0001	Retrofit Distribution Enclosures ^(26 01 10 91) Note: Includes removal of equipment housing, punch or drill hole for window, touch-up area, and reinstallation of equipment housing.		
26 01 10 91-0002	EA 2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-2C)	503.15	
	Note: 2mm thick, aluminum frame, hinged cover.		
	<i>For Up To 20, Add</i>	109.06	
	<i>For >20 To 50, Add</i>	87.24	
	<i>For >50 To 100, Add</i>	43.62	
26 01 10 91-0003	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-3C)	659.50	
	Note: 2mm thick, aluminum frame, hinged cover.		
	<i>For Up To 20, Add</i>	148.14	
	<i>For >20 To 50, Add</i>	118.51	
	<i>For >50 To 100, Add</i>	59.26	
26 01 10 91-0004	EA 4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-4C)	1,003.48	
	Note: 4mm thick, aluminum frame, hinged cover.		
	<i>For Up To 20, Add</i>	234.14	
	<i>For >20 To 50, Add</i>	187.31	
	<i>For >50 To 100, Add</i>	93.66	
26 01 10 91-0005	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 1 Rated (Fluke CLKTO)	498.70	
	Note: 2mm thick, aluminum frame, twist cover.		
	<i>For Up To 20, Add</i>	107.94	
	<i>For >20 To 50, Add</i>	86.35	
	<i>For >50 To 100, Add</i>	43.18	
26 01 10 91-0006	EA 2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-2)	501.45	
	Note: 2mm thick, aluminum frame, twist cover.		
	<i>For Up To 20, Add</i>	108.63	
	<i>For >20 To 50, Add</i>	86.90	
	<i>For >50 To 100, Add</i>	43.45	
26 01 10 91-0007	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-3)	646.77	
	Note: 2mm thick, aluminum frame, twist cover.		
	<i>For Up To 20, Add</i>	144.96	
	<i>For >20 To 50, Add</i>	115.97	
	<i>For >50 To 100, Add</i>	57.98	
26 01 10 91-0008	EA 4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-4)	975.20	
	Note: 4mm thick, aluminum frame, twist cover.		
	<i>For Up To 20, Add</i>	227.07	
	<i>For >20 To 50, Add</i>	181.65	
	<i>For >50 To 100, Add</i>	90.83	
26 01 10 91-0009	EA 2" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPPR)	390.58	
	Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
	<i>For Up To 20, Add</i>	80.91	
	<i>For >20 To 50, Add</i>	64.73	
	<i>For >50 To 100, Add</i>	32.37	
26 01 10 91-0010	EA 3" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPPR)	559.44	
	Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
	<i>For Up To 20, Add</i>	123.13	
	<i>For >20 To 50, Add</i>	98.50	
	<i>For >50 To 100, Add</i>	49.25	
26 01 10 91-0011	EA 4" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPPR)	805.69	
	Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
	<i>For Up To 20, Add</i>	184.69	
	<i>For >20 To 50, Add</i>	147.75	
	<i>For >50 To 100, Add</i>	73.88	
26 01 10 91-0012	EA 2" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	732.63	
	Note: 4mm thick, aluminum frame, magnetic cover.		
	<i>For Up To 20, Add</i>	166.43	
	<i>For >20 To 50, Add</i>	133.14	
	<i>For >50 To 100, Add</i>	66.57	
26 01 10 91-0013	EA 3" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	1,015.14	
	Note: 4mm thick, aluminum frame, magnetic cover.		
	<i>For Up To 20, Add</i>	237.05	
	<i>For >20 To 50, Add</i>	189.64	
	<i>For >50 To 100, Add</i>	94.82	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01	10 91-0014	EA	4" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	1,878.03	
			Note: 4mm thick, aluminum frame, magnetic cover.		
			For Up To 20, Add	452.78	
			For >20 To 50, Add	362.22	
			For >50 To 100, Add	181.11	
26 01	10 91-0015	EA	3" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	844.92	
			Note: 4mm thick, aluminum frame, magnetic cover.		
			For Up To 20, Add	194.50	
			For >20 To 50, Add	155.60	
			For >50 To 100, Add	77.80	
26 01	10 91-0016	EA	4" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	1,253.98	
			Note: 4mm thick, aluminum frame, magnetic cover.		
			For Up To 20, Add	296.76	
			For >20 To 50, Add	237.41	
			For >50 To 100, Add	118.71	

26 01 20 Operation and Maintenance of Low-Voltage Electrical Distribution (26 01)

26 01 20 91 Low-Voltage Electrical Distribution Restoration (26 01 20)

26 01 20 91-0001			Lock Out/Tag Out Devices <small>(26 01 20 91)</small> Note: Includes following OSHA procedures and completing Owner's paperwork. Excludes circuit tracing.		
26 01 20 91-0002	EA		Lock Out/Tag Out Local Disconnect	39.09	
			Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).		
26 01 20 91-0003	EA		Lock Out/Tag Out Breaker Or Motor Starter	39.09	
			Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).		
26 01 20 91-0004	EA		Lock Out Padlock Device	10.86	
			Note: Includes the installation and removal of pad lock when required		
26 01 20 91-0005	EA		Lock Out Tags	4.44	
			Note: Includes filling out tag information, installation and removal of identifying tags.		
26 01 20 91-0006			Existing Circuit Tracing <small>(26 01 20 91)</small>		
26 01 20 91-0007	EA		Motors, Diconnects And Other Single Source Devices, Existing Circuit Tracing Per Device	22.58	
26 01 20 91-0008	EA		Lighting, Existing Circuit Tracing Per Circuit	22.58	

26 01 30 Operation and Maintenance of Facility Electrical Power Generating and Storing Equipment (26 01)

26 01 30 91 Facility Electrical Power Generating and Storing Equipment Restoration (26 01)

26 01 30 91-0001			Emergency Generator Permits <small>(26 01 30 91)</small>		
26 01 30 91-0002			Air Pollution Control Board <small>(26 01 30 91-0001)</small>		
26 01 30 91-0003	EA		APCD Permit To Construct And Operate Emergency Generator	4,541.34	

26 01 50 Operation and Maintenance of Lighting (26 01)

26 01 50 51 Luminaire Relamping (26 01 50)

26 01 50 51-0001			Replace Lamps In Existing Fixtures <small>(26 01 50 51)</small> Note: Includes removal of existing lamp from fixture and installation of new lamp. Excludes disposal of hazardous lamps. See CSI section 26 01 50 51-0370 for disposal of hazardous lamps.		
26 01 50 51-0002			Halogen Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0003	EA		300 Watt, T3, Tungsten Halogen Lamp	44.08	
26 01 50 51-0004	EA		500 Watt, T3, Tungsten Halogen Lamp	56.49	
26 01 50 51-0005	EA		1,000 Watt, T3, Tungsten Halogen Lamp	83.83	
26 01 50 51-0006	EA		90 Watt, PAR38, Halogen Lamp	21.35	
26 01 50 51-0007	EA		100 Watt, PAR38, Halogen Lamp	21.35	
26 01 50 51-0008	EA		60 Watt, PAR38, Halogen IR Reflective Lamp	45.09	
26 01 50 51-0009	EA		67 Watt, PAR38, Halogen IR Reflective Lamp	50.36	
26 01 50 51-0010	EA		70 Watt, PAR38, Halogen IR Reflective Lamp	49.00	
26 01 50 51-0011	EA		90 Watt, PAR38, Halogen IR Reflective Lamp	53.03	
26 01 50 51-0012	EA		100 Watt, PAR38, Halogen IR Reflective Lamp	53.89	
26 01 50 51-0013	EA		12 Watt, 10 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-65-B01-12-830-10)	23.32	
26 01 50 51-0014	EA		12 Watt, 20 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-20)	23.32	
26 01 50 51-0015	EA		12 Watt, 25 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-25)	25.79	
26 01 50 51-0016	EA		12 Watt, 36 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-36)	25.79	
26 01 50 51-0017			Incandescent Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0018	EA		100 Watt, Frosted, Interior Incandescent Lamp	6.13	
			For Multiple Lamps In Fixture, Deduct	-1.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0019 EA 150 Watt, Frosted, Interior Incandescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	7.52 -1.80	
26 01 50 51-0020 EA 200 Watt, Frosted, Interior Incandescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	9.10 -1.80	
26 01 50 51-0021 EA 300 Watt, PS25, Interior Incandescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	11.08 -1.80	
26 01 50 51-0022 EA 60 Watt, G25, Clear, Interior Incandescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	8.41 -1.80	
26 01 50 51-0023 EA 75 Watt, R20, Interior Incandescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	13.16 -2.16	
26 01 50 51-0024 EA 75 Watt, PAR38, Exterior Incandescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	15.93 -2.16	
26 01 50 51-0025 EA 100 Watt, PAR38, Exterior Incandescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	14.83 -2.16	
26 01 50 51-0026 EA 150 Watt, PAR38, Exterior Incandescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	25.33 -2.16	
26 01 50 51-0027 EA 250 Watt, PAR38, Exterior Incandescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	51.87 -2.51	
26 01 50 51-0028 EA 300 Watt, PAR56, Exterior Incandescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	59.58 -2.51	
26 01 50 51-0029 Exit Light Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0030 EA Convert Exit Light Lamps To Red LED Lamps <i>For Green LED Lamps, Add</i>	101.52 25.00	
26 01 50 51-0031 EA Fluorescent Lamp For Exit Light <i>For Multiple Lamps In Fixture, Deduct</i>	28.73 -7.19	
26 01 50 51-0032 EA Lamp Replacement For Emergency Lights On Exit Sign <i>For Multiple Lamps In Fixture, Deduct</i>	36.04 -3.59	
26 01 50 51-0033 Fluorescent Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0034 EA 18", 15 Watt, T8 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	11.55 -2.87	
26 01 50 51-0035 EA 2', 17 Watt, T8 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	14.01 -2.87	
26 01 50 51-0036 EA 3', 25 Watt, T8 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	16.11 -3.23	
26 01 50 51-0037 EA 4', 32 Watt, T8 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	15.26 -3.23	
26 01 50 51-0038 EA 4', 30 Watt, T8 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	20.34 -3.23	
26 01 50 51-0039 EA 4', 28 Watt, T8 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	17.76 -3.23	
26 01 50 51-0040 EA 4', 25 Watt, T8 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	17.66 -3.23	
26 01 50 51-0041 EA 4', 44 Watt, T8HO Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	28.76 -3.23	
26 01 50 51-0042 EA 8', 59 Watt, T8 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	21.79 -3.23	
26 01 50 51-0043 EA 18", 15 Watt, T12 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	17.74 -2.87	
26 01 50 51-0044 EA 2', 20 Watt, T12 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	13.31 -2.87	
26 01 50 51-0045 EA 3', 30 Watt, T12 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	14.94 -3.23	
26 01 50 51-0046 EA 4', 34 Watt, T12 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	15.02 -3.23	
26 01 50 51-0047 EA 4', 40 Watt, T12 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	14.70 -3.23	
26 01 50 51-0048 EA 8', 60 Watt, T12 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	22.36 -3.23	
26 01 50 51-0049 EA 8', 75 Watt, T12 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	18.79 -3.23	
26 01 50 51-0050 EA 8', 95 Watt, Instant Start T12 Fluorescent Lamp	29.74	
26 01 50 51-0051 EA 6" Diameter, 20 Watt, Circular T9 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	17.96 -2.87	
26 01 50 51-0052 EA 8" Diameter, 22 Watt, Circular T9 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	14.68 -2.87	
26 01 50 51-0053 EA 12" Diameter, 32 Watt, Circular T9 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	14.17 -2.87	
26 01 50 51-0054 EA 16" Diameter, 40 Watt, Circular T9 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	15.74 -2.87	
26 01 50 51-0055 EA 6", 4 Watt, T5 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	12.88 -2.87	
26 01 50 51-0056 EA 9", 6 Watt, T5 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	12.66 -2.87	
26 01 50 51-0057 EA 12", 8 Watt, T5 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	13.08 -2.87	
26 01 50 51-0058 EA 21", 13 Watt, T5 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	13.71 -2.87	
26 01 50 51-0059 EA 24", 14 Watt, T5 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	15.88 -2.87	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0060 EA 34", 21 Watt, T5 Fluorescent Lamp	17.26	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.23	
26 01 50 51-0061 EA 46", 28 Watt, T5 Fluorescent Lamp	16.69	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.23	
26 01 50 51-0062 EA 46", 54 Watt, T5HO Fluorescent Lamp	18.32	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.23	
26 01 50 51-0063 EA 46", 54 Watt T5 Fluorescent Lamp	15.29	
26 01 50 51-0064 EA 32 Watt, Rapid Start, U-Shaped T8 Fluorescent Lamp	26.25	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.59	
26 01 50 51-0065 EA 40 Watt, Rapid Start, U-Shaped T12 Fluorescent Lamp	25.28	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.59	
26 01 50 51-0066 EA 27-55 Watt, 4-Pin Compact Fluorescent Lamp	23.85	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.80	
26 01 50 51-0067 EA 5-13 Watt, 2-Pin Compact Fluorescent Lamp	10.29	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.80	
26 01 50 51-0068 EA 9-26 Watt, 4-Pin Compact Fluorescent Lamp	11.42	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.80	
26 01 50 51-0069 EA Compact Fluorescent 13 Watt, 4-Pin Lamps CF13DD/E/827, Dulux	30.97	
26 01 50 51-0070 EA Compact Fluorescent 18 Watt, 4-Pin Lamps CF18DD/E/827, Dulux	30.97	
26 01 50 51-0071 EA 32 Watt 2D (DoubleD) Fluorescent Lamp	59.12	
26 01 50 51-0072 EA 26 Watt (1,600 Lumens) 4-pin Quad Tube PL Lamp	21.21	
26 01 50 51-0073 EA <9 Watt, Screw-In, Spiral Compact Fluorescent Lamps	10.06	
26 01 50 51-0074 EA 9 To 27 Watt, Screw-In, Spiral Compact Fluorescent Lamps	8.73	
26 01 50 51-0075 EA 29 To 32 Watt, Screw-In, Spiral Compact Fluorescent Lamps	9.14	
26 01 50 51-0076 EA 33 To 42 Watt, Screw-In, Spiral Compact Fluorescent Lamps	36.70	
26 01 50 51-0077 EA 43 To 65 Watt, Screw-In, Spiral Compact Fluorescent Lamps	40.01	
26 01 50 51-0078 EA 85 Watt, Screw-In, Spiral Compact Fluorescent Lamps	75.91	
26 01 50 51-0079 EA 105 Watt, Screw-In, Spiral Compact Fluorescent Lamps	90.87	
26 01 50 51-0080 EA 200 Watt, Screw-In, Spiral Compact Fluorescent Lamps	93.91	
26 01 50 51-0081 EA 11 Watt, Screw-In, Compact Fluorescent Reflector Lamps	34.32	
26 01 50 51-0082 EA 15 Watt, Screw-In, Compact Fluorescent Reflector Lamps	35.78	
26 01 50 51-0083 EA 20 To 28 Watt, Screw-In, Compact Fluorescent Reflector Lamps	41.26	
26 01 50 51-0084 Metal Halide Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0085 EA 50 Watt, Pulse Start Metal Halide Lamp	45.40	
26 01 50 51-0086 EA 70 Watt, Pulse Start Metal Halide Lamp	43.39	
26 01 50 51-0087 EA 100 Watt, Pulse Start Metal Halide Lamp	49.75	
26 01 50 51-0088 EA 150 Watt, Pulse Start Metal Halide Lamp	48.31	
26 01 50 51-0089 EA 175 Watt, Pulse Start Metal Halide Lamp	47.89	
26 01 50 51-0090 EA 250 Watt, Pulse Start Metal Halide Lamp	48.17	
26 01 50 51-0091 EA 400 Watt, Pulse Start Metal Halide Lamp	58.31	
26 01 50 51-0092 EA 1,000 Watt, Pulse Start Metal Halide Lamp	68.03	
26 01 50 51-0093 EA 1,500 Watt, Pulse Start Metal Halide Lamp	67.62	
26 01 50 51-0094 High Pressure Sodium Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0095 EA 35 Watt, High Pressure Sodium Lamp	37.20	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.76	
26 01 50 51-0096 EA 50 Watt, High Pressure Sodium Lamp	37.20	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.76	
26 01 50 51-0097 EA 70 Watt, High Pressure Sodium Lamp	38.07	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.76	
26 01 50 51-0098 EA 100 Watt, High Pressure Sodium Lamp	39.72	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.76	
26 01 50 51-0099 EA 150 Watt, High Pressure Sodium Lamp	38.07	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.76	
26 01 50 51-0100 EA 250 Watt, High Pressure Sodium Lamp	38.07	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.76	
26 01 50 51-0101 EA 400 Watt, High Pressure Sodium Lamp	35.61	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.76	
26 01 50 51-0102 EA 1,000 Watt, High Pressure Sodium Lamp	84.25	
26 01 50 51-0103 Low Pressure Sodium Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0104 EA 35 Watt, Low Pressure Sodium Lamp	96.82	
26 01 50 51-0105 EA 55 Watt, Low Pressure Sodium Lamp	108.21	
26 01 50 51-0106 EA 70 Watt, Low Pressure Sodium Lamp	110.78	
26 01 50 51-0107 EA 90 Watt, Low Pressure Sodium Lamp	113.34	
26 01 50 51-0108 EA 135 Watt, Low Pressure Sodium Lamp	123.60	
26 01 50 51-0109 EA 180 Watt, Low Pressure Sodium Lamp	169.77	
26 01 50 51-0110 LED Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0111 LED Lamps, Candelabra Base, CA10 <small>(26 01 50 51-0110)</small>		
26 01 50 51-0112 EA 3 Watt (25 Watt Incandescent Equivalent), Candelabra Base, CA10, Dimmable LED Lamp (Energy Star)	14.20	
26 01 50 51-0113 LED Lamps, Medium Base, A19 Or A21 <small>(26 01 50 51-0110)</small>		
26 01 50 51-0114 EA 6 Watt (40 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	18.77	
26 01 50 51-0115 EA 11 Watt (60 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	18.77	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				26 01 50 51-0116 EA 14 Watt (75 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	31.05	
				26 01 50 51-0117 EA 17 Watt (75 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	21.87	
				26 01 50 51-0118 EA 18 Watt (100 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	38.72	
26 01 50 51-0119				LED Lamps, Medium Base, BR30 Or BR40 <small>(26 01 50 51-0110)</small>		
				26 01 50 51-0120 EA 9.5 Watt (65 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star)	25.42	
				26 01 50 51-0121 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star)	22.83	
				26 01 50 51-0122 EA 11 Watt (65 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	29.72	
				26 01 50 51-0123 EA 14.5 Watt (75 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	25.13	
				26 01 50 51-0124 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	32.79	
				26 01 50 51-0125 EA 18 Watt (90 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	25.13	
26 01 50 51-0126				LED Lamps, Medium Base, PAR <small>(26 01 50 51-0110)</small>		
				26 01 50 51-0127 EA 7 Watt (45 Watt Halogen Equivalent), Medium Base, PAR20, Dimmable LED Lamp (Energy Star)	27.88	
				26 01 50 51-0128 EA 12 Watt (60 Watt Halogen Equivalent), Medium Base, Short Neck Par30, Dimmable LED Lamp (Energy Star)	37.41	
				26 01 50 51-0129 EA 16.3 Watt (65 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	37.41	
				26 01 50 51-0130 EA 15.6 Watt (70 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	35.87	
				26 01 50 51-0131 EA 12 Watt (50 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	34.34	
				26 01 50 51-0132 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star)	34.34	
				26 01 50 51-0133 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star)	65.33	
				26 01 50 51-0134 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	37.41	
				26 01 50 51-0135 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	35.87	
				26 01 50 51-0136 EA 19 Watt (120 Watt Halogen Equivalent), Medium Base, Par38, Dimmable LED Lamp (Energy Star)	37.41	
				26 01 50 51-0137 EA 24 Watt (120 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	37.41	
26 01 50 51-0138				LED Lamps, GU Base, MR16 <small>(26 01 50 51-0110)</small>		
				26 01 50 51-0139 EA 4 Watt (20 Watt Halogen Equivalent), GU5.3 Base, MR16, LED Lamp (Energy Star)	19.76	
				26 01 50 51-0140 EA 6 Watt (30 Watt Halogen Equivalent), GU10 Base, MR16, Dimmable LED Lamp (Energy Star)	25.42	
				26 01 50 51-0141 EA 8 Watt (50 Watt Halogen Equivalent), GU5.3 Base, MR16, Dimmable LED Lamp (Energy Star)	27.88	
26 01 50 51-0142				LED Lamps, PL Series <small>(26 01 50 51-0110)</small>		
				26 01 50 51-0143 EA 3.5 Watt, 2-Pin CFL G23 Base , Hybrid Lamp (GreenCreative PLS 3.5 HYB G23)	17.34	
				26 01 50 51-0144 EA 26 Watt, 2700K CCT, PL EDGE DIRect Series (Green Creative 9.5PLH/827/DIR)	22.72	
				26 01 50 51-0145 EA 26 Watt, 3000K CCT, PL EDGE DIRect Series (Green Creative 9.5PLH/830/DIR)	19.01	
				26 01 50 51-0146 EA 26 Watt, 3500K CCT, PL EDGE DIRect Series (Green Creative 9.5PLH/835/DIR)	21.33	
				26 01 50 51-0147 EA 26 Watt, 4000K CCT, PL EDGE DIRect Series (Green Creative 9.5PLH/840/DIR)	21.33	
				26 01 50 51-0148 EA 26 Watt, 3000K CCT, High CRI, PL EDGE DIRect Series (Green Creative 10.5PLH/930/DIR)	25.49	
				26 01 50 51-0149 EA 13-18 Watt, 2700K CCT, PL EDGE DIRect Series (Green Creative 5.5PLH/827/DIR)	21.33	
				26 01 50 51-0150 EA 13-18 Watt, 3000K CCT, PL EDGE DIRect Series (Green Creative 5.5PLH/830/DIR)	21.33	
				26 01 50 51-0151 EA 13-18 Watt, 3500K CCT, PL EDGE DIRect Series (Green Creative 5.5PLH/835/DIR)	21.33	
				26 01 50 51-0152 EA 13-18 Watt, 4000K CCT, PL EDGE DIRect Series (Green Creative 5.5PLH/840/DIR)	21.33	
				26 01 50 51-0153 EA 26 Watt, 2700K CCT, PL EDGE DIRect Series (Green Creative 10PLV/827/DIR)	24.10	
				26 01 50 51-0154 EA 26 Watt, 3000K CCT, PL EDGE DIRect Series (Green Creative 10PLV/830/DIR)	24.10	
				26 01 50 51-0155 EA 26 Watt, 3500K CCT, PL EDGE DIRect Series (Green Creative 10PLV/835/DIR)	24.10	
				26 01 50 51-0156 EA 26 Watt, 4000K CCT, PL EDGE DIRect Series (Green Creative 10PLV/840/DIR)	24.10	
				26 01 50 51-0157 EA 26 Watt, 3000K CCT, High CRI, PL EDGE DIRect Series (Green Creative 11PLV/930/DIR)	22.72	
				26 01 50 51-0158 EA 13-18 Watt, 2700K CCT, PL EDGE DIRect Series (Green Creative 6.5PLV/827/DIR)	22.72	
				26 01 50 51-0159 EA 13-18 Watt, 3000K CCT, PL EDGE DIRect Series (Green Creative 6.5PLV/830/DIR)	22.72	
				26 01 50 51-0160 EA 13-18 Watt, 3500K CCT, PL EDGE DIRect Series (Green Creative 6.5PLV/835/DIR)	23.64	
				26 01 50 51-0161 EA 13-18 Watt, 4000K CCT, PL EDGE DIRect Series (Green Creative 6.5PLV/840/DIR)	23.64	
				26 01 50 51-0162 EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/827/BYP)	23.85	
				26 01 50 51-0163 EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/830/BYP)	23.85	
				26 01 50 51-0164 EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/835/BYP)	23.85	
				26 01 50 51-0165 EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/840/BYP)	23.85	
				26 01 50 51-0166 EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP)	24.57	
				26 01 50 51-0167 EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP)	24.57	
				26 01 50 51-0168 EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/E26)	24.57	
				26 01 50 51-0169 EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/E26)	24.57	
				26 01 50 51-0170 EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/E26)	24.57	
				26 01 50 51-0171 EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/GU24)	24.57	
				26 01 50 51-0172 EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/GU24)	24.57	
				26 01 50 51-0173 EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/GU24)	24.57	
				26 01 50 51-0174 EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/827/BYP)	31.80	
				26 01 50 51-0175 EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/830/BYP)	31.80	
				26 01 50 51-0176 EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/835/BYP)	31.80	
				26 01 50 51-0177 EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/840/BYP)	30.13	
				26 01 50 51-0178 EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 7PLV/835/BYP)	30.13	
				26 01 50 51-0179 EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 7PLV/840/BYP)	30.13	
				26 01 50 51-0180 EA 4 Pin, 6 Watt, 560 Lumens 4000K CCT, Horizontal Mount LED PL Lamp (Green Creative 57898)	24.15	
26 01 50 51-0181				HID LED Lamps, Medium Base E26 <small>(26 01 50 51-0110)</small>		
				26 01 50 51-0182 EA 27 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/840/277V/E26)	62.08	
				26 01 50 51-0183 EA 27 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/850/277V/E26)	62.08	
				26 01 50 51-0184 EA 45 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/840/277V/E26)	79.20	
				26 01 50 51-0185 EA 45 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/850/277V/E26)	79.20	

26 Electrical
26 01 Operation and Maintenance of Electrical Systems
26 01 50 Operation and Maintenance of Lighting



MINOR TOTAL DIRECT DEMOLITION
 CSI UOM DESCRIPTION UNIT COST UNIT COST

26 01 50 51-0186	EA	10 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-3026)	52.56	
26 01 50 51-0187	EA	10 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-4026)	52.56	
26 01 50 51-0188	EA	10 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-5026)	52.56	
26 01 50 51-0189	EA	10 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-6026)	52.56	
26 01 50 51-0190	EA	15 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-3026)	54.41	
26 01 50 51-0191	EA	15 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-4026)	54.41	
26 01 50 51-0192	EA	15 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-5026)	54.41	
26 01 50 51-0193	EA	15 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-6026)	54.41	
26 01 50 51-0194	EA	20 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-3026)	61.82	
26 01 50 51-0195	EA	20 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-4026)	61.82	
26 01 50 51-0196	EA	20 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-5026)	61.82	
26 01 50 51-0197	EA	20 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-6026)	61.82	
26 01 50 51-0198	EA	25 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-3026)	71.08	
26 01 50 51-0199	EA	25 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-4026)	71.08	
26 01 50 51-0200	EA	25 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-5026)	71.08	
26 01 50 51-0201	EA	25 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-6026)	71.08	
26 01 50 51-0202	EA	30 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-3026)	91.45	
26 01 50 51-0203	EA	30 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-4026)	91.45	
26 01 50 51-0204	EA	30 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-5026)	91.45	
26 01 50 51-0205	EA	30 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-6026)	91.45	
26 01 50 51-0206	EA	40 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-3026)	109.04	
26 01 50 51-0207	EA	40 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-4026)	109.04	
26 01 50 51-0208	EA	40 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-5026)	109.04	
26 01 50 51-0209	EA	40 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-6026)	109.04	
26 01 50 51-0210	EA	60 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-3026)	121.08	
26 01 50 51-0211	EA	60 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-4026)	121.08	
26 01 50 51-0212	EA	60 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-5026)	121.08	
26 01 50 51-0213	EA	60 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-6026)	121.08	
26 01 50 51-0214	EA	80 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-3026)	164.60	
26 01 50 51-0215	EA	80 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-4026)	164.60	
26 01 50 51-0216	EA	80 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-5026)	164.60	
26 01 50 51-0217	EA	80 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-6026)	164.60	
26 01 50 51-0218	EA	100 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-3026)	170.16	
26 01 50 51-0219	EA	100 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-4026)	170.16	
26 01 50 51-0220	EA	100 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-5026)	170.16	
26 01 50 51-0221	EA	100 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-6026)	170.16	
26 01 50 51-0222	EA	120 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-3026)	202.57	
26 01 50 51-0223	EA	120 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-4026)	202.57	
26 01 50 51-0224	EA	120 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-5026)	202.57	
26 01 50 51-0225	EA	120 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-6026)	202.57	
26 01 50 51-0226	EA	150 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-3026)	241.46	
26 01 50 51-0227	EA	150 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-4026)	241.46	
26 01 50 51-0228	EA	150 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-5026)	241.46	
26 01 50 51-0229	EA	150 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-6026)	241.46	
26 01 50 51-0230	EA	20 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED20WPT40KMED-G6)	77.32	
26 01 50 51-0231	EA	20 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED20WPT50KMED-G6)	83.80	
26 01 50 51-0232	EA	27 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED27WPT40KMED-G5)	83.80	
26 01 50 51-0233	EA	27 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED27WPT50KMED-G5)	77.32	
26 01 50 51-0234	EA	36 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED36WPT40KMED-G5)	97.69	
26 01 50 51-0235	EA	36 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED36WPT50KMED-G5)	89.36	
26 01 50 51-0236	EA	45 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED45WPT40KMED-G5)	107.88	
26 01 50 51-0237	EA	45 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED45WPT50KMED-G5)	106.79	
26 01 50 51-0238	EA	54 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED54WPT40KMED-G5)	109.27	
26 01 50 51-0239	EA	54 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED54WPT50KMED-G5)	109.27	
26 01 50 51-0240	EA	27 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED27WPT40KMED-G7)	65.31	
26 01 50 51-0241	EA	27 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED27WPT50KMED-G7)	65.31	
26 01 50 51-0242	EA	36 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED36WPT40KMED-G7)	73.88	
26 01 50 51-0243	EA	36 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED36WPT50KMED-G7)	73.88	
26 01 50 51-0244	EA	45 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED45WPT40KMED-G7)	79.57	
26 01 50 51-0245	EA	45 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED45WPT50KMED-G7)	79.57	
26 01 50 51-0246	EA	54 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED54WPT40KMED-G7)	88.13	
26 01 50 51-0247	EA	54 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED54WPT50KMED-G7)	88.13	
26 01 50 51-0248	EA	20 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-20W8-55K-E26)	88.57	
26 01 50 51-0249	EA	30 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-30W8-55K-E26)	96.17	
26 01 50 51-0250	EA	40 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-40W8-55K-E26)	120.15	
26 01 50 51-0251	EA	50 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-50W8-55K-E26)	132.56	
26 01 50 51-0252	EA	10 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-10W12-55K-E26)	50.79	
26 01 50 51-0253	EA	15 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-15W12-55K-E26)	57.46	
26 01 50 51-0254	EA	20 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-20W12-55K-E26)	60.79	
26 01 50 51-0255	EA	25 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-25W12-55K-E26)	67.00	
26 01 50 51-0256	EA	15 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148015-UNV)	81.00	
26 01 50 51-0257	EA	20 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148020-UNV)	95.25	
26 01 50 51-0258	EA	25 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148025-UNV)	130.86	
26 01 50 51-0259	EA	30 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148030-UNV)	137.98	
26 01 50 51-0260	EA	35 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148035-UNV)	149.38	
26 01 50 51-0261	EA	40 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148040-UNV)	156.50	
26 01 50 51-0262	EA	60 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148060-UNV)	226.32	
26 01 50 51-0263	EA	20 Watt, 5000K CCT, 120-277 Volt, E26 (Medium) Base, LED Retrofit Omni-Directional Lamp (HYLITE HL-IOD-20W-E26-50K)	65.34	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0264				HID LED Lamps, Mogul Base E39 Or EX39 <small>(26 01 50 51-0110)</small>		
26 01 50 51-0265	EA			120 Watt, 2700K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/827/277V/EX39)	215.59	
26 01 50 51-0266	EA			120 Watt, 5000K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/850/277V/EX39)	215.59	
26 01 50 51-0267	EA			120 Watt, 5700 CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/857/277V/EX39)	215.59	
26 01 50 51-0268	EA			27 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/830/277V/EX39)	62.08	
26 01 50 51-0269	EA			27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/840/277V/EX39/R)	62.08	
26 01 50 51-0270	EA			27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/850/277V/EX39)	62.08	
26 01 50 51-0271	EA			45 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/830/277V/EX39)	79.20	
26 01 50 51-0272	EA			45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/840/277V/EX39/R)	79.20	
26 01 50 51-0273	EA			45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/850/277V/EX39)	79.20	
26 01 50 51-0274	EA			80 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 80HID/850/277V/EX39)	148.65	
26 01 50 51-0275	EA			80 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-3039)	164.60	
26 01 50 51-0276	EA			80 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-4039)	164.60	
26 01 50 51-0277	EA			80 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-5039)	164.60	
26 01 50 51-0278	EA			80 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-6039)	164.60	
26 01 50 51-0279	EA			100 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-3039)	170.16	
26 01 50 51-0280	EA			100 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-4039)	170.16	
26 01 50 51-0281	EA			100 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-5039)	170.16	
26 01 50 51-0282	EA			100 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-6039)	170.16	
26 01 50 51-0283	EA			120 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-3039)	202.57	
26 01 50 51-0284	EA			120 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-4039)	202.57	
26 01 50 51-0285	EA			120 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-5039)	202.57	
26 01 50 51-0286	EA			120 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-6039)	202.57	
26 01 50 51-0287	EA			150 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-3039)	241.46	
26 01 50 51-0288	EA			150 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-4039)	241.46	
26 01 50 51-0289	EA			150 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-5039)	241.46	
26 01 50 51-0290	EA			150 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-6039)	241.46	
26 01 50 51-0291	EA			27 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT40KMOG-G5)	83.80	
26 01 50 51-0292	EA			27 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT50KMOG-G5)	83.80	
26 01 50 51-0293	EA			36 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT40KMOG-G5)	97.69	
26 01 50 51-0294	EA			36 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT50KMOG-G5)	96.42	
26 01 50 51-0295	EA			45 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT40KMOG-G5)	107.88	
26 01 50 51-0296	EA			45 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT50KMOG-G5)	106.79	
26 01 50 51-0297	EA			54 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT40KMOG-G5)	109.27	
26 01 50 51-0298	EA			54 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT50KMOG-G5)	106.05	
26 01 50 51-0299	EA			100 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED100WPT40KMOG-G5)	231.96	
26 01 50 51-0300	EA			20 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED20WPT180/40KMOG-G7)	83.78	
26 01 50 51-0301	EA			20 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/50KMOG-G7)	83.78	
26 01 50 51-0302	EA			30 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/40KMOG-G7)	95.30	
26 01 50 51-0303	EA			30 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/50KMOG-G7)	95.30	
26 01 50 51-0304	EA			40 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/40KMOG-G7)	102.22	
26 01 50 51-0305	EA			40 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/50KMOG-G7)	102.22	
26 01 50 51-0306	EA			27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT40KMOG-G7)	65.20	
26 01 50 51-0307	EA			27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT50KMOG-G7)	65.20	
26 01 50 51-0308	EA			36 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT40KMOG-G7)	73.88	
26 01 50 51-0309	EA			36 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT50KMOG-G7)	73.88	
26 01 50 51-0310	EA			45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT40KMOG-G7)	79.57	
26 01 50 51-0311	EA			45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT50KMOG-G7)	79.57	
26 01 50 51-0312	EA			54 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT40KMOG-G7)	88.13	
26 01 50 51-0313	EA			54 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT50KMOG-G7)	88.13	
26 01 50 51-0314	EA			65 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-65W8-55K-E39)	160.25	
26 01 50 51-0315	EA			80 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-80W8-55K-E39)	185.62	
26 01 50 51-0316	EA			100 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-100W8-55K-E39)	221.73	
26 01 50 51-0317	EA			120 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-120W8-55K-E39)	434.40	
26 01 50 51-0318	EA			150 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-150W8-55K-E39)	410.11	
26 01 50 51-0319	EA			200 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-200W8-55K-E39)	434.40	
26 01 50 51-0320	EA			250 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-250W8-55K-E39)	436.29	
26 01 50 51-0321	EA			24 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M30-A)	64.77	
26 01 50 51-0322	EA			24 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M40-A)	64.77	
26 01 50 51-0323	EA			24 Watt, 5700K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M57-A)	64.77	
26 01 50 51-0324	EA			100 Watt, Mogul Base E39, LED Area Lamp (MaxLite AR100LED50)	193.22	
26 01 50 51-0325	EA			115 Watt, 4000K CCT, Mogul Base EX39, HID LED Lamp (Keystone KT-LED115HID-V-EX39-840-D)	380.04	
26 01 50 51-0326	EA			40 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Arc-Cob Lamp (HYLITE HL-AC-40W-E39-50K)	177.29	
26 01 50 51-0327	EA			100 Watt, 480 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-100W-E39-50K)	209.29	
26 01 50 51-0328	EA			45 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-45W-E39-50K)	90.93	
26 01 50 51-0329	EA			40 Watt, 5680 Lumens, Mogul Base E39, LED Directional Flood Lamp (HYLITE HL-IDL-40W-E39-50K)	264.29	
26 01 50 51-0330				LED Lamps, 2G11 Base <small>(26 01 50 51-0110)</small>		
26 01 50 51-0331	EA			19 Watt, 1550 Lumens, 3500K CCT, 2G11 Base, Dimmable LED Lamp (Green Creative 14.5PLL/835/DIR)	44.31	
26 01 50 51-0332				LED Lamps, GX23 Or G23 Base <small>(26 01 50 51-0110)</small>		
26 01 50 51-0333	EA			5 Watt, 580 Lumens, 2 Pin GX23 Base, Dimmable LED Lamp (Lunera HN-H-GX23-U-5W-840-G4)	21.65	
26 01 50 51-0334				LED Lamps, G24 Base <small>(26 01 50 51-0110)</small>		
26 01 50 51-0335	EA			5.5 Watt, 500 Lumens, G24 Base, LED Lamp (Green Creative 5.5PLH/835/DIR/R)	22.22	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 01 50 51-0336 LED Tubes (Fluorescent Lamp Replacement) <small>(26 01 50 51-0110)</small>			
26 01 50 51-0337	EA 2', 1,250 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24IN-4000K)	38.72	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	
26 01 50 51-0338	EA 2', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24IN-4000K)	50.52	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	
26 01 50 51-0339	EA 3', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-36IN-4000K)	41.73	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-3.06	
26 01 50 51-0340	EA 4', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-48IN-4000K)	45.71	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-3.23	
26 01 50 51-0341	EA 4', 2,200 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2HO-T8-48IN-4000K)	50.14	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-3.23	
26 01 50 51-0342	EA 4', 2,539 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02018TBN)	31.33	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-3.23	
26 01 50 51-0343	EA 2', 1,348 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02010TBN)	30.24	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	
26 01 50 51-0344	EA 2', 1,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED9T8/L24/FG/835/BF)	27.49	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-2.87	
26 01 50 51-0345	EA 3', 1,650 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED12T8/L36/FG/835/BF)	27.96	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-3.06	
26 01 50 51-0346	EA 4', 1,700 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED14T8/L48/FG/835/BF)	27.92	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-3.23	
26 01 50 51-0347	EA 4', 2,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED17T8/L48/FG/835/BF)	28.97	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-3.23	

26 01 50 51-0348 Filament LED Lamps <small>(26 01 50 51-0110)</small>			
26 01 50 51-0349	EA 7.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 7.5FA19DIM/827)	19.49	
26 01 50 51-0350	EA 4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5A19DIM/827/R)	19.49	
26 01 50 51-0351	EA 4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5FA19DIM/827)	18.57	
26 01 50 51-0352	EA 4.5 Watt, 2400 CCT, Amber A19 Filament LED Lamp (Green Creative 4.5FA19DIM/824/A)	18.57	
26 01 50 51-0353	EA 4.5 Watt, 2700K CCT, Clear G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/827)	20.05	
26 01 50 51-0354	EA 4.5 Watt, 2400 CCT, Amber G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/824/A)	20.05	
26 01 50 51-0355	EA 3.5 Watt, 2700K CCT, Clear B10 Candle Filament LED Lamp (Green Creative 3.5FB10DIM/827)	16.72	
26 01 50 51-0356	EA 3.5 Watt, 2700K CCT, Clear B11 Candle Filament LED Lamp (Green Creative 3.5FB11DIM/827/E26)	16.72	
26 01 50 51-0357	EA 3.5 Watt, 2400 CCT, Amber B10 Candle Filament LED Lamp (Green Creative 3.5FBA10DIM/824/FT/A)	17.27	
26 01 50 51-0358	EA 3.5 Watt, 2400 CCT, Amber ST19 Filament LED Lamp (Green Creative 5FST19DIM/824/A)	21.35	
26 01 50 51-0359	EA 4.5 Watt, 120 Volt 450 Lumens ULTRA LED Filament Lamp (Sylvania 79521)	20.97	

26 01 50 51-0360 Other Lamps <small>(26 01 50 51-0110)</small>			
26 01 50 51-0361	EA 8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 8A19/END/2700 DIM 6/1)	18.42	
26 01 50 51-0362	EA 8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 7A19/2700 DIM)	18.42	
26 01 50 51-0363	EA 11 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 11A19/2700 DIM)	18.42	
26 01 50 51-0364	EA 12 Watt, Medium Base, Dimmable BR40 LED Lamp (Philips 12BR40/F90 2700 DIM AF 6/1)	19.35	
26 01 50 51-0365	EA 13 Watt, Medium Base, Dimmable PAR38 LED Single Optic Lamp (Philips 13PAR38/S15 4000 DIM AF SO 6/1)	19.35	
26 01 50 51-0366	EA 8 Watt, Medium Base, Dimmable PAR20 LED Lamp (Philips 8PAR20/END/F36 3000 DIM 6/1)	19.35	

26 01 50 51-0367 LED Lamps, Light Engines, Round, LER Series <small>(26 01 50 51-0110)</small>			
26 01 50 51-0368	EA 5.5" Diameter, 17 Watt, 3000K CCT, Round LED Light Engine (Maxlite LER5.5A1730)	50.51	
26 01 50 51-0369	EA 9 Watt, 120 Volt, 800 Lumens, 2700K, Omnidirectional Ultra LED A-line Lamp (Sylvania LED9A19/DIM/O/827/U)	28.64	

26 01 50 51-0370 Recycle Hazardous Lamps <small>(26 01 50 51)</small>			
Note: Includes containers, shipping costs and recycling fees. Excludes lamp removal. See CSI section 01 22 23 00-0001 for work over 14' to add appropriate aerial lift, 26 01 50 51-0001 for removal of lamps from fixtures.			
26 01 50 51-0371	EA Recycle 2' Length Linear Fluorescent Lamps	0.43	
26 01 50 51-0372	EA Recycle 3' Length Linear Fluorescent Lamps	0.65	
26 01 50 51-0373	EA Recycle 4' Length Linear Fluorescent Lamps	0.87	
26 01 50 51-0374	EA Recycle 6' Length Linear Fluorescent Lamps	1.30	
26 01 50 51-0375	EA Recycle 8' Length Linear Fluorescent Lamps	1.74	
26 01 50 51-0376	EA Recycle Compact Fluorescent Lamps	0.78	
26 01 50 51-0377	EA Recycle U-Shaped Or Circular Fluorescent Lamps	0.78	
26 01 50 51-0378	EA Recycle High Intensity Discharge (HID) Lamps	2.72	

26 01 50 52 Ballasts Replacement <small>(26 01 50)</small>			
26 01 50 52-0001	High Intensity Discharge (HID) Ballasts <small>(26 01 50 52)</small>		
26 01 50 52-0002	Magnetic High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0001)</small>		
26 01 50 52-0003	Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0002)</small>		
26 01 50 52-0004	Metal Halide, Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0003)</small>		
26 01 50 52-0005	EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	169.79	27.22
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0006 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	174.05 11.43	27.22
26 01 50 52-0007 EA 1 Lamp, 250 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	174.05 11.43	27.22
26 01 50 52-0008 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	161.93 11.43	27.22
26 01 50 52-0009 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	161.93 11.43	27.22
26 01 50 52-0010 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	243.17 11.43	27.22
26 01 50 52-0011 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	243.17 11.43	27.22
26 01 50 52-0012 EA 1 Lamp, 1,500 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	314.73 11.43	27.22
26 01 50 52-0013 EA 1 Lamp, 1,500 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	351.24 11.43	27.22
26 01 50 52-0014 High Pressure Sodium, Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0003)</small>		
26 01 50 52-0015 EA 1 Lamp, 50 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	152.96 11.43	27.22
26 01 50 52-0016 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	162.48 11.43	27.22
26 01 50 52-0017 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	158.37 11.43	27.22
26 01 50 52-0018 EA 1 Lamp, 150 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	186.99 11.43	27.22
26 01 50 52-0019 EA 1 Lamp, 150 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	182.90 11.43	27.22
26 01 50 52-0020 EA 1 Lamp, 250 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	209.46 11.43	27.22
26 01 50 52-0021 EA 1 Lamp, 250 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	209.46 11.43	27.22
26 01 50 52-0022 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	253.63 11.43	27.22
26 01 50 52-0023 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	253.63 11.43	27.22
26 01 50 52-0024 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	408.61 11.43	27.22
26 01 50 52-0025 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	408.61 11.43	27.22
26 01 50 52-0026 Mounting Brackets For Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0003)</small>		
26 01 50 52-0027 EA Single Mounting Bracket For Core And Coil Type <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.18 3.27	
26 01 50 52-0028 EA Double Mounting Bracket For Core And Coil Type <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.96 4.90	
26 01 50 52-0029 F-Can High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0002)</small>		
26 01 50 52-0030 Metal Halide, F-Can High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0029)</small>		
26 01 50 52-0031 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	216.69 17.86 11.43	27.22
26 01 50 52-0032 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	228.50 19.04 11.43	27.22
26 01 50 52-0033 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	207.75 16.96 11.43	27.22
26 01 50 52-0034 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	241.85 20.37 11.43	27.22
26 01 50 52-0035 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	337.44 29.93 11.43	27.22
26 01 50 52-0036 High Pressure Sodium, F-Can High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0029)</small>		
26 01 50 52-0037 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	261.45 11.43	27.22
26 01 50 52-0038 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	279.87 11.43	27.22
26 01 50 52-0039 Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0002)</small>		
26 01 50 52-0040 Metal Halide, Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0039)</small>		

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0041 EA 1 Lamp, 50 Watt Metal Halide, 120 Volt, Postline High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	437.97 11.43	27.22
26 01 50 52-0042 High Pressure Sodium, Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0039)		
26 01 50 52-0043 EA 1 Lamp, 70 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	677.01 11.40	27.15
26 01 50 52-0044 EA 1 Lamp, 100 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	755.51 11.40	27.15
26 01 50 52-0045 EA 1 Lamp, 150 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	728.35 11.40	27.15
26 01 50 52-0046 Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)		
26 01 50 52-0047 Metal Halide, Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0046)		
26 01 50 52-0048 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	540.22 11.43	27.22
26 01 50 52-0049 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	613.72 11.43	27.22
26 01 50 52-0050 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	811.94 11.43	27.22
26 01 50 52-0051 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	807.67 11.43	27.22
26 01 50 52-0052 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,133.06 12.09	29.40
26 01 50 52-0053 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,133.06 12.09	29.40
26 01 50 52-0054 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	778.51 11.43	27.22
26 01 50 52-0055 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	916.66 11.43	27.22
26 01 50 52-0056 High Pressure Sodium, Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0046)		
26 01 50 52-0057 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,011.65 11.43	27.22
26 01 50 52-0058 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	962.96 11.43	27.22
26 01 50 52-0059 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,239.01 11.43	27.22
26 01 50 52-0060 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,239.01 11.43	27.22
26 01 50 52-0061 Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)		
26 01 50 52-0062 Metal Halide, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0061)		
26 01 50 52-0063 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	607.57 11.43	27.22
26 01 50 52-0064 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	656.63 11.43	27.22
26 01 50 52-0065 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	651.80 11.43	27.22
26 01 50 52-0066 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	684.66 11.43	27.22
26 01 50 52-0067 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,090.20 12.09	29.40
26 01 50 52-0068 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,341.17 12.09	29.40
26 01 50 52-0069 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,017.36 11.43	27.22
26 01 50 52-0070 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	925.85 11.43	27.22
26 01 50 52-0071 High Pressure Sodium, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0061)		
26 01 50 52-0072 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	785.58 11.43	27.22
26 01 50 52-0073 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	847.45 11.43	27.22
26 01 50 52-0074 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,267.57 11.43	27.22
26 01 50 52-0075 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,090.07 11.43	27.22



	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0076	Electronic High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0001)</small>		
26 01 50 52-0077	Electronic Low Frequency High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0076)</small>		
26 01 50 52-0078	EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	240.22	27.22
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.43	
26 01 50 52-0079	EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	240.22	27.22
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.43	
26 01 50 52-0080	EA 1 Lamp, 150 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	271.23	27.22
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.43	
26 01 50 52-0081	EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	705.82	27.22
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.43	
26 01 50 52-0082	EA 1 Lamp, 300 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	705.82	27.22
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.43	
26 01 50 52-0083	EA 1 Lamp, 320 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	705.82	27.22
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.43	
26 01 50 52-0084	EA 1 Lamp, 350 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	705.82	27.22
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.43	
26 01 50 52-0085	EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	705.82	27.22
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.43	
26 01 50 52-0086	Owner Supplied Ballasts <small>(26 01 50 52)</small>		
26 01 50 52-0087	EA Install Owner Supplied, 1 Lamp Fluorescent Ballast.....	21.78	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.53	
26 01 50 52-0088	EA Install Owner Supplied, 2 Lamp Fluorescent Ballast.....	27.22	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.17	
26 01 50 52-0089	EA Install Owner Supplied, 3 Lamp Fluorescent Ballast.....	31.58	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.47	
26 01 50 52-0090	EA Install Owner Supplied, 4 Lamp Fluorescent Ballast.....	33.75	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.13	
26 01 50 52-0091	EA Install Owner Supplied, 1 Lamp High Intensity Discharge (HID) Ballast.....	38.11	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.43	
26 01 50 52-0092	EA Install Owner Supplied, 2 Lamp High Intensity Discharge (HID) Ballast.....	40.29	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.09	
26 01 50 53	Lens and Accessory Replacement <small>(26 01 50)</small>		
26 01 50 53-0001	Lens and Accessory Replacement <small>(26 01 50 53)</small>		
26 01 50 53-0002	EA Removal And Replacement Of Parabolic Aluminum Louver.....	80.32	
26 01 50 53-0003	EA Removal And Replacement Of Visor For Fixtures.....	173.69	
26 01 50 53-0004	EA Removal And Replacement Of Globe On Pole.....	199.36	
26 01 50 53-0005	EA Removal And Replacement Of Lenses For Flat Top Pole Fixtures.....	82.45	
26 01 50 53-0006	EA Removal And Replacement Of 1' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	28.08	
26 01 50 53-0007	EA Removal And Replacement Of 2' x 2' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	29.11	
26 01 50 53-0008	EA Removal And Replacement Of 2' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	33.55	
26 01 50 53-0009	EA Removal And Replacement Of Slide-On Lampholder.....	12.46	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.26	
26 01 50 53-0010	EA Removal And Replacement Of Screw Mount Lampholder.....	12.62	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.26	
26 01 50 53-0011	EA Removal And Replacement Of Medium Bi-Pin Lampholder.....	13.98	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.26	
26 01 50 53-0012	EA Removal And Replacement Of Fixed High Output Lampholder, Recessed, Double Contact Double Pedestal Type.....	16.06	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.26	
26 01 50 53-0013	EA Removal And Replacement Of Plunger High Output Lampholder, Recessed, Double Contact Double Pedestal Type.....	17.42	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.26	
26 01 50 53-0014	EA Removal And Replacement Of Compact Twin-Tube Lampholder, Snap-in.....	13.77	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.26	
26 01 50 53-0015	EA Removal And Replacement Of Exterior Light Globes.....	54.15	
26 05	Common Work Results for Electrical <small>(26)</small>		
26 05 13	Medium-Voltage Cables <small>(26 05)</small>		
26 05 13 16	Medium-Voltage, Single-and Multi-Conductor Cables <small>(26 05 13)</small>		
26 05 13 16-0001	Wire And Cable <small>(26 05 13 16)</small>		
	Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.		
26 05 13 16-0002	5 KV Cable <small>(26 05 13 16-0001)</small>		
26 05 13 16-0003	Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct <small>(26 05 13 16-0002)</small>		
26 05 13 16-0004	MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	3,753.42	886.24
26 05 13 16-0005	MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,498.28	967.68
26 05 13 16-0006	MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,410.56	1,093.33
26 05 13 16-0007	MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,070.01	1,347.03

26 Electrical**26 05 Common Work Results for Electrical****26 05 13 Medium-Voltage Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0008 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,064.36	1,516.88
26 05 13 16-0009 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,019.48	1,683.69
26 05 13 16-0010 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,280.25	1,891.81
26 05 13 16-0011 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	13,487.00	2,104.71
26 05 13 16-0012 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	15,681.35	2,512.97
26 05 13 16-0013 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	19,916.47	2,953.94
26 05 13 16-0014 MLF 750 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	30,303.93	3,481.54
26 05 13 16-0015 MLF 1,000 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	40,696.92	4,008.88
26 05 13 16-0016 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial (26 05 13 16-0002)		
Note: Excludes excavation.		
26 05 13 16-0017 MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	3,642.64	
26 05 13 16-0018 MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,183.79	
26 05 13 16-0019 MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,781.90	
26 05 13 16-0020 MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,015.36	
26 05 13 16-0021 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,584.98	
26 05 13 16-0022 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,330.70	
26 05 13 16-0023 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,071.21	
26 05 13 16-0024 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,958.68	
26 05 13 16-0025 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	12,242.91	
26 05 13 16-0026 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	15,475.26	
26 05 13 16-0027 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) (26 05 13 16-0002)		
26 05 13 16-0028 MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,008.92	550.47
26 05 13 16-0029 MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,656.53	590.21
26 05 13 16-0030 MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,671.71	746.39
26 05 13 16-0031 MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,123.83	906.09
26 05 13 16-0032 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,114.54	1,063.67
26 05 13 16-0033 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	9,060.82	1,216.42
26 05 13 16-0034 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	10,322.27	1,411.38
26 05 13 16-0035 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	12,970.29	1,775.61
26 05 13 16-0036 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	15,402.57	2,246.70
26 05 13 16-0037 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	20,074.92	2,822.76
26 05 13 16-0038 5 KV Non-Shielded Single Copper Conductor (26 05 13 16-0002)		
26 05 13 16-0039 MLF 1/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,259.34	1,766.16
26 05 13 16-0040 MLF 2/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,668.25	1,791.53
26 05 13 16-0041 MLF 3/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,077.16	1,816.92
26 05 13 16-0042 MLF 4/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,561.75	1,857.07
26 05 13 16-0043 MLF 350 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	14,018.28	1,927.92
26 05 13 16-0044 MLF 500 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	20,426.99	2,020.48
26 05 13 16-0045 MLF 750 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	31,940.31	2,525.60
26 05 13 16-0046 MLF 1,000 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	36,607.60	3,367.52
26 05 13 16-0047 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct (26 05 13 16-0002)		
26 05 13 16-0048 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,030.25	886.24
26 05 13 16-0049 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,872.52	967.68
26 05 13 16-0050 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,892.46	1,093.33
26 05 13 16-0051 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	6,814.30	1,220.12
26 05 13 16-0052 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,736.47	1,347.03
26 05 13 16-0053 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,833.35	1,516.88
26 05 13 16-0054 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,065.30	1,683.69
26 05 13 16-0055 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,459.36	1,891.81
26 05 13 16-0056 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	14,967.56	2,104.71
26 05 13 16-0057 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	17,373.13	2,512.97
26 05 13 16-0058 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	22,172.17	2,953.94
26 05 13 16-0059 MLF 750 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	34,192.51	3,481.54
26 05 13 16-0060 MLF 1,000 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	46,218.36	4,008.88
26 05 13 16-0061 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial (26 05 13 16-0002)		
Note: Excludes excavation.		
26 05 13 16-0062 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	3,919.48	
26 05 13 16-0063 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,558.03	
26 05 13 16-0064 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,263.80	
26 05 13 16-0065 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,973.29	
26 05 13 16-0066 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,681.81	
26 05 13 16-0067 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,353.97	
26 05 13 16-0068 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,376.52	
26 05 13 16-0069 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,250.32	
26 05 13 16-0070 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	12,439.24	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0071	MLF	350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	13,934.68	
26 05 13 16-0072	MLF	500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	17,730.96	
26 05 13 16-0073		Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) ^(26 05 13 16-0002)		
26 05 13 16-0074	MLF	#6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,285.75	550.47
26 05 13 16-0075	MLF	#4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,030.77	590.21
26 05 13 16-0076	MLF	#2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	5,153.61	746.39
26 05 13 16-0077	MLF	#1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	5,970.45	825.65
26 05 13 16-0078	MLF	1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,790.29	906.09
26 05 13 16-0079	MLF	2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,883.53	1,063.67
26 05 13 16-0080	MLF	3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	10,106.64	1,216.42
26 05 13 16-0081	MLF	4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	11,501.38	1,411.38
26 05 13 16-0082	MLF	250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	14,450.85	1,775.61
26 05 13 16-0083	MLF	350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	17,094.34	2,246.70
26 05 13 16-0084	MLF	500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	22,330.62	2,822.76
26 05 13 16-0085		15 KV Cable ^(26 05 13 16-0001)		
26 05 13 16-0086		Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable ^(26 05 13 16-0085)		
26 05 13 16-0087		Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct ^(26 05 13 16-0086)		
26 05 13 16-0088	MLF	#4 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	8,210.90	1,766.16
26 05 13 16-0089	MLF	#2 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	8,983.02	1,766.16
26 05 13 16-0090	MLF	#1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,277.53	1,766.16
26 05 13 16-0091	MLF	1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	10,236.95	1,766.16
26 05 13 16-0092	MLF	2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	11,147.59	1,766.16
26 05 13 16-0093	MLF	3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	12,869.53	1,843.57
26 05 13 16-0094	MLF	4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	13,227.27	1,843.57
26 05 13 16-0095	MLF	250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	15,389.73	1,927.92
26 05 13 16-0096	MLF	350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	17,600.41	1,973.13
26 05 13 16-0097	MLF	500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	21,850.20	2,222.53
26 05 13 16-0098		Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial ^(26 05 13 16-0086) Note: Excludes excavation.		
26 05 13 16-0099	MLF	#1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,377.69	
26 05 13 16-0100	MLF	1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,337.10	
26 05 13 16-0101	MLF	2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,247.73	
26 05 13 16-0102	MLF	3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,994.11	
26 05 13 16-0103	MLF	4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	11,351.84	
26 05 13 16-0104	MLF	250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	13,618.42	
26 05 13 16-0105	MLF	350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	15,832.50	
26 05 13 16-0106	MLF	500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	19,829.73	
26 05 13 16-0107		Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) ^(26 05 13 16-0085)		
26 05 13 16-0108	MLF	#1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,963.49	786.37
26 05 13 16-0109	MLF	1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	8,242.85	906.09
26 05 13 16-0110	MLF	2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	9,574.57	1,063.67
26 05 13 16-0111	MLF	3/0 AWG, XLP, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable.....	11,511.45	1,216.42
26 05 13 16-0112	MLF	4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	12,390.12	1,411.38
26 05 13 16-0113	MLF	250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	14,960.73	1,643.04
26 05 13 16-0114	MLF	350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	17,783.87	1,914.56
26 05 13 16-0115	MLF	500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	22,237.05	2,223.93
26 05 13 16-0116		Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable ^(26 05 13 16-0085)		
26 05 13 16-0117		Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct ^(26 05 13 16-0116)		
26 05 13 16-0118	MLF	#4 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	8,894.09	1,766.16
26 05 13 16-0119	MLF	#2 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,805.19	1,766.16
26 05 13 16-0120	MLF	#1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	10,152.72	1,766.16
26 05 13 16-0121	MLF	1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	11,284.84	1,766.16
26 05 13 16-0122	MLF	2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	12,359.38	1,766.16
26 05 13 16-0123	MLF	3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	14,356.46	1,843.57
26 05 13 16-0124	MLF	4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	14,778.61	1,843.57
26 05 13 16-0125	MLF	250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	17,292.31	1,927.92
26 05 13 16-0126	MLF	350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	19,880.58	1,973.13
26 05 13 16-0127	MLF	500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	24,783.10	2,222.53

26 Electrical**26 05 Common Work Results for Electrical****26 05 13 Medium-Voltage Cables**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0128			Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial (26 05 13 16-0116) Note: Excludes excavation.		
26 05 13 16-0129	MLF		#1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	8,252.87	
26 05 13 16-0130	MLF		1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	9,384.98	
26 05 13 16-0131	MLF		2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,459.53	
26 05 13 16-0132	MLF		3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	12,481.04	
26 05 13 16-0133	MLF		4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	12,903.17	
26 05 13 16-0134	MLF		250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	15,515.46	
26 05 13 16-0135	MLF		350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	18,104.75	
26 05 13 16-0136	MLF		500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	22,762.63	
26 05 13 16-0137			Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) (26 05 13 16-0116)		
26 05 13 16-0138	MLF		#1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	7,838.67	786.37
26 05 13 16-0139	MLF		1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	9,290.73	906.09
26 05 13 16-0140	MLF		2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	10,786.37	1,063.67
26 05 13 16-0141	MLF		3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	12,998.38	1,216.42
26 05 13 16-0142	MLF		4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	13,941.45	1,411.38
26 05 13 16-0143	MLF		250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	16,863.31	1,643.04
26 05 13 16-0144	MLF		350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	20,064.04	1,914.56
26 05 13 16-0145	MLF		500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	25,169.95	2,223.93
26 05 13 16-0146			15 KV Non-Shielded Single Copper Conductor (26 05 13 16-0085)		
26 05 13 16-0147	MLF		1/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	12,331.84	1,772.34
26 05 13 16-0148	MLF		2/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	10,462.48	1,814.71
26 05 13 16-0149	MLF		3/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	16,347.78	1,857.07
26 05 13 16-0150	MLF		350 MCM, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	22,881.49	1,980.83
26 05 13 16-0151			Shielded, Armored Copper, 15 KV, 3 Conductor Cable (26 05 13 16-0085) Note: Laid in cable tray or hung in vertical cable shaft.		
26 05 13 16-0152			Galvanized Steel Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0153	LF		3 Conductors, #2 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	54.93	13.52
26 05 13 16-0154	LF		3 Conductors, 1/0 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	66.87	14.39
26 05 13 16-0155			Aluminum Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0156	LF		3 Conductors, #2 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	54.93	13.52
26 05 13 16-0157	LF		3 Conductor, 1/0 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	66.87	14.39
26 05 13 16-0158			Type URD, 15 KV Primary Concentric UD Cable (26 05 13 16-0085) Note: 0.175" XLPE insulation, copper conductor.		
26 05 13 16-0159	MLF		#4 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	4,056.35	886.24
26 05 13 16-0160	MLF		#2 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	4,907.79	967.68
26 05 13 16-0161	MLF		#1 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	5,937.88	1,093.33
26 05 13 16-0162	MLF		1/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	7,790.33	1,343.37
26 05 13 16-0163	MLF		2/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	8,894.47	1,512.33
26 05 13 16-0164	MLF		3/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	11,163.88	1,683.69
26 05 13 16-0165	MLF		4/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	12,552.84	1,884.73
26 05 13 16-0166			15 KV, URD Copper Cable, Direct Burial (26 05 13 16-0085)		
26 05 13 16-0167	MLF		3 Conductors, #6 AWG, 15 KV, URD Copper Cable, Direct Burial	22,038.81	
26 05 13 16-0168			Wire Connections (26 05 13 16-0001)		
26 05 13 16-0169			Medium Voltage Up To 5 KV (26 05 13 16-0168)		
26 05 13 16-0170			Shielded One Conductor Cable Splice (26 05 13 16-0169)		
26 05 13 16-0171	EA		#6 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	346.80	108.38
26 05 13 16-0172	EA		#2 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	474.27	108.38
26 05 13 16-0173	EA		1/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	474.27	108.38
26 05 13 16-0174	EA		2/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	506.53	130.05
26 05 13 16-0175	EA		3/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	506.53	130.05
26 05 13 16-0176	EA		4/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	506.53	130.05
26 05 13 16-0177	EA		250 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	549.53	151.73
26 05 13 16-0178	EA		350 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	549.53	151.73
26 05 13 16-0179	EA		500 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	549.53	151.73
26 05 13 16-0180			Cable Termination Without Stress Cone (26 05 13 16-0169)		
26 05 13 16-0181	EA		#6 To 4/0 AWG Cable Termination Without Stress Cone, Medium Voltage To 5 KV	528.60	130.05



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0182 EA 250 To 500 MCM Cable Termination Without Stress Cone, Medium Voltage To 5 KV	609.60	151.73
26 05 13 16-0183 Cable Termination With Stress Cone <small>(26 05 13 16-0169)</small>		
26 05 13 16-0184 EA #6 To 4/0 AWG Cable Termination With Stress Cone, Medium Voltage To 5 KV	1,611.53	260.09
26 05 13 16-0185 EA 250 To 500 MCM Cable Termination With Stress Cone, Medium Voltage To 5 KV	2,213.44	357.63
26 05 13 16-0186 Connect To Pothead, Pothead Included <small>(26 05 13 16-0169)</small>		
26 05 13 16-0187 EA #6 To 4/0 AWG Connection To Pothead (Included) Medium Voltage To 5 KV	1,688.52	260.09
26 05 13 16-0188 EA 250 To 500 MCM Connection To Pothead (Included) Medium Voltage To 5 KV	2,170.04	298.03
26 05 13 16-0189 Two Conductor Pothead <small>(26 05 13 16-0169)</small>		
Note: Includes 5 KV pothead.		
26 05 13 16-0190 EA #6 To 4/0 AWG, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	1,186.29	357.63
26 05 13 16-0191 EA 250 To 350 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	1,598.80	455.18
26 05 13 16-0192 EA 400 To 700 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	2,491.12	516.08
26 05 13 16-0193 EA 750 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	4,122.14	602.13
26 05 13 16-0194 EA 1,000 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	7,642.20	903.08
26 05 13 16-0195 Three Conductor Pothead <small>(26 05 13 16-0169)</small>		
Note: Includes 5 KV pothead.		
26 05 13 16-0196 EA #6 To 4/0 AWG, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	5,095.50	520.20
26 05 13 16-0197 EA 250 To 500 MCM, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	5,568.51	606.89
26 05 13 16-0198 Copper Cable Splice, Crimp Compression Connection <small>(26 05 13 16-0169)</small>		
Note: For bare wire.		
26 05 13 16-0199 EA #6 AWG Crimp Compression Connection For Bare Copper Wire.....	74.69	
26 05 13 16-0200 EA #4 AWG Crimp Compression Connection For Bare Copper Wire.....	82.68	
26 05 13 16-0201 EA #3 AWG Crimp Compression Connection For Bare Copper Wire.....	96.39	
26 05 13 16-0202 EA #2 AWG Crimp Compression Connection For Bare Copper Wire.....	109.02	
26 05 13 16-0203 EA #1 AWG Crimp Compression Connection For Bare Copper Wire.....	123.16	
26 05 13 16-0204 EA 1/0 AWG Crimp Compression Connection For Bare Copper Wire.....	136.71	
26 05 13 16-0205 EA 2/0 AWG Crimp Compression Connection For Bare Copper Wire.....	150.01	
26 05 13 16-0206 EA 3/0 AWG Crimp Compression Connection For Bare Copper Wire.....	164.33	
26 05 13 16-0207 EA 4/0 AWG Crimp Compression Connection For Bare Copper Wire.....	178.04	
26 05 13 16-0208 EA 250 MCM Crimp Compression Connection For Bare Copper Wire.....	192.21	
26 05 13 16-0209 EA 300 MCM Crimp Compression Connection For Bare Copper Wire.....	206.97	
26 05 13 16-0210 EA 350 MCM Crimp Compression Connection For Bare Copper Wire.....	220.32	
26 05 13 16-0211 EA 400 MCM Crimp Compression Connection For Bare Copper Wire.....	249.47	
26 05 13 16-0212 EA 500 MCM Crimp Compression Connection For Bare Copper Wire.....	280.05	
26 05 13 16-0213 Aluminum Cable Splice, Crimp Compression Connection <small>(26 05 13 16-0169)</small>		
Note: For bare wire.		
26 05 13 16-0214 EA #6 AWG Crimp Compression Connection For Bare Aluminum Wire	77.44	
26 05 13 16-0215 EA #4 AWG Crimp Compression Connection For Bare Aluminum Wire	84.20	
26 05 13 16-0216 EA #2 AWG Crimp Compression Connection For Bare Aluminum Wire	114.03	
26 05 13 16-0217 EA #1 AWG Crimp Compression Connection For Bare Aluminum Wire	135.90	
26 05 13 16-0218 EA 1/0 AWG Crimp Compression Connection For Bare Aluminum Wire	148.73	
26 05 13 16-0219 EA 2/0 AWG Crimp Compression Connection For Bare Aluminum Wire	161.49	
26 05 13 16-0220 EA 3/0 AWG Crimp Compression Connection For Bare Aluminum Wire	177.67	
26 05 13 16-0221 EA 4/0 AWG Crimp Compression Connection For Bare Aluminum Wire	192.15	
26 05 13 16-0222 EA 250 MCM Crimp Compression Connection For Bare Aluminum Wire	205.98	
26 05 13 16-0223 EA 300 MCM Crimp Compression Connection For Bare Aluminum Wire	220.43	
26 05 13 16-0224 EA 350 MCM Crimp Compression Connection For Bare Aluminum Wire	234.44	
26 05 13 16-0225 EA 400 MCM Crimp Compression Connection For Bare Aluminum Wire	269.71	
26 05 13 16-0226 EA 500 MCM Crimp Compression Connection For Bare Aluminum Wire	305.30	
26 05 13 16-0227 15 KV <small>(26 05 13 16-0168)</small>		
26 05 13 16-0228 Single Conductor Pothead On Racks <small>(26 05 13 16-0227)</small>		
Note: Includes pothead.		
26 05 13 16-0229 EA #2 To 4/0 AWG, Single Conductor, 15 KV Pothead (Included), On Racks.....	1,437.96	455.18
26 05 13 16-0230 EA 250 To 500 MCM, Single Conductor, 15 KV Pothead (Included), On Racks.....	1,837.84	563.54
26 05 13 16-0231 Two Conductor Pothead On Rack <small>(26 05 13 16-0227)</small>		
Note: Includes pothead.		
26 05 13 16-0232 EA #2 To 4/0 AWG, Two Conductors, 15 KV Pothead (Included), On Racks	2,110.76	693.59
26 05 13 16-0233 EA 250 To 500 MCM, Two Conductors, 15 KV Pothead (Included), On Racks	2,542.12	823.65
26 05 13 16-0234 Three Conductor Pothead On Rack <small>(26 05 13 16-0227)</small>		
Note: Includes pothead.		
26 05 13 16-0235 EA #2 To 4/0 AWG, Three Conductors, 15 KV Pothead (Included), On Racks.....	2,690.74	899.50
26 05 13 16-0236 EA 250 To 500 MCM, Three Conductors, 15 KV Pothead (Included), On Racks.....	3,351.01	1,127.09

26 Electrical
26 05 Common Work Results for Electrical
 26 05 13 Medium-Voltage Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0237 Stress Relief Cone On Rack <small>(26 05 13 16-0227)</small>		
26 05 13 16-0238 EA #2 To 4/0 AWG Stress Relief Cone, On Rack	1,344.94	455.18
26 05 13 16-0239 EA 250 To 500 MCM Stress Relief Cone, On Rack.....	1,733.26	563.54
26 05 13 16-0240 Grounded, Shielded Cable Splice <small>(26 05 13 16-0227)</small>		
26 05 13 16-0241 EA #2 To 4/0 AWG Cable Splice, Grounded, Shielded, 15 KV.....	920.41	335.96
26 05 13 16-0242 EA 250 To 500 MCM Cable Splice, Grounded, Shielded, 15 KV.....	1,178.47	433.49
26 05 13 16-0243 EA 3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE 2-Way	5,898.88	1,192.12
26 05 13 16-0244 EA 3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE - CE 3-Way	7,635.47	1,300.49
26 05 13 16-0245 Cable Termination <small>(26 05 13 16-0227)</small>		
26 05 13 16-0246 EA #2 To 3/0 AWG Cable Termination 15 KV	619.40	189.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.79	
26 05 13 16-0247 EA 4/0 To 250 MCM Cable Termination 15 KV	781.45	243.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	146.31	
26 05 13 16-0248 EA 350 To 500 MCM Cable Termination 15 KV	969.90	298.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	178.82	
26 05 13 16-0249 EA #2 To 3/0 AWG Cable Elbow Termination 15 KV	397.86	108.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.03	
26 05 13 16-0250 Stress Cones, 5-15 KV, 4 Skirted <small>(26 05 13 16-0227)</small>		
26 05 13 16-0251 EA #4 To 1/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	817.51	140.89
26 05 13 16-0252 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	932.48	155.71
26 05 13 16-0253 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 4 Skirted.....	1,111.27	170.41
26 05 13 16-0254 EA 400 To 500 MCM Stress Cones, 5-15 KV, 4 Skirted.....	1,435.33	196.34
26 05 13 16-0255 Stress Cones, 5-15 KV, 6 Skirted <small>(26 05 13 16-0227)</small>		
26 05 13 16-0256 EA #4 To 1/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	1,635.04	282.25
26 05 13 16-0257 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	1,865.19	311.42
26 05 13 16-0258 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 6 Skirted.....	2,209.88	334.49
26 05 13 16-0259 EA 400 To 500 MCM Stress Cones, 5-15 KV, 6 Skirted.....	2,870.66	392.66
26 05 13 16-0260 35 KV <small>(26 05 13 16-0168)</small>		
26 05 13 16-0261 35 KV One Conductor Splice <small>(26 05 13 16-0260)</small>		
26 05 13 16-0262 EA #1 Stranded To 4/0 Stranded, 35 KV, Cable Splicing	2,302.05	
26 05 13 16-0263 Cable Termination <small>(26 05 13 16-0260)</small>		
26 05 13 16-0264 EA #2 To 3/0 AWG Cable Termination, 35 KV	550.01	130.16
26 05 13 16-0265 EA 3/0 AWG To 250 MCM, 35 KV, Cable Termination.....	747.16	196.38
26 05 13 16-0266 EA 350 To 500 MCM Cable Termination 35 KV	871.23	210.03
26 05 13 16-0267 EA #2 To 3/0 AWG Cable Elbow Termination 35 KV	435.31	108.38
26 05 13 16-0268 70 KV <small>(26 05 13 16-0168)</small>		
26 05 13 16-0269 Cable Splice <small>(26 05 13 16-0268)</small>		
26 05 13 16-0270 EA 350 MCM, 70 KV, Cable Splicing.....	13,007.69	
26 05 13 16-0271 EA #2 To 4/0, 70 KV, Cable Splicing	2,396.15	
26 05 19 Low-Voltage Electrical Power Conductors and Cables <small>(26 05)</small>		
26 05 19 16 Low-Voltage, Single-and Multi-Conductor Cables <small>(26 05 19)</small>		
26 05 19 16-0001 Cable Installation Methods <small>(26 05 19 16)</small>		
26 05 19 16-0002 Pull Cord <small>(26 05 19 16-0001)</small>		
<i>Note: Left in conduit for others to pull cable. Not to be used when contractor has priced new wire in a conduit. Priced when owner wants a pull cord left in a conduit for owner to pull wire at a later time.</i>		
26 05 19 16-0003 LF Pull String Installed To Remain In Place, In Existing Conduit	0.34	
26 05 19 16-0004 LF Pull String Installed To Remain In Place, In New Conduits.....	0.18	
26 05 19 16-0005 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In Existing Conduit	0.60	
26 05 19 16-0006 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In New Conduits.....	0.39	
26 05 19 16-0007 Bore Conduit Into Dirt Or Sand <small>(26 05 19 16-0001)</small>		
<i>Note: For installation under roads, driveways or other structures up to 20'.</i>		
26 05 19 16-0008 LF Bore 1" To 4" Conduit Into Dirt Or Sand	3.05	
26 05 19 16-0009 LF Bore 5" To 8" Conduit Into Dirt Or Sand	3.89	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0010	EA			Boring Minimum Set-Up Charge .....427.12 Note: For projects where the total boring charge is less than the minimum set-up charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.	427.12	
26 05 19 16-0011				Wire and Cable <small>(26 05 19 16)</small> Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. For tasks installed in conduit, tasks exclude conduit. Excludes terminations. See CSI section 26 05 33 13-0057 for various conduit types.		
26 05 19 16-0012				600 Volt Wire <small>(26 05 19 16-0011)</small>		
26 05 19 16-0013				Single Solid Conductor, Copper <small>(26 05 19 16-0012)</small>		
26 05 19 16-0014	MLF			#14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	631.85	240.28
26 05 19 16-0015	MLF			#12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	799.51	282.66
26 05 19 16-0016	MLF			#10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,003.32	345.62
26 05 19 16-0017	MLF			#14 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	845.80	240.28
26 05 19 16-0018	MLF			#12 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,033.76	282.66
26 05 19 16-0019	MLF			#10 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,258.31	345.62
26 05 19 16-0020				Power Cable, Stranded Conductor, Copper <small>(26 05 19 16-0012)</small>		
26 05 19 16-0021				Power Cable, Stranded, Single Conductor, XHHW-2 <small>(26 05 19 16-0020)</small>		
26 05 19 16-0022	MLF			#16 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	675.00	198.01
26 05 19 16-0023	MLF			#14 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	793.01	237.61
26 05 19 16-0024	MLF			#12 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	991.37	277.22
26 05 19 16-0025	MLF			#10 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,243.94	316.82
26 05 19 16-0026	MLF			#8 AWG, XLP (XHHW-2), 600 Volt, Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,684.13	396.01
26 05 19 16-0027	MLF			#6 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	2,335.63	475.22
26 05 19 16-0028	MLF			#4 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	3,254.70	594.03
26 05 19 16-0029	MLF			#3 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	3,880.79	673.23
26 05 19 16-0030	MLF			#2 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	4,640.37	752.44
26 05 19 16-0031	MLF			#1 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	5,854.86	831.64
26 05 19 16-0032	MLF			1/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	7,072.42	950.45
26 05 19 16-0033	MLF			2/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	8,542.26	1,069.26
26 05 19 16-0034	MLF			3/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	10,317.66	1,188.05
26 05 19 16-0035	MLF			4/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	12,482.34	1,306.86
26 05 19 16-0036	MLF			250 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	13,187.12	1,425.67
26 05 19 16-0037	MLF			300 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	15,784.32	1,544.48
26 05 19 16-0038	MLF			350 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	16,822.42	1,663.28
26 05 19 16-0039	MLF			400 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	18,896.37	1,782.09
26 05 19 16-0040	MLF			500 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	22,045.67	1,900.90
26 05 19 16-0041	MLF			600 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	25,520.31	2,059.30
26 05 19 16-0042	MLF			750 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	39,636.49	2,296.91
26 05 19 16-0043	MLF			1,000 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	56,461.07	2,692.93
26 05 19 16-0044				Power Cable, Stranded, Multi Conductor, XHHW-2 <small>(26 05 19 16-0020)</small>		
26 05 19 16-0045	MLF			2 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	1,586.03	475.13
26 05 19 16-0046	MLF			3 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	1,983.02	554.53
26 05 19 16-0047	MLF			4 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,479.13	673.23
26 05 19 16-0048	MLF			6 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,024.71	732.34
26 05 19 16-0049	MLF			7 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,323.28	772.14
26 05 19 16-0050	MLF			9 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,918.90	851.25
26 05 19 16-0051	MLF			10 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,417.07	887.28
26 05 19 16-0052	MLF			12 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,813.47	970.25
26 05 19 16-0053	MLF			14 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,360.34	1,029.85
26 05 19 16-0054	MLF			24 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	8,043.05	1,306.96
26 05 19 16-0055	MLF			37 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	12,213.75	1,940.49
26 05 19 16-0056	MLF			2 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	1,982.97	554.53
26 05 19 16-0057	MLF			3 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,578.18	673.23
26 05 19 16-0058	MLF			4 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,173.41	792.04
26 05 19 16-0059	MLF			2 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,685.11	712.53
26 05 19 16-0060	MLF			3 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,531.93	870.45
26 05 19 16-0061	MLF			4 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,580.21	1,109.05
26 05 19 16-0062	MLF			6 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,276.78	1,426.17
26 05 19 16-0063	MLF			9 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	8,621.51	1,821.79
26 05 19 16-0064	MLF			2 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,417.77	811.84
26 05 19 16-0065	MLF			3 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,458.35	950.45
26 05 19 16-0066	MLF			4 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,795.96	1,207.86
26 05 19 16-0067	MLF			2 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,572.34	910.85
26 05 19 16-0068	MLF			3 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,264.34	1,128.66
26 05 19 16-0069	MLF			4 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	8,070.28	1,392.01
26 05 19 16-0070	MLF			2 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,301.92	1,105.09
26 05 19 16-0071	MLF			3 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	8,468.91	1,264.00
26 05 19 16-0072	MLF			4 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	11,021.79	1,577.35
26 05 19 16-0073	MLF			2 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	8,883.71	1,346.07
26 05 19 16-0074	MLF			3 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	12,040.99	1,505.28
26 05 19 16-0075	MLF			4 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	15,987.35	1,980.09
26 05 19 16-0076	MLF			3 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	16,078.68	1,900.60

26 Electrical
26 05 Common Work Results for Electrical
26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0077	MLF		4 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	21,040.76	2,375.13
26 05 19 16-0078	MLF		3 Conductors, 1/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	19,238.07	2,059.70
26 05 19 16-0079	MLF		3 Conductors, 2/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	23,545.16	2,375.13
26 05 19 16-0080	MLF		3 Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	28,969.87	2,770.95
26 05 19 16-0081	MLF		4 Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	38,296.60	3,562.69
26 05 19 16-0082	MLF		3 Conductors, 4/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	35,572.70	3,170.83
26 05 19 16-0083	MLF		3 Conductors, 250 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	37,775.40	3,562.69
26 05 19 16-0084	MLF		3 Conductors, 350 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	47,893.10	3,960.20
26 05 19 16-0085	MLF		3 Conductors, 500 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	62,761.47	4,352.45

26 05 19 16-0086 Underground Feeder And Branch Circuit Suitable, Single Stranded Copper

(26 05 19 16-0012)

Note: Direct bury.

26 05 19 16-0087	MLF		#14 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,111.99	
26 05 19 16-0088	MLF		#12 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,313.92	
26 05 19 16-0089	MLF		#10 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,712.91	
26 05 19 16-0090	MLF		#8 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,298.32	
26 05 19 16-0091	MLF		#6 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,386.28	
26 05 19 16-0092	MLF		#4 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,529.06	
26 05 19 16-0093	MLF		#2 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,773.02	
26 05 19 16-0094	MLF		#1 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,645.97	
26 05 19 16-0095	MLF		1/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,752.24	
26 05 19 16-0096	MLF		2/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,202.10	
26 05 19 16-0097	MLF		3/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	16,127.41	
26 05 19 16-0098	MLF		4/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	18,292.62	
26 05 19 16-0099	MLF		250 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	19,787.34	
26 05 19 16-0100	MLF		300 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	24,031.30	
26 05 19 16-0101	MLF		350 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	27,001.75	
26 05 19 16-0102	MLF		400 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	30,518.61	
26 05 19 16-0103	MLF		500 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	36,587.54	
26 05 19 16-0104	MLF		600 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	43,519.32	
26 05 19 16-0105	MLF		750 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	71,354.41	
26 05 19 16-0106	MLF		#14 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	784.95	
26 05 19 16-0107	MLF		#12 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	948.59	
26 05 19 16-0108	MLF		#10 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,150.55	
26 05 19 16-0109	MLF		#8 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,404.02	
26 05 19 16-0110	MLF		#6 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,839.23	
26 05 19 16-0111	MLF		#4 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,482.90	
26 05 19 16-0112	MLF		#2 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,424.03	
26 05 19 16-0113	MLF		#1 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,108.68	
26 05 19 16-0114	MLF		1/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,641.96	
26 05 19 16-0115	MLF		2/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,233.68	
26 05 19 16-0116	MLF		3/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,135.24	
26 05 19 16-0117	MLF		4/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,249.52	
26 05 19 16-0118	MLF		250 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,278.52	
26 05 19 16-0119	MLF		300 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,370.30	
26 05 19 16-0120	MLF		350 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,565.22	
26 05 19 16-0121	MLF		400 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,805.06	
26 05 19 16-0122	MLF		500 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,920.38	
26 05 19 16-0123	MLF		750 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	24,143.39	
26 05 19 16-0124	MLF		#14 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	656.33	
26 05 19 16-0125	MLF		#12 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	824.80	
26 05 19 16-0126	MLF		#10 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,039.71	
26 05 19 16-0127	MLF		#8 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,494.49	
26 05 19 16-0128	MLF		#6 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,086.78	
26 05 19 16-0129	MLF		#4 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,824.75	
26 05 19 16-0130	MLF		#2 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,102.95	
26 05 19 16-0131	MLF		#1 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,941.34	
26 05 19 16-0132	MLF		1/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,753.01	
26 05 19 16-0133	MLF		2/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,571.26	
26 05 19 16-0134	MLF		3/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,903.35	
26 05 19 16-0135	MLF		4/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,503.02	
26 05 19 16-0136	MLF		250 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,244.25	
26 05 19 16-0137	MLF		300 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,063.90	
26 05 19 16-0138	MLF		350 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	15,029.50	
26 05 19 16-0139	MLF		400 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	16,921.47	
26 05 19 16-0140	MLF		500 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	20,295.30	
26 05 19 16-0141	MLF		600 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	24,566.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0142 MLF 750 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	39,833.53	
26 05 19 16-0143 MLF #2 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,502.30	
26 05 19 16-0144 MLF 1/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,478.06	
26 05 19 16-0145 MLF 2/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,507.91	
26 05 19 16-0146 MLF 3/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,964.39	
26 05 19 16-0147 MLF 4/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,311.95	
26 05 19 16-0148 MLF 250 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,326.83	
26 05 19 16-0149 MLF 350 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	20,961.61	
26 05 19 16-0150 MLF 400 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	22,816.83	
26 05 19 16-0151 MLF 500 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	26,167.11	
26 05 19 16-0152 600 Volt, Armored Cable, Copper Conductors <small>(26 05 19 16-0012)</small>		
26 05 19 16-0153 ACTHH, Solid <small>(26 05 19 16-0152)</small>		
26 05 19 16-0154 MLF 1 Conductor, #8 AWG, Type ACT, Solid, Armored Cable.....	2,493.42	650.25
26 05 19 16-0155 MLF 1 Conductor, #6 AWG, Type ACT, Solid, Armored Cable.....	2,883.72	736.94
26 05 19 16-0156 MLF 1 Conductor, #4 AWG, Type ACT, Solid, Armored Cable.....	3,338.39	780.29
26 05 19 16-0157 MLF 2 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	3,506.23	1,083.74
26 05 19 16-0158 MLF 2 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	3,724.45	1,213.57
26 05 19 16-0159 MLF 2 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	4,833.14	1,344.59
26 05 19 16-0160 MLF 2 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	6,490.75	1,474.43
26 05 19 16-0161 MLF 3 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	4,299.21	1,213.57
26 05 19 16-0162 MLF 3 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	4,459.03	1,344.59
26 05 19 16-0163 MLF 3 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	5,825.60	1,517.89
26 05 19 16-0164 MLF 3 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	7,766.72	1,647.07
26 05 19 16-0165 MLF 4 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	5,189.36	1,344.59
26 05 19 16-0166 MLF 4 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	5,659.15	1,517.89
26 05 19 16-0167 MLF 4 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	7,348.75	1,690.74
26 05 19 16-0168 MLF 4 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	9,760.89	1,821.44
26 05 19 16-0169 ACTHH, Stranded <small>(26 05 19 16-0152)</small>		
26 05 19 16-0170 MLF 2 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	6,708.53	1,561.56
26 05 19 16-0171 MLF 2 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	8,261.63	1,776.57
26 05 19 16-0172 MLF 3 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	7,984.13	1,733.99
26 05 19 16-0173 MLF 3 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	10,156.87	1,949.22
26 05 19 16-0174 MLF 3 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	13,044.40	2,167.48
26 05 19 16-0175 MLF 3 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	15,067.50	2,381.85
26 05 19 16-0176 MLF 3 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	17,349.25	2,598.91
26 05 19 16-0177 MLF 4 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	10,407.65	2,080.13
26 05 19 16-0178 MLF 4 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	12,743.21	2,296.02
26 05 19 16-0179 MLF 4 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	16,675.39	2,514.50
26 05 19 16-0180 MLF 4 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	18,291.40	2,729.84
26 05 19 16-0181 MLF 4 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	21,891.37	2,944.96
26 05 19 16-0182 HCFC, Solid <small>(26 05 19 16-0152)</small>		
26 05 19 16-0183 MLF 2 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	4,006.77	1,083.74
26 05 19 16-0184 MLF 2 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	4,367.13	1,217.69
26 05 19 16-0185 MLF 2 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	4,896.18	1,337.99
26 05 19 16-0186 MLF 3 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	4,918.73	1,217.69
26 05 19 16-0187 MLF 3 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	5,257.12	1,337.99
26 05 19 16-0188 MLF 3 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	7,018.97	1,526.45
26 05 19 16-0189 MLF 4 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	6,145.01	1,337.99
26 05 19 16-0190 MLF 4 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	6,672.71	1,526.45
26 05 19 16-0191 MLF 4 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	9,374.15	1,693.35
26 05 19 16-0192 MC, Solid Or Stranded, Galvanized Steel Armor <small>(26 05 19 16-0152)</small>		
26 05 19 16-0193 MLF 2 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	3,428.87	1,083.74
26 05 19 16-0194 MLF 2 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	3,826.78	1,217.69
26 05 19 16-0195 MLF 2 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	4,653.43	1,337.99
26 05 19 16-0196 MLF 2 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	6,070.58	1,429.78
26 05 19 16-0197 MLF 2 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	7,670.84	1,515.72
26 05 19 16-0198 MLF 3 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	3,974.79	1,217.69
26 05 19 16-0199 MLF 3 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	4,499.94	1,337.99
26 05 19 16-0200 MLF 3 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	5,792.25	1,526.45
26 05 19 16-0201 MLF 3 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	7,670.99	1,647.07
26 05 19 16-0202 MLF 3 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	9,034.93	1,776.57
26 05 19 16-0203 MLF 3 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	11,305.08	1,908.04
26 05 19 16-0204 MLF 3 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	15,896.70	2,037.11
26 05 19 16-0205 MLF 4 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	4,640.00	1,337.99
26 05 19 16-0206 MLF 4 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	5,318.33	1,526.45
26 05 19 16-0207 MLF 4 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	8,301.62	1,693.35
26 05 19 16-0208 MLF 4 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	11,447.24	1,865.33
26 05 19 16-0209 MLF 4 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	14,114.40	1,995.81
26 05 19 16-0210 MLF 4 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	18,847.51	2,125.00
26 05 19 16-0211 MLF 4 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	24,564.85	2,253.10

26 Electrical
26 05 Common Work Results for Electrical
26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 05 19 16-0212 FPLP Solid TFN Red Armored Cable (26 05 19 16-0152)			
Note: Color coded red.			
26 05 19 16-0213	MLF #18/2 With Bare #18 Ground Type TFN FPLP Red Armored Cable	3,633.57	823.65
26 05 19 16-0214	MLF #18/4 With Bare #18 Ground Type TFN FPLP Red Armored Cable	4,118.21	953.69
26 05 19 16-0215	MLF #18/6 With Bare #18 Ground Type TFN FPLP Red Armored Cable	5,148.45	1,083.74
26 05 19 16-0216	MLF #18/8 With Bare #18 Ground Type TFN FPLP Red Armored Cable	5,918.15	1,213.79
26 05 19 16-0217	MLF #16/2 With Bare #16 Ground Type TFN FPLP Red Armored Cable	4,128.59	953.69
26 05 19 16-0218	MLF #16/4 With Bare #16 Ground Type TFN FPLP Red Armored Cable	4,899.25	1,083.74
26 05 19 16-0219	MLF #16/6 With Bare #16 Ground Type TFN FPLP Red Armored Cable	6,217.37	1,213.79
26 05 19 16-0220	MLF #16/8 With Bare #16 Ground Type TFN FPLP Red Armored Cable	7,089.03	1,343.84
26 05 19 16-0221 FPLP Solid THHN Red Armored Cable (26 05 19 16-0152)			
Note: Color coded red.			
26 05 19 16-0222	MLF #14/2 With #14 Ground Type THHN FPLP Red Armored Cable	4,575.49	1,083.74
26 05 19 16-0223	MLF #14/4 With #14 Ground Type THHN FPLP Red Armored Cable	5,739.74	1,213.79
26 05 19 16-0224	MLF #14/6 With #14 Ground Type THHN FPLP Red Armored Cable	7,756.38	1,343.84
26 05 19 16-0225	MLF #14/8 With #14 Ground Type THHN FPLP Red Armored Cable	9,030.14	1,473.88
26 05 19 16-0226	MLF #12/2 With #12 Ground Type THHN FPLP Red Armored Cable	5,839.80	1,213.79
26 05 19 16-0227	MLF #12/4 With #12 Ground Type THHN FPLP Red Armored Cable	7,207.96	1,343.84
26 05 19 16-0228 FPLP Twisted Shielded Pair Red Armored Cable (26 05 19 16-0152)			
Note: Color coded red.			
26 05 19 16-0229	MLF #18/2 With #18 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	3,973.38	823.65
26 05 19 16-0230	MLF #18/2 With #18 Tinned Ground And #14/2 With #14 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	6,413.70	1,213.79
26 05 19 16-0231	MLF #16/2 With #16 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	4,912.99	953.69
26 05 19 16-0232	MLF #16/4 With Two #16 Tinned Grounds FPLP Twisted Shielded Pair Red Armored Cable	5,822.41	1,083.74
26 05 19 16-0233	MLF #16/2 With #16 Tinned Ground And #12/2 With #12 Ground FPLP Twisted Shielded Pair Red Armored Cable	8,168.87	1,343.84
26 05 19 16-0234	MLF #14/2 With One #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	5,750.49	1,127.09
26 05 19 16-0235	MLF #14/4 With Two #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	7,144.90	1,300.49
26 05 19 16-0236 Armored Cable Connectors (26 05 19 16-0152)			
26 05 19 16-0237	EA 3/4" Armored Cable Connector	6.64	2.38
	For Work In Restricted Working Space, Add	1.78	
	For Elevated Installation >10' To 15', Add	0.59	
	For Elevated Installation >15' To 20', Add	1.19	
	For Elevated Installation >20' To 25', Add	1.49	
	For Elevated Installation >25' To 30', Add	2.08	
	For Elevated Installation >30' To 35', Add	2.38	
	For Elevated Installation >35' To 40', Add	2.97	
	For Elevated Installation >40', Add	3.27	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.78	
26 05 19 16-0238	EA 1" Armored Cable Connector	8.87	3.17
	For Work In Restricted Working Space, Add	2.38	
	For Elevated Installation >10' To 15', Add	0.79	
	For Elevated Installation >15' To 20', Add	1.58	
	For Elevated Installation >20' To 25', Add	1.98	
	For Elevated Installation >25' To 30', Add	2.77	
	For Elevated Installation >30' To 35', Add	3.17	
	For Elevated Installation >35' To 40', Add	3.96	
	For Elevated Installation >40', Add	4.36	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.38	
26 05 19 16-0239	EA 1-1/4" Armored Cable Connector	11.15	3.96
	For Work In Restricted Working Space, Add	2.97	
	For Elevated Installation >10' To 15', Add	0.99	
	For Elevated Installation >15' To 20', Add	1.98	
	For Elevated Installation >20' To 25', Add	2.48	
	For Elevated Installation >25' To 30', Add	3.47	
	For Elevated Installation >30' To 35', Add	3.96	
	For Elevated Installation >35' To 40', Add	4.95	
	For Elevated Installation >40', Add	5.45	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.97	
26 05 19 16-0240 600 Volt, Feeder Wire, Single Stranded Copper (26 05 19 16-0012)			
26 05 19 16-0241	MLF #12 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	901.93	240.38
26 05 19 16-0242	MLF #10 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,155.61	282.66
26 05 19 16-0243	MLF #8 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,696.20	384.43
26 05 19 16-0244	MLF #6 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,420.26	460.18
26 05 19 16-0245	MLF #4 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,338.67	536.50
26 05 19 16-0246	MLF #2 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,911.74	691.15
26 05 19 16-0247	MLF #1 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,964.18	768.97
26 05 19 16-0248	MLF 1/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	6,947.82	866.39
26 05 19 16-0249	MLF 2/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	7,973.42	961.14
26 05 19 16-0250	MLF 3/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	9,684.53	1,079.26
26 05 19 16-0251	MLF 4/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	11,719.60	1,190.63
26 05 19 16-0252	MLF 250 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	13,943.52	1,308.85
26 05 19 16-0253	MLF 300 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	16,272.08	1,430.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0254 MLF 350 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	18,795.38	1,537.85
26 05 19 16-0255 MLF 400 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	21,220.46	1,708.72
26 05 19 16-0256 MLF 500 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	25,622.71	1,883.07
26 05 19 16-0257 MLF #14 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	916.69	158.70
For EPR Insulation, Add	48.40	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	112.93	
26 05 19 16-0258 MLF #12 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,021.96	175.73
For EPR Insulation, Add	49.34	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	115.12	
26 05 19 16-0259 MLF #10 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,272.26	219.69
For EPR Insulation, Add	72.03	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	168.08	
26 05 19 16-0260 MLF #8 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,779.53	349.48
For EPR Insulation, Add	118.42	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	276.32	
26 05 19 16-0261 MLF #6 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,514.69	419.38
For EPR Insulation, Add	198.99	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	464.32	
26 05 19 16-0262 MLF #4 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,492.10	486.90
For EPR Insulation, Add	301.05	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	702.46	
26 05 19 16-0263 MLF #3 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,989.65	557.30
For EPR Insulation, Add	345.99	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	807.30	
26 05 19 16-0264 MLF #2 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,140.77	627.69
For EPR Insulation, Add	488.95	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,140.89	
26 05 19 16-0265 MLF #1 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	6,483.48	699.08
For EPR Insulation, Add	660.66	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,541.53	
26 05 19 16-0266 MLF 1/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	7,876.87	788.67
For EPR Insulation, Add	825.11	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,925.27	
26 05 19 16-0267 MLF 2/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	9,587.71	874.61
For EPR Insulation, Add	1,037.19	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,420.10	
26 05 19 16-0268 MLF 3/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	11,610.76	976.38
For EPR Insulation, Add	1,296.09	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,024.21	
26 05 19 16-0269 MLF 4/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	13,134.70	1,085.59
For EPR Insulation, Add	1,480.13	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,453.64	
26 05 19 16-0270 MLF 250 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	13,948.61	1,190.63
For EPR Insulation, Add	1,557.67	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,634.55	
26 05 19 16-0271 MLF 300 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	16,616.78	1,308.85
For EPR Insulation, Add	1,913.34	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	4,464.46	
26 05 19 16-0272 MLF 350 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	18,604.47	1,387.55
For EPR Insulation, Add	2,166.94	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	5,056.19	
26 05 19 16-0273 MLF 400 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	20,937.68	1,550.82
For EPR Insulation, Add	2,472.37	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	5,768.86	
26 05 19 16-0274 MLF 500 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	24,079.51	1,724.77
For EPR Insulation, Add	2,899.09	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	6,764.54	
26 05 19 16-0275 MLF 600 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	28,383.31	1,794.47
For EPR Insulation, Add	3,485.26	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	8,132.27	
26 05 19 16-0276 MLF 750 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	47,235.25	1,864.06
For EPR Insulation, Add	6,223.94	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	14,522.54	
26 05 19 16-0277 MLF 1,000 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	59,973.95	1,991.78
For EPR Insulation, Add	8,075.35	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	18,842.47	
26 05 19 16-0278 MLF #16 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,614.35	356.22
26 05 19 16-0279 MLF #14 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,064.45	396.01
26 05 19 16-0280 MLF #12 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,611.14	475.62
26 05 19 16-0281 MLF #10 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,103.95	554.23
26 05 19 16-0282 MLF #8 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,837.86	593.44
26 05 19 16-0283 MLF #18 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	493.35	198.01
26 05 19 16-0284 MLF #16 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	614.83	217.81
26 05 19 16-0285 MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	648.65	158.80
26 05 19 16-0286 MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	813.81	189.30
26 05 19 16-0287 MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,023.24	238.11
26 05 19 16-0288 MLF #8 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,465.75	313.84
26 05 19 16-0289 MLF #6 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,039.27	378.99
26 05 19 16-0290 MLF #4 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,751.53	447.90
26 05 19 16-0291 MLF #3 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,308.11	507.00
26 05 19 16-0292 MLF #2 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,987.72	567.79
26 05 19 16-0293 MLF #1 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,795.62	640.76
26 05 19 16-0294 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,582.78	701.65
26 05 19 16-0295 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	6,371.49	775.40

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0296 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	7,649.58	820.16
26 05 19 16-0297 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	9,187.23	922.72
26 05 19 16-0298 MLF 250 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	10,859.68	981.64
26 05 19 16-0299 MLF 300 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	12,606.82	1,111.73
26 05 19 16-0300 MLF 350 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	14,492.97	1,230.33
26 05 19 16-0301 MLF 400 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	16,308.99	1,264.00
26 05 19 16-0302 MLF 500 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	19,536.30	1,337.26
26 05 19 16-0303 MLF 600 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	24,467.64	1,573.68
26 05 19 16-0304 MLF 750 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	38,191.26	1,864.06
26 05 19 16-0305 MLF 1,000 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	45,854.38	2,250.58
26 05 19 16-0306 MLF #16 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,426.69	475.62
26 05 19 16-0307 MLF #14 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,698.83	554.23
26 05 19 16-0308 MLF #12 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,126.72	634.13
26 05 19 16-0309 MLF #10 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,055.91	712.53
26 05 19 16-0310 MLF #8 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,595.00	792.04
26 05 19 16-0311 MLF #6 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,851.03	870.45
26 05 19 16-0312 Non-Metallic Sheathed Cable <small>(26 05 19 16-0012)</small>		
26 05 19 16-0313 Indoor Installation <small>(26 05 19 16-0312)</small>		
Note: For NM, NM-B, NMC-B and NMS-B.		
26 05 19 16-0314 MLF #14 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	2,159.21	752.34
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	282.12	
26 05 19 16-0315 MLF #14 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	2,658.89	910.85
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	341.58	
26 05 19 16-0316 MLF #14 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,409.82	1,007.87
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	377.95	
26 05 19 16-0317 MLF #12 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	2,510.17	855.40
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	304.44	
26 05 19 16-0318 MLF #12 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,283.86	950.25
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	356.36	
26 05 19 16-0319 MLF #12 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,057.86	1,061.33
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	398.00	
26 05 19 16-0320 MLF #10 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,039.96	950.74
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	356.54	
26 05 19 16-0321 MLF #10 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,219.34	1,109.05
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	415.89	
26 05 19 16-0322 MLF #10 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,947.48	1,267.26
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	475.22	
26 05 19 16-0323 MLF #8 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,653.43	1,138.55
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	405.43	
26 05 19 16-0324 MLF #8 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	5,832.08	1,376.17
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	490.08	
26 05 19 16-0325 MLF #6 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	5,814.44	1,296.96
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	460.37	
26 05 19 16-0326 MLF #6 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	7,531.75	1,564.27
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	556.90	
26 05 19 16-0327 MLF #4 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	14,705.84	1,722.68
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	612.59	
26 05 19 16-0328 MLF #2 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	16,970.30	1,871.20
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	668.28	
26 05 19 16-0329 Direct Burial Cable <small>(26 05 19 16-0312)</small>		
Note: Excludes trench and backfill. For NM, NM-B, NMC-B and NMS-B. Copper.		
26 05 19 16-0330 MLF #14 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	2,348.00	
26 05 19 16-0331 MLF #14 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,105.67	
26 05 19 16-0332 MLF #12 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,007.23	
26 05 19 16-0333 MLF #12 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	4,003.52	
26 05 19 16-0334 MLF #10 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,344.79	
26 05 19 16-0335 MLF #10 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	4,991.81	
26 05 19 16-0336 MLF #8 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	5,569.58	
26 05 19 16-0337 MLF #8 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	7,210.60	
26 05 19 16-0338 MLF #6 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	7,125.32	
26 05 19 16-0339 MLF #6 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	9,564.79	
26 05 19 16-0340 SEU Cable Copper, 3 Conductor <small>(26 05 19 16-0312)</small>		
26 05 19 16-0341 MLF 12-12-12 Cable SEU Copper	3,196.20	954.02
26 05 19 16-0342 MLF 10-10-10 Cable SEU Copper	4,159.51	1,083.74
26 05 19 16-0343 MLF 8-8-8 Cable SEU Copper	5,351.93	1,213.57
26 05 19 16-0344 MLF 6-6-8 Cable SEU Copper	6,678.90	1,301.03
26 05 19 16-0345 MLF 6-6-6 Cable SEU Copper	7,256.67	1,344.59
26 05 19 16-0346 MLF 4-4-6 Cable SEU Copper	9,062.25	1,474.43
26 05 19 16-0347 MLF 4-4-4 Cable SEU Copper	9,857.93	1,517.89
26 05 19 16-0348 MLF 3-3-5 Cable SEU Copper	11,636.37	1,647.07



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0349 MLF 3-3-3 Cable SEU Copper.....	12,380.18	1,733.99
26 05 19 16-0350 MLF 2-2-4 Cable SEU Copper.....	13,266.25	1,821.44
26 05 19 16-0351 MLF 2-2-2 Cable SEU Copper.....	14,235.49	1,908.04
26 05 19 16-0352 MLF 1-1-1 Cable SEU Copper.....	17,647.44	2,167.48
26 05 19 16-0353 MLF 1/0-1/0-1/0 Cable SEU Copper.....	21,200.14	2,429.97
26 05 19 16-0354 MLF 2/0-2/0-2/0 Cable SEU Copper.....	25,780.47	2,736.78
26 05 19 16-0355 MLF 3/0-3/0-3/0 Cable SEU Copper.....	31,346.97	3,044.23
26 05 19 16-0356 MLF 4/0-4/0-4/0 Cable SEU Copper.....	35,038.29	3,397.31
26 05 19 16-0357 SER Cable Copper, 4 Conductor <small>(26 05 19 16-0312)</small>		
26 05 19 16-0358 MLF 6-6-6 Cable SER Copper.....	11,487.21	1,561.56
26 05 19 16-0359 MLF 4-4-4 Cable SER Copper.....	12,619.74	1,690.74
26 05 19 16-0360 MLF 3-3-3 Cable SER Copper.....	15,840.67	1,908.04
26 05 19 16-0361 MLF 2-2-2 Cable SER Copper.....	18,247.06	2,080.13
26 05 19 16-0362 MLF 1-1-1 Cable SER Copper.....	21,313.54	2,381.85
26 05 19 16-0363 MLF 1/0-1/0-1/0-2 Cable SER Copper.....	26,143.43	2,729.84
26 05 19 16-0364 MLF 2/0-2/0-2/0-1 Cable SER Copper.....	33,267.63	2,944.96
26 05 19 16-0365 MLF 3/0-3/0-3/0-1/0 Cable SER Copper.....	38,541.75	3,294.03
26 05 19 16-0366 Control Tray Cable, Low Voltage <small>(26 05 19 16-0011)</small>		
<small>Note: Type "TC" multi-conductor (individually numbered conductors) control cables installed in conduit.</small>		
26 05 19 16-0367 MLF 2 Conductor #18 AWG, Stranded, Type TC Control Cable.....	999.16	480.27
<i>For Work In Restricted Working Space, Add</i>	<i>240.14</i>	
26 05 19 16-0368 MLF 3 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,150.88	537.24
<i>For Work In Restricted Working Space, Add</i>	<i>268.62</i>	
26 05 19 16-0369 MLF 4 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,202.93	537.20
<i>For Work In Restricted Working Space, Add</i>	<i>268.62</i>	
26 05 19 16-0370 MLF 5 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,506.24	673.80
<i>For Work In Restricted Working Space, Add</i>	<i>336.90</i>	
26 05 19 16-0371 MLF 7 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,893.66	821.10
<i>For Work In Restricted Working Space, Add</i>	<i>410.55</i>	
26 05 19 16-0372 MLF 9 Conductor #18 AWG, Stranded, Type TC Control Cable.....	2,157.78	902.92
<i>For Work In Restricted Working Space, Add</i>	<i>451.46</i>	
26 05 19 16-0373 MLF 12 Conductor #18 AWG, Stranded, Type TC Control Cable.....	2,561.54	1,025.94
<i>For Work In Restricted Working Space, Add</i>	<i>512.98</i>	
26 05 19 16-0374 MLF 15 Conductor #18 AWG, Stranded, Type TC Control Cable.....	3,234.95	1,253.99
<i>For Work In Restricted Working Space, Add</i>	<i>627.00</i>	
26 05 19 16-0375 MLF 19 Conductor #18 AWG, Stranded, Type TC Control Cable.....	3,689.99	1,368.05
<i>For Work In Restricted Working Space, Add</i>	<i>684.03</i>	
26 05 19 16-0376 MLF 25 Conductor #18 AWG, Stranded, Type TC Control Cable.....	4,347.94	1,410.82
<i>For Work In Restricted Working Space, Add</i>	<i>705.41</i>	
26 05 19 16-0377 MLF 30 Conductor #18 AWG, Stranded, Type TC Control Cable.....	5,336.19	1,762.49
<i>For Work In Restricted Working Space, Add</i>	<i>881.24</i>	
26 05 19 16-0378 MLF 37 Conductor #18 AWG, Stranded, Type TC Control Cable.....	6,394.72	2,059.80
<i>For Work In Restricted Working Space, Add</i>	<i>1,029.90</i>	
26 05 19 16-0379 MLF 2 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,090.92	505.92
<i>For Work In Restricted Working Space, Add</i>	<i>252.76</i>	
26 05 19 16-0380 MLF 3 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,261.89	565.52
<i>For Work In Restricted Working Space, Add</i>	<i>282.76</i>	
26 05 19 16-0381 MLF 4 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,469.50	651.06
<i>For Work In Restricted Working Space, Add</i>	<i>325.53</i>	
26 05 19 16-0382 MLF 5 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,661.15	709.27
<i>For Work In Restricted Working Space, Add</i>	<i>354.64</i>	
26 05 19 16-0383 MLF 7 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,096.97	864.32
<i>For Work In Restricted Working Space, Add</i>	<i>432.16</i>	
26 05 19 16-0384 MLF 9 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,400.21	950.45
<i>For Work In Restricted Working Space, Add</i>	<i>475.22</i>	
26 05 19 16-0385 MLF 12 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,864.43	1,079.95
<i>For Work In Restricted Working Space, Add</i>	<i>539.97</i>	
26 05 19 16-0386 MLF 15 Conductor #16 AWG, Stranded, Type TC Control Cable.....	3,631.08	1,319.93
<i>For Work In Restricted Working Space, Add</i>	<i>659.97</i>	
26 05 19 16-0387 MLF 19 Conductor #16 AWG, Stranded, Type TC Control Cable.....	4,162.25	1,439.93
<i>For Work In Restricted Working Space, Add</i>	<i>719.96</i>	
26 05 19 16-0388 MLF 25 Conductor #16 AWG, Stranded, Type TC Control Cable.....	4,970.83	1,485.08
<i>For Work In Restricted Working Space, Add</i>	<i>742.54</i>	
26 05 19 16-0389 MLF 30 Conductor #16 AWG, Stranded, Type TC Control Cable.....	6,090.32	1,855.15
<i>For Work In Restricted Working Space, Add</i>	<i>927.58</i>	
26 05 19 16-0390 MLF 37 Conductor #16 AWG, Stranded, Type TC Control Cable.....	7,315.84	2,168.21
<i>For Work In Restricted Working Space, Add</i>	<i>1,084.10</i>	
26 05 19 16-0391 MLF 2 Conductor #14 AWG, Stranded, Type TC Control Cable.....	1,181.76	528.09
<i>For Work In Restricted Working Space, Add</i>	<i>264.05</i>	
26 05 19 16-0392 MLF 3 Conductor #14 AWG, Stranded, Type TC Control Cable.....	1,409.94	594.03
<i>For Work In Restricted Working Space, Add</i>	<i>297.02</i>	
26 05 19 16-0393 MLF 4 Conductor #14 AWG, Stranded, Type TC Control Cable.....	1,652.05	678.98
<i>For Work In Restricted Working Space, Add</i>	<i>339.49</i>	
26 05 19 16-0394 MLF 5 Conductor #14 AWG, Stranded, Type TC Control Cable.....	1,857.46	731.25
<i>For Work In Restricted Working Space, Add</i>	<i>365.63</i>	
26 05 19 16-0395 MLF 7 Conductor #14 AWG, Stranded, Type TC Control Cable.....	2,469.79	896.39
<i>For Work In Restricted Working Space, Add</i>	<i>448.19</i>	
26 05 19 16-0396 MLF 9 Conductor #14 AWG, Stranded, Type TC Control Cable.....	2,845.04	990.05
<i>For Work In Restricted Working Space, Add</i>	<i>495.12</i>	

26 Electrical

26 05 Common Work Results for Electrical

26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0397	MLF		12 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,485.58 552.45	1,104.90
26 05 19 16-0398	MLF		15 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,163.34 659.97	1,319.74
26 05 19 16-0399	MLF		19 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,002.65 766.60	1,533.59
26 05 19 16-0400	MLF		25 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,229.83 896.69	1,792.98
26 05 19 16-0401	MLF		30 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,237.36 1,001.83	2,003.66
26 05 19 16-0402	MLF		37 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,715.59 1,170.83	2,341.66
26 05 19 16-0403	MLF		2 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,374.25 282.76	565.52
26 05 19 16-0404	MLF		3 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,639.83 312.76	625.71
26 05 19 16-0405	MLF		4 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,992.42 359.98	719.97
26 05 19 16-0406	MLF		5 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,252.98 383.15	766.30
26 05 19 16-0407	MLF		7 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,965.72 456.81	913.62
26 05 19 16-0408	MLF		9 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,656.91 539.97	1,079.95
26 05 19 16-0409	MLF		12 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,443.50 609.18	1,218.35
26 05 19 16-0410	MLF		15 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,286.59 698.88	1,397.75
26 05 19 16-0411	MLF		19 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,248.00 792.14	1,584.28
26 05 19 16-0412	MLF		25 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,994.61 925.80	1,851.59
26 05 19 16-0413	MLF		30 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	9,258.72 1,082.02	2,164.05
26 05 19 16-0414	MLF		37 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	11,194.21 1,264.69	2,529.37
26 05 19 16-0415	MLF		2 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,634.68 297.02	594.03
26 05 19 16-0416	MLF		3 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,037.24 325.53	651.45
26 05 19 16-0417	MLF		4 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,479.51 371.27	742.54
26 05 19 16-0418	MLF		5 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,880.14 402.75	805.51
26 05 19 16-0419	MLF		7 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,896.91 505.52	1,011.04
26 05 19 16-0420	MLF		9 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,618.32 565.82	1,131.62
26 05 19 16-0421	MLF		12 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,381.62 659.97	1,319.93
26 05 19 16-0422	MLF		15 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,359.82 754.72	1,509.43
26 05 19 16-0423	MLF		19 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,541.14 855.40	1,710.81
26 05 19 16-0424	MLF		25 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	9,713.72 999.75	1,999.50
26 05 19 16-0425	MLF		30 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	11,242.42 1,168.46	2,336.91
26 05 19 16-0426	MLF		37 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	13,625.38 1,365.97	2,731.94
26 05 19 16-0427	ACSR (Aluminum Conductor Steel Reinforced) <small>(26 05 19 16-0011)</small> Note: Concentric lay stranded Class A galvanizing installed on poles, aerially.				
26 05 19 16-0428	ACSR Cable <small>(26 05 19 16-0427)</small>				
26 05 19 16-0429	MLF		#4 AWG, ACSR Cable Swan 6/1, Aluminum Cable, Installed On Poles (Aerial)	1,449.77	510.49
26 05 19 16-0430	MLF		#4 AWG, ACSR Cable Swanate 7/1, Aluminum Cable, Installed On Poles (Aerial)	1,519.61	530.07
26 05 19 16-0431	MLF		#2 AWG, ACSR Cable Sparrow 6/1, Aluminum Cable, Installed On Poles (Aerial)	1,603.96	550.47
26 05 19 16-0432	MLF		#2 AWG, ACSR Cable Sparate 7/1, Aluminum Cable, Installed On Poles (Aerial)	1,674.47	570.41
26 05 19 16-0433	MLF		1/0 AWG, ACSR Cable Raven 6/1, Aluminum Cable, Installed On Poles (Aerial)	1,787.97	589.75
26 05 19 16-0434	MLF		2/0 AWG, ACSR Cable Quail 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,051.74	668.54
26 05 19 16-0435	MLF		3/0 AWG, ACSR Cable Pigeon 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,326.07	745.56
26 05 19 16-0436	MLF		4/0 AWG, ACSR Cable Penguin 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,617.97	823.64
26 05 19 16-0437	MLF		336 AWG ACSR Cable Merlin 18/1, Aluminum Cable, Installed On Poles (Aerial).....	3,225.56	1,058.47
26 05 19 16-0438	MLF		477 AWG, ACSR Cable Hawk 26/1, Aluminum Cable, Installed On Poles (Aerial)	3,686.16	1,214.17
26 05 19 16-0439	All Aluminum Conductors <small>(26 05 19 16-0427)</small>				
26 05 19 16-0440	MLF		795.0 ACSR Conductor Aluminum.....	27,382.28	10,102.41
26 05 19 16-0441	Single Conductor Installed On Poles <small>(26 05 19 16-0011)</small>				



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0442	Bare Stranded Conductor <small>(26 05 19 16-0441)</small>			
26 05 19 16-0443	MLF #12 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,344.22	432.52	
26 05 19 16-0444	MLF #10 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,593.02	471.44	
26 05 19 16-0445	MLF #8 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,843.09	510.84	
26 05 19 16-0446	MLF #6 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	2,296.50	550.47	
26 05 19 16-0447	MLF #4 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	2,832.64	590.21	
26 05 19 16-0448	MLF #2 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	4,127.16	707.93	
26 05 19 16-0449	MLF #1 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	4,756.64	786.37	
26 05 19 16-0450	MLF 1/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	5,445.44	863.39	
26 05 19 16-0451	MLF 2/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	7,371.33	1,024.04	
26 05 19 16-0452	MLF 3/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	8,978.39	1,177.37	
26 05 19 16-0453	MLF 4/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	9,600.68	1,334.37	
26 05 19 16-0454	MLF 250 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	12,212.02	1,572.62	
26 05 19 16-0455	MLF 300 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	12,468.23	1,655.42	
26 05 19 16-0456	MLF 350 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	15,736.86	1,733.62	
26 05 19 16-0457	MLF 400 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	17,447.50	1,804.74	
26 05 19 16-0458	MLF 500 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	20,453.75	1,881.77	
26 05 19 16-0459	Insulated Stranded Conductor <small>(26 05 19 16-0441)</small>			
26 05 19 16-0460	MLF #12 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,471.29	432.52	
26 05 19 16-0461	MLF #10 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,756.97	471.44	
26 05 19 16-0462	MLF #8 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,166.75	510.84	
26 05 19 16-0463	MLF #6 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,357.76	550.47	
26 05 19 16-0464	MLF #4 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,926.11	590.21	
26 05 19 16-0465	MLF #2 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	3,992.18	707.93	
26 05 19 16-0466	MLF #1 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	4,743.17	786.37	
26 05 19 16-0467	MLF 1/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	5,633.38	863.39	
26 05 19 16-0468	MLF 2/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	6,794.17	1,024.04	
26 05 19 16-0469	MLF 3/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	8,173.89	1,177.37	
26 05 19 16-0470	MLF 4/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	9,663.44	1,334.37	
26 05 19 16-0471	MLF 250 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	11,828.02	1,572.62	
26 05 19 16-0472	MLF 300 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	13,484.68	1,655.42	
26 05 19 16-0473	MLF 350 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	14,830.15	1,733.62	
26 05 19 16-0474	MLF 400 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	16,695.71	1,804.74	
26 05 19 16-0475	MLF 500 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	18,854.72	1,881.77	
26 05 19 16-0476	Bare Solid Conductor <small>(26 05 19 16-0441)</small>			
26 05 19 16-0477	MLF #12 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	1,344.22	432.52	
26 05 19 16-0478	MLF #8 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	1,843.09	510.84	
26 05 19 16-0479	MLF #6 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	2,296.50	550.47	
26 05 19 16-0480	MLF #4 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	2,794.02	590.21	
26 05 19 16-0481	Multi-Conductor Cords, Cables And Associated Equipment <small>(26 05 19 16-0011)</small>			
26 05 19 16-0482	Multi-Conductor Cords <small>(26 05 19 16-0481)</small>			
	Note: Includes installation in cable tray, surface mounting or installation between junction boxes. Excludes strain relief devices, plugs and connector bodies.			
26 05 19 16-0483	Multi-Conductor Type SOOW And SJOOW Cord <small>(26 05 19 16-0482)</small>			
	Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.			
26 05 19 16-0484	300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0483)</small>			
26 05 19 16-0485	#18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0484)</small>			
26 05 19 16-0486	LF 2 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.18	0.43	
26 05 19 16-0487	LF 3 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.25	0.43	
26 05 19 16-0488	LF 4 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.43	0.43	
26 05 19 16-0489	#16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0484)</small>			
26 05 19 16-0490	LF 2 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.38	0.43	
26 05 19 16-0491	LF 3 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.49	0.43	
26 05 19 16-0492	LF 4 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.65	0.43	
26 05 19 16-0493	#14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0484)</small>			
26 05 19 16-0494	LF 2 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.58	0.43	
26 05 19 16-0495	LF 3 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.76	0.43	
26 05 19 16-0496	LF 4 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.10	0.43	
26 05 19 16-0497	#12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0484)</small>			
26 05 19 16-0498	LF 2 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.88	0.43	
26 05 19 16-0499	LF 3 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.09	0.43	
26 05 19 16-0500	LF 4 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.38	0.43	

26 Electrical

26 05 Common Work Results for Electrical

26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0501			#10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0484)</small>		
26 05 19 16-0502	LF		2 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.50	0.54
26 05 19 16-0503	LF		3 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.64	0.54
26 05 19 16-0504	LF		4 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.86	0.54
26 05 19 16-0505			600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0483)</small>		
26 05 19 16-0506			#18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0505)</small>		
26 05 19 16-0507	LF		2 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.25	0.43
26 05 19 16-0508	LF		3 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.37	0.43
26 05 19 16-0509	LF		4 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.54	0.43
26 05 19 16-0510	LF		5 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.79	0.58
26 05 19 16-0511	LF		6 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.07	0.60
26 05 19 16-0512	LF		7 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.28	0.62
26 05 19 16-0513	LF		8 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.62	0.63
26 05 19 16-0514	LF		10 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.20	0.66
26 05 19 16-0515	LF		12 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.83	0.68
26 05 19 16-0516	LF		14 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.48	0.70
26 05 19 16-0517	LF		16 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.60	0.71
26 05 19 16-0518	LF		18 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.79	0.73
26 05 19 16-0519	LF		20 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.58	0.75
26 05 19 16-0520	LF		24 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.66	0.76
26 05 19 16-0521	LF		30 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.07	0.81
26 05 19 16-0522			#16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0505)</small>		
26 05 19 16-0523	LF		2 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.48	0.43
26 05 19 16-0524	LF		3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.59	0.43
26 05 19 16-0525	LF		4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.81	0.43
26 05 19 16-0526	LF		5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.93	0.58
26 05 19 16-0527	LF		6 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.26	0.60
26 05 19 16-0528	LF		7 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.59	0.62
26 05 19 16-0529	LF		8 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.99	0.63
26 05 19 16-0530	LF		9 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.16	0.65
26 05 19 16-0531	LF		10 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.66	0.66
26 05 19 16-0532	LF		12 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.49	0.68
26 05 19 16-0533	LF		14 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.91	0.70
26 05 19 16-0534	LF		16 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.72	0.71
26 05 19 16-0535	LF		18 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.82	0.73
26 05 19 16-0536	LF		20 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.80	0.75
26 05 19 16-0537	LF		24 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.72	0.76
26 05 19 16-0538	LF		26 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.82	0.78
26 05 19 16-0539	LF		30 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	13.82	0.81
26 05 19 16-0540			#14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0505)</small>		
26 05 19 16-0541	LF		2 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.79	0.43
26 05 19 16-0542	LF		3 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.92	0.43
26 05 19 16-0543	LF		4 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.23	0.43
26 05 19 16-0544	LF		5 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.90	0.58
26 05 19 16-0545	LF		6 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.74	0.60
26 05 19 16-0546	LF		7 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.02	0.62
26 05 19 16-0547	LF		8 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.67	0.63
26 05 19 16-0548	LF		9 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.12	0.65
26 05 19 16-0549	LF		10 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.87	0.66
26 05 19 16-0550	LF		12 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.59	0.68
26 05 19 16-0551	LF		14 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.40	0.70



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0552 LF 16 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.18	0.71
26 05 19 16-0553 LF 20 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.45	0.75
26 05 19 16-0554 LF 24 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	13.57	0.76
26 05 19 16-0555 LF 30 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	16.10	0.81
26 05 19 16-0556 #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0505)</small>		
26 05 19 16-0557 LF 2 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.10	0.43
26 05 19 16-0558 LF 3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.34	0.43
26 05 19 16-0559 LF 4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.57	0.43
26 05 19 16-0560 LF 5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.52	0.58
26 05 19 16-0561 LF 6 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.29	0.60
26 05 19 16-0562 LF 7 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.07	0.62
26 05 19 16-0563 LF 8 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.92	0.63
26 05 19 16-0564 LF 9 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.52	0.65
26 05 19 16-0565 LF 10 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.56	0.66
26 05 19 16-0566 LF 12 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.79	0.68
26 05 19 16-0567 LF 14 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.92	0.70
26 05 19 16-0568 LF 16 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.06	0.71
26 05 19 16-0569 LF 18 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.61	0.73
26 05 19 16-0570 LF 20 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	14.58	0.75
26 05 19 16-0571 LF 24 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	16.61	0.76
26 05 19 16-0572 LF 26 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	18.65	0.78
26 05 19 16-0573 LF 28 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	19.29	0.79
26 05 19 16-0574 LF 30 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	20.01	0.81
26 05 19 16-0575 #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0505)</small>		
26 05 19 16-0576 LF 2 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.44	0.54
26 05 19 16-0577 LF 3 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.64	0.54
26 05 19 16-0578 LF 4 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.85	0.54
26 05 19 16-0579 LF 5 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.87	0.58
26 05 19 16-0580 LF 6 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.54	0.60
26 05 19 16-0581 LF 7 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.75	0.62
26 05 19 16-0582 LF 10 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.05	0.66
26 05 19 16-0583 LF 12 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.56	0.68
26 05 19 16-0584 LF 16 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	14.83	0.71
26 05 19 16-0585 LF 20 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	21.74	0.75
26 05 19 16-0586 #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0505)</small>		
26 05 19 16-0587 LF 3 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	5.07	0.65
26 05 19 16-0588 LF 4 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	5.54	0.76
26 05 19 16-0589 LF 5 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	7.69	0.76
26 05 19 16-0590 #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0505)</small>		
26 05 19 16-0591 LF 3 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	7.42	0.76
26 05 19 16-0592 LF 4 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	8.98	0.86
26 05 19 16-0593 LF 5 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	10.79	1.08
26 05 19 16-0594 #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0505)</small>		
26 05 19 16-0595 LF 3 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	11.96	1.08
26 05 19 16-0596 LF 4 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	13.15	1.19
26 05 19 16-0597 LF 5 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	15.93	1.30
26 05 19 16-0598 #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0505)</small>		
26 05 19 16-0599 LF 3 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	17.60	2.17

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0600 LF 4 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	22.44	2.71
26 05 19 16-0601 LF 5 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	26.95	3.58
26 05 19 16-0602 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0483)</small>		
26 05 19 16-0603 #18, 300 Volt, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0602)</small>		
26 05 19 16-0604 LF 2 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.65	0.43
26 05 19 16-0605 LF 3 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.84	0.43
26 05 19 16-0606 LF 4 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.24	0.43
26 05 19 16-0607 #16, 300 Volt, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0602)</small>		
26 05 19 16-0608 LF 2 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.77	0.43
26 05 19 16-0609 LF 3 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.08	0.43
26 05 19 16-0610 LF 4 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.23	0.43
26 05 19 16-0611 #14, 300 Volt, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0602)</small>		
26 05 19 16-0612 LF 2 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.55	0.43
26 05 19 16-0613 LF 3 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	3.82	0.43
26 05 19 16-0614 LF 4 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	4.94	0.54
26 05 19 16-0615 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0483)</small>		
26 05 19 16-0616 #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0615)</small>		
26 05 19 16-0617 LF 2 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.45	0.43
26 05 19 16-0618 LF 3 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.99	0.43
26 05 19 16-0619 LF 4 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.54	0.43
26 05 19 16-0620 #16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0615)</small>		
26 05 19 16-0621 LF 2/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.64	0.43
26 05 19 16-0622 LF 3/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.19	0.43
26 05 19 16-0623 LF 4/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.05	0.43
26 05 19 16-0624 LF 5/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.37	0.54
26 05 19 16-0625 #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0615)</small>		
26 05 19 16-0626 LF 3 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.31	0.43
26 05 19 16-0627 LF 4 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.01	0.43
26 05 19 16-0628 LF 5 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.49	0.54
26 05 19 16-0629 #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0615)</small>		
26 05 19 16-0630 LF 3 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.98	0.43
26 05 19 16-0631 LF 4 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.59	0.43
26 05 19 16-0632 LF 5 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	5.13	0.54
26 05 19 16-0633 #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0615)</small>		
26 05 19 16-0634 LF 3/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.57	0.54
26 05 19 16-0635 LF 4/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	5.12	0.54
26 05 19 16-0636 LF 5/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	5.66	0.54



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0637		Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0482)</small> Note: Includes thermoplastic elastomeric (TPE) insulation.		
26 05 19 16-0638		600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0637)</small>		
26 05 19 16-0639		#16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0638)</small>		
26 05 19 16-0640	LF	3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	1.80	0.43
26 05 19 16-0641	LF	4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.01	0.43
26 05 19 16-0642	LF	5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.16	0.54
26 05 19 16-0643		#14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0638)</small>		
26 05 19 16-0644	LF	3/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.44	0.43
26 05 19 16-0645	LF	4/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.85	0.43
26 05 19 16-0646	LF	5/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.17	0.54
26 05 19 16-0647		#12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0638)</small>		
26 05 19 16-0648	LF	3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.10	0.43
26 05 19 16-0649	LF	4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.63	0.43
26 05 19 16-0650	LF	5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.61	0.54
26 05 19 16-0651		#10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0638)</small>		
26 05 19 16-0652	LF	3/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.98	0.54
26 05 19 16-0653	LF	4/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.61	0.54
26 05 19 16-0654	LF	5/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.95	0.54
26 05 19 16-0655		Multi-Conductor Type W Cord <small>(26 05 19 16-0482)</small> Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0656		2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0655)</small>		
26 05 19 16-0657		#8 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0656)</small>		
26 05 19 16-0658	LF	3/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	5.60	0.65
26 05 19 16-0659	LF	4/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.04	0.76
26 05 19 16-0660	LF	5/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	7.19	0.76
26 05 19 16-0661		#6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0656)</small>		
26 05 19 16-0662	LF	3 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.00	0.76
26 05 19 16-0663	LF	4 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	7.17	0.86
26 05 19 16-0664	LF	5/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	8.94	1.08
26 05 19 16-0665		#4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0656)</small>		
26 05 19 16-0666	LF	3 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	8.33	0.76
26 05 19 16-0667	LF	4 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	9.85	0.86
26 05 19 16-0668	LF	5 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	12.71	1.08
26 05 19 16-0669		Cord Grips, Cable Reels, Extension Cords, And Accessories <small>(26 05 19 16-0481)</small>		
26 05 19 16-0670		Cord Grips <small>(26 05 19 16-0669)</small>		
26 05 19 16-0671	EA	Cord Grip With Watertight Connector For 1/2" NPT Zinc Plated Steel.....	69.08	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.70	
26 05 19 16-0672	EA	Cord Grip With Watertight Connector For 3/4" NPT Zinc Plated Steel.....	69.86	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.70	
26 05 19 16-0673		Cable Reels <small>(26 05 19 16-0669)</small> Note: Includes handling, mounting, electrical connections and installing cord. See CSI section 26 05 19 16-0481 for cords.		
26 05 19 16-0674	EA	30', 16-3, SJO, Extension Cord Reel (Cox Reels PC10-3016-A).....	901.97	54.18
26 05 19 16-0675	EA	50', 10-4, SEOW, Extension Cord Reel (Reelcraft L 7050 104 X 1).....	2,607.05	54.18
26 05 19 16-0676	EA	50', 16-3, SOOW, Extension Cord Reel (KH Industries RTFD3L-WW-B16K).....	1,933.04	54.18
26 05 19 16-0677		Extension Cords For Cable Reel <small>(26 05 19 16-0669)</small>		
26 05 19 16-0678	EA	100 LF, 120 Volt, 12 Gauge, 3 Wire, Extension Cord.....	189.77	
26 05 19 16-0679	EA	100 LF, 240 Volt, 10 Gauge, 3 Wire, Extension Cord.....	270.74	
26 05 19 16-0680		Plugs And Connector Bodies <small>(26 05 19 16-0669)</small> Note: Up to 277 volt		
26 05 19 16-0681		NEMA Twist-Lock Plugs <small>(26 05 19 16-0680)</small>		

26 Electrical

26 05 Common Work Results for Electrical

26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 05 19 16-0682	EA		15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7545C).....	75.56	
26 05 19 16-0683	EA		15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL4770CBK).....	77.20	
26 05 19 16-0684	EA		20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7102C).....	70.28	
26 05 19 16-0685	EA		20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2331).....	75.35	
26 05 19 16-0686	EA		20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2411).....	99.12	
26 05 19 16-0687	EA		20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2441).....	105.56	
26 05 19 16-0688	EA		20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2511BK).....	111.87	
26 05 19 16-0689	EA		30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2611BK).....	100.08	
26 05 19 16-0690	EA		20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2711BK).....	115.56	
26 05 19 16-0691	EA		30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2761).....	118.58	
26 05 19 16-0692	EA		30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2811BK).....	122.42	

26 05 19 16-0693 NEMA Twist-Lock Connector Bodies (26 05 19 16-0680)

26 05 19 16-0694	EA		15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7506C).....	80.21	
26 05 19 16-0695	EA		15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL4779C).....	86.04	
26 05 19 16-0696	EA		20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7101C).....	73.77	
26 05 19 16-0697	EA		20 Amperes, 3 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2323BK).....	100.08	
26 05 19 16-0698	EA		20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2413BK).....	117.07	
26 05 19 16-0699	EA		20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2443).....	125.29	
26 05 19 16-0700	EA		20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2513BK).....	152.97	
26 05 19 16-0701	EA		30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2623BK).....	145.98	
26 05 19 16-0702	EA		30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2713BK).....	180.65	
26 05 19 16-0703	EA		30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2753).....	189.83	
26 05 19 16-0704	EA		30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2813BK).....	179.83	

26 05 19 16-0705 Watertight Pin And Sleeve Plug (26 05 19 16-0680)

26 05 19 16-0706	EA		20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P4W).....	262.36	32.51
26 05 19 16-0707	EA		20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P6W).....	265.22	32.51
26 05 19 16-0708	EA		20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P7W).....	287.44	32.51
26 05 19 16-0709	EA		20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P12W).....	287.25	35.77
26 05 19 16-0710	EA		20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P9W).....	282.94	35.77
26 05 19 16-0711	EA		20 Amperes, Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P7W).....	284.22	35.77
26 05 19 16-0712	EA		30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P4W).....	402.21	39.99
26 05 19 16-0713	EA		30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P6W).....	391.47	39.99
26 05 19 16-0714	EA		30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P7W).....	437.58	39.99
26 05 19 16-0715	EA		30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P12W).....	428.97	43.89
26 05 19 16-0716	EA		30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P9W).....	410.33	43.89
26 05 19 16-0717	EA		30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P7W).....	423.15	43.89
26 05 19 16-0718	EA		60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P4W).....	546.97	52.02
26 05 19 16-0719	EA		60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P6W).....	557.19	52.02
26 05 19 16-0720	EA		60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P7W).....	532.95	52.02
26 05 19 16-0721	EA		60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P12W).....	607.24	57.87
26 05 19 16-0722	EA		60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P9W).....	591.33	57.87
26 05 19 16-0723	EA		60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P7W).....	598.21	57.87
26 05 19 16-0724	EA		100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P6W).....	751.95	65.02
26 05 19 16-0725	EA		100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P7W).....	791.44	65.02
26 05 19 16-0726	EA		100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P12W).....	769.92	71.53
26 05 19 16-0727	EA		100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P9W).....	756.44	71.53
26 05 19 16-0728	EA		100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P7W).....	763.72	71.53

26 05 19 16-0729 Watertight Pin And Sleeve Connector (26 05 19 16-0680)

26 05 19 16-0730	EA		20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C4W).....	278.82	32.51
26 05 19 16-0731	EA		20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C6W).....	280.80	32.51
26 05 19 16-0732	EA		20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C7W).....	331.98	32.51
26 05 19 16-0733	EA		20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C12W).....	328.72	35.77
26 05 19 16-0734	EA		20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C9W).....	323.53	35.77
26 05 19 16-0735	EA		20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C7W).....	328.23	35.77
26 05 19 16-0736	EA		30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C4W).....	412.04	39.99
26 05 19 16-0737	EA		30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C6W).....	411.93	39.99
26 05 19 16-0738	EA		30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C7W).....	429.58	39.99
26 05 19 16-0739	EA		30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C12W).....	424.18	43.89
26 05 19 16-0740	EA		30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C9W).....	427.82	43.89
26 05 19 16-0741	EA		30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C7W).....	423.98	43.89
26 05 19 16-0742	EA		60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C4W).....	647.84	52.02
26 05 19 16-0743	EA		60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C6W).....	626.23	52.02
26 05 19 16-0744	EA		60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C7W).....	613.34	52.02
26 05 19 16-0745	EA		60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C12W).....	667.28	57.87
26 05 19 16-0746	EA		60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C9W).....	686.07	57.87
26 05 19 16-0747	EA		60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C7W).....	687.44	57.87
26 05 19 16-0748	EA		100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C6W).....	862.60	65.02
26 05 19 16-0749	EA		100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C7W).....	887.39	65.02
26 05 19 16-0750	EA		100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C12W).....	958.63	71.53
26 05 19 16-0751	EA		100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C9W).....	924.58	71.53
26 05 19 16-0752	EA		100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C7W).....	936.19	71.53

26 05 19 16-0753 Accessories (26 05 19 16-0680)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0754 EA 1/2" Straight Steel Cord Connector.....	57.10	10.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 05 19 16-0755 EA 1/2" Straight Nylon Cord Connector.....	33.97	8.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 19 16-0756 EA 1/2" 90 Degree Steel Cord Connector.....	65.18	13.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 19 16-0757 EA 1/2" 90 Degree Nylon Cord Connector.....	40.71	10.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 05 19 16-0758 EA 1/2" Straight Steel Cord Connector With Strain Relief Mesh.....	64.30	13.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 19 16-0759 EA 1/2" 90 Degree Steel Cord Connector With Strain Relief Mesh.....	112.47	16.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.75	
26 05 19 16-0760 EA 1/2" Straight Nylon Cord Connector With Strain Relief Mesh.....	40.03	10.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 05 19 16-0761 EA 1/2" 90 Degree Nylon Cord Connector With Strain Relief Mesh.....	68.40	13.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 19 16-0762 EA 3/4" Straight Steel Cord Connector.....	59.59	10.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 05 19 16-0763 EA 3/4" Straight Nylon Cord Connector.....	35.22	8.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 19 16-0764 EA 3/4" 90 Degree Steel Cord Connector.....	72.96	13.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 19 16-0765 EA 3/4" 90 Degree Nylon Cord Connector.....	44.60	10.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 05 19 16-0766 EA 3/4" Straight Steel Cord Connector With Strain Relief Mesh.....	72.33	16.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.75	
26 05 19 16-0767 EA 3/4" 90 Degree Steel Cord Connector With Strain Relief Mesh.....	86.09	18.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	
26 05 19 16-0768 EA 3/4" Straight Nylon Cord Connector With Strain Relief Mesh.....	48.08	13.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 19 16-0769 EA 3/4" 90 Degree Nylon Cord Connector With Strain Relief Mesh.....	58.08	16.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.75	
26 05 19 16-0770 EA 1" Straight Steel Cord Connector.....	75.59	10.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 05 19 16-0771 EA 1" Straight Nylon Cord Connector.....	43.22	8.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 19 16-0772 EA 1" 90 Degree Steel Cord Connector.....	83.52	13.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 19 16-0773 EA 1" 90 Degree Nylon Cord Connector.....	49.89	10.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 05 19 16-0774 EA 1" Straight Steel Cord Connector With Strain Relief Mesh.....	89.13	16.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.75	
26 05 19 16-0775 EA 1" 90 Degree Steel Cord Connector With Strain Relief Mesh.....	97.18	18.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	
26 05 19 16-0776 EA 1" Straight Nylon Cord Connector With Strain Relief Mesh.....	56.60	13.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 19 16-0777 EA 1" 90 Degree Nylon Cord Connector With Strain Relief Mesh.....	65.29	16.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.75	

26 05 23 Control-Voltage Electrical Power Cables (26 05)

26 05 23 00-0001	Cable For HVAC System Controls <small>(26 05 23)</small>	
26 05 23 00-0002	Low Voltage Thermostat Cable To 300 Volt <small>(26 05 23 00-0001)</small>	
Note: For surface or conduit installation.		
26 05 23 00-0003	MLF #20/2 Conductor, Low Volt Thermostat Cable.....	459.30
26 05 23 00-0004	MLF #20/3 Conductor, Low Volt Thermostat Cable.....	531.69
26 05 23 00-0005	MLF #20/4 Conductor, Low Volt Thermostat Cable.....	578.63
26 05 23 00-0006	MLF #20/5 Conductor, Low Volt Thermostat Cable.....	708.76
26 05 23 00-0007	MLF #20/6 Conductor, Low Volt Thermostat Cable.....	744.53
26 05 23 00-0008	MLF #20/7 Conductor, Low Volt Thermostat Cable.....	823.96
26 05 23 00-0009	MLF #20/8 Conductor, Low Volt Thermostat Cable.....	892.22
26 05 23 00-0010	MLF #20/9 Conductor, Low Volt Thermostat Cable.....	973.74
26 05 23 00-0011	MLF #20/10 Conductor, Low Volt Thermostat Cable.....	1,052.86
26 05 23 00-0012	MLF #18/2 Conductor, Low Volt Thermostat Cable.....	506.03
26 05 23 00-0013	MLF #18/3 Conductor, Low Volt Thermostat Cable.....	615.06
26 05 23 00-0014	MLF #18/4 Conductor, Low Volt Thermostat Cable.....	710.89
26 05 23 00-0015	MLF #18/5 Conductor, Low Volt Thermostat Cable.....	763.36
26 05 23 00-0016	MLF #18/6 Conductor, Low Volt Thermostat Cable.....	854.20
26 05 23 00-0017	MLF #18/7 Conductor, Low Volt Thermostat Cable.....	874.31
26 05 23 00-0018	MLF #18/8 Conductor, Low Volt Thermostat Cable.....	969.07
26 05 23 00-0019	MLF #18/9 Conductor, Low Volt Thermostat Cable.....	1,158.13
26 05 23 00-0020	MLF #18/10 Conductor, Low Volt Thermostat Cable.....	1,280.29

26 05 26 Grounding and Bonding for Electrical Systems (26 05)

26 05 26 00-0001	Conductors, Straps And Conduit Jumpers <small>(26 05 26)</small>	
26 05 26 00-0002	Single Conductor <small>(26 05 26 00-0001)</small>	
26 05 26 00-0003	Copper Bare Stranded Conductors <small>(26 05 26 00-0002)</small>	
26 05 26 00-0004	MLF 12 AWG Copper Bare Single Stranded Conductor.....	606.90
		203.43

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0005 MLF 10 AWG Copper Bare Single Stranded Conductor	829.10	203.43
26 05 26 00-0006 MLF 8 AWG Copper Bare Single Stranded Conductor	1,052.12	245.06
26 05 26 00-0007 MLF 6 AWG Copper Bare Single Stranded Conductor	1,501.24	245.06
26 05 26 00-0008 MLF 4 AWG Copper Bare Single Stranded Conductor	2,062.96	295.91
26 05 26 00-0009 MLF 2 AWG Copper Bare Single Stranded Conductor	3,328.99	295.91
26 05 26 00-0010 MLF 1 AWG Copper Bare Single Stranded Conductor	3,874.93	356.02
26 05 26 00-0011 MLF 1/0 AWG Copper Bare Single Stranded Conductor	4,552.89	356.02
26 05 26 00-0012 MLF 2/0 AWG Copper Bare Single Stranded Conductor	6,456.82	448.49
26 05 26 00-0013 MLF 3/0 AWG Copper Bare Single Stranded Conductor	7,998.57	448.49
26 05 26 00-0014 MLF 4/0 AWG Copper Bare Single Stranded Conductor	8,436.45	596.45
26 05 26 00-0015 MLF 250 MCM Copper Bare Single Stranded Conductor	10,917.55	596.45
26 05 26 00-0016 MLF 300 MCM Copper Bare Single Stranded Conductor	10,919.47	688.92
26 05 26 00-0017 MLF 350 MCM Copper Bare Single Stranded Conductor	14,849.15	688.92
26 05 26 00-0018 MLF 500 MCM Copper Bare Single Stranded Conductor	20,356.31	850.74
26 05 26 00-0019 Copper Insulated Single Stranded Conductors (26 05 26 00-0002)		
26 05 26 00-0020 MLF 12 AWG Copper Insulated Single Stranded Conductor	1,232.36	277.42
26 05 26 00-0021 MLF 10 AWG Copper Insulated Single Stranded Conductor	1,285.33	277.42
26 05 26 00-0022 MLF 8 AWG Copper Insulated Single Stranded Conductor	1,673.81	277.42
26 05 26 00-0023 MLF 6 AWG Copper Insulated Single Stranded Conductor	1,873.76	480.85
26 05 26 00-0024 MLF 4 AWG Copper Insulated Single Stranded Conductor	2,584.91	480.85
26 05 26 00-0025 MLF 2 AWG Copper Insulated Single Stranded Conductor	3,718.22	480.85
26 05 26 00-0026 MLF 1 AWG Copper Insulated Single Stranded Conductor	4,530.18	841.49
26 05 26 00-0027 MLF 1/0 AWG Copper Insulated Single Stranded Conductor	5,563.01	841.49
26 05 26 00-0028 MLF 2/0 AWG Copper Insulated Single Stranded Conductor	6,575.97	841.49
26 05 26 00-0029 MLF 3/0 AWG Copper Insulated Single Stranded Conductor	7,900.62	841.49
26 05 26 00-0030 MLF 4/0 AWG Copper Insulated Single Stranded Conductor	9,376.64	1,100.41
26 05 26 00-0031 MLF 250 MCM Copper Insulated Single Stranded Conductor	11,425.45	1,100.41
26 05 26 00-0032 MLF 300 MCM Copper Insulated Single Stranded Conductor	13,370.17	1,100.41
26 05 26 00-0033 MLF 350 MCM Copper Insulated Single Stranded Conductor	15,510.70	1,710.73
26 05 26 00-0034 MLF 500 MCM Copper Insulated Single Stranded Conductor	20,428.40	1,710.73
26 05 26 00-0035 Copper Bare Single Solid Conductors (26 05 26 00-0002)		
26 05 26 00-0036 MLF 12 AWG Copper Bare Single Solid Conductor	606.90	203.43
26 05 26 00-0037 MLF 10 AWG Copper Bare Single Solid Conductor	829.10	203.43
26 05 26 00-0038 MLF 8 AWG Copper Bare Single Solid Conductor	1,052.12	245.06
26 05 26 00-0039 MLF 6 AWG Copper Bare Single Solid Conductor	1,501.24	245.06
26 05 26 00-0040 MLF 4 AWG Copper Bare Single Solid Conductor	2,062.96	295.91
26 05 26 00-0041 MLF 2 AWG Copper Bare Single Solid Conductor	3,328.99	295.91
26 05 26 00-0042 MLF 1/0 AWG Copper Bare Single Solid Conductor	4,552.89	356.02
26 05 26 00-0043 MLF 4/0 AWG Copper Bare Single Solid Conductor	8,436.45	471.60
26 05 26 00-0044 Aluminum Bare Single Stranded Conductors (26 05 26 00-0002)		
26 05 26 00-0045 MLF 8 AWG Aluminum Bare Single Stranded Conductor	531.48	245.06
26 05 26 00-0046 MLF 6 AWG Aluminum Bare Single Stranded Conductor	573.04	245.06
26 05 26 00-0047 MLF 4 AWG Aluminum Bare Single Stranded Conductor	636.64	295.91
26 05 26 00-0048 MLF 2 AWG Aluminum Bare Single Stranded Conductor	762.32	295.91
26 05 26 00-0049 MLF 1 AWG Aluminum Bare Single Stranded Conductor	844.06	356.02
26 05 26 00-0050 MLF 1/0 AWG Aluminum Bare Single Stranded Conductor	966.20	356.02
26 05 26 00-0051 MLF 2/0 AWG Aluminum Bare Single Stranded Conductor	1,094.18	448.49
26 05 26 00-0052 MLF 3/0 AWG Aluminum Bare Single Stranded Conductor	1,238.22	448.49
26 05 26 00-0053 MLF 4/0 AWG Aluminum Bare Single Stranded Conductor	1,481.88	596.45
26 05 26 00-0054 MLF 250 MCM Aluminum Bare Single Stranded Conductor	1,634.42	596.45
26 05 26 00-0055 MLF 300 MCM Aluminum Bare Single Stranded Conductor	1,862.81	688.92
26 05 26 00-0056 MLF 350 MCM Aluminum Bare Single Stranded Conductor	2,063.94	688.92
26 05 26 00-0057 MLF 500 MCM Aluminum Bare Single Stranded Conductor	2,447.87	850.74
26 05 26 00-0058 Aluminum Bare Single Solid Conductors (26 05 26 00-0002)		
26 05 26 00-0059 MLF 8 AWG Aluminum Bare Single Solid Conductor	531.48	245.06
26 05 26 00-0060 MLF 6 AWG Aluminum Bare Single Solid Conductor	573.04	245.06
26 05 26 00-0061 MLF 4 AWG Aluminum Bare Single Solid Conductor	636.64	295.91
26 05 26 00-0062 MLF 2 AWG Aluminum Bare Single Solid Conductor	762.32	295.91
26 05 26 00-0063 MLF 1 AWG Aluminum Bare Single Solid Conductor	806.74	471.60
26 05 26 00-0064 MLF 1/0 AWG Aluminum Bare Single Solid Conductor	966.20	471.60
26 05 26 00-0065 MLF 2/0 AWG Aluminum Bare Single Solid Conductor	1,001.73	448.49
26 05 26 00-0066 MLF 3/0 AWG Aluminum Bare Single Solid Conductor	1,052.07	448.49
26 05 26 00-0067 MLF 4/0 AWG Aluminum Bare Single Solid Conductor	1,481.88	596.45
26 05 26 00-0068 MLF 250 MCM Aluminum Bare Single Solid Conductor	1,634.42	596.45
26 05 26 00-0069 MLF 300 MCM Aluminum Bare Single Solid Conductor	1,862.81	688.92
26 05 26 00-0070 MLF 350 MCM Aluminum Bare Single Solid Conductor	2,063.94	688.92
26 05 26 00-0071 MLF 500 MCM Aluminum Bare Single Solid Conductor	2,447.87	850.74
26 05 26 00-0072 Aluminum Smooth Woven Conductors (26 05 26 00-0002)		
26 05 26 00-0073 LF 10 Strand x 14 AWG Smooth Weave Aluminum Conductor	2.63	0.75
26 05 26 00-0074 LF 16 Strand x 14 AWG Smooth Weave Aluminum Conductor	2.91	0.82



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0075 LF 24 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.47	0.94
26 05 26 00-0076 LF 26 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.48	0.96
26 05 26 00-0077 LF 28 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.66	1.01
26 05 26 00-0078 Copper Flexible Braid Connector Jumper Strap <small>(26 05 26 00-0001)</small>		
<small>Note: Manufactured from flat extra flexible tinned braid. Ferrules are tin plated pure electrolytic copper with 2 holes, on each end.</small>		
26 05 26 00-0079 EA 100 Amperes, Copper Flexible Braid Jumper Strap, 12" Length	128.01	27.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.25	
26 05 26 00-0080 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 12" Length	221.92	32.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.51	
26 05 26 00-0081 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 18" Length	284.74	32.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.51	
26 05 26 00-0082 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 24" Length	346.70	32.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.51	
26 05 26 00-0083 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 12" Length	299.00	35.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.38	
26 05 26 00-0084 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 18" Length	389.37	35.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.38	
26 05 26 00-0085 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 24" Length	467.89	35.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.38	
26 05 26 00-0086 EA 600 Amperes, Copper Flexible Braid Jumper Strap, 12" Length	389.79	44.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.82	
26 05 26 00-0087 EA 800 Amperes, Copper Flexible Braid Jumper Strap, 12" Length	468.72	54.18
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.51	
26 05 26 00-0088 Bonding Jumper For Metallic Conduit <small>(26 05 26 00-0001)</small>		
26 05 26 00-0089 EA 1/2" To 1" Conductor, Bonding Jumper, Metallic Conduit	169.24	59.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.87	
26 05 26 00-0090 EA 1-1/4" To 2" Conductor, Bonding Jumper, Metallic Conduit	208.50	59.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.68	
26 05 26 00-0091 EA 2-1/2" To 4" Conductor, Bonding Jumper, Metallic Conduit	307.07	92.12
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.26	
26 05 26 00-0092 EA 5" To 6" Conductor, Bonding Jumper, Metallic Conduit	455.63	92.12
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.21	
26 05 26 00-0093 Ground Rods <small>(26 05 26)</small>		
26 05 26 00-0094 Copper-Clad Ground Rods <small>(26 05 26 00-0093)</small>		
26 05 26 00-0095 EA 1/2" Diameter x 8' Long Copper-Clad Ground Rods	88.49	81.28
26 05 26 00-0096 EA 5/8" Diameter x 8' Long Copper-Clad Ground Rods	91.71	81.28
26 05 26 00-0097 EA 3/4" Diameter x 8' Long Copper-Clad Ground Rods	104.72	81.28
26 05 26 00-0098 EA 1/2" Diameter x 10' Long Copper-Clad Ground Rods	103.85	81.28
26 05 26 00-0099 EA 5/8" Diameter x 10' Long Copper-Clad Ground Rods	107.88	81.28
26 05 26 00-0100 EA 3/4" Diameter x 10' Long Copper-Clad Ground Rods	124.14	81.28
26 05 26 00-0101 Copper Grounding Shaft <small>(26 05 26 00-0093)</small>		
26 05 26 00-0102 EA 2-1/8" Diameter x 10' Long Copper Grounding Shaft	274.90	81.28
26 05 26 00-0103 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 10' Horizontal Copper Grounding Shaft	340.03	81.28
26 05 26 00-0104 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 20' Horizontal Copper Grounding Shaft	517.39	81.28
26 05 26 00-0105 Ground Access Wells <small>(26 05 26 00-0093)</small>		
26 05 26 00-0106 Precast Ground Access Wells <small>(26 05 26 00-0105)</small>		
26 05 26 00-0107 EA 8" Diameter x 24" Deep Precast Ground Access Well	261.39	
<small>Note: With cast iron grate.</small>		
26 05 26 00-0108 EA 10" Diameter x 24" Deep Precast Ground Access Well	270.68	
<small>Note: With cast iron grate.</small>		
26 05 26 00-0109 EA 12" Diameter x 24" Deep Precast Ground Access Well	796.78	
<small>Note: With cast iron grate.</small>		
26 05 26 00-0110 EA 18" Diameter x 24" Deep Precast Ground Access Well	806.07	
<small>Note: With cast iron grate.</small>		
26 05 26 00-0111 Polyvinyl Chloride (PVC) Ground Access Well <small>(26 05 26 00-0105)</small>		
26 05 26 00-0112 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well	446.88	
<small>Note: Schedule 40 with cast iron grated cover.</small>		
26 05 26 00-0113 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well	524.76	
<small>Note: Schedule 40 with cast iron grated cover.</small>		
26 05 26 00-0114 EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well	971.94	
<small>Note: Schedule 40 with cast iron grated cover.</small>		
26 05 26 00-0115 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well	427.28	
<small>Note: Schedule 40 with flat steel cover.</small>		
26 05 26 00-0116 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well	500.71	
<small>Note: Schedule 40 with flat steel cover.</small>		
26 05 26 00-0117 EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well	932.24	
<small>Note: Schedule 40 with flat steel cover.</small>		

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0118	EA	8" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	240.52	
26 05 26 00-0119	EA	10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	257.27	
26 05 26 00-0120	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	271.74	
26 05 26 00-0121	EA	8" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	185.68	
26 05 26 00-0122	EA	10" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	273.08	
26 05 26 00-0123	EA	8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with flat steel cover.	479.71	
26 05 26 00-0124	EA	10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with flat steel cover.	636.30	
26 05 26 00-0125	EA	8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with plastic cover.	386.84	
26 05 26 00-0126	EA	10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with plastic cover.	560.40	
26 05 26 00-0127	EA	10" Diameter x 36" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	592.11	
26 05 26 00-0128	EA	10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	721.24	
26 05 26 00-0129	EA	12" Diameter x 12" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	320.67	
26 05 26 00-0130	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	557.92	
26 05 26 00-0131	EA	12" Diameter x 30" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	600.47	
26 05 26 00-0132		Polymer Concrete Ground Access Well <small>(26 05 26 00-0105)</small>		
26 05 26 00-0133	EA	12" x 12" x 12" Polymer Concrete Ground Access Well	501.84	
26 05 26 00-0134	EA	12" x 12" x 12" Heavy Duty Polymer Concrete Ground Access Well	550.91	
26 05 26 00-0135	EA	12" x 12" x 18" Polymer Concrete Ground Access Well	553.23	
26 05 26 00-0136	EA	12" x 12" x 18" Heavy Duty Polymer Concrete Ground Access Well	607.24	
26 05 26 00-0137	EA	12" x 12" x 24" Polymer Concrete Ground Access Well	606.59	
26 05 26 00-0138	EA	12" x 12" x 24" Heavy Duty Polymer Concrete Ground Access Well	666.00	
26 05 26 00-0139	EA	13" x 24" x 18" Polymer Concrete Ground Access Well	810.76	
26 05 26 00-0140	EA	13" x 24" x 18" Heavy Duty Polymer Concrete Ground Access Well	891.82	
26 05 26 00-0141		High Density Polyethylene (HDPE) Ground Access Well <small>(26 05 26 00-0105)</small>		
26 05 26 00-0142	EA	9" Diameter x 10" Deep High Density Polyethylene (HDPE) Ground Access Well Note: With cover.	180.78	
26 05 26 00-0143	EA	14" Diameter x 18" Deep High Density Polyethylene (HDPE) Ground Access Well Note: With cover.	252.53	
26 05 26 00-0144		Clay Tile Ground Access Wells <small>(26 05 26 00-0105)</small>		
26 05 26 00-0145	EA	8" Diameter x 24" Deep Clay Tile Ground Access Well With Concrete Cover	286.09	
26 05 26 00-0146	EA	8" Diameter x 24" Deep Clay Tile Ground Access Well With Cast Iron Grated Cover	301.15	
26 05 26 00-0147	EA	Concrete Cover For 8" Diameter x 24" Deep Clay Tile Ground Access Well	92.19	
26 05 26 00-0148		Ground Rod Clamps And Fittings <small>(26 05 26)</small>		
26 05 26 00-0149		Bronze Ground Rod Clamp <small>(26 05 26 00-0148)</small>		
26 05 26 00-0150	EA	1/2" Bronze Ground Rod Clamp	20.81	12.25
26 05 26 00-0151	EA	5/8" Bronze Ground Rod Clamp	21.63	12.25
26 05 26 00-0152	EA	3/4" Bronze Ground Rod Clamp	22.79	12.25
26 05 26 00-0153		Bronze Pipe Clamps <small>(26 05 26 00-0148)</small>		
26 05 26 00-0154	EA	1/2" To 1" Bronze Pipe Ground Clamps	29.87	20.37
26 05 26 00-0155	EA	1-1/4" To 2" Bronze Ground Clamps For Pipe	38.65	24.38
26 05 26 00-0156	EA	2-1/2" To 3" Bronze Ground Clamps For Pipe	61.00	28.50
26 05 26 00-0157	EA	2-1/2" To 4" Bronze Ground Clamps For Pipe	73.81	36.63
26 05 26 00-0158	EA	4" To 6" Bronze Ground Clamps For Pipe	114.39	52.89
26 05 26 00-0159		Grounding Fittings <small>(26 05 26 00-0148)</small>		
26 05 26 00-0160		Embedded Fittings <small>(26 05 26 00-0159)</small>		
26 05 26 00-0161	EA	Ground Insert With Two 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded	139.99	
26 05 26 00-0162	EA	Ground Insert With Four 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded	147.36	
26 05 26 00-0163	EA	Ground Insert With Four 3/8 x 16 Holes 250 To 500 MCM Cable Range, Embedded	160.42	
26 05 26 00-0164	EA	#8 To 1 AWG, Copper To Aluminum, Grounding Wire Splice	141.86	
26 05 26 00-0165	EA	1/0 To 3/0 AWG, Copper To Aluminum, Grounding Wire Splice	170.03	
26 05 26 00-0166	EA	4/0 To 300 MCM, Copper To Aluminum, Grounding Wire Splice	199.26	
26 05 26 00-0167	EA	350 To 500 MCM, Copper To Aluminum, Grounding Wire Splice	224.13	
26 05 26 00-0168		Ground Rod Receptacle <small>(26 05 26 00-0159)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0169 EA 1/2" Ground Rod Receptacle.....	300.54	112.71
26 05 26 00-0170 EA 5/8" Ground Rod Receptacle.....	313.32	115.89
26 05 26 00-0171 EA 3/4" Ground Rod Receptacle.....	326.44	119.03
26 05 26 00-0172 Ground Kits For Circuit Breaker Panels (26 05 26 00-0159)		
26 05 26 00-0173 EA 14-8 AWG Copper Ground Kit.....	68.05	27.10
26 05 26 00-0174 EA 12-8 AWG Aluminum Ground Kit.....	69.72	27.10
26 05 26 00-0175 EA 14-4 AWG Copper Ground Kit.....	74.24	27.10
26 05 26 00-0176 EA 12-4 AWG Aluminum Ground Kit.....	80.60	27.10
26 05 26 00-0177 Insulated Grounding Bars (26 05 26 00-0148)		
26 05 26 00-0178 EA 1/2" x 4" x 10" Insulated Ground Bar.....	271.50	27.20
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		48.77
26 05 26 00-0179 EA Insulated Ground Bar SK 9560 1/2" x 4" x 20".....	283.46	27.20
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		48.77
26 05 26 00-0180 Ground Conductor Bonding (26 05 26)		
26 05 26 00-0181 Ground Conductor Bonding (26 05 26 00-0180)		
26 05 26 00-0182 Splice, Lug, Ground Rod, Rebar Or Structural Steel Cadweld (26 05 26 00-0181)		
26 05 26 00-0183 EA Up To #6 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	126.78	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
26 05 26 00-0184 EA #4 To #1 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	137.61	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
26 05 26 00-0185 EA 1/0 To 4/0 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	148.45	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
26 05 26 00-0186 EA 250 To 1,000 MCM AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	213.47	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
26 05 26 00-0187 Tee, Wye Or Cross Cadweld (26 05 26 00-0181)		
26 05 26 00-0188 EA Up To #6 AWG Cadweld Connection For Tee, Wye Or Cross.....	143.03	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
26 05 26 00-0189 EA #4 To #1 AWG Cadweld Connection For Tee, Wye Or Cross.....	164.70	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
26 05 26 00-0190 EA 1/0 To 4/0 AWG Cadweld Connection For Tee, Wye Or Cross.....	202.64	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
26 05 26 00-0191 EA 250 To 1,000 MCM AWG Cadweld Connection For Tee, Wye Or Cross.....	245.98	
<i>Note: Includes molds, materials and all necessary tools to make connections.</i>		
26 05 26 00-0192 Grounding Equipment (26 05 26)		
26 05 26 00-0193 Special Grounding Equipment (26 05 26 00-0192)		
26 05 26 00-0194 Ground Reels And Ground Bus (26 05 26 00-0193)		
26 05 26 00-0195 EA Ground Reel With 50' Of Galvanized Steel Cable.....	589.49	
26 05 26 00-0196 Copper Bars (26 05 26 00-0193)		
26 05 26 00-0197 LF 1/4" x 2" Copper Bar.....	34.82	
26 05 26 00-0198 Phenolic Insulators (26 05 26 00-0193)		
26 05 26 00-0199 EA 2" x 2" x 1" Long Phenolic Insulators.....	27.22	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		6.50
26 05 26 00-0200 Grounding Studs (26 05 26 00-0193)		
26 05 26 00-0201 EA Ball Grounding Stud.....	39.61	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		9.71
26 05 26 00-0202 Equipment Ground Bar Kits (26 05 26 00-0193)		
26 05 26 00-0203 EA Switch Rating 30 Ground Bar Kit.....	29.99	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		6.50
26 05 26 00-0204 EA Switch Rating 60 Ground Bar Kit.....	37.54	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		7.15
26 05 26 00-0205 EA Switch Rating 100 Ground Bar Kit.....	43.62	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		8.13
26 05 26 00-0206 EA Switch Rating 200 Ground Bar Kit.....	72.72	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		9.75
26 05 26 00-0207 Panelboard Ground Bar Kits (26 05 26 00-0193)		
26 05 26 00-0208 EA Panelboard Ground Bar Kit.....	101.37	8.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		8.13

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0209 Circuit Breaker Ground Bar Kits (26 05 26 00-0193)					
26 05 26 00-0210	EA		3 Circuit, Ground Bar Kit.....	24.58	4.87
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>4.88</i>	
26 05 26 00-0211	EA		4 Circuit, Ground Bar Kit.....	24.20	4.87
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>4.88</i>	
26 05 26 00-0212	EA		7 Circuit, Ground Bar Kit.....	24.84	4.87
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>4.88</i>	
26 05 26 00-0213	EA		12 Circuit, Ground Bar Kit.....	28.16	5.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>5.53</i>	
26 05 26 00-0214	EA		20 Circuit, Ground Bar Kit.....	31.99	6.18
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>6.18</i>	
26 05 26 00-0215	EA		24 Circuit, Ground Bar Kit.....	35.31	6.83
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>6.83</i>	
26 05 26 00-0216	EA		30 Circuit, Ground Bar Kit.....	39.58	7.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>7.80</i>	
26 05 26 00-0217	EA		54 Circuit, Ground Bar Kit.....	45.85	9.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>9.11</i>	
26 05 26 00-0218	EA		24 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug.....	48.24	6.83
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>6.83</i>	
26 05 26 00-0219	EA		30 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug.....	53.54	7.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>7.80</i>	
26 05 26 00-0220	EA		54 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug.....	59.93	9.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>9.11</i>	
26 05 29 Hangers and Supports for Electrical Systems (26 05)					
26 05 29 00-0001 Metal Framing Channel And Fittings (26 05 29)					
26 05 29 00-0002 Metal Framing Channel (26 05 29 00-0001)					
Note: Excludes fasteners and accessories.					
26 05 29 00-0003 14 Gauge Metal Framing Channels (26 05 29 00-0002)					
26 05 29 00-0004 14 Gauge, Steel Unistrut Channel (26 05 29 00-0003)					
26 05 29 00-0005	EA		Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel.....	19.82	5.94
26 05 29 00-0006	EA		>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel.....	22.81	5.94
26 05 29 00-0007	LF		>2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel.....	10.42	2.24
26 05 29 00-0008 14 Gauge, 304 Stainless Steel Unistrut Channel (26 05 29 00-0003)					
26 05 29 00-0009	EA		Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	33.46	5.94
26 05 29 00-0010	EA		Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	37.06	5.94
26 05 29 00-0011	EA		>1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	50.09	5.94
26 05 29 00-0012	EA		>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	57.28	5.94
26 05 29 00-0013	LF		>2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	24.06	2.24
26 05 29 00-0014	LF		>2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	27.66	2.24
26 05 29 00-0015 14 Gauge, 316 Stainless Steel Unistrut Channel (26 05 29 00-0003)					
26 05 29 00-0016	EA		Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....	48.99	5.94
26 05 29 00-0017	EA		>1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....	81.16	5.94
26 05 29 00-0018	LF		>2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....	39.59	2.24
26 05 29 00-0019 12 Gauge Metal Framing Channels (26 05 29 00-0002)					
26 05 29 00-0020 12 Gauge, Steel Unistrut Channel (26 05 29 00-0019)					
26 05 29 00-0021	EA		Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	21.28	5.94
26 05 29 00-0022	EA		Up To 1' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....	20.78	5.94
26 05 29 00-0023	EA		Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel.....	20.46	5.94
26 05 29 00-0024	EA		>1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	25.72	5.94
26 05 29 00-0025	EA		>1' To 2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....	24.74	5.94
26 05 29 00-0026	EA		>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel.....	24.10	5.94
26 05 29 00-0027	LF		>2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	11.88	2.24
26 05 29 00-0028	LF		>2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....	11.38	2.24
26 05 29 00-0029	LF		>2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel.....	11.06	2.24
26 05 29 00-0030 12 Gauge, 304 Stainless Steel Unistrut Channel (26 05 29 00-0019)					
26 05 29 00-0031	EA		Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	38.25	5.94
26 05 29 00-0032	EA		Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	44.45	5.94
26 05 29 00-0033	EA		>1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	59.67	5.94
26 05 29 00-0034	EA		>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	72.08	5.94
26 05 29 00-0035	LF		>2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	28.85	2.24
26 05 29 00-0036	LF		>2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	35.05	2.24
26 05 29 00-0037 Metal Framing Channel Fittings (26 05 29 00-0001)					



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0038 Unistrut Channel Closure Strips And Caps <small>(26 05 29 00-0037)</small>		
26 05 29 00-0039 Steel Unistrut Channel Closure Strips And Caps <small>(26 05 29 00-0038)</small>		
26 05 29 00-0040 LF Steel Raceway Closure Strip, Unistrut Channel Fittings	6.05	0.54
26 05 29 00-0041 EA Steel End Cap, Unistrut Channel Fittings	12.82	5.43
26 05 29 00-0042 Stainless Steel Unistrut Channel Closure Strips And Caps <small>(26 05 29 00-0038)</small>		
26 05 29 00-0043 EA Stainless Steel End Cap For Unistrut Channel	20.15	5.43
26 05 29 00-0044 Flat Splice Plate, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0045 Steel Flat Splice Plate, Unistrut Channel Fittings <small>(26 05 29 00-0044)</small>		
26 05 29 00-0046 EA 2-Hole, 3-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	6.01	
26 05 29 00-0047 EA 3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	5.97	
26 05 29 00-0048 EA 4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	7.25	
26 05 29 00-0049 Stainless Steel Flat Splice Plate, Unistrut Channel Fittings <small>(26 05 29 00-0044)</small>		
26 05 29 00-0050 EA 2-Hole, 3-1/2" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	17.25	
26 05 29 00-0051 EA 3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	25.69	
26 05 29 00-0052 EA 4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	32.83	
26 05 29 00-0053 90 Degree Angle, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0054 Steel 90 Degree Angle, Unistrut Channel Fittings <small>(26 05 29 00-0053)</small>		
26 05 29 00-0055 EA 2-Hole, 1-7/8" x 2", 90 Degree Angle, Steel, Unistrut Channel Fitting	5.81	
26 05 29 00-0056 EA 2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, Steel, Unistrut Channel Fitting	4.87	
26 05 29 00-0057 EA 3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, Steel, Unistrut Channel Fitting	8.38	
26 05 29 00-0058 EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, Steel, Unistrut Channel Fitting	8.27	
26 05 29 00-0059 Stainless Steel 90 Degree Angle, Unistrut Channel Fittings <small>(26 05 29 00-0053)</small>		
26 05 29 00-0060 EA 2-Hole, 1-7/8" x 2", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	9.85	
26 05 29 00-0061 EA 2-Hole, 1-7/8" x 2", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	12.33	
26 05 29 00-0062 EA 2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting.....	10.45	
26 05 29 00-0063 EA 2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	14.86	
26 05 29 00-0064 EA 3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting.....	13.58	
26 05 29 00-0065 EA 3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	25.10	
26 05 29 00-0066 EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting.....	14.28	
26 05 29 00-0067 EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	20.73	
26 05 29 00-0068 60 Degree Angle, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0069 Steel 60 Degree Angle, Unistrut Channel Fittings <small>(26 05 29 00-0068)</small>		
26 05 29 00-0070 EA 2-Hole, 1-7/8" x 3-3/8", 60 Degree Angle, Steel, Unistrut Channel Fitting	11.97	
26 05 29 00-0071 U-Connector, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0072 Steel, U-Connector, Unistrut Channel Fittings <small>(26 05 29 00-0071)</small>		
26 05 29 00-0073 EA 3-Hole, 1-5/8" x 13/16", U-Connector, Steel, Unistrut Channel Fitting	4.26	
26 05 29 00-0074 EA 5-Hole, 1-5/8" x 1-5/8", U-Connector, Steel, Unistrut Channel Fitting	4.75	
26 05 29 00-0075 Stainless Steel, U-Connector, Unistrut Channel Fittings <small>(26 05 29 00-0071)</small>		
26 05 29 00-0076 EA 5-Hole, 1-5/8" x 1-5/8", U-Connector, 304 Stainless Steel, Unistrut Channel Fitting	20.58	
26 05 29 00-0077 Z-Bracket, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0078 Steel Z-Bracket, Unistrut Channel Fittings <small>(26 05 29 00-0077)</small>		
26 05 29 00-0079 EA 3-Hole, Z-Bracket, Steel, Unistrut Channel Fitting	12.28	
26 05 29 00-0080 Stainless Steel Z-Bracket, Unistrut Channel Fittings <small>(26 05 29 00-0077)</small>		
26 05 29 00-0081 EA 3-Hole, Z-Bracket, 304 Stainless Steel, Unistrut Channel Fitting.....	40.09	
26 05 29 00-0082 Standard Pipe And Rigid Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0037)</small>		
26 05 29 00-0083 Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0082)</small>		
26 05 29 00-0084 EA 1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	4.63	1.63
26 05 29 00-0085 EA 3/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	4.65	1.63
26 05 29 00-0086 EA 1" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	4.76	1.63

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0087 EA 1-1/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	6.00	2.17
26 05 29 00-0088 EA 1-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	6.56	2.17
26 05 29 00-0089 EA 2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	6.62	2.17
26 05 29 00-0090 EA 2-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	8.11	2.71
26 05 29 00-0091 EA 3" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	8.61	2.71
26 05 29 00-0092 EA 3-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.09	2.71
26 05 29 00-0093 EA 4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.26	2.71
26 05 29 00-0094 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0092)</small>		
Note: Includes hex screw and nut.		
26 05 29 00-0095 EA 1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.78	1.63
26 05 29 00-0096 EA 3/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	8.72	1.63
26 05 29 00-0097 EA 1" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.66	1.63
26 05 29 00-0098 EA 1-1/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	11.99	2.17
26 05 29 00-0099 EA 1-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	14.60	2.17
26 05 29 00-0100 EA 2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	15.29	2.17
26 05 29 00-0101 EA 2-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	18.34	2.71
26 05 29 00-0102 EA 3" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	20.67	2.71
26 05 29 00-0103 EA 3-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	21.67	2.71
26 05 29 00-0104 EA 4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	25.36	2.71
26 05 29 00-0105 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0092)</small>		
Note: Includes hex screw and nut.		
26 05 29 00-0106 EA 1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	8.35	1.63
26 05 29 00-0107 EA 3/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.68	1.63
26 05 29 00-0108 EA 1" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	10.06	1.63
26 05 29 00-0109 EA 1-1/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	12.17	2.17
26 05 29 00-0110 EA 1-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	16.75	2.17
26 05 29 00-0111 EA 2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	16.98	2.17
26 05 29 00-0112 EA 2-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	20.11	2.71
26 05 29 00-0113 EA 3" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	21.29	2.71
26 05 29 00-0114 EA 3-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	29.72	2.71
26 05 29 00-0115 EA 4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	34.87	2.71
26 05 29 00-0116 Beam Clamps, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0117 Steel Beam Clamps, Unistrut Channel Fittings <small>(26 05 29 00-0116)</small>		
26 05 29 00-0118 EA Set Screw Beam Clamp, Steel Unistrut Channel Fitting.....	34.30	9.90
26 05 29 00-0119 EA "C" Beam Clamp Use With 1/2" Rod, Steel Unistrut Channel Fittings.....	23.14	9.90
26 05 29 00-0120 EA "U" Bolt Beam Clamp, Steel Unistrut Channel Fitting.....	33.17	9.90
26 05 29 00-0121 304 Stainless Steel Beam Clamps, Unistrut Channel Fittings <small>(26 05 29 00-0116)</small>		
26 05 29 00-0122 EA "U" Bolt Beam Clamp, 304 Stainless Steel Unistrut Channel Fitting.....	47.68	9.90
26 05 29 00-0123 Square Washers For Unistrut Channel <small>(26 05 29 00-0037)</small>		
26 05 29 00-0124 Steel Square Washers For Unistrut Channel <small>(26 05 29 00-0123)</small>		
26 05 29 00-0125 EA 1/2" Bolt Size, Steel, Square Washer For Unistrut Channel.....	4.24	
26 05 29 00-0126 Stainless Steel Square Washers For Unistrut Channel <small>(26 05 29 00-0123)</small>		
26 05 29 00-0127 EA 1/2" Bolt Size, 304 Stainless Steel, Square Washer For Unistrut Channel.....	4.86	
26 05 29 00-0128 EA 1/2" Bolt Size, 316 Stainless Steel, Square Washer For Unistrut Channel.....	6.15	
26 05 29 00-0129 Strut Braces, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0130 EA 16" Diagonal Steel Bar Brace For Unistrut Channel.....	33.65	
26 05 29 00-0131 Trolley Hangers, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0132 EA Steel Trolley Track Hanger For Unistrut Channel.....	41.80	
26 05 29 00-0133 Lock Nuts With Spring For Unistrut Channel <small>(26 05 29 00-0037)</small>		
Note: Includes hex bolt.		
26 05 29 00-0134 Steel Lock Nuts With Spring For Unistrut Channel <small>(26 05 29 00-0133)</small>		
Note: Includes hex bolt.		
26 05 29 00-0135 EA 1/4-20, Steel Lock Nut With Spring For Unistrut Channel.....	7.35	
26 05 29 00-0136 EA 3/8-16, Steel Lock Nut With Spring For Unistrut Channel.....	8.03	
26 05 29 00-0137 EA 1/2-13, Steel Lock Nut With Spring For Unistrut Channel.....	8.54	
26 05 29 00-0138 EA 5/8-11, Steel Lock Nut With Spring For Unistrut Channel.....	11.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0139 Stainless Steel Lock Nuts With Spring For Unistrut Channel <small>(26 05 29 00-0139)</small>		
Note: Includes hex bolt.		
26 05 29 00-0140 EA 1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	14.08	
26 05 29 00-0141 EA 3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	14.95	
26 05 29 00-0142 EA 1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	20.98	
26 05 29 00-0143 EA 5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	35.56	
26 05 29 00-0144 Lock Nuts Without Spring For Unistrut Channel <small>(26 05 29 00-0037)</small>		
Note: Includes hex bolt.		
26 05 29 00-0145 Steel Lock Nuts Without Spring For Unistrut Channel <small>(26 05 29 00-0144)</small>		
Note: Includes hex bolt.		
26 05 29 00-0146 EA 1/4-20, Steel Lock Nut Without Spring For Unistrut Channel.....	7.37	
26 05 29 00-0147 EA 3/8-16, Steel Lock Nut Without Spring For Unistrut Channel.....	8.13	
26 05 29 00-0148 EA 1/2-13, Steel Lock Nut Without Spring For Unistrut Channel.....	8.58	
26 05 29 00-0149 EA 5/8-11, Steel Lock Nut Without Spring For Unistrut Channel.....	12.10	
26 05 29 00-0150 Stainless Steel Lock Nuts Without Spring For Unistrut Channel <small>(26 05 29 00-0144)</small>		
Note: Includes hex bolt.		
26 05 29 00-0151 EA 1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	10.22	
26 05 29 00-0152 EA 3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	12.22	
26 05 29 00-0153 EA 1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	13.28	
26 05 29 00-0154 EA 5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	34.66	
26 05 29 00-0155 Mounting Assemblies <small>(26 05 29)</small>		
26 05 29 00-0156 Galvanized Steel Mounting Assemblies <small>(26 05 29 00-0155)</small>		
26 05 29 00-0157 Galvanized Steel Back Plate <small>(26 05 29 00-0156)</small>		
26 05 29 00-0158 EA 1/4" x 4' x 4', Galvanized Steel Back Plate, Painted	416.48	65.02
26 05 29 00-0159 EA 3/8" x 14" x 16", Galvanized Steel Back Plate, Painted	104.04	21.67
26 05 29 00-0160 EA 3/16" x 30" x 48", Galvanized Steel Back Plate, Painted	263.27	54.18
26 05 29 00-0161 Aluminum Mounting Assemblies <small>(26 05 29 00-0155)</small>		
26 05 29 00-0162 Aluminum Back Plate <small>(26 05 29 00-0161)</small>		
26 05 29 00-0163 EA 3/16" x 2' x 2' Aluminum Back Plate.....	318.27	81.28
26 05 29 00-0164 EA 3/16" x 4' x 4' Aluminum Back Plate.....	847.69	81.28
26 05 29 00-0165 Supports <small>(26 05 29)</small>		
26 05 29 00-0166 One Hole Steel Conduit Straps <small>(26 05 29 00-0165)</small>		
26 05 29 00-0167 EA 1/2", One Hole Steel Conduit Strap	3.97	
For Work In Restricted Working Space, Add		
For Installation On Concrete (Includes Drilling And Fastener), Add		
For >50 To 100, Deduct		
For >100 To 250, Deduct		
For >250 To 500, Deduct		
For >500, Deduct		
26 05 29 00-0168 EA 3/4", One Hole Steel Conduit Strap	4.02	
For Work In Restricted Working Space, Add		
For Installation On Concrete (Includes Drilling And Fastener), Add		
For >50 To 100, Deduct		
For >100 To 250, Deduct		
For >250 To 500, Deduct		
For >500, Deduct		
26 05 29 00-0169 EA 1", One Hole Steel Conduit Strap	4.26	
For Work In Restricted Working Space, Add		
For Installation On Concrete (Includes Drilling And Fastener), Add		
For >50 To 100, Deduct		
For >100 To 250, Deduct		
For >250 To 500, Deduct		
For >500, Deduct		
26 05 29 00-0170 EA 1-1/4", One Hole Steel Conduit Strap	4.44	
For Work In Restricted Working Space, Add		
For Installation On Concrete (Includes Drilling And Fastener), Add		
For >50 To 100, Deduct		
For >100 To 250, Deduct		
For >250 To 500, Deduct		
For >500, Deduct		
26 05 29 00-0171 EA 1-1/2", One Hole Steel Conduit Strap	4.56	
For Work In Restricted Working Space, Add		
For Installation On Concrete (Includes Drilling And Fastener), Add		
For >50 To 100, Deduct		
For >100 To 250, Deduct		
For >250 To 500, Deduct		
For >500, Deduct		

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26 05 Common Work Results for Electrical

26 05 29 Hangers and Supports for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0172	EA		2", One Hole Steel Conduit Strap .....5.28		
			<i>For Work In Restricted Working Space, Add</i>	1.04	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.97	
			<i>For >50 To 100, Deduct</i>	-0.22	
			<i>For >100 To 250, Deduct</i>	-0.44	
			<i>For >250 To 500, Deduct</i>	-0.83	
			<i>For >500, Deduct</i>	-1.22	
26 05 29 00-0173	EA		2-1/2", One Hole Steel Conduit Strap .....6.03		
			<i>For Work In Restricted Working Space, Add</i>	1.04	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.97	
			<i>For >50 To 100, Deduct</i>	-0.24	
			<i>For >100 To 250, Deduct</i>	-0.48	
			<i>For >250 To 500, Deduct</i>	-0.89	
			<i>For >500, Deduct</i>	-1.30	
26 05 29 00-0174	EA		3", One Hole Steel Conduit Strap .....6.28		
			<i>For Work In Restricted Working Space, Add</i>	1.04	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.97	
			<i>For >50 To 100, Deduct</i>	-0.24	
			<i>For >100 To 250, Deduct</i>	-0.49	
			<i>For >250 To 500, Deduct</i>	-0.90	
			<i>For >500, Deduct</i>	-1.32	
26 05 29 00-0175	EA		3-1/2", One Hole Steel Conduit Strap .....7.50		
			<i>For Work In Restricted Working Space, Add</i>	1.04	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.97	
			<i>For >50 To 100, Deduct</i>	-0.27	
			<i>For >100 To 250, Deduct</i>	-0.55	
			<i>For >250 To 500, Deduct</i>	-1.00	
			<i>For >500, Deduct</i>	-1.44	
26 05 29 00-0176	EA		4", One Hole Steel Conduit Strap .....8.48		
			<i>For Work In Restricted Working Space, Add</i>	1.04	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.97	
			<i>For >50 To 100, Deduct</i>	-0.30	
			<i>For >100 To 250, Deduct</i>	-0.60	
			<i>For >250 To 500, Deduct</i>	-1.07	
			<i>For >500, Deduct</i>	-1.54	
26 05 29 00-0177 One Hole Iron Conduit Straps (26 05 29 00-0165)					
26 05 29 00-0178	EA		1/2", One Hole Iron Conduit Strap .....4.09		
			<i>For Work In Restricted Working Space, Add</i>	1.04	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.97	
			<i>For >50 To 100, Deduct</i>	-0.19	
			<i>For >100 To 250, Deduct</i>	-0.38	
			<i>For >250 To 500, Deduct</i>	-0.74	
			<i>For >500, Deduct</i>	-1.10	
26 05 29 00-0179	EA		3/4", One Hole Iron Conduit Strap .....4.21		
			<i>For Work In Restricted Working Space, Add</i>	1.04	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.97	
			<i>For >50 To 100, Deduct</i>	-0.19	
			<i>For >100 To 250, Deduct</i>	-0.38	
			<i>For >250 To 500, Deduct</i>	-0.75	
			<i>For >500, Deduct</i>	-1.12	
26 05 29 00-0180	EA		1", One Hole Iron Conduit Strap .....4.42		
			<i>For Work In Restricted Working Space, Add</i>	1.04	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.97	
			<i>For >50 To 100, Deduct</i>	-0.20	
			<i>For >100 To 250, Deduct</i>	-0.39	
			<i>For >250 To 500, Deduct</i>	-0.77	
			<i>For >500, Deduct</i>	-1.14	
26 05 29 00-0181	EA		1-1/4", One Hole Iron Conduit Strap .....4.93		
			<i>For Work In Restricted Working Space, Add</i>	1.04	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.97	
			<i>For >50 To 100, Deduct</i>	-0.21	
			<i>For >100 To 250, Deduct</i>	-0.42	
			<i>For >250 To 500, Deduct</i>	-0.80	
			<i>For >500, Deduct</i>	-1.19	
26 05 29 00-0182	EA		1-1/2", One Hole Iron Conduit Strap .....5.13		
			<i>For Work In Restricted Working Space, Add</i>	1.04	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.97	
			<i>For >50 To 100, Deduct</i>	-0.22	
			<i>For >100 To 250, Deduct</i>	-0.43	
			<i>For >250 To 500, Deduct</i>	-0.82	
			<i>For >500, Deduct</i>	-1.21	
26 05 29 00-0183	EA		2", One Hole Iron Conduit Strap .....6.42		
			<i>For Work In Restricted Working Space, Add</i>	1.04	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.97	
			<i>For >50 To 100, Deduct</i>	-0.25	
			<i>For >100 To 250, Deduct</i>	-0.49	
			<i>For >250 To 500, Deduct</i>	-0.92	
			<i>For >500, Deduct</i>	-1.34	
26 05 29 00-0184	EA		2-1/2", One Hole Iron Conduit Strap .....9.19		
			<i>For Work In Restricted Working Space, Add</i>	1.04	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.97	
			<i>For >50 To 100, Deduct</i>	-0.32	
			<i>For >100 To 250, Deduct</i>	-0.63	
			<i>For >250 To 500, Deduct</i>	-1.12	
			<i>For >500, Deduct</i>	-1.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0185 EA 3", One Hole Iron Conduit Strap	11.51	
For Work In Restricted Working Space, Add	1.04	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.97	
For >50 To 100, Deduct	-0.37	
For >100 To 250, Deduct	-0.75	
For >250 To 500, Deduct	-1.30	
For >500, Deduct	-1.85	
26 05 29 00-0186 EA 3-1/2", One Hole Iron Conduit Strap	14.89	
For Work In Restricted Working Space, Add	1.04	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.97	
For >50 To 100, Deduct	-0.46	
For >100 To 250, Deduct	-0.92	
For >250 To 500, Deduct	-1.55	
For >500, Deduct	-2.18	
26 05 29 00-0187 EA 4", One Hole Iron Conduit Strap	28.42	
For Work In Restricted Working Space, Add	1.04	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.97	
For >50 To 100, Deduct	-0.80	
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-2.57	
For >500, Deduct	-3.54	
26 05 29 00-0188 EA 5", One Hole Iron Conduit Strap	35.69	
For Work In Restricted Working Space, Add	1.04	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.97	
For >50 To 100, Deduct	-0.98	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-3.11	
For >500, Deduct	-4.26	
26 05 29 00-0189 Two Hole Steel Conduit Straps (26 05 29 00-0165)		
26 05 29 00-0190 EA 1/2", Two Hole Steel Conduit Strap	4.61	
For Work In Restricted Working Space, Add	1.17	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
For >50 To 100, Deduct	-0.21	
For >100 To 250, Deduct	-0.43	
For >250 To 500, Deduct	-0.83	
For >500, Deduct	-1.24	
26 05 29 00-0191 EA 3/4", Two Hole Steel Conduit Strap	4.69	
For Work In Restricted Working Space, Add	1.17	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
For >50 To 100, Deduct	-0.21	
For >100 To 250, Deduct	-0.43	
For >250 To 500, Deduct	-0.84	
For >500, Deduct	-1.25	
26 05 29 00-0192 EA 1", Two Hole Steel Conduit Strap	4.73	
For Work In Restricted Working Space, Add	1.17	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.43	
For >250 To 500, Deduct	-0.84	
For >500, Deduct	-1.25	
26 05 29 00-0193 EA 1-1/4", Two Hole Steel Conduit Strap	4.79	
For Work In Restricted Working Space, Add	1.17	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.43	
For >250 To 500, Deduct	-0.85	
For >500, Deduct	-1.26	
26 05 29 00-0194 EA 1-1/2", Two Hole Steel Conduit Strap	4.83	
For Work In Restricted Working Space, Add	1.17	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.85	
For >500, Deduct	-1.26	
26 05 29 00-0195 EA 2", Two Hole Steel Conduit Strap	4.93	
For Work In Restricted Working Space, Add	1.17	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.86	
For >500, Deduct	-1.27	
26 05 29 00-0196 EA 2-1/2", Two Hole Steel Conduit Strap	5.49	
For Work In Restricted Working Space, Add	1.17	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
For >50 To 100, Deduct	-0.23	
For >100 To 250, Deduct	-0.47	
For >250 To 500, Deduct	-0.90	
For >500, Deduct	-1.33	
26 05 29 00-0197 EA 3", Two Hole Steel Conduit Strap	5.61	
For Work In Restricted Working Space, Add	1.17	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.18	
For >50 To 100, Deduct	-0.24	
For >100 To 250, Deduct	-0.48	
For >250 To 500, Deduct	-0.91	
For >500, Deduct	-1.34	

26 Electrical

26 05 Common Work Results for Electrical

26 05 29 Hangers and Supports for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0198	EA		3-1/2", Two Hole Steel Conduit Strap .....6.05		
			<i>For Work In Restricted Working Space, Add</i>	1.17	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.18	
			<i>For >50 To 100, Deduct</i>	-0.25	
			<i>For >100 To 250, Deduct</i>	-0.50	
			<i>For >250 To 500, Deduct</i>	-0.94	
			<i>For >500, Deduct</i>	-1.39	
26 05 29 00-0199	EA		4", Two Hole Steel Conduit Strap .....6.35		
			<i>For Work In Restricted Working Space, Add</i>	1.17	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.18	
			<i>For >50 To 100, Deduct</i>	-0.26	
			<i>For >100 To 250, Deduct</i>	-0.51	
			<i>For >250 To 500, Deduct</i>	-0.96	
			<i>For >500, Deduct</i>	-1.42	
26 05 29 00-0200	EA		5", Two Hole Steel Conduit Strap .....6.74		
			<i>For Work In Restricted Working Space, Add</i>	1.17	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.18	
			<i>For >50 To 100, Deduct</i>	-0.27	
			<i>For >100 To 250, Deduct</i>	-0.53	
			<i>For >250 To 500, Deduct</i>	-0.99	
			<i>For >500, Deduct</i>	-1.45	
26 05 29 00-0201			Clamp Back Spacers <small>(26 05 29 00-0165)</small>		
26 05 29 00-0202	EA		1/2" Conduit, Clamp Back Spacer .....3.65		
			<i>For Work In Restricted Working Space, Add</i>	0.81	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.78	
			<i>For >50 To 100, Deduct</i>	-0.16	
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.61	
			<i>For >500, Deduct</i>	-0.91	
26 05 29 00-0203	EA		3/4" Conduit, Clamp Back Spacer .....3.94		
			<i>For Work In Restricted Working Space, Add</i>	0.81	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.78	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100 To 250, Deduct</i>	-0.33	
			<i>For >250 To 500, Deduct</i>	-0.63	
			<i>For >500, Deduct</i>	-0.94	
26 05 29 00-0204	EA		1" Conduit, Clamp Back Spacer .....4.22		
			<i>For Work In Restricted Working Space, Add</i>	0.81	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.78	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.66	
			<i>For >500, Deduct</i>	-0.96	
26 05 29 00-0205	EA		1-1/4" Conduit, Clamp Back Spacer .....5.31		
			<i>For Work In Restricted Working Space, Add</i>	0.81	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.78	
			<i>For >50 To 100, Deduct</i>	-0.20	
			<i>For >100 To 250, Deduct</i>	-0.40	
			<i>For >250 To 500, Deduct</i>	-0.74	
			<i>For >500, Deduct</i>	-1.07	
26 05 29 00-0206	EA		1-1/2" Conduit, Clamp Back Spacer .....6.18		
			<i>For Work In Restricted Working Space, Add</i>	0.81	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.78	
			<i>For >50 To 100, Deduct</i>	-0.22	
			<i>For >100 To 250, Deduct</i>	-0.44	
			<i>For >250 To 500, Deduct</i>	-0.80	
			<i>For >500, Deduct</i>	-1.16	
26 05 29 00-0207	EA		2" Conduit, Clamp Back Spacer .....7.10		
			<i>For Work In Restricted Working Space, Add</i>	0.81	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.78	
			<i>For >50 To 100, Deduct</i>	-0.25	
			<i>For >100 To 250, Deduct</i>	-0.49	
			<i>For >250 To 500, Deduct</i>	-0.87	
			<i>For >500, Deduct</i>	-1.25	
26 05 29 00-0208	EA		2-1/2" Conduit, Clamp Back Spacer .....10.82		
			<i>For Work In Restricted Working Space, Add</i>	0.81	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.78	
			<i>For >50 To 100, Deduct</i>	-0.34	
			<i>For >100 To 250, Deduct</i>	-0.68	
			<i>For >250 To 500, Deduct</i>	-1.15	
			<i>For >500, Deduct</i>	-1.62	
26 05 29 00-0209	EA		3" Conduit, Clamp Back Spacer .....15.28		
			<i>For Work In Restricted Working Space, Add</i>	0.81	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.78	
			<i>For >50 To 100, Deduct</i>	-0.45	
			<i>For >100 To 250, Deduct</i>	-0.90	
			<i>For >250 To 500, Deduct</i>	-1.48	
			<i>For >500, Deduct</i>	-2.07	
26 05 29 00-0210	EA		3-1/2" Conduit, Clamp Back Spacer .....19.60		
			<i>For Work In Restricted Working Space, Add</i>	0.81	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.78	
			<i>For >50 To 100, Deduct</i>	-0.56	
			<i>For >100 To 250, Deduct</i>	-1.12	
			<i>For >250 To 500, Deduct</i>	-1.81	
			<i>For >500, Deduct</i>	-2.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0211 EA 4" Conduit, Clamp Back Spacer.....	39.90	
<i>For Work In Restricted Working Space, Add</i>	0.81	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.78	
<i>For >50 To 100, Deduct</i>	-1.07	
<i>For >100 To 250, Deduct</i>	-2.13	
<i>For >250 To 500, Deduct</i>	-3.33	
<i>For >500, Deduct</i>	-4.53	
26 05 29 00-0212 EA 5" Conduit, Clamp Back Spacer.....	74.17	
<i>For Work In Restricted Working Space, Add</i>	0.81	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.78	
<i>For >50 To 100, Deduct</i>	-1.92	
<i>For >100 To 250, Deduct</i>	-3.84	
<i>For >250 To 500, Deduct</i>	-5.90	
<i>For >500, Deduct</i>	-7.96	
26 05 29 00-0213 Conduit Clips <small>(26 05 29 00-0165)</small>		
Note: Push in or clip.		
26 05 29 00-0214 EA 1/2" Conduit Clip.....	4.55	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.97	
<i>For >50 To 100, Deduct</i>	-0.20	
<i>For >100 To 250, Deduct</i>	-0.40	
<i>For >250 To 500, Deduct</i>	-0.78	
<i>For >500, Deduct</i>	-1.15	
26 05 29 00-0215 EA 3/4" Conduit Clip.....	4.55	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.97	
<i>For >50 To 100, Deduct</i>	-0.20	
<i>For >100 To 250, Deduct</i>	-0.40	
<i>For >250 To 500, Deduct</i>	-0.78	
<i>For >500, Deduct</i>	-1.15	
26 05 29 00-0216 EA 1" Conduit Clip.....	4.46	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.97	
<i>For >50 To 100, Deduct</i>	-0.20	
<i>For >100 To 250, Deduct</i>	-0.40	
<i>For >250 To 500, Deduct</i>	-0.77	
<i>For >500, Deduct</i>	-1.14	
26 05 29 00-0217 EA 1-1/4" Conduit Clip.....	4.67	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.97	
<i>For >50 To 100, Deduct</i>	-0.20	
<i>For >100 To 250, Deduct</i>	-0.41	
<i>For >250 To 500, Deduct</i>	-0.78	
<i>For >500, Deduct</i>	-1.16	
26 05 29 00-0218 Bolt And Nut Conduit Clips <small>(26 05 29 00-0165)</small>		
26 05 29 00-0219 EA 3/4" Bolt And Nut Conduit Clip (Minerallac 1B).....	5.64	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.18	
<i>For >50 To 100, Deduct</i>	-0.25	
<i>For >100 To 250, Deduct</i>	-0.50	
<i>For >250 To 500, Deduct</i>	-0.96	
<i>For >500, Deduct</i>	-1.43	
26 05 29 00-0220 EA 1" Bolt And Nut Conduit Clip (Minerallac 2B).....	5.85	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.18	
<i>For >50 To 100, Deduct</i>	-0.25	
<i>For >100 To 250, Deduct</i>	-0.51	
<i>For >250 To 500, Deduct</i>	-0.98	
<i>For >500, Deduct</i>	-1.45	
26 05 29 00-0221 EA 1-1/4" Bolt And Nut Conduit Clip (Minerallac 2-1/2B).....	6.23	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.25	
<i>For >50 To 100, Deduct</i>	-0.27	
<i>For >100 To 250, Deduct</i>	-0.54	
<i>For >250 To 500, Deduct</i>	-1.04	
<i>For >500, Deduct</i>	-1.54	
26 05 29 00-0222 EA 1-1/2" Bolt And Nut Conduit Clip (Minerallac 3B).....	6.35	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.25	
<i>For >50 To 100, Deduct</i>	-0.27	
<i>For >100 To 250, Deduct</i>	-0.55	
<i>For >250 To 500, Deduct</i>	-1.05	
<i>For >500, Deduct</i>	-1.56	
26 05 29 00-0223 EA 2" Bolt And Nut Conduit Clip (Minerallac 5B).....	7.15	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.25	
<i>For >50 To 100, Deduct</i>	-0.29	
<i>For >100 To 250, Deduct</i>	-0.59	
<i>For >250 To 500, Deduct</i>	-1.11	
<i>For >500, Deduct</i>	-1.64	
26 05 29 00-0224 EA 2-1/2" Bolt And Nut Conduit Clip (Minerallac 6B).....	7.76	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.32	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100 To 250, Deduct</i>	-0.63	
<i>For >250 To 500, Deduct</i>	-1.19	
<i>For >500, Deduct</i>	-1.75	

26 Electrical

26 05 Common Work Results for Electrical

26 05 29 Hangers and Supports for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0225	EA		3" Bolt And Nut Conduit Clip (Minerallac 7B).....	8.46	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.32	
			<i>For >50 To 100, Deduct</i>	-0.33	
			<i>For >100 To 250, Deduct</i>	-0.67	
			<i>For >250 To 500, Deduct</i>	-1.24	
			<i>For >500, Deduct</i>	-1.82	
26 05 29 00-0226	EA		4" Bolt And Nut Conduit Clip (Minerallac 9B).....	15.68	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.46	
			<i>For >50 To 100, Deduct</i>	-0.53	
			<i>For >100 To 250, Deduct</i>	-1.06	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.65	
26 05 29 00-0227			Conduit Hanger From Flange, Wire Or Rod (26 05 29 00-0165)		
			Note: Bat wing.		
26 05 29 00-0228	EA		1/2", Conduit Hanger From Flange, Wire Or Rod.....	3.27	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.75	
			<i>For >50 To 100, Deduct</i>	-0.15	
			<i>For >100 To 250, Deduct</i>	-0.29	
			<i>For >250 To 500, Deduct</i>	-0.57	
			<i>For >500, Deduct</i>	-0.85	
26 05 29 00-0229	EA		3/4", Conduit Hanger From Flange, Wire Or Rod.....	3.33	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.75	
			<i>For >50 To 100, Deduct</i>	-0.15	
			<i>For >100 To 250, Deduct</i>	-0.30	
			<i>For >250 To 500, Deduct</i>	-0.57	
			<i>For >500, Deduct</i>	-0.85	
26 05 29 00-0230	EA		1", Conduit Hanger From Flange, Wire Or Rod.....	3.49	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.75	
			<i>For >50 To 100, Deduct</i>	-0.15	
			<i>For >100 To 250, Deduct</i>	-0.30	
			<i>For >250 To 500, Deduct</i>	-0.59	
			<i>For >500, Deduct</i>	-0.87	
26 05 29 00-0231	EA		1-1/4", Conduit Hanger From Flange, Wire Or Rod.....	3.89	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.75	
			<i>For >50 To 100, Deduct</i>	-0.16	
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.62	
			<i>For >500, Deduct</i>	-0.91	
26 05 29 00-0232			Beam Flange Clamps (26 05 29 00-0165)		
			Note: For threaded rod, nut not required.		
26 05 29 00-0233	EA		1/8" To 1/4" Flange Thickness, Beam Clamp (Caddy 6TA24).....	4.95	
			<i>For >50 To 100, Deduct</i>	-0.19	
			<i>For >100 To 250, Deduct</i>	-0.38	
			<i>For >250 To 500, Deduct</i>	-0.71	
			<i>For >500, Deduct</i>	-1.04	
26 05 29 00-0234	EA		5/16" To 1/2" Flange Thickness, Beam Clamp (Caddy 6TA58).....	4.84	
			<i>For >50 To 100, Deduct</i>	-0.19	
			<i>For >100 To 250, Deduct</i>	-0.38	
			<i>For >250 To 500, Deduct</i>	-0.70	
			<i>For >500, Deduct</i>	-1.03	
26 05 29 00-0235	EA		9/16" To 3/4" Flange Thickness, Beam Clamp (Caddy 6TA912).....	5.46	
			<i>For >50 To 100, Deduct</i>	-0.20	
			<i>For >100 To 250, Deduct</i>	-0.41	
			<i>For >250 To 500, Deduct</i>	-0.75	
			<i>For >500, Deduct</i>	-1.09	
26 05 29 00-0236			T-Bar Support Clips (26 05 29 00-0165)		
26 05 29 00-0237	EA		9/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS95).....	8.13	
			<i>For >50 To 100, Deduct</i>	-0.34	
			<i>For >100 To 250, Deduct</i>	-0.68	
			<i>For >250 To 500, Deduct</i>	-1.29	
			<i>For >500, Deduct</i>	-1.90	
26 05 29 00-0238	EA		15/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS).....	7.65	
			<i>For >50 To 100, Deduct</i>	-0.33	
			<i>For >100 To 250, Deduct</i>	-0.65	
			<i>For >250 To 500, Deduct</i>	-1.25	
			<i>For >500, Deduct</i>	-1.85	
26 05 29 00-0239	EA		15/16 Grid Size, Twist On T-Bar Support Clip (Caddy 4G16).....	3.01	
			<i>For >50 To 100, Deduct</i>	-0.11	
			<i>For >100 To 250, Deduct</i>	-0.22	
			<i>For >250 To 500, Deduct</i>	-0.39	
			<i>For >500, Deduct</i>	-0.57	
26 05 29 00-0240	EA		24" Long Snap On T-Bar Electrical Box Hanger (Caddy 512).....	26.07	
			<i>For >50 To 100, Deduct</i>	-0.71	
			<i>For >100 To 250, Deduct</i>	-1.41	
			<i>For >250 To 500, Deduct</i>	-2.23	
			<i>For >500, Deduct</i>	-3.04	
26 05 29 00-0241			Switch And Outlet Box Type Supports (26 05 29 00-0165)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0242 EA 1/4" To 3/4" Drywall Thickness, Adjustable Switch And Outlet Box Support (Caddy MFS)	6.25	
<i>For >50 To 100, Deduct</i>	-0.21	
<i>For >100 To 250, Deduct</i>	-0.42	
<i>For >250 To 500, Deduct</i>	-0.74	
<i>For >500, Deduct</i>	-1.06	
26 05 29 00-0243 EA 1/2" Drywall Thickness, Riveted Switch And Outlet Box Support (Caddy MF500).....	5.25	
<i>For >50 To 100, Deduct</i>	-0.19	
<i>For >100 To 250, Deduct</i>	-0.37	
<i>For >250 To 500, Deduct</i>	-0.67	
<i>For >500, Deduct</i>	-0.96	
26 05 29 00-0244 EA Flush, Riveted Switch And Outlet Box Support (Caddy MFO)	6.11	
<i>For >50 To 100, Deduct</i>	-0.21	
<i>For >100 To 250, Deduct</i>	-0.41	
<i>For >250 To 500, Deduct</i>	-0.73	
<i>For >500, Deduct</i>	-1.05	
26 05 29 00-0245 EA Snap On, Switch And Outlet Box Support (Caddy MSF)	3.81	
<i>For >50 To 100, Deduct</i>	-0.15	
<i>For >100 To 250, Deduct</i>	-0.30	
<i>For >250 To 500, Deduct</i>	-0.56	
<i>For >500, Deduct</i>	-0.82	
26 05 29 00-0246 EA 1/4-20 Thread Impression, Switch And Outlet Box Support (Caddy MFI).....	4.00	
<i>For >50 To 100, Deduct</i>	-0.15	
<i>For >100 To 250, Deduct</i>	-0.31	
<i>For >250 To 500, Deduct</i>	-0.57	
<i>For >500, Deduct</i>	-0.83	
26 05 29 00-0247 Lighting Fixture Hanger <small>(26 05 29 00-0165)</small>		
Note: For existing or owner furnished fixtures.		
26 05 29 00-0248 EA Lay-In/Troffer, Straight Lip Type Fixture Support Clip (Caddy 515).....	5.31	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.48	
<i>For >250 To 500, Deduct</i>	-0.94	
<i>For >500, Deduct</i>	-1.40	
26 05 29 00-0249 PR Support Bars For Recessed "High Hat" Light Fixtures (Caddy 517).....	20.23	
<i>For >50 To 100, Deduct</i>	-0.61	
<i>For >100 To 250, Deduct</i>	-1.23	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.89	
26 05 29 00-0250 PR Support Bars For Recessed "Lightolier" Light Fixtures (Caddy 520)	28.07	
<i>For >50 To 100, Deduct</i>	-0.81	
<i>For >100 To 250, Deduct</i>	-1.62	
<i>For >250 To 500, Deduct</i>	-2.65	
<i>For >500, Deduct</i>	-3.67	
26 05 29 00-0251 Rigid Steel Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0165)</small>		
26 05 29 00-0252 EA 1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	4.63	
<i>For >50 To 100, Deduct</i>	-0.20	
<i>For >100 To 250, Deduct</i>	-0.39	
<i>For >250 To 500, Deduct</i>	-0.75	
<i>For >500, Deduct</i>	-1.11	
<i>For Work In Restricted Working Space, Add</i>	0.98	
26 05 29 00-0253 EA 3/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	4.65	
<i>For >50 To 100, Deduct</i>	-0.20	
<i>For >100 To 250, Deduct</i>	-0.40	
<i>For >250 To 500, Deduct</i>	-0.76	
<i>For >500, Deduct</i>	-1.12	
<i>For Work In Restricted Working Space, Add</i>	0.98	
26 05 29 00-0254 EA 1" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	4.76	
<i>For >50 To 100, Deduct</i>	-0.20	
<i>For >100 To 250, Deduct</i>	-0.40	
<i>For >250 To 500, Deduct</i>	-0.76	
<i>For >500, Deduct</i>	-1.13	
<i>For Work In Restricted Working Space, Add</i>	0.98	
26 05 29 00-0255 EA 1-1/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	5.99	
<i>For >50 To 100, Deduct</i>	-0.26	
<i>For >100 To 250, Deduct</i>	-0.52	
<i>For >250 To 500, Deduct</i>	-0.99	
<i>For >500, Deduct</i>	-1.47	
<i>For Work In Restricted Working Space, Add</i>	1.30	
26 05 29 00-0256 EA 1-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	6.55	
<i>For >50 To 100, Deduct</i>	-0.27	
<i>For >100 To 250, Deduct</i>	-0.54	
<i>For >250 To 500, Deduct</i>	-1.03	
<i>For >500, Deduct</i>	-1.52	
<i>For Work In Restricted Working Space, Add</i>	1.30	
26 05 29 00-0257 EA 2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	6.61	
<i>For >50 To 100, Deduct</i>	-0.27	
<i>For >100 To 250, Deduct</i>	-0.55	
<i>For >250 To 500, Deduct</i>	-1.04	
<i>For >500, Deduct</i>	-1.53	
<i>For Work In Restricted Working Space, Add</i>	1.30	

26 Electrical

26 05 Common Work Results for Electrical

26 05 29 Hangers and Supports for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0258	EA		2-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	8.10	
			<i>For >50 To 100, Deduct</i>	-0.34	
			<i>For >100 To 250, Deduct</i>	-0.68	
			<i>For >250 To 500, Deduct</i>	-1.29	
			<i>For >500, Deduct</i>	-1.89	
			<i>For Work In Restricted Working Space, Add</i>	1.63	
26 05 29 00-0259	EA		3" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	8.60	
			<i>For >50 To 100, Deduct</i>	-0.35	
			<i>For >100 To 250, Deduct</i>	-0.70	
			<i>For >250 To 500, Deduct</i>	-1.32	
			<i>For >500, Deduct</i>	-1.94	
			<i>For Work In Restricted Working Space, Add</i>	1.63	
26 05 29 00-0260	EA		3-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	9.08	
			<i>For >50 To 100, Deduct</i>	-0.36	
			<i>For >100 To 250, Deduct</i>	-0.73	
			<i>For >250 To 500, Deduct</i>	-1.36	
			<i>For >500, Deduct</i>	-1.99	
			<i>For Work In Restricted Working Space, Add</i>	1.63	
26 05 29 00-0261	EA		4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	9.25	
			<i>For >50 To 100, Deduct</i>	-0.37	
			<i>For >100 To 250, Deduct</i>	-0.73	
			<i>For >250 To 500, Deduct</i>	-1.37	
			<i>For >500, Deduct</i>	-2.01	
			<i>For Work In Restricted Working Space, Add</i>	1.63	
26 05 29 00-0262			Electrical Metallic Tubing (EMT) Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0165)</small>		
26 05 29 00-0263	EA		1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	5.00	
			<i>For >50 To 100, Deduct</i>	-0.21	
			<i>For >100 To 250, Deduct</i>	-0.41	
			<i>For >250 To 500, Deduct</i>	-0.78	
			<i>For >500, Deduct</i>	-1.15	
			<i>For Work In Restricted Working Space, Add</i>	0.98	
26 05 29 00-0264	EA		3/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	4.95	
			<i>For >50 To 100, Deduct</i>	-0.21	
			<i>For >100 To 250, Deduct</i>	-0.41	
			<i>For >250 To 500, Deduct</i>	-0.78	
			<i>For >500, Deduct</i>	-1.15	
			<i>For Work In Restricted Working Space, Add</i>	0.98	
26 05 29 00-0265	EA		1" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	4.90	
			<i>For >50 To 100, Deduct</i>	-0.20	
			<i>For >100 To 250, Deduct</i>	-0.41	
			<i>For >250 To 500, Deduct</i>	-0.77	
			<i>For >500, Deduct</i>	-1.14	
			<i>For Work In Restricted Working Space, Add</i>	0.98	
26 05 29 00-0266	EA		1-1/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	6.44	
			<i>For >50 To 100, Deduct</i>	-0.27	
			<i>For >100 To 250, Deduct</i>	-0.54	
			<i>For >250 To 500, Deduct</i>	-1.02	
			<i>For >500, Deduct</i>	-1.51	
			<i>For Work In Restricted Working Space, Add</i>	1.30	
26 05 29 00-0267	EA		1-1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	7.42	
			<i>For >50 To 100, Deduct</i>	-0.29	
			<i>For >100 To 250, Deduct</i>	-0.59	
			<i>For >250 To 500, Deduct</i>	-1.10	
			<i>For >500, Deduct</i>	-1.61	
			<i>For Work In Restricted Working Space, Add</i>	1.30	
26 05 29 00-0268	EA		2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	7.47	
			<i>For >50 To 100, Deduct</i>	-0.30	
			<i>For >100 To 250, Deduct</i>	-0.59	
			<i>For >250 To 500, Deduct</i>	-1.10	
			<i>For >500, Deduct</i>	-1.61	
			<i>For Work In Restricted Working Space, Add</i>	1.30	
26 05 29 00-0269			"J" Type Conduit Hangers <small>(26 05 29 00-0165)</small>		
26 05 29 00-0270	EA		1/2", "J" Type Conduit Hanger (Unistrut J1205)	24.05	
			<i>For >50 To 100, Deduct</i>	-0.79	
			<i>For >100 To 250, Deduct</i>	-1.58	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500, Deduct</i>	-3.92	
			<i>For Work In Restricted Working Space, Add</i>	2.28	
26 05 29 00-0271	EA		3/4", "J" Type Conduit Hanger (Unistrut J1207)	24.33	
			<i>For >50 To 100, Deduct</i>	-0.80	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.77	
			<i>For >500, Deduct</i>	-3.95	
			<i>For Work In Restricted Working Space, Add</i>	2.28	
26 05 29 00-0272	EA		1", "J" Type Conduit Hanger (Unistrut J1210)	25.68	
			<i>For >50 To 100, Deduct</i>	-0.86	
			<i>For >100 To 250, Deduct</i>	-1.72	
			<i>For >250 To 500, Deduct</i>	-3.01	
			<i>For >500, Deduct</i>	-4.30	
			<i>For Work In Restricted Working Space, Add</i>	2.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0273 EA 1-1/4", "J" Type Conduit Hanger (Unistrut J1212).....	25.99	
<i>For >50 To 100, Deduct</i>	-0.87	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-3.03	
<i>For >500, Deduct</i>	-4.33	
<i>For Work In Restricted Working Space, Add</i>	2.60	
26 05 29 00-0274 EA 1-1/2", "J" Type Conduit Hanger (Unistrut J1215).....	27.27	
<i>For >50 To 100, Deduct</i>	-0.93	
<i>For >100 To 250, Deduct</i>	-1.85	
<i>For >250 To 500, Deduct</i>	-3.26	
<i>For >500, Deduct</i>	-4.68	
<i>For Work In Restricted Working Space, Add</i>	2.93	
26 05 29 00-0275 EA 2", "J" Type Conduit Hanger (Unistrut J1220).....	28.44	
<i>For >50 To 100, Deduct</i>	-0.95	
<i>For >100 To 250, Deduct</i>	-1.91	
<i>For >250 To 500, Deduct</i>	-3.35	
<i>For >500, Deduct</i>	-4.79	
<i>For Work In Restricted Working Space, Add</i>	2.93	
26 05 29 00-0276 EA 2-1/2", "J" Type Conduit Hanger (Unistrut J1225).....	46.24	
<i>For >50 To 100, Deduct</i>	-1.43	
<i>For >100 To 250, Deduct</i>	-2.85	
<i>For >250 To 500, Deduct</i>	-4.82	
<i>For >500, Deduct</i>	-6.79	
<i>For Work In Restricted Working Space, Add</i>	3.25	
26 05 29 00-0277 EA 3", "J" Type Conduit Hanger (Unistrut J1230).....	49.08	
<i>For >50 To 100, Deduct</i>	-1.53	
<i>For >100 To 250, Deduct</i>	-3.05	
<i>For >250 To 500, Deduct</i>	-5.17	
<i>For >500, Deduct</i>	-7.29	
<i>For Work In Restricted Working Space, Add</i>	3.58	
26 05 29 00-0278 EA 3-1/2", "J" Type Conduit Hanger (Unistrut J1235).....	52.81	
<i>For >50 To 100, Deduct</i>	-1.65	
<i>For >100 To 250, Deduct</i>	-3.29	
<i>For >250 To 500, Deduct</i>	-5.59	
<i>For >500, Deduct</i>	-7.88	
<i>For Work In Restricted Working Space, Add</i>	3.90	
26 05 29 00-0279 EA 4", "J" Type Conduit Hanger (Unistrut J1240).....	70.93	
<i>For >50 To 100, Deduct</i>	-2.10	
<i>For >100 To 250, Deduct</i>	-4.20	
<i>For >250 To 500, Deduct</i>	-6.94	
<i>For >500, Deduct</i>	-9.69	
<i>For Work In Restricted Working Space, Add</i>	3.90	
26 05 29 00-0280 EA 5", "J" Type Conduit Hanger (Unistrut J1250).....	77.96	
<i>For >50 To 100, Deduct</i>	-2.30	
<i>For >100 To 250, Deduct</i>	-4.60	
<i>For >250 To 500, Deduct</i>	-7.61	
<i>For >500, Deduct</i>	-10.61	
<i>For Work In Restricted Working Space, Add</i>	4.22	
26 05 29 00-0281 EA 6", "J" Type Conduit Hanger (Unistrut J1260).....	110.51	
<i>For >50 To 100, Deduct</i>	-3.17	
<i>For >100 To 250, Deduct</i>	-6.34	
<i>For >250 To 500, Deduct</i>	-10.32	
<i>For >500, Deduct</i>	-14.30	
<i>For Work In Restricted Working Space, Add</i>	4.88	
26 05 29 00-0282 Between Studs Box Brackets <small>(26 05 29 00-0165)</small>		
26 05 29 00-0283 EA 16" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB16A)	8.59	
<i>For >50 To 100, Deduct</i>	-0.30	
<i>For >100 To 250, Deduct</i>	-0.59	
<i>For >250 To 500, Deduct</i>	-1.05	
<i>For >500, Deduct</i>	-1.51	
<i>For Work In Restricted Working Space, Add</i>	0.98	
26 05 29 00-0284 EA 24" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB24A)	10.43	
<i>For >50 To 100, Deduct</i>	-0.34	
<i>For >100 To 250, Deduct</i>	-0.68	
<i>For >250 To 500, Deduct</i>	-1.19	
<i>For >500, Deduct</i>	-1.69	
<i>For Work In Restricted Working Space, Add</i>	0.98	
26 05 29 00-0285 Hangers And Brackets <small>(26 05 29 00-0165)</small>		
26 05 29 00-0286 EA Rod Hangers Only With 1/4" Thread Impression (Caddy 4TI)	2.87	
<i>For >50 To 100, Deduct</i>	-0.13	
<i>For >100 To 250, Deduct</i>	-0.25	
<i>For >250 To 500, Deduct</i>	-0.49	
<i>For >500, Deduct</i>	-0.72	
26 05 29 00-0287 EA Angle Bracket Only With 1/4" Hole (Caddy AB)	2.77	
<i>For >50 To 100, Deduct</i>	-0.12	
<i>For >100 To 250, Deduct</i>	-0.25	
<i>For >250 To 500, Deduct</i>	-0.48	
<i>For >500, Deduct</i>	-0.71	

26 Electrical

26 05 Common Work Results for Electrical

26 05 29 Hangers and Supports for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0288	EA		Offset Bracket Only With 1/4" Hole (Caddy AO)	2.77	
			<i>For >50 To 100, Deduct</i>	-0.12	
			<i>For >100 To 250, Deduct</i>	-0.25	
			<i>For >250 To 500, Deduct</i>	-0.48	
			<i>For >500, Deduct</i>	-0.71	
26 05 29 00-0289	EA		Angle Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIB).....	3.87	
			<i>For >50 To 100, Deduct</i>	-0.15	
			<i>For >100 To 250, Deduct</i>	-0.30	
			<i>For >250 To 500, Deduct</i>	-0.56	
			<i>For >500, Deduct</i>	-0.82	
26 05 29 00-0290	EA		Angle Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIB).....	3.89	
			<i>For >50 To 100, Deduct</i>	-0.15	
			<i>For >100 To 250, Deduct</i>	-0.30	
			<i>For >250 To 500, Deduct</i>	-0.56	
			<i>For >500, Deduct</i>	-0.82	
26 05 29 00-0291	EA		Angle Bracket Mount, 1/4" Or 3/8" Threaded Rod Hanger With Nut (Caddy 6TB).....	3.77	
			<i>For >50 To 100, Deduct</i>	-0.15	
			<i>For >100 To 250, Deduct</i>	-0.30	
			<i>For >250 To 500, Deduct</i>	-0.55	
			<i>For >500, Deduct</i>	-0.81	
26 05 29 00-0292	EA		Offset Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIO).....	3.87	
			<i>For >50 To 100, Deduct</i>	-0.15	
			<i>For >100 To 250, Deduct</i>	-0.30	
			<i>For >250 To 500, Deduct</i>	-0.56	
			<i>For >500, Deduct</i>	-0.82	
26 05 29 00-0293	EA		Offset Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIO).....	3.89	
			<i>For >50 To 100, Deduct</i>	-0.15	
			<i>For >100 To 250, Deduct</i>	-0.30	
			<i>For >250 To 500, Deduct</i>	-0.56	
			<i>For >500, Deduct</i>	-0.82	
26 05 29 00-0294			Clips And Accessories <small>(26 05 29 00-0165)</small>		
26 05 29 00-0295	EA		1/2" Diameter Center, Bridle Ring (Caddy 2BR)	1.97	
			<i>For >50 To 100, Deduct</i>	-0.08	
			<i>For >100 To 250, Deduct</i>	-0.17	
			<i>For >250 To 500, Deduct</i>	-0.32	
			<i>For >500, Deduct</i>	-0.47	
26 05 29 00-0296	EA		3/4" Diameter Center, Bridle Ring (Caddy 2BR12)	2.01	
			<i>For >50 To 100, Deduct</i>	-0.08	
			<i>For >100 To 250, Deduct</i>	-0.17	
			<i>For >250 To 500, Deduct</i>	-0.32	
			<i>For >500, Deduct</i>	-0.47	
26 05 29 00-0297	EA		1-1/4" Diameter Center, Bridle Ring (Caddy 2BR20)	2.17	
			<i>For >50 To 100, Deduct</i>	-0.09	
			<i>For >100 To 250, Deduct</i>	-0.18	
			<i>For >250 To 500, Deduct</i>	-0.33	
			<i>For >500, Deduct</i>	-0.49	
26 05 29 00-0298	EA		2" Diameter Center, Bridle Ring (Caddy 2BR32)	2.52	
			<i>For >50 To 100, Deduct</i>	-0.10	
			<i>For >100 To 250, Deduct</i>	-0.19	
			<i>For >250 To 500, Deduct</i>	-0.36	
			<i>For >500, Deduct</i>	-0.52	
26 05 29 00-0299			Wire Ties <small>(26 05 29 00-0165)</small>		
			Note: Per hundred (C).		
26 05 29 00-0300	C		3" Length, 18 LB Tensile Strength, Nylon Cable Ties	27.91	
			<i>For Up To 0.1, Add</i>	22.62	
			<i>For >0.1 To 0.25, Add</i>	11.31	
			<i>For >0.25 To 0.75, Add</i>	5.66	
			<i>For >2.0, Deduct</i>	-2.26	
			<i>For UV Black, Add</i>	0.79	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.79	
26 05 29 00-0301	C		4" Length, 18 LB Tensile Strength, Nylon Cable Ties	28.12	
			<i>For Up To 0.1, Add</i>	22.62	
			<i>For >0.1 To 0.25, Add</i>	11.31	
			<i>For >0.25 To 0.75, Add</i>	5.66	
			<i>For >2.0, Deduct</i>	-2.26	
			<i>For UV Black, Add</i>	0.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.79	
26 05 29 00-0302	C		4-3/4" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	28.26	
			<i>For Up To 0.1, Add</i>	22.62	
			<i>For >0.1 To 0.25, Add</i>	11.31	
			<i>For >0.25 To 0.75, Add</i>	5.66	
			<i>For >2.0, Deduct</i>	-2.26	
			<i>For UV Black, Add</i>	0.85	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.79	
26 05 29 00-0303	C		5-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	28.32	
			<i>For Up To 0.1, Add</i>	22.62	
			<i>For >0.1 To 0.25, Add</i>	11.31	
			<i>For >0.25 To 0.75, Add</i>	5.66	
			<i>For >2.0, Deduct</i>	-2.26	
			<i>For UV Black, Add</i>	0.86	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0304 C 6-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	29.37	
For Up To 0.1, Add	23.60	
For >0.1 To 0.25, Add	11.80	
For >0.25 To 0.75, Add	5.90	
For >2.0, Deduct	-2.36	
For UV Black, Add	0.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.08	
26 05 29 00-0305 C 8" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	34.92	
For Up To 0.1, Add	24.68	
For >0.1 To 0.25, Add	12.34	
For >0.25 To 0.75, Add	6.17	
For >2.0, Deduct	-2.47	
For UV Black, Add	1.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.40	
26 05 29 00-0306 C 4-3/4" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	33.60	
For Up To 0.1, Add	22.62	
For >0.1 To 0.25, Add	11.31	
For >0.25 To 0.75, Add	5.66	
For >2.0, Deduct	-2.26	
For UV Black, Add	1.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.79	
26 05 29 00-0307 C 6" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	34.66	
For Up To 0.1, Add	23.60	
For >0.1 To 0.25, Add	11.80	
For >0.25 To 0.75, Add	5.90	
For >2.0, Deduct	-2.36	
For UV Black, Add	1.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.08	
26 05 29 00-0308 C 8" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	35.80	
For Up To 0.1, Add	24.68	
For >0.1 To 0.25, Add	12.34	
For >0.25 To 0.75, Add	6.17	
For >2.0, Deduct	-2.47	
For UV Black, Add	1.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.40	
26 05 29 00-0309 C 10" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	52.26	
For Up To 0.1, Add	26.61	
For >0.1 To 0.25, Add	13.31	
For >0.25 To 0.75, Add	6.65	
For >2.0, Deduct	-2.66	
For UV Black, Add	3.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.98	
26 05 29 00-0310 C 11-1/2" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	54.58	
For Up To 0.1, Add	26.61	
For >0.1 To 0.25, Add	13.31	
For >0.25 To 0.75, Add	6.65	
For >2.0, Deduct	-2.66	
For UV Black, Add	4.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.98	
26 05 29 00-0311 C 7" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	37.42	
For Up To 0.1, Add	24.68	
For >0.1 To 0.25, Add	12.34	
For >0.25 To 0.75, Add	6.17	
For >2.0, Deduct	-2.47	
For UV Black, Add	1.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.40	
26 05 29 00-0312 C 8" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	35.37	
For Up To 0.1, Add	24.68	
For >0.1 To 0.25, Add	12.34	
For >0.25 To 0.75, Add	6.17	
For >2.0, Deduct	-2.47	
For UV Black, Add	1.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.40	
26 05 29 00-0313 C 11" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	52.90	
For Up To 0.1, Add	26.61	
For >0.1 To 0.25, Add	13.31	
For >0.25 To 0.75, Add	6.65	
For >2.0, Deduct	-2.66	
For UV Black, Add	3.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.98	
26 05 29 00-0314 C 14-1/2" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	60.59	
For Up To 0.1, Add	28.27	
For >0.1 To 0.25, Add	14.14	
For >0.25 To 0.75, Add	7.07	
For >2.0, Deduct	-2.83	
For UV Black, Add	4.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.48	
26 05 29 00-0315 C 8" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	59.36	
For Up To 0.1, Add	24.68	
For >0.1 To 0.25, Add	12.34	
For >0.25 To 0.75, Add	6.17	
For >2.0, Deduct	-2.47	
For UV Black, Add	5.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.40	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0316 C 11" Length, 120 LB Tensile Strength, Nylon Cable Ties	65.00	
For Up To 0.1, Add	26.61	
For >0.1 To 0.25, Add	13.31	
For >0.25 To 0.75, Add	6.65	
For >2.0, Deduct	-2.66	
For UV Black, Add	5.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.98	
26 05 29 00-0317 C 15" Length, 120 LB Tensile Strength, Nylon Cable Ties	78.77	
For Up To 0.1, Add	28.27	
For >0.1 To 0.25, Add	14.14	
For >0.25 To 0.75, Add	7.07	
For >2.0, Deduct	-2.83	
For UV Black, Add	7.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.48	
26 05 29 00-0318 C 17" Length, 120 LB Tensile Strength, Nylon Cable Ties	112.90	
For Up To 0.1, Add	30.16	
For >0.1 To 0.25, Add	15.08	
For >0.25 To 0.75, Add	7.54	
For >2.0, Deduct	-3.02	
For UV Black, Add	12.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.05	
26 05 29 00-0319 C 17-3/4" Length, 175 LB Tensile Strength, Nylon Cable Ties	109.37	
For Up To 0.1, Add	30.16	
For >0.1 To 0.25, Add	15.08	
For >0.25 To 0.75, Add	7.54	
For >2.0, Deduct	-3.02	
For UV Black, Add	11.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.05	
26 05 29 00-0320 C 21-11/16" Length, 175 LB Tensile Strength, Nylon Cable Ties	133.35	
For Up To 0.1, Add	31.57	
For >0.1 To 0.25, Add	15.79	
For >0.25 To 0.75, Add	7.89	
For >2.0, Deduct	-3.16	
For UV Black, Add	15.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.47	
26 05 29 00-0321 C 30" Length, 175 LB Tensile Strength, Nylon Cable Ties	154.41	
For Up To 0.1, Add	33.10	
For >0.1 To 0.25, Add	16.55	
For >0.25 To 0.75, Add	8.28	
For >2.0, Deduct	-3.31	
For UV Black, Add	18.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.93	
26 05 29 00-0322 C 46" Length, 175 LB Tensile Strength, Nylon Cable Ties	211.98	
For Up To 0.1, Add	35.71	
For >0.1 To 0.25, Add	17.86	
For >0.25 To 0.75, Add	8.93	
For >2.0, Deduct	-3.57	
For UV Black, Add	26.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.71	
26 05 29 00-0323 C 3/4" x 3/4" Self Adhesive Tie Mounts	36.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.18	
26 05 29 00-0324 C 1.1" x 1.1" Tie Mounts With Screw	72.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.36	
26 05 29 00-0325 EA 6" Length x 1/2" Width, Velcro Grip Cable Tie	2.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.16	
26 05 29 00-0326 EA 8" Length x 1/2" Width, Velcro Grip Cable Tie	2.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.14	
26 05 29 00-0327 EA 12" Length x 1/2" Width, Velcro Grip Cable Tie	2.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.14	
26 05 29 00-0328 EA 15" Length x 3/4" Width, Velcro Grip Cable Tie	3.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.14	
26 05 29 00-0329 EA 180" Length x 3/4" Width, Velcro Grip Cable Tie Roll	98.91	
Note: Cut to length.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.02	
26 05 29 00-0330 Fastening Devices For Wireway And Conduit <small>(26 05 29)</small>		
Note: Includes drilling of holes with power tools in concrete, brick, concrete block, wood, tile or steel and alignment of hangers and supports for bolts.		
26 05 29 00-0331 Toggle Bolts <small>(26 05 29 00-0330)</small>		
Note: Includes machine screw, toggle wing and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0332 EA 1/8" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt	8.34	
For >50 To 100, Deduct	-0.80	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.80	
For >500, Deduct	-4.00	
26 05 29 00-0333 EA 1/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt	8.56	
For >50 To 100, Deduct	-0.82	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.88	
For >500, Deduct	-4.10	
26 05 29 00-0334 EA 3/16" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt	8.98	
For >50 To 100, Deduct	-0.85	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.96	
For >500, Deduct	-4.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0335 EA 3/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	9.20	
<i>For >50 To 100, Deduct</i>	-0.87	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-3.03	
<i>For >500, Deduct</i>	-4.32	
26 05 29 00-0336 EA 1/4" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	9.42	
<i>For >50 To 100, Deduct</i>	-0.89	
<i>For >100 To 250, Deduct</i>	-1.78	
<i>For >250 To 500, Deduct</i>	-3.10	
<i>For >500, Deduct</i>	-4.43	
26 05 29 00-0337 EA 5/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	10.51	
<i>For >50 To 100, Deduct</i>	-0.93	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-3.24	
<i>For >500, Deduct</i>	-4.62	
26 05 29 00-0338 EA 3/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	10.91	
<i>For >50 To 100, Deduct</i>	-0.96	
<i>For >100 To 250, Deduct</i>	-1.91	
<i>For >250 To 500, Deduct</i>	-3.32	
<i>For >500, Deduct</i>	-4.74	
26 05 29 00-0339 Machine Screws <small>(26 05 29 00-0330)</small>		
Note: Includes drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0340 EA #8 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	2.48	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.49	
<i>For >250 To 500, Deduct</i>	-0.85	
<i>For >500, Deduct</i>	-1.21	
26 05 29 00-0341 EA #10 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	2.51	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.49	
<i>For >250 To 500, Deduct</i>	-0.85	
<i>For >500, Deduct</i>	-1.22	
26 05 29 00-0342 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Machine Screw	3.15	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100 To 250, Deduct</i>	-0.61	
<i>For >250 To 500, Deduct</i>	-1.07	
<i>For >500, Deduct</i>	-1.52	
26 05 29 00-0343 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Machine Screw	3.27	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100 To 250, Deduct</i>	-0.62	
<i>For >250 To 500, Deduct</i>	-1.08	
<i>For >500, Deduct</i>	-1.54	
26 05 29 00-0344 EA 3/8" Diameter, 2" Length, Zinc Plated Steel, Machine Screw	4.00	
<i>For >50 To 100, Deduct</i>	-0.37	
<i>For >100 To 250, Deduct</i>	-0.74	
<i>For >250 To 500, Deduct</i>	-1.29	
<i>For >500, Deduct</i>	-1.84	
26 05 29 00-0345 Hex Lag Bolts With Lag Shield Expansion Anchors <small>(26 05 29 00-0330)</small>		
Note: Includes lag bolt, lag shield expansion anchor and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0346 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	3.89	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100 To 250, Deduct</i>	-0.65	
<i>For >250 To 500, Deduct</i>	-1.12	
<i>For >500, Deduct</i>	-1.60	
26 05 29 00-0347 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	3.85	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100 To 250, Deduct</i>	-0.65	
<i>For >250 To 500, Deduct</i>	-1.12	
<i>For >500, Deduct</i>	-1.59	
26 05 29 00-0348 EA 3/8" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	5.33	
<i>For >50 To 100, Deduct</i>	-0.40	
<i>For >100 To 250, Deduct</i>	-0.81	
<i>For >250 To 500, Deduct</i>	-1.39	
<i>For >500, Deduct</i>	-1.97	
26 05 29 00-0349 EA 1/2" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	6.74	
<i>For >50 To 100, Deduct</i>	-0.48	
<i>For >100 To 250, Deduct</i>	-0.97	
<i>For >250 To 500, Deduct</i>	-1.66	
<i>For >500, Deduct</i>	-2.35	
26 05 29 00-0350 Hanger Lag Bolts With Hex Nuts <small>(26 05 29 00-0330)</small>		
Note: Includes hanger lag bolt (threaded one side), hex nut and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0351 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	2.94	
<i>For >50 To 100, Deduct</i>	-0.25	
<i>For >100 To 250, Deduct</i>	-0.51	
<i>For >250 To 500, Deduct</i>	-0.88	
<i>For >500, Deduct</i>	-1.26	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0352	EA		5/16" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	2.98	
			<i>For >50 To 100, Deduct</i>	-0.26	
			<i>For >100 To 250, Deduct</i>	-0.51	
			<i>For >250 To 500, Deduct</i>	-0.89	
			<i>For >500, Deduct</i>	-1.26	
26 05 29 00-0353	EA		3/8" Diameter, 2-1/2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	3.49	
			<i>For >50 To 100, Deduct</i>	-0.29	
			<i>For >100 To 250, Deduct</i>	-0.58	
			<i>For >250 To 500, Deduct</i>	-1.00	
			<i>For >500, Deduct</i>	-1.42	
26 05 29 00-0354			Hollow Wall Screw Anchors <small>(26 05 29 00-0330)</small>		
26 05 29 00-0355	EA		6-32 Screw Size, 5/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	1.73	
			<i>For >50 To 100, Deduct</i>	-0.15	
			<i>For >100 To 250, Deduct</i>	-0.30	
			<i>For >250 To 500, Deduct</i>	-0.53	
			<i>For >500, Deduct</i>	-0.75	
26 05 29 00-0356	EA		6-32 Screw Size, 5/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	1.77	
			<i>For >50 To 100, Deduct</i>	-0.15	
			<i>For >100 To 250, Deduct</i>	-0.30	
			<i>For >250 To 500, Deduct</i>	-0.53	
			<i>For >500, Deduct</i>	-0.75	
26 05 29 00-0357	EA		6-32 Screw Size, 5/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	1.85	
			<i>For >50 To 100, Deduct</i>	-0.15	
			<i>For >100 To 250, Deduct</i>	-0.31	
			<i>For >250 To 500, Deduct</i>	-0.53	
			<i>For >500, Deduct</i>	-0.76	
26 05 29 00-0358	EA		10-24 Screw Size, 3/8" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.32	
			<i>For >50 To 100, Deduct</i>	-0.18	
			<i>For >100 To 250, Deduct</i>	-0.37	
			<i>For >250 To 500, Deduct</i>	-0.64	
			<i>For >500, Deduct</i>	-0.90	
26 05 29 00-0359	EA		10-24 Screw Size, 3/8" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.42	
			<i>For >50 To 100, Deduct</i>	-0.19	
			<i>For >100 To 250, Deduct</i>	-0.37	
			<i>For >250 To 500, Deduct</i>	-0.64	
			<i>For >500, Deduct</i>	-0.91	
26 05 29 00-0360	EA		10-24 Screw Size, 3/8" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.45	
			<i>For >50 To 100, Deduct</i>	-0.19	
			<i>For >100 To 250, Deduct</i>	-0.37	
			<i>For >250 To 500, Deduct</i>	-0.65	
			<i>For >500, Deduct</i>	-0.92	
26 05 29 00-0361	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.47	
			<i>For >50 To 100, Deduct</i>	-0.19	
			<i>For >100 To 250, Deduct</i>	-0.38	
			<i>For >250 To 500, Deduct</i>	-0.65	
			<i>For >500, Deduct</i>	-0.92	
26 05 29 00-0362	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.61	
			<i>For >50 To 100, Deduct</i>	-0.19	
			<i>For >100 To 250, Deduct</i>	-0.38	
			<i>For >250 To 500, Deduct</i>	-0.66	
			<i>For >500, Deduct</i>	-0.93	
26 05 29 00-0363	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.67	
			<i>For >50 To 100, Deduct</i>	-0.19	
			<i>For >100 To 250, Deduct</i>	-0.39	
			<i>For >250 To 500, Deduct</i>	-0.66	
			<i>For >500, Deduct</i>	-0.94	
26 05 29 00-0364			Lead Screw Anchors <small>(26 05 29 00-0330)</small>		
			Note: Includes screw.		
26 05 29 00-0365	EA		#6-8 Screw Size, 1/4" Hole Diameter, Lead Screw Anchor With Screw.....	4.07	
			<i>For >50 To 100, Deduct</i>	-0.38	
			<i>For >100 To 250, Deduct</i>	-0.76	
			<i>For >250 To 500, Deduct</i>	-1.32	
			<i>For >500, Deduct</i>	-1.88	
26 05 29 00-0366	EA		#10-14 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw.....	4.82	
			<i>For >50 To 100, Deduct</i>	-0.44	
			<i>For >100 To 250, Deduct</i>	-0.88	
			<i>For >250 To 500, Deduct</i>	-1.54	
			<i>For >500, Deduct</i>	-2.19	
26 05 29 00-0367	EA		#16-18 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw.....	6.47	
			<i>For >50 To 100, Deduct</i>	-0.57	
			<i>For >100 To 250, Deduct</i>	-1.14	
			<i>For >250 To 500, Deduct</i>	-1.98	
			<i>For >500, Deduct</i>	-2.82	
26 05 29 00-0368			Acoustical T-Bar Clips <small>(26 05 29 00-0330)</small>		
			Note: For conduit installation above suspended ceilings up to 15' height.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0369 EA 1/2" Conduit, Push-In Acoustical T-Bar Clip	6.76	
<i>For >50 To 100, Deduct</i>	-0.51	
<i>For >100 To 250, Deduct</i>	-1.03	
<i>For >250 To 500, Deduct</i>	-1.77	
<i>For >500, Deduct</i>	-2.52	
26 05 29 00-0370 EA 3/4" Conduit, Push-In Acoustical T-Bar Clip	7.09	
<i>For >50 To 100, Deduct</i>	-0.54	
<i>For >100 To 250, Deduct</i>	-1.08	
<i>For >250 To 500, Deduct</i>	-1.87	
<i>For >500, Deduct</i>	-2.65	
26 05 29 00-0371 EA 1" Conduit, Push-In Acoustical T-Bar Clip	7.72	
<i>For >50 To 100, Deduct</i>	-0.58	
<i>For >100 To 250, Deduct</i>	-1.15	
<i>For >250 To 500, Deduct</i>	-1.99	
<i>For >500, Deduct</i>	-2.82	
26 05 29 00-0372 Threaded Rod, Accessories And Attachments <small>(26 05 29)</small>		
26 05 29 00-0373 Threaded Rod And Rod Accessories <small>(26 05 29 00-0372)</small>		
26 05 29 00-0374 Carbon Steel Threaded Rod <small>(26 05 29 00-0373)</small>		
Note: Includes plain finish.		
26 05 29 00-0375 LF 3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.13	0.68
<i>For Galvanized, Add</i>	0.71	
<i>For Zinc Coated, Add</i>	0.50	
26 05 29 00-0376 LF 1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.27	0.72
<i>For Galvanized, Add</i>	1.13	
<i>For Zinc Coated, Add</i>	0.80	
26 05 29 00-0377 LF 5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.86	0.75
<i>For Galvanized, Add</i>	1.74	
<i>For Zinc Coated, Add</i>	1.24	
26 05 29 00-0378 LF 3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	9.48	0.77
<i>For Galvanized, Add</i>	3.17	
<i>For Zinc Coated, Add</i>	2.26	
26 05 29 00-0379 LF 7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	10.31	0.79
<i>For Galvanized, Add</i>	3.48	
<i>For Zinc Coated, Add</i>	2.48	
26 05 29 00-0380 LF 1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	14.04	0.90
<i>For Galvanized, Add</i>	4.89	
<i>For Zinc Coated, Add</i>	3.49	
26 05 29 00-0381 LF 1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	17.44	1.00
<i>For Galvanized, Add</i>	6.17	
<i>For Zinc Coated, Add</i>	4.40	
26 05 29 00-0382 Threaded Rod Couplings <small>(26 05 29 00-0373)</small>		
26 05 29 00-0383 EA 3/8" Diameter, Threaded Rod Coupling Nut	8.45	
26 05 29 00-0384 EA 1/2" Diameter, Threaded Rod Coupling Nut	9.55	
26 05 29 00-0385 EA 5/8" Diameter, Threaded Rod Coupling Nut	11.74	
26 05 29 00-0386 EA 3/4" Diameter, Threaded Rod Coupling Nut	14.09	
26 05 29 00-0387 EA 7/8" Diameter, Threaded Rod Coupling Nut	19.95	
26 05 29 00-0388 EA 1" Diameter, Threaded Rod Coupling Nut	23.64	
26 05 29 00-0389 EA 1-1/8" Diameter, Threaded Rod Coupling Nut	43.30	
26 05 29 00-0390 Flat Washers <small>(26 05 29 00-0373)</small>		
26 05 29 00-0391 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.72	0.27
<i>For Galvanized, Add</i>	0.03	
26 05 29 00-0392 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.91	0.27
<i>For Galvanized, Add</i>	0.06	
26 05 29 00-0393 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.15	0.27
<i>For Galvanized, Add</i>	0.11	
26 05 29 00-0394 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.39	0.54
<i>For Galvanized, Add</i>	0.16	
26 05 29 00-0395 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.55	0.54
<i>For Galvanized, Add</i>	0.19	
26 05 29 00-0396 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.84	0.54
<i>For Galvanized, Add</i>	0.24	
26 05 29 00-0397 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.06	0.54
<i>For Galvanized, Add</i>	0.27	
26 05 29 00-0398 Malleable Iron Eye Sockets <small>(26 05 29 00-0373)</small>		
Note: Type 16.		
26 05 29 00-0399 EA 3/8" Rod Size, Malleable Iron Eye Socket	10.97	
26 05 29 00-0400 EA 1/2" Rod Size, Malleable Iron Eye Socket	13.17	
26 05 29 00-0401 EA 5/8" Rod Size, Malleable Iron Eye Socket	23.28	
26 05 29 00-0402 EA 3/4" Rod Size, Malleable Iron Eye Socket	33.36	
26 05 29 00-0403 EA 7/8" Rod Size, Malleable Iron Eye Socket	35.51	
26 05 29 00-0404 Hex Nuts <small>(26 05 29 00-0373)</small>		

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0405 EA 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.70	0.27
For Galvanized, Add	0.02	
26 05 29 00-0406 EA 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.88	0.27
For Galvanized, Add	0.05	
26 05 29 00-0407 EA 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.16	0.27
For Galvanized, Add	0.11	
26 05 29 00-0408 EA 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.35	0.54
For Galvanized, Add	0.15	
26 05 29 00-0409 EA 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.92	0.54
For Galvanized, Add	0.28	
26 05 29 00-0410 EA 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.43	0.54
For Galvanized, Add	0.38	
26 05 29 00-0411 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	3.89	0.54
For Galvanized, Add	0.72	
26 05 29 00-0412 Forged Steel Turnbuckles (26 05 29 00-0373)		
Note: Type 13.		
26 05 29 00-0413 EA 3/8" Thread Diameter, Forged Steel Turnbuckle Body	26.69	
26 05 29 00-0414 EA 1/2" Thread Diameter, Forged Steel Turnbuckle Body	33.08	
26 05 29 00-0415 EA 5/8" Thread Diameter, Forged Steel Turnbuckle Body	44.54	
26 05 29 00-0416 EA 3/4" Thread Diameter, Forged Steel Turnbuckle Body	55.24	
26 05 29 00-0417 EA 7/8" Thread Diameter, Forged Steel Turnbuckle Body	137.81	
26 05 29 00-0418 EA 1" Thread Diameter, Forged Steel Turnbuckle Body	90.83	
26 05 29 00-0419 EA 1-1/4" Thread Diameter, Forged Steel Turnbuckle Body	184.16	
26 05 29 00-0420 Attachments (26 05 29 00-0372)		
26 05 29 00-0421 Welded Beam Attachments (26 05 29 00-0420)		
Note: Type 22.		
26 05 29 00-0422 EA 3/8" Rod Size, Welded Beam Attachment.....	48.83	10.84
26 05 29 00-0423 EA 1/2" Rod Size, Welded Beam Attachment.....	52.11	11.38
26 05 29 00-0424 EA 5/8" Rod Size, Welded Beam Attachment.....	55.48	12.03
26 05 29 00-0425 EA 3/4" Rod Size, Welded Beam Attachment.....	70.98	12.79
26 05 29 00-0426 EA 7/8" Rod Size, Welded Beam Attachment.....	85.29	13.54
26 05 29 00-0427 EA 1" Rod Size, Welded Beam Attachment.....	119.82	15.50
26 05 29 00-0428 EA 1-1/8" Rod Size, Welded Beam Attachment	170.07	16.26
26 05 29 00-0429 C-Clamp Style Beam Clamps (26 05 29 00-0420)		
Note: Type 23. Top or bottom flange mount.		
26 05 29 00-0430 EA 3/8" Rod Size, C-Clamp Style Beam Clamp	16.89	8.15
26 05 29 00-0431 EA 1/2" Rod Size, C-Clamp Style Beam Clamp	20.22	8.69
26 05 29 00-0432 EA 5/8" Rod Size, C-Clamp Style Beam Clamp	22.99	9.30
26 05 29 00-0433 EA 3/4" Rod Size, C-Clamp Style Beam Clamp	29.67	10.02
26 05 29 00-0434 EA 7/8" Rod Size, C-Clamp Style Beam Clamp	43.30	10.86
26 05 29 00-0435 Bottom Mount I-Beam Clamps (26 05 29 00-0420)		
Note: Type 21. For attaching threaded rod centered under beam flanges.		
26 05 29 00-0436 EA 3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	47.26	10.86
26 05 29 00-0437 EA 1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	69.71	11.84
26 05 29 00-0438 EA 5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	99.84	13.03
26 05 29 00-0439 EA 3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	119.57	14.47
26 05 29 00-0440 EA 1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	290.71	16.29
26 05 29 00-0441 Steel U-Bolts (26 05 29 00-0420)		
Note: Type 24. Includes plate and nuts.		
26 05 29 00-0442 EA 1/2" Pipe Size, Zinc Plated Steel, U-Bolt.....	13.78	6.52
26 05 29 00-0443 EA 3/4" Pipe Size, Zinc Plated Steel, U-Bolt.....	14.97	6.86
26 05 29 00-0444 EA 1" Pipe Size, Zinc Plated Steel, U-Bolt.....	16.11	7.24
26 05 29 00-0445 EA 1-1/4" Pipe Size, Zinc Plated Steel, U-Bolt	18.35	7.66
26 05 29 00-0446 EA 1-1/2" Pipe Size, Zinc Plated Steel, U-Bolt	18.94	8.15
26 05 29 00-0447 EA 2" Pipe Size, Zinc Plated Steel, U-Bolt.....	20.26	8.69
26 05 29 00-0448 EA 2-1/2" Pipe Size, Zinc Plated Steel, U-Bolt	29.40	9.31
26 05 29 00-0449 EA 3" Pipe Size, Zinc Plated Steel, U-Bolt.....	32.42	10.02
26 05 29 00-0450 EA 4" Pipe Size, Zinc Plated Steel, U-Bolt.....	39.25	10.86
26 05 29 00-0451 Stainless Steel Threaded Rod (26 05 29 00-0372)		
26 05 29 00-0452 LF 1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	3.08	0.54
For 316 Stainless Steel, Add	0.81	
26 05 29 00-0453 LF 5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	4.62	0.59
For 316 Stainless Steel, Add	1.39	
26 05 29 00-0454 LF 3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	5.92	0.68
For 316 Stainless Steel, Add	1.85	
26 05 29 00-0455 LF 7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	8.18	0.70
For 316 Stainless Steel, Add	2.75	
26 05 29 00-0456 LF 1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	9.81	0.72
For 316 Stainless Steel, Add	3.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0457 LF 5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For 316 Stainless Steel, Add</i>	14.64 5.33	0.73
26 05 29 00-0458 LF 3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For 316 Stainless Steel, Add</i>	20.45 7.67	0.75
26 05 29 00-0459 LF 7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For 316 Stainless Steel, Add</i>	28.10 10.75	0.77
26 05 29 00-0460 LF 1" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For 316 Stainless Steel, Add</i>	36.09 13.88	0.90
26 05 29 00-0461 LF 1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For 316 Stainless Steel, Add</i>	76.28 29.98	1.08
26 05 29 00-0462 Polyvinyl Chloride (PVC) Coated Supports <small>(26 05 29)</small> Note: Includes stainless steel and/or Polyvinyl Chloride (PVC) coated hardware.		
26 05 29 00-0463 Polyvinyl Chloride (PVC) Coated Beam Clamps <small>(26 05 29 00-0462)</small>		
26 05 29 00-0464 Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamps <small>(26 05 29 00-0463)</small>		
26 05 29 00-0465 EA 1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	66.33	21.67
26 05 29 00-0466 EA 3/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	72.02	23.63
26 05 29 00-0467 EA 1", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	76.35	26.01
26 05 29 00-0468 EA 1-1/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	93.03	28.93
26 05 29 00-0469 EA 1-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	108.01	32.51
26 05 29 00-0470 EA 2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	131.16	35.77
26 05 29 00-0471 EA 2-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	143.50	39.02
26 05 29 00-0472 EA 3", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	158.48	42.26
26 05 29 00-0473 EA 3-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	166.81	45.51
26 05 29 00-0474 EA 4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	180.56	48.77
26 05 29 00-0475 Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamps <small>(26 05 29 00-0463)</small>		
26 05 29 00-0476 EA 1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	72.16	21.67
26 05 29 00-0477 EA 3/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	75.97	23.63
26 05 29 00-0478 EA 1", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	88.18	26.01
26 05 29 00-0479 EA 1-1/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	97.23	28.93
26 05 29 00-0480 EA 1-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	109.64	32.51
26 05 29 00-0481 EA 2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	128.38	35.77
26 05 29 00-0482 EA 2-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	148.77	39.02
26 05 29 00-0483 EA 3", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	165.46	42.26
26 05 29 00-0484 EA 3-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	175.59	45.51
26 05 29 00-0485 EA 4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	181.74	48.77
26 05 29 00-0486 Edge, Polyvinyl Chloride (PVC) Coated Beam Clamps <small>(26 05 29 00-0463)</small>		
26 05 29 00-0487 EA 1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	67.53	21.45
26 05 29 00-0488 EA 3/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	72.41	23.41
26 05 29 00-0489 EA 1", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	82.29	26.01
26 05 29 00-0490 EA 1-1/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	97.74	28.61
26 05 29 00-0491 EA 1-1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	130.30	32.51
26 05 29 00-0492 EA 2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	142.80	35.77
26 05 29 00-0493 Polyvinyl Chloride (PVC) Coated Conduit Straps <small>(26 05 29 00-0462)</small>		
26 05 29 00-0494 One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps <small>(26 05 29 00-0493)</small>		
26 05 29 00-0495 EA 1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	9.38	0.65
26 05 29 00-0496 EA 3/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	10.22	0.65
26 05 29 00-0497 EA 1", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	15.21	0.65
26 05 29 00-0498 EA 1-1/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	18.58	0.65
26 05 29 00-0499 EA 1-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	24.57	0.65
26 05 29 00-0500 EA 2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	37.11	0.65
26 05 29 00-0501 EA 2-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	49.56	0.65
26 05 29 00-0502 EA 3", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	66.52	0.65
26 05 29 00-0503 EA 3-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	118.02	0.65
26 05 29 00-0504 EA 4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	125.45	0.65
26 05 29 00-0505 Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps <small>(26 05 29 00-0493)</small>		
26 05 29 00-0506 EA 1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	18.49	1.30
26 05 29 00-0507 EA 3/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	18.57	1.30
26 05 29 00-0508 EA 1", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	19.08	1.30
26 05 29 00-0509 EA 1-1/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	24.21	1.30
26 05 29 00-0510 EA 1-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	24.91	1.30
26 05 29 00-0511 EA 2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	28.69	1.30
26 05 29 00-0512 EA 2-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	32.37	1.30
26 05 29 00-0513 EA 3", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	33.88	1.30
26 05 29 00-0514 EA 3-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	36.23	1.30
26 05 29 00-0515 EA 4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	39.37	1.30
26 05 29 00-0516 Polyvinyl Chloride (PVC) Coated Clamp Back Spacer <small>(26 05 29 00-0462)</small>		

26 Electrical
26 05 Common Work Results for Electrical
26 05 29 Hangers and Supports for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0517			Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0516)		
26 05 29 00-0518	EA		1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	16.69	1.30
26 05 29 00-0519	EA		3/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	19.55	1.30
26 05 29 00-0520	EA		1" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	24.80	1.30
26 05 29 00-0521	EA		1-1/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	29.14	1.30
26 05 29 00-0522	EA		1-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	39.29	1.30
26 05 29 00-0523	EA		2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	48.34	1.30
26 05 29 00-0524	EA		2-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	97.66	1.30
26 05 29 00-0525	EA		3" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	133.66	1.30
26 05 29 00-0526	EA		3-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	234.57	1.30
26 05 29 00-0527	EA		4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	234.57	1.30
26 05 29 00-0528			Polyvinyl Chloride (PVC) Coated Threaded Rod And Accessories (26 05 29 00-0462)		
26 05 29 00-0529			Polyvinyl Chloride (PVC) Coated Threaded Rod (26 05 29 00-0528)		
26 05 29 00-0530	LF		3/8" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod.....	11.57	0.86
26 05 29 00-0531	LF		1/2" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod.....	14.28	0.97
26 05 29 00-0532			Attachments (26 05 29 00-0462)		
26 05 29 00-0533			Polyvinyl Chloride (PVC) Coated U-Bolts And Encapsulation Nuts (26 05 29 00-0532)		
26 05 29 00-0534	EA		1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	19.50	6.52
26 05 29 00-0535	EA		3/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	20.07	6.84
26 05 29 00-0536	EA		1" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	21.12	7.27
26 05 29 00-0537	EA		1-1/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	22.50	7.71
26 05 29 00-0538	EA		1-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	23.97	8.15
26 05 29 00-0539	EA		2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	27.23	8.69
26 05 29 00-0540	EA		2-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	41.28	9.34
26 05 29 00-0541	EA		3" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	43.14	9.99
26 05 29 00-0542	EA		4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	45.88	10.86
26 05 29 00-0543	EA		5" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	78.11	12.37
26 05 29 00-0544	EA		6" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	97.42	14.33
26 05 29 00-0545			Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamps (26 05 29 00-0532)		
26 05 29 00-0546	EA		1/4", 20 Hole, 15/16" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	68.39	21.45
26 05 29 00-0547	EA		5/16", 18 Hole, 7/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	82.27	21.45
26 05 29 00-0548	EA		3/8", 16 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	87.99	21.45
26 05 29 00-0549	EA		1/2", 13 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	97.65	22.76
26 05 29 00-0550	EA		1/2", 13 Hole, 2-1/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	114.73	26.01
26 05 29 00-0551			Polyvinyl Chloride (PVC) Coated Pipe Straps (26 05 29 00-0532)		
			Note: Includes stainless steel nuts and bolts.		
26 05 29 00-0552	EA		1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	21.17	7.16
26 05 29 00-0553	EA		3/4" Polyvinyl Chloride (PVC) Coated Pipe Strap	22.27	7.80
26 05 29 00-0554	EA		1" Polyvinyl Chloride (PVC) Coated Pipe Strap	24.26	8.45
26 05 29 00-0555	EA		1-1/4" Polyvinyl Chloride (PVC) Coated Pipe Strap	27.33	9.75
26 05 29 00-0556	EA		1-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	31.28	11.06
26 05 29 00-0557	EA		2" Polyvinyl Chloride (PVC) Coated Pipe Strap	34.75	11.71
26 05 29 00-0558	EA		2-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	38.40	13.00
26 05 29 00-0559	EA		3" Polyvinyl Chloride (PVC) Coated Pipe Strap	45.63	14.31
26 05 29 00-0560	EA		3-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	49.86	14.96
26 05 29 00-0561	EA		4" Polyvinyl Chloride (PVC) Coated Pipe Strap	52.42	16.26
26 05 29 00-0562	EA		5" Polyvinyl Chloride (PVC) Coated Pipe Strap	56.04	18.20
26 05 29 00-0563			Polyvinyl Chloride (PVC) Coated Channel (26 05 29 00-0462)		
26 05 29 00-0564	LF		A12, Polyvinyl Chloride (PVC) Coated Channel	21.77	3.25
26 05 29 00-0565	LF		A12A, Polyvinyl Chloride (PVC) Coated Channel	38.50	4.55
26 05 29 00-0566	LF		A12P, Polyvinyl Chloride (PVC) Coated Channel	23.24	3.25
26 05 29 00-0567	LF		C14, Polyvinyl Chloride (PVC) Coated Channel	17.27	3.25
26 05 29 00-0568	LF		C14P, Polyvinyl Chloride (PVC) Coated Channel	18.18	3.25
26 05 29 00-0569			Polymer Concrete Pads (26 05 29)		
			Note: Excludes excavation and backfill.		
26 05 29 00-0570			Polymer Concrete, Box Pads (26 05 29 00-0569)		
26 05 29 00-0571	EA		24" x 36", 18" Depth, Polymer Concrete, Box Pad.....	1,273.31	117.51
26 05 29 00-0572	EA		25" x 25", 24" Depth, Polymer Concrete, Box Pad.....	1,316.22	117.51
26 05 29 00-0573	EA		40" x 44", 15" Depth, Polymer Concrete, Box Pad.....	1,710.47	117.51
26 05 29 00-0574	EA		40" x 44", 24" Depth, Polymer Concrete, Box Pad.....	1,775.83	117.51
26 05 29 00-0575	EA		52" x 36", 18" Depth, Polymer Concrete, Box Pad.....	1,649.62	117.51
26 05 29 00-0576	EA		44" x 44", 32" Depth, Polymer Concrete, Box Pad.....	1,958.32	117.51
26 05 29 00-0577	EA		40" x 58", 24" Depth, Polymer Concrete, Box Pad.....	2,195.02	117.51
26 05 29 00-0578	EA		52" x 50", 18" Depth, Polymer Concrete, Box Pad.....	2,098.97	146.89
26 05 29 00-0579	EA		74" x 76", 36" Depth, Polymer Concrete, Box Pad.....	3,204.93	146.89



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0580 EA 93" x 93", 36" Depth, Polymer Concrete, Box Pad.....	4,316.36	146.89
26 05 29 00-0581 Polymer Concrete, Telecommunications Equipment Pads <small>(26 05 29 00-0569)</small>		
26 05 29 00-0582 EA 42" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	604.30	59.46
26 05 29 00-0583 EA 48" x 46", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	721.50	59.46
26 05 29 00-0584 EA 60" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	944.60	88.13
26 05 29 00-0585 EA 54" x 48", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	988.15	88.13
26 05 29 00-0586 EA 57" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,431.58	88.13
26 05 29 00-0587 EA 72" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,493.21	88.13
26 05 29 00-0588 EA 64" x 72", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,608.04	88.13
26 05 29 00-0589 EA 72" x 64", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,608.04	88.13
26 05 29 00-0590 EA 76" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	3,050.72	88.13
26 05 29 00-0591 EA 96" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	3,462.37	88.13
26 05 29 00-0592 Polymer Concrete, Electrical Equipment Pads <small>(26 05 29 00-0569)</small>		
26 05 29 00-0593 EA 24" x 25", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	356.07	59.46
26 05 29 00-0594 EA 24" x 36", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	386.19	59.46
26 05 29 00-0595 EA 24" x 44", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	413.64	59.46
26 05 29 00-0596 EA 24" x 58", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	504.81	59.46
26 05 29 00-0597 EA 40" x 40", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	464.12	59.46
26 05 29 00-0598 EA 42" x 42", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	483.30	59.46
26 05 29 00-0599 EA 48" x 42", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	533.00	59.46
26 05 29 00-0600 EA 48" x 46", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	561.98	59.46
26 05 29 00-0601 EA 54" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	658.81	59.46
26 05 29 00-0602 EA 56" x 44", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	818.30	59.46
26 05 29 00-0603 EA 64" x 64", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	1,217.95	88.13
26 05 29 00-0604 EA 66" x 72", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	1,276.25	88.13
26 05 29 00-0605 EA 75" x 52", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	1,294.64	88.13
26 05 29 00-0606 EA 90" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	1,417.18	88.13
26 05 29 00-0607 EA 84" x 96", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	3,056.25	88.13
26 05 29 00-0608 EA 96" x 80", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	3,605.27	88.13
26 05 33 Raceway and Boxes for Electrical Systems <small>(26 05)</small>		
26 05 33 13 Conduit for Electrical Systems <small>(26 05 33)</small>		
26 05 33 13-0001 Conduit Assemblies With Wire <small>(26 05 33 13)</small> Note: Includes conduit, fittings and wire. Excludes hangers or supports.		
26 05 33 13-0002 Electrical Metallic Tubing (EMT) Conduit Assemblies <small>(26 05 33 13-0001)</small> Note: Includes conduit, field bends, set screw connectors, set screw couplings, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0240 for larger copper conductor, 26 05 33 13-0593 for larger EMT conduit.		
26 05 33 13-0003 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	853.47	241.97
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	207.44	
<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	2.20	
26 05 33 13-0004 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	934.85	262.76
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	225.26	
<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	3.30	
26 05 33 13-0005 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,016.22	283.55
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	243.08	
<i>For 4 #12 THWN Conductor Instead Of THHN, Add</i>	4.40	
26 05 33 13-0006 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	905.25	252.37
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	216.35	
<i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	3.29	
26 05 33 13-0007 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,007.58	276.62
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	237.14	
<i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	4.94	
26 05 33 13-0008 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor.....	1,024.60	273.16
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	234.17	
<i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>	5.75	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0009	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....958.72 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 223.59 <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i> 2.20	958.72	260.88
26 05 33 13-0010	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,040.11 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 241.42 <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i> 3.30	1,040.11	281.67
26 05 33 13-0011	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,121.48 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 259.23	1,121.48	302.46
26 05 33 13-0012	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,202.85 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 277.05 <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i> 5.49	1,202.85	323.25
26 05 33 13-0013	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,010.50 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 232.50 <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i> 3.29	1,010.50	271.27
26 05 33 13-0014	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,112.83 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 253.30 <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i> 4.94	1,112.83	295.53
26 05 33 13-0015	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,215.15 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 274.09 <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i> 6.59	1,215.15	319.79
26 05 33 13-0016	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,317.47 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 294.88 <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i> 8.24	1,317.47	344.04
26 05 33 13-0017	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor .....1,276.42 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 277.05 <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i> 8.62	1,276.42	323.25
26 05 33 13-0018	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor .....1,423.01 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 303.79 <i>For 4 #8 THWN Conductor Instead Of THHN, Add</i> 11.49	1,423.01	354.44
26 05 33 13-0019	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor .....1,288.81 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 268.15 <i>For 2 #6 THWN Conductor Instead Of THHN, Add</i> 9.50	1,288.81	312.86
26 05 33 13-0020	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor .....1,492.73 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 300.82 <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i> 14.25	1,492.73	350.98
26 05 33 13-0021	CLF		1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,112.06 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 240.70 <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i> 2.20	1,112.06	280.78
26 05 33 13-0022	CLF		1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,193.44 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 258.52 <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i> 3.30	1,193.44	301.57



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0023 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	1,274.83 276.35	322.36
26 05 33 13-0024 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	1,356.21 294.17 5.49	343.15
26 05 33 13-0025 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,163.83 249.61 3.29	291.18
26 05 33 13-0026 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,266.16 270.40 4.94	315.43
26 05 33 13-0027 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,368.49 291.20 6.59	339.68
26 05 33 13-0028 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	1,470.80 311.98 8.24	363.94
26 05 33 13-0029 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	1,429.77 294.17 8.62	343.15
26 05 33 13-0030 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	1,646.08 317.93 14.25	370.87
26 05 33 13-0031 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #6 THWN Conductor Instead Of THHN, Add</i>	1,850.00 350.60 19.00	408.99
26 05 33 13-0032 Rigid Galvanized Steel (RGS) Conduit Assemblies <small>(26 05 33 13-0001)</small> Note: Includes conduit, field bends, terminations, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0240 for larger copper conductor, 26 05 33 13-0059 for larger RGS conduit.		
26 05 33 13-0033 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,168.10 236.07 2.20	275.43
26 05 33 13-0034 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,249.47 253.89 3.30	296.22
26 05 33 13-0035 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,219.87 244.98 3.29	285.83
26 05 33 13-0036 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,322.20 265.77 4.94	310.08
26 05 33 13-0037 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>	1,339.23 262.80 5.75	306.62

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0038	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,294.16 251.75 2.20	293.74
26 05 33	13-0039	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,375.55 269.57 3.30	314.54
26 05 33	13-0040	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	1,456.93 287.39	335.33
26 05 33	13-0041	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,345.95 260.66 3.29	304.14
26 05 33	13-0042	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,448.27 281.45 4.94	328.40
26 05 33	13-0043	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,550.59 302.24 6.59	352.65
26 05 33	13-0044	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	1,611.87 305.21 8.62	356.12
26 05 33	13-0045	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #8 THWN Conductor Instead Of THHN, Add</i>	1,758.45 331.94 11.49	387.31
26 05 33	13-0046	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #6 THWN Conductor Instead Of THHN, Add</i>	1,624.26 296.30 9.50	345.72
26 05 33	13-0047	CLF	3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	1,828.18 328.97 14.25	383.84
26 05 33	13-0048	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,691.98 300.67 3.30	350.78
26 05 33	13-0049	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	1,773.36 318.49	371.57
26 05 33	13-0050	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	1,854.74 336.31 5.49	392.35
26 05 33	13-0051	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,764.70 312.55 4.94	364.64
26 05 33	13-0052	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,867.03 333.34 6.59	388.89
26 05 33	13-0053	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	1,969.34 354.13 8.24	413.14
26 05 33	13-0054	CLF	1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	1,928.30 336.31 8.62	392.35



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0055 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor	2,144.62	420.07
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	360.07	
For 3 #6 THWN Conductor Instead Of THHN, Add	14.25	
26 05 33 13-0056 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor	2,348.54	458.19
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	392.74	
For 4 #6 THWN Conductor Instead Of THHN, Add	19.00	
26 05 33 13-0057 Conduit <small>(26 05 33 13)</small>		
Note: Where 4-1/2" conduit is required, use tasks for 5" conduit. Add couplings as required at each fitting.		
26 05 33 13-0058 Conduit Installed Above Grade <small>(26 05 33 13-0057)</small>		
See CSI section 26 05 29 00-0000 for supporting strap, hanger and fastening.		
26 05 33 13-0059 Rigid Galvanized Steel (RGS) Or Galvanized Rigid Steel Conduit (GRC) Conduit <small>(26 05 33 13-0059)</small>		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0060 Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling <small>(26 05 33 13-0059)</small>		
Note: Includes field bending for conduit up to 1".		
26 05 33 13-0061 LF 1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	8.49	2.18
For >250 To 500, Deduct	-0.15	
For >500 To 1,000, Deduct	-0.50	
For >1,000, Deduct	-0.71	
For Installation In Metal Stud Wall, Add	0.55	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.36	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.82	
For Work In Restricted Working Space, Add	1.64	
For Elevated Installation >10' To 15', Add	0.55	
For Elevated Installation >15' To 20', Add	1.09	
For Elevated Installation >20' To 25', Add	1.36	
For Elevated Installation >25' To 30', Add	1.91	
For Elevated Installation >30' To 35', Add	2.18	
For Elevated Installation >35' To 40', Add	2.73	
For Elevated Installation >40', Add	3.00	
26 05 33 13-0062 LF 3/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	10.09	2.38
For >250 To 500, Deduct	-0.19	
For >500 To 1,000, Deduct	-0.60	
For >1,000, Deduct	-0.85	
For Installation In Metal Stud Wall, Add	0.63	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.59	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.95	
For Work In Restricted Working Space, Add	1.90	
For Elevated Installation >10' To 15', Add	0.63	
For Elevated Installation >15' To 20', Add	1.27	
For Elevated Installation >20' To 25', Add	1.59	
For Elevated Installation >25' To 30', Add	2.22	
For Elevated Installation >30' To 35', Add	2.54	
For Elevated Installation >35' To 40', Add	3.17	
For Elevated Installation >40', Add	3.49	
26 05 33 13-0063 LF 1" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	14.31	2.77
For >250 To 500, Deduct	-0.29	
For >500 To 1,000, Deduct	-0.86	
For >1,000, Deduct	-1.22	
For Installation In Metal Stud Wall, Add	0.85	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.13	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.28	
For Work In Restricted Working Space, Add	2.55	
For Elevated Installation >10' To 15', Add	0.85	
For Elevated Installation >15' To 20', Add	1.70	
For Elevated Installation >20' To 25', Add	2.13	
For Elevated Installation >25' To 30', Add	2.98	
For Elevated Installation >30' To 35', Add	3.40	
For Elevated Installation >35' To 40', Add	4.26	
For Elevated Installation >40', Add	4.68	
26 05 33 13-0064 LF 1-1/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	16.74	3.17
For >250 To 500, Deduct	-0.39	
For >500 To 1,000, Deduct	-1.03	
For >1,000, Deduct	-1.45	
For Installation In Metal Stud Wall, Add	0.90	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.25	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.35	
For Work In Restricted Working Space, Add	2.70	
For Elevated Installation >10' To 15', Add	0.90	
For Elevated Installation >15' To 20', Add	1.80	
For Elevated Installation >20' To 25', Add	2.25	
For Elevated Installation >25' To 30', Add	3.15	
For Elevated Installation >30' To 35', Add	3.60	
For Elevated Installation >35' To 40', Add	4.51	
For Elevated Installation >40', Add	4.96	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0065 LF 1-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	19.36	3.56
For >250 To 500, Deduct	-0.47	
For >500 To 1,000, Deduct	-1.20	
For >1,000, Deduct	-1.69	
For Installation In Metal Stud Wall, Add	0.99	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.48	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.49	
For Work In Restricted Working Space, Add	2.97	
For Elevated Installation >10' To 15', Add	0.99	
For Elevated Installation >15' To 20', Add	1.98	
For Elevated Installation >20' To 25', Add	2.48	
For Elevated Installation >25' To 30', Add	3.47	
For Elevated Installation >30' To 35', Add	3.96	
For Elevated Installation >35' To 40', Add	4.95	
For Elevated Installation >40', Add	5.45	
26 05 33 13-0066 LF 2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	24.83	4.35
For >250 To 500, Deduct	-0.63	
For >500 To 1,000, Deduct	-1.56	
For >1,000, Deduct	-2.18	
For Installation In Metal Stud Wall, Add	1.22	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.04	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.83	
For Work In Restricted Working Space, Add	3.65	
For Elevated Installation >10' To 15', Add	1.22	
For Elevated Installation >15' To 20', Add	2.43	
For Elevated Installation >20' To 25', Add	3.04	
For Elevated Installation >25' To 30', Add	4.26	
For Elevated Installation >30' To 35', Add	4.87	
For Elevated Installation >35' To 40', Add	6.09	
For Elevated Installation >40', Add	6.69	
26 05 33 13-0067 LF 2-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	37.52	5.94
For >250 To 500, Deduct	-1.05	
For >500 To 1,000, Deduct	-2.40	
For >1,000, Deduct	-3.34	
For Installation In Metal Stud Wall, Add	1.65	
For Installation In Wood Stud Wall (Includes Drilling), Add	4.14	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.48	
For Work In Restricted Working Space, Add	4.96	
For Elevated Installation >10' To 15', Add	1.65	
For Elevated Installation >15' To 20', Add	3.31	
For Elevated Installation >20' To 25', Add	4.14	
For Elevated Installation >25' To 30', Add	5.79	
For Elevated Installation >30' To 35', Add	6.62	
For Elevated Installation >35' To 40', Add	8.27	
For Elevated Installation >40', Add	9.10	
26 05 33 13-0068 LF 3" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	48.96	7.92
For >250 To 500, Deduct	-1.33	
For >500 To 1,000, Deduct	-3.12	
For >1,000, Deduct	-4.34	
For Installation In Metal Stud Wall, Add	2.23	
For Installation In Wood Stud Wall (Includes Drilling), Add	5.57	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.34	
For Work In Restricted Working Space, Add	6.68	
For Elevated Installation >10' To 15', Add	2.23	
For Elevated Installation >15' To 20', Add	4.45	
For Elevated Installation >20' To 25', Add	5.57	
For Elevated Installation >25' To 30', Add	7.79	
For Elevated Installation >30' To 35', Add	8.91	
For Elevated Installation >35' To 40', Add	11.14	
For Elevated Installation >40', Add	12.25	
26 05 33 13-0069 LF 3-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	59.01	9.90
For >250 To 500, Deduct	-1.63	
For >500 To 1,000, Deduct	-3.76	
For >1,000, Deduct	-5.24	
For Installation In Metal Stud Wall, Add	2.64	
For Installation In Wood Stud Wall (Includes Drilling), Add	6.61	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.97	
For Work In Restricted Working Space, Add	7.93	
For Elevated Installation >10' To 15', Add	2.64	
For Elevated Installation >15' To 20', Add	5.29	
For Elevated Installation >20' To 25', Add	6.61	
For Elevated Installation >25' To 30', Add	9.25	
For Elevated Installation >30' To 35', Add	10.58	
For Elevated Installation >35' To 40', Add	13.22	
For Elevated Installation >40', Add	14.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0070 LF 4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	70.29	11.88
For >250 To 500, Deduct	-1.99	
For >500 To 1,000, Deduct	-4.51	
For >1,000, Deduct	-6.27	
For Installation In Metal Stud Wall, Add	3.05	
For Installation In Wood Stud Wall (Includes Drilling), Add	7.63	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	4.58	
For Work In Restricted Working Space, Add	9.15	
For Elevated Installation >10' To 15', Add	3.05	
For Elevated Installation >15' To 20', Add	6.10	
For Elevated Installation >20' To 25', Add	7.63	
For Elevated Installation >25' To 30', Add	10.68	
For Elevated Installation >30' To 35', Add	12.20	
For Elevated Installation >35' To 40', Add	15.25	
For Elevated Installation >40', Add	16.78	
26 05 33 13-0071 LF 5" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	114.44	15.05
For >250 To 500, Deduct	-3.84	
For >500 To 1,000, Deduct	-7.64	
For >1,000, Deduct	-10.50	
For Installation In Metal Stud Wall, Add	3.76	
For Installation In Wood Stud Wall (Includes Drilling), Add	9.41	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	5.64	
For Work In Restricted Working Space, Add	11.29	
For Elevated Installation >10' To 15', Add	3.76	
For Elevated Installation >15' To 20', Add	7.53	
For Elevated Installation >20' To 25', Add	9.41	
For Elevated Installation >25' To 30', Add	13.17	
For Elevated Installation >30' To 35', Add	15.05	
For Elevated Installation >35' To 40', Add	18.82	
For Elevated Installation >40', Add	20.70	
26 05 33 13-0072 LF 6" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	155.49	19.01
For >250 To 500, Deduct	-5.40	
For >500 To 1,000, Deduct	-10.47	
For >1,000, Deduct	-14.36	
For Installation In Metal Stud Wall, Add	4.75	
For Installation In Wood Stud Wall (Includes Drilling), Add	11.88	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	7.13	
For Work In Restricted Working Space, Add	14.26	
For Elevated Installation >10' To 15', Add	4.75	
For Elevated Installation >15' To 20', Add	9.51	
For Elevated Installation >20' To 25', Add	11.88	
For Elevated Installation >25' To 30', Add	16.64	
For Elevated Installation >30' To 35', Add	19.01	
For Elevated Installation >35' To 40', Add	23.77	
For Elevated Installation >40', Add	26.14	
26 05 33 13-0073 Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2437 for conduit field bending.		
26 05 33 13-0074 EA 2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	79.94	21.88
For Work In Restricted Working Space, Add	16.40	
For Elevated Installation >10' To 15', Add	5.47	
For Elevated Installation >15' To 20', Add	10.93	
For Elevated Installation >20' To 25', Add	13.66	
For Elevated Installation >25' To 30', Add	19.13	
For Elevated Installation >30' To 35', Add	21.86	
For Elevated Installation >35' To 40', Add	27.33	
For Elevated Installation >40', Add	30.06	
26 05 33 13-0075 EA 2-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	113.38	27.33
For Work In Restricted Working Space, Add	20.49	
For Elevated Installation >10' To 15', Add	6.83	
For Elevated Installation >15' To 20', Add	13.66	
For Elevated Installation >20' To 25', Add	17.08	
For Elevated Installation >25' To 30', Add	23.91	
For Elevated Installation >30' To 35', Add	27.32	
For Elevated Installation >35' To 40', Add	34.16	
For Elevated Installation >40', Add	37.57	
26 05 33 13-0076 EA 3" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	160.14	37.23
For Work In Restricted Working Space, Add	27.92	
For Elevated Installation >10' To 15', Add	9.31	
For Elevated Installation >15' To 20', Add	18.61	
For Elevated Installation >20' To 25', Add	23.26	
For Elevated Installation >25' To 30', Add	32.57	
For Elevated Installation >30' To 35', Add	37.22	
For Elevated Installation >35' To 40', Add	46.53	
For Elevated Installation >40', Add	51.18	
26 05 33 13-0077 EA 3-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	209.85	41.98
For Work In Restricted Working Space, Add	31.49	
For Elevated Installation >10' To 15', Add	10.50	
For Elevated Installation >15' To 20', Add	20.99	
For Elevated Installation >20' To 25', Add	26.24	
For Elevated Installation >25' To 30', Add	36.74	
For Elevated Installation >30' To 35', Add	41.98	
For Elevated Installation >35' To 40', Add	52.48	
For Elevated Installation >40', Add	57.73	

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26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0078 EA 4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	257.48	54.66
For Work In Restricted Working Space, Add	40.98	
For Elevated Installation >10' To 15', Add	13.66	
For Elevated Installation >15' To 20', Add	27.32	
For Elevated Installation >20' To 25', Add	34.15	
For Elevated Installation >25' To 30', Add	47.81	
For Elevated Installation >30' To 35', Add	54.64	
For Elevated Installation >35' To 40', Add	68.30	
For Elevated Installation >40', Add	75.13	
26 05 33 13-0079 EA 5" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	421.11	89.10
For Work In Restricted Working Space, Add	66.83	
For Elevated Installation >10' To 15', Add	22.28	
For Elevated Installation >15' To 20', Add	44.55	
For Elevated Installation >20' To 25', Add	55.69	
For Elevated Installation >25' To 30', Add	77.97	
For Elevated Installation >30' To 35', Add	89.11	
For Elevated Installation >35' To 40', Add	111.39	
For Elevated Installation >40', Add	122.52	
26 05 33 13-0080 EA 6" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	633.06	133.85
For Work In Restricted Working Space, Add	100.38	
For Elevated Installation >10' To 15', Add	33.46	
For Elevated Installation >15' To 20', Add	66.92	
For Elevated Installation >20' To 25', Add	83.65	
For Elevated Installation >25' To 30', Add	117.11	
For Elevated Installation >30' To 35', Add	133.84	
For Elevated Installation >35' To 40', Add	167.31	
For Elevated Installation >40', Add	184.04	
26 05 33 13-0081 Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2437 for conduit field bending.		
26 05 33 13-0082 EA 1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	29.02	9.80
For Work In Restricted Working Space, Add	7.37	
For Elevated Installation >10' To 15', Add	2.46	
For Elevated Installation >15' To 20', Add	4.92	
For Elevated Installation >20' To 25', Add	6.15	
For Elevated Installation >25' To 30', Add	8.60	
For Elevated Installation >30' To 35', Add	9.83	
For Elevated Installation >35' To 40', Add	12.29	
For Elevated Installation >40', Add	13.52	
26 05 33 13-0083 EA 3/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	36.42	12.17
For Work In Restricted Working Space, Add	9.17	
For Elevated Installation >10' To 15', Add	3.06	
For Elevated Installation >15' To 20', Add	6.11	
For Elevated Installation >20' To 25', Add	7.64	
For Elevated Installation >25' To 30', Add	10.70	
For Elevated Installation >30' To 35', Add	12.22	
For Elevated Installation >35' To 40', Add	15.28	
For Elevated Installation >40', Add	16.81	
26 05 33 13-0084 EA 1" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	46.29	14.95
For Work In Restricted Working Space, Add	11.18	
For Elevated Installation >10' To 15', Add	3.73	
For Elevated Installation >15' To 20', Add	7.45	
For Elevated Installation >20' To 25', Add	9.32	
For Elevated Installation >25' To 30', Add	13.04	
For Elevated Installation >30' To 35', Add	14.91	
For Elevated Installation >35' To 40', Add	18.64	
For Elevated Installation >40', Add	20.50	
26 05 33 13-0085 EA 1-1/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	58.70	17.33
For Work In Restricted Working Space, Add	12.98	
For Elevated Installation >10' To 15', Add	4.33	
For Elevated Installation >15' To 20', Add	8.66	
For Elevated Installation >20' To 25', Add	10.82	
For Elevated Installation >25' To 30', Add	15.15	
For Elevated Installation >30' To 35', Add	17.31	
For Elevated Installation >35' To 40', Add	21.64	
For Elevated Installation >40', Add	23.80	
26 05 33 13-0086 EA 1-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	68.07	19.90
For Work In Restricted Working Space, Add	14.90	
For Elevated Installation >10' To 15', Add	4.97	
For Elevated Installation >15' To 20', Add	9.93	
For Elevated Installation >20' To 25', Add	12.42	
For Elevated Installation >25' To 30', Add	17.38	
For Elevated Installation >30' To 35', Add	19.87	
For Elevated Installation >35' To 40', Add	24.84	
For Elevated Installation >40', Add	27.32	
26 05 33 13-0087 EA 2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	79.94	21.88
For Work In Restricted Working Space, Add	16.40	
For Elevated Installation >10' To 15', Add	5.47	
For Elevated Installation >15' To 20', Add	10.93	
For Elevated Installation >20' To 25', Add	13.66	
For Elevated Installation >25' To 30', Add	19.13	
For Elevated Installation >30' To 35', Add	21.86	
For Elevated Installation >35' To 40', Add	27.33	
For Elevated Installation >40', Add	30.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0088 EA 2-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	111.55	27.33
<i>For Work In Restricted Working Space, Add</i>	20.49	
<i>For Elevated Installation >10' To 15', Add</i>	6.83	
<i>For Elevated Installation >15' To 20', Add</i>	13.66	
<i>For Elevated Installation >20' To 25', Add</i>	17.08	
<i>For Elevated Installation >25' To 30', Add</i>	23.91	
<i>For Elevated Installation >30' To 35', Add</i>	27.32	
<i>For Elevated Installation >35' To 40', Add</i>	34.16	
<i>For Elevated Installation >40', Add</i>	37.57	
26 05 33 13-0089 EA 3" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	153.02	37.23
<i>For Work In Restricted Working Space, Add</i>	27.92	
<i>For Elevated Installation >10' To 15', Add</i>	9.31	
<i>For Elevated Installation >15' To 20', Add</i>	18.61	
<i>For Elevated Installation >20' To 25', Add</i>	23.26	
<i>For Elevated Installation >25' To 30', Add</i>	32.57	
<i>For Elevated Installation >30' To 35', Add</i>	37.22	
<i>For Elevated Installation >35' To 40', Add</i>	46.53	
<i>For Elevated Installation >40', Add</i>	51.18	
26 05 33 13-0090 EA 3-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	199.83	41.98
<i>For Work In Restricted Working Space, Add</i>	31.49	
<i>For Elevated Installation >10' To 15', Add</i>	10.50	
<i>For Elevated Installation >15' To 20', Add</i>	20.99	
<i>For Elevated Installation >20' To 25', Add</i>	26.24	
<i>For Elevated Installation >25' To 30', Add</i>	36.74	
<i>For Elevated Installation >30' To 35', Add</i>	41.98	
<i>For Elevated Installation >35' To 40', Add</i>	52.48	
<i>For Elevated Installation >40', Add</i>	57.73	
26 05 33 13-0091 EA 4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	244.15	54.66
<i>For Work In Restricted Working Space, Add</i>	40.98	
<i>For Elevated Installation >10' To 15', Add</i>	13.66	
<i>For Elevated Installation >15' To 20', Add</i>	27.32	
<i>For Elevated Installation >20' To 25', Add</i>	34.15	
<i>For Elevated Installation >25' To 30', Add</i>	47.81	
<i>For Elevated Installation >30' To 35', Add</i>	54.64	
<i>For Elevated Installation >35' To 40', Add</i>	68.30	
<i>For Elevated Installation >40', Add</i>	75.13	
26 05 33 13-0092 EA 5" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	421.11	89.10
<i>For Work In Restricted Working Space, Add</i>	66.83	
<i>For Elevated Installation >10' To 15', Add</i>	22.28	
<i>For Elevated Installation >15' To 20', Add</i>	44.55	
<i>For Elevated Installation >20' To 25', Add</i>	55.69	
<i>For Elevated Installation >25' To 30', Add</i>	77.97	
<i>For Elevated Installation >30' To 35', Add</i>	89.11	
<i>For Elevated Installation >35' To 40', Add</i>	111.39	
<i>For Elevated Installation >40', Add</i>	122.52	
26 05 33 13-0093 EA 6" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	633.06	133.85
<i>For Work In Restricted Working Space, Add</i>	100.38	
<i>For Elevated Installation >10' To 15', Add</i>	33.46	
<i>For Elevated Installation >15' To 20', Add</i>	66.92	
<i>For Elevated Installation >20' To 25', Add</i>	83.65	
<i>For Elevated Installation >25' To 30', Add</i>	117.11	
<i>For Elevated Installation >30' To 35', Add</i>	133.84	
<i>For Elevated Installation >35' To 40', Add</i>	167.31	
<i>For Elevated Installation >40', Add</i>	184.04	
26 05 33 13-0094 Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
<i>See CSI section 26 05 33 13-2437 for conduit field bending.</i>		
26 05 33 13-0095 EA 1" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	70.39	24.45
<i>For Work In Restricted Working Space, Add</i>	14.67	
<i>For Elevated Installation >10' To 15', Add</i>	4.89	
<i>For Elevated Installation >15' To 20', Add</i>	9.78	
<i>For Elevated Installation >20' To 25', Add</i>	12.23	
<i>For Elevated Installation >25' To 30', Add</i>	17.12	
<i>For Elevated Installation >30' To 35', Add</i>	19.56	
<i>For Elevated Installation >35' To 40', Add</i>	24.46	
<i>For Elevated Installation >40', Add</i>	26.90	
26 05 33 13-0096 EA 1-1/4" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	81.15	28.32
<i>For Work In Restricted Working Space, Add</i>	16.99	
<i>For Elevated Installation >10' To 15', Add</i>	5.66	
<i>For Elevated Installation >15' To 20', Add</i>	11.33	
<i>For Elevated Installation >20' To 25', Add</i>	14.16	
<i>For Elevated Installation >25' To 30', Add</i>	19.82	
<i>For Elevated Installation >30' To 35', Add</i>	22.65	
<i>For Elevated Installation >35' To 40', Add</i>	28.32	
<i>For Elevated Installation >40', Add</i>	31.15	
26 05 33 13-0097 EA 1-1/2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	93.72	32.18
<i>For Work In Restricted Working Space, Add</i>	19.31	
<i>For Elevated Installation >10' To 15', Add</i>	6.44	
<i>For Elevated Installation >15' To 20', Add</i>	12.87	
<i>For Elevated Installation >20' To 25', Add</i>	16.09	
<i>For Elevated Installation >25' To 30', Add</i>	22.52	
<i>For Elevated Installation >30' To 35', Add</i>	25.74	
<i>For Elevated Installation >35' To 40', Add</i>	32.18	
<i>For Elevated Installation >40', Add</i>	35.39	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0098	EA 2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	105.40 21.24 7.08 14.16 17.70 24.78 28.32 35.40 38.93	35.39
26 05 33 13-0099	Rigid Galvanized Steel (RGS) 15" Large Radius Elbow (26 05 33 13-0059) See CSI section 26 05 33 13-2437 for conduit field bending.		
26 05 33 13-0100	EA 1" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	75.96 14.67 4.89 9.78 12.23 17.12 19.56 24.46 26.90	24.45
26 05 33 13-0101	EA 1-1/4" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	88.31 16.99 5.66 11.33 14.16 19.82 22.65 28.32 31.15	28.32
26 05 33 13-0102	EA 1-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	96.98 19.31 6.44 12.87 16.09 22.52 25.74 32.18 35.39	32.18
26 05 33 13-0103	EA 2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	109.04 21.24 7.08 14.16 17.70 24.78 28.32 35.40 38.93	35.39
26 05 33 13-0104	EA 2-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	144.32 26.64 8.88 17.76 22.20 31.08 35.52 44.41 48.85	44.41
26 05 33 13-0105	EA 3" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	194.40 36.29 12.10 24.20 30.25 42.34 48.39 60.49 66.54	60.49
26 05 33 13-0106	Rigid Galvanized Steel (RGS) 18" Large Radius Elbow (26 05 33 13-0059) See CSI section 26 05 33 13-2437 for conduit field bending.		
26 05 33 13-0107	EA 1" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	76.22 14.67 4.89 9.78 12.23 17.12 19.56 24.46 26.90	24.45



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0108 EA 1-1/4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	87.60	28.32
<i>For Work In Restricted Working Space, Add</i>	16.99	
<i>For Elevated Installation >10' To 15', Add</i>	5.66	
<i>For Elevated Installation >15' To 20', Add</i>	11.33	
<i>For Elevated Installation >20' To 25', Add</i>	14.16	
<i>For Elevated Installation >25' To 30', Add</i>	19.82	
<i>For Elevated Installation >30' To 35', Add</i>	22.65	
<i>For Elevated Installation >35' To 40', Add</i>	28.32	
<i>For Elevated Installation >40', Add</i>	31.15	
26 05 33 13-0109 EA 1-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	100.51	32.18
<i>For Work In Restricted Working Space, Add</i>	19.31	
<i>For Elevated Installation >10' To 15', Add</i>	6.44	
<i>For Elevated Installation >15' To 20', Add</i>	12.87	
<i>For Elevated Installation >20' To 25', Add</i>	16.09	
<i>For Elevated Installation >25' To 30', Add</i>	22.52	
<i>For Elevated Installation >30' To 35', Add</i>	25.74	
<i>For Elevated Installation >35' To 40', Add</i>	32.18	
<i>For Elevated Installation >40', Add</i>	35.39	
26 05 33 13-0110 EA 2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	116.93	35.39
<i>For Work In Restricted Working Space, Add</i>	21.24	
<i>For Elevated Installation >10' To 15', Add</i>	7.08	
<i>For Elevated Installation >15' To 20', Add</i>	14.16	
<i>For Elevated Installation >20' To 25', Add</i>	17.70	
<i>For Elevated Installation >25' To 30', Add</i>	24.78	
<i>For Elevated Installation >30' To 35', Add</i>	28.32	
<i>For Elevated Installation >35' To 40', Add</i>	35.40	
<i>For Elevated Installation >40', Add</i>	38.93	
26 05 33 13-0111 EA 2-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	151.68	44.41
<i>For Work In Restricted Working Space, Add</i>	26.64	
<i>For Elevated Installation >10' To 15', Add</i>	8.88	
<i>For Elevated Installation >15' To 20', Add</i>	17.76	
<i>For Elevated Installation >20' To 25', Add</i>	22.20	
<i>For Elevated Installation >25' To 30', Add</i>	31.08	
<i>For Elevated Installation >30' To 35', Add</i>	35.52	
<i>For Elevated Installation >35' To 40', Add</i>	44.41	
<i>For Elevated Installation >40', Add</i>	48.85	
26 05 33 13-0112 EA 3" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	200.33	60.49
<i>For Work In Restricted Working Space, Add</i>	36.29	
<i>For Elevated Installation >10' To 15', Add</i>	12.10	
<i>For Elevated Installation >15' To 20', Add</i>	24.20	
<i>For Elevated Installation >20' To 25', Add</i>	30.25	
<i>For Elevated Installation >25' To 30', Add</i>	42.34	
<i>For Elevated Installation >30' To 35', Add</i>	48.39	
<i>For Elevated Installation >35' To 40', Add</i>	60.49	
<i>For Elevated Installation >40', Add</i>	66.54	
26 05 33 13-0113 EA 3-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	248.59	68.21
<i>For Work In Restricted Working Space, Add</i>	40.93	
<i>For Elevated Installation >10' To 15', Add</i>	13.64	
<i>For Elevated Installation >15' To 20', Add</i>	27.29	
<i>For Elevated Installation >20' To 25', Add</i>	34.11	
<i>For Elevated Installation >25' To 30', Add</i>	47.75	
<i>For Elevated Installation >30' To 35', Add</i>	54.57	
<i>For Elevated Installation >35' To 40', Add</i>	68.22	
<i>For Elevated Installation >40', Add</i>	75.04	
26 05 33 13-0114 EA 4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	302.94	88.81
<i>For Work In Restricted Working Space, Add</i>	53.28	
<i>For Elevated Installation >10' To 15', Add</i>	17.76	
<i>For Elevated Installation >15' To 20', Add</i>	35.52	
<i>For Elevated Installation >20' To 25', Add</i>	44.40	
<i>For Elevated Installation >25' To 30', Add</i>	62.16	
<i>For Elevated Installation >30' To 35', Add</i>	71.04	
<i>For Elevated Installation >35' To 40', Add</i>	88.81	
<i>For Elevated Installation >40', Add</i>	97.69	
26 05 33 13-0115 Rigid Galvanized Steel (RGS) 24" Large Radius Elbow		
<i>(26 05 33 13-0059)</i>		
<i>See CSI section 26 05 33 13-2437 for conduit field bending.</i>		
26 05 33 13-0116 EA 1" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	85.11	24.45
<i>For Work In Restricted Working Space, Add</i>	14.67	
<i>For Elevated Installation >10' To 15', Add</i>	4.89	
<i>For Elevated Installation >15' To 20', Add</i>	9.78	
<i>For Elevated Installation >20' To 25', Add</i>	12.23	
<i>For Elevated Installation >25' To 30', Add</i>	17.12	
<i>For Elevated Installation >30' To 35', Add</i>	19.56	
<i>For Elevated Installation >35' To 40', Add</i>	24.46	
<i>For Elevated Installation >40', Add</i>	26.90	
26 05 33 13-0117 EA 1-1/4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	96.32	28.32
<i>For Work In Restricted Working Space, Add</i>	16.99	
<i>For Elevated Installation >10' To 15', Add</i>	5.66	
<i>For Elevated Installation >15' To 20', Add</i>	11.33	
<i>For Elevated Installation >20' To 25', Add</i>	14.16	
<i>For Elevated Installation >25' To 30', Add</i>	19.82	
<i>For Elevated Installation >30' To 35', Add</i>	22.65	
<i>For Elevated Installation >35' To 40', Add</i>	28.32	
<i>For Elevated Installation >40', Add</i>	31.15	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0118 EA 1-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	107.04 19.31 6.44 12.87 16.09 22.52 25.74 32.18 35.39	32.18
26 05 33 13-0119 EA 2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	126.56 21.24 7.08 14.16 17.70 24.78 28.32 35.40 38.93	35.39
26 05 33 13-0120 EA 2-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	164.80 26.64 8.88 17.76 22.20 31.08 35.52 44.41 48.85	44.41
26 05 33 13-0121 EA 3" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	220.90 36.29 12.10 24.20 30.25 42.34 48.39 60.49 66.54	60.49
26 05 33 13-0122 EA 3-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	268.59 40.93 13.64 27.29 34.11 47.75 54.57 68.22 75.04	68.21
26 05 33 13-0123 EA 4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	318.88 53.28 17.76 35.52 44.40 62.16 71.04 88.81 97.69	88.81
26 05 33 13-0124 Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <small>(26 05 33 13-0059)</small> See CSI section 26 05 33 13-2437 for conduit field bending.		
26 05 33 13-0125 EA 1" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	84.57 14.67 4.89 9.78 12.23 17.12 19.56 24.46 26.90	24.45
26 05 33 13-0126 EA 1-1/4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	102.80 16.99 5.66 11.33 14.16 19.82 22.65 28.32 31.15	28.32
26 05 33 13-0127 EA 1-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	114.05 19.31 6.44 12.87 16.09 22.52 25.74 32.18 35.39	32.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0128 EA 2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	135.72	35.39
For Work In Restricted Working Space, Add	21.24	
For Elevated Installation >10' To 15', Add	7.08	
For Elevated Installation >15' To 20', Add	14.16	
For Elevated Installation >20' To 25', Add	17.70	
For Elevated Installation >25' To 30', Add	24.78	
For Elevated Installation >30' To 35', Add	28.32	
For Elevated Installation >35' To 40', Add	35.40	
For Elevated Installation >40', Add	38.93	
26 05 33 13-0129 EA 2-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	177.39	44.41
For Work In Restricted Working Space, Add	26.64	
For Elevated Installation >10' To 15', Add	8.88	
For Elevated Installation >15' To 20', Add	17.76	
For Elevated Installation >20' To 25', Add	22.20	
For Elevated Installation >25' To 30', Add	31.08	
For Elevated Installation >30' To 35', Add	35.52	
For Elevated Installation >35' To 40', Add	44.41	
For Elevated Installation >40', Add	48.85	
26 05 33 13-0130 EA 3" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	237.15	60.49
For Work In Restricted Working Space, Add	36.29	
For Elevated Installation >10' To 15', Add	12.10	
For Elevated Installation >15' To 20', Add	24.20	
For Elevated Installation >20' To 25', Add	30.25	
For Elevated Installation >25' To 30', Add	42.34	
For Elevated Installation >30' To 35', Add	48.39	
For Elevated Installation >35' To 40', Add	60.49	
For Elevated Installation >40', Add	66.54	
26 05 33 13-0131 EA 3-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	288.37	68.21
For Work In Restricted Working Space, Add	40.93	
For Elevated Installation >10' To 15', Add	13.64	
For Elevated Installation >15' To 20', Add	27.29	
For Elevated Installation >20' To 25', Add	34.11	
For Elevated Installation >25' To 30', Add	47.75	
For Elevated Installation >30' To 35', Add	54.57	
For Elevated Installation >35' To 40', Add	68.22	
For Elevated Installation >40', Add	75.04	
26 05 33 13-0132 EA 4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	348.15	88.81
For Work In Restricted Working Space, Add	53.28	
For Elevated Installation >10' To 15', Add	17.76	
For Elevated Installation >15' To 20', Add	35.52	
For Elevated Installation >20' To 25', Add	44.40	
For Elevated Installation >25' To 30', Add	62.16	
For Elevated Installation >30' To 35', Add	71.04	
For Elevated Installation >35' To 40', Add	88.81	
For Elevated Installation >40', Add	97.69	
26 05 33 13-0133 EA 5" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	508.64	144.79
For Work In Restricted Working Space, Add	86.88	
For Elevated Installation >10' To 15', Add	28.96	
For Elevated Installation >15' To 20', Add	57.92	
For Elevated Installation >20' To 25', Add	72.40	
For Elevated Installation >25' To 30', Add	101.36	
For Elevated Installation >30' To 35', Add	115.84	
For Elevated Installation >35' To 40', Add	144.80	
For Elevated Installation >40', Add	159.27	
26 05 33 13-0134 Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2437 for conduit field bending.		
26 05 33 13-0135 EA 1" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	89.31	24.45
For Work In Restricted Working Space, Add	14.67	
For Elevated Installation >10' To 15', Add	4.89	
For Elevated Installation >15' To 20', Add	9.78	
For Elevated Installation >20' To 25', Add	12.23	
For Elevated Installation >25' To 30', Add	17.12	
For Elevated Installation >30' To 35', Add	19.56	
For Elevated Installation >35' To 40', Add	24.46	
For Elevated Installation >40', Add	26.90	
26 05 33 13-0136 EA 1-1/4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	105.99	28.32
For Work In Restricted Working Space, Add	16.99	
For Elevated Installation >10' To 15', Add	5.66	
For Elevated Installation >15' To 20', Add	11.33	
For Elevated Installation >20' To 25', Add	14.16	
For Elevated Installation >25' To 30', Add	19.82	
For Elevated Installation >30' To 35', Add	22.65	
For Elevated Installation >35' To 40', Add	28.32	
For Elevated Installation >40', Add	31.15	
26 05 33 13-0137 EA 1-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	126.34	32.18
For Work In Restricted Working Space, Add	19.31	
For Elevated Installation >10' To 15', Add	6.44	
For Elevated Installation >15' To 20', Add	12.87	
For Elevated Installation >20' To 25', Add	16.09	
For Elevated Installation >25' To 30', Add	22.52	
For Elevated Installation >30' To 35', Add	25.74	
For Elevated Installation >35' To 40', Add	32.18	
For Elevated Installation >40', Add	35.39	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0138 EA 2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	142.88	35.39
For Work In Restricted Working Space, Add	21.24	
For Elevated Installation >10' To 15', Add	7.08	
For Elevated Installation >15' To 20', Add	14.16	
For Elevated Installation >20' To 25', Add	17.70	
For Elevated Installation >25' To 30', Add	24.78	
For Elevated Installation >30' To 35', Add	28.32	
For Elevated Installation >35' To 40', Add	35.40	
For Elevated Installation >40', Add	38.93	
26 05 33 13-0139 EA 2-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	192.32	44.41
For Work In Restricted Working Space, Add	26.64	
For Elevated Installation >10' To 15', Add	8.88	
For Elevated Installation >15' To 20', Add	17.76	
For Elevated Installation >20' To 25', Add	22.20	
For Elevated Installation >25' To 30', Add	31.08	
For Elevated Installation >30' To 35', Add	35.52	
For Elevated Installation >35' To 40', Add	44.41	
For Elevated Installation >40', Add	48.85	
26 05 33 13-0140 EA 3" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	251.04	60.49
For Work In Restricted Working Space, Add	36.29	
For Elevated Installation >10' To 15', Add	12.10	
For Elevated Installation >15' To 20', Add	24.20	
For Elevated Installation >20' To 25', Add	30.25	
For Elevated Installation >25' To 30', Add	42.34	
For Elevated Installation >30' To 35', Add	48.39	
For Elevated Installation >35' To 40', Add	60.49	
For Elevated Installation >40', Add	66.54	
26 05 33 13-0141 EA 3-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	313.90	68.21
For Work In Restricted Working Space, Add	40.93	
For Elevated Installation >10' To 15', Add	13.64	
For Elevated Installation >15' To 20', Add	27.29	
For Elevated Installation >20' To 25', Add	34.11	
For Elevated Installation >25' To 30', Add	47.75	
For Elevated Installation >30' To 35', Add	54.57	
For Elevated Installation >35' To 40', Add	68.22	
For Elevated Installation >40', Add	75.04	
26 05 33 13-0142 EA 4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	361.92	88.81
For Work In Restricted Working Space, Add	53.28	
For Elevated Installation >10' To 15', Add	17.76	
For Elevated Installation >15' To 20', Add	35.52	
For Elevated Installation >20' To 25', Add	44.40	
For Elevated Installation >25' To 30', Add	62.16	
For Elevated Installation >30' To 35', Add	71.04	
For Elevated Installation >35' To 40', Add	88.81	
For Elevated Installation >40', Add	97.69	
26 05 33 13-0143 EA 5" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	620.97	144.79
For Work In Restricted Working Space, Add	86.88	
For Elevated Installation >10' To 15', Add	28.96	
For Elevated Installation >15' To 20', Add	57.92	
For Elevated Installation >20' To 25', Add	72.40	
For Elevated Installation >25' To 30', Add	101.36	
For Elevated Installation >30' To 35', Add	115.84	
For Elevated Installation >35' To 40', Add	144.80	
For Elevated Installation >40', Add	159.27	
26 05 33 13-0144 EA 6" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	799.09	217.52
For Work In Restricted Working Space, Add	130.51	
For Elevated Installation >10' To 15', Add	43.50	
For Elevated Installation >15' To 20', Add	87.01	
For Elevated Installation >20' To 25', Add	108.76	
For Elevated Installation >25' To 30', Add	152.26	
For Elevated Installation >30' To 35', Add	174.01	
For Elevated Installation >35' To 40', Add	217.52	
For Elevated Installation >40', Add	239.27	
26 05 33 13-0145 Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2437 for conduit field bending.		
26 05 33 13-0146 EA 1" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	96.26	24.45
For Work In Restricted Working Space, Add	14.67	
For Elevated Installation >10' To 15', Add	4.89	
For Elevated Installation >15' To 20', Add	9.78	
For Elevated Installation >20' To 25', Add	12.23	
For Elevated Installation >25' To 30', Add	17.12	
For Elevated Installation >30' To 35', Add	19.56	
For Elevated Installation >35' To 40', Add	24.46	
For Elevated Installation >40', Add	26.90	
26 05 33 13-0147 EA 1-1/4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	114.48	28.32
For Work In Restricted Working Space, Add	16.99	
For Elevated Installation >10' To 15', Add	5.66	
For Elevated Installation >15' To 20', Add	11.33	
For Elevated Installation >20' To 25', Add	14.16	
For Elevated Installation >25' To 30', Add	19.82	
For Elevated Installation >30' To 35', Add	22.65	
For Elevated Installation >35' To 40', Add	28.32	
For Elevated Installation >40', Add	31.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0148 EA 1-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	135.37	32.18
<i>For Work In Restricted Working Space, Add</i>	19.31	
<i>For Elevated Installation >10' To 15', Add</i>	6.44	
<i>For Elevated Installation >15' To 20', Add</i>	12.87	
<i>For Elevated Installation >20' To 25', Add</i>	16.09	
<i>For Elevated Installation >25' To 30', Add</i>	22.52	
<i>For Elevated Installation >30' To 35', Add</i>	25.74	
<i>For Elevated Installation >35' To 40', Add</i>	32.18	
<i>For Elevated Installation >40', Add</i>	35.39	
26 05 33 13-0149 EA 2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	152.32	35.39
<i>For Work In Restricted Working Space, Add</i>	21.24	
<i>For Elevated Installation >10' To 15', Add</i>	7.08	
<i>For Elevated Installation >15' To 20', Add</i>	14.16	
<i>For Elevated Installation >20' To 25', Add</i>	17.70	
<i>For Elevated Installation >25' To 30', Add</i>	24.78	
<i>For Elevated Installation >30' To 35', Add</i>	28.32	
<i>For Elevated Installation >35' To 40', Add</i>	35.40	
<i>For Elevated Installation >40', Add</i>	38.93	
26 05 33 13-0150 EA 2-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	203.74	44.41
<i>For Work In Restricted Working Space, Add</i>	26.64	
<i>For Elevated Installation >10' To 15', Add</i>	8.88	
<i>For Elevated Installation >15' To 20', Add</i>	17.76	
<i>For Elevated Installation >20' To 25', Add</i>	22.20	
<i>For Elevated Installation >25' To 30', Add</i>	31.08	
<i>For Elevated Installation >30' To 35', Add</i>	35.52	
<i>For Elevated Installation >35' To 40', Add</i>	44.41	
<i>For Elevated Installation >40', Add</i>	48.85	
26 05 33 13-0151 EA 3" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	271.40	60.49
<i>For Work In Restricted Working Space, Add</i>	36.29	
<i>For Elevated Installation >10' To 15', Add</i>	12.10	
<i>For Elevated Installation >15' To 20', Add</i>	24.20	
<i>For Elevated Installation >20' To 25', Add</i>	30.25	
<i>For Elevated Installation >25' To 30', Add</i>	42.34	
<i>For Elevated Installation >30' To 35', Add</i>	48.39	
<i>For Elevated Installation >35' To 40', Add</i>	60.49	
<i>For Elevated Installation >40', Add</i>	66.54	
26 05 33 13-0152 EA 3-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	334.32	68.21
<i>For Work In Restricted Working Space, Add</i>	40.93	
<i>For Elevated Installation >10' To 15', Add</i>	13.64	
<i>For Elevated Installation >15' To 20', Add</i>	27.29	
<i>For Elevated Installation >20' To 25', Add</i>	34.11	
<i>For Elevated Installation >25' To 30', Add</i>	47.75	
<i>For Elevated Installation >30' To 35', Add</i>	54.57	
<i>For Elevated Installation >35' To 40', Add</i>	68.22	
<i>For Elevated Installation >40', Add</i>	75.04	
26 05 33 13-0153 EA 4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	420.66	88.81
<i>For Work In Restricted Working Space, Add</i>	53.28	
<i>For Elevated Installation >10' To 15', Add</i>	17.76	
<i>For Elevated Installation >15' To 20', Add</i>	35.52	
<i>For Elevated Installation >20' To 25', Add</i>	44.40	
<i>For Elevated Installation >25' To 30', Add</i>	62.16	
<i>For Elevated Installation >30' To 35', Add</i>	71.04	
<i>For Elevated Installation >35' To 40', Add</i>	88.81	
<i>For Elevated Installation >40', Add</i>	97.69	
26 05 33 13-0154 EA 5" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	702.00	144.79
<i>For Work In Restricted Working Space, Add</i>	86.88	
<i>For Elevated Installation >10' To 15', Add</i>	28.96	
<i>For Elevated Installation >15' To 20', Add</i>	57.92	
<i>For Elevated Installation >20' To 25', Add</i>	72.40	
<i>For Elevated Installation >25' To 30', Add</i>	101.36	
<i>For Elevated Installation >30' To 35', Add</i>	115.84	
<i>For Elevated Installation >35' To 40', Add</i>	144.80	
<i>For Elevated Installation >40', Add</i>	159.27	
26 05 33 13-0155 EA 6" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	869.26	217.52
<i>For Work In Restricted Working Space, Add</i>	130.51	
<i>For Elevated Installation >10' To 15', Add</i>	43.50	
<i>For Elevated Installation >15' To 20', Add</i>	87.01	
<i>For Elevated Installation >20' To 25', Add</i>	108.76	
<i>For Elevated Installation >25' To 30', Add</i>	152.26	
<i>For Elevated Installation >30' To 35', Add</i>	174.01	
<i>For Elevated Installation >35' To 40', Add</i>	217.52	
<i>For Elevated Installation >40', Add</i>	239.27	
26 05 33 13-0156 Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
<i>See CSI section 26 05 33 13-2437 for conduit field bending.</i>		
26 05 33 13-0157 EA 1" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	102.05	24.45
<i>For Work In Restricted Working Space, Add</i>	14.67	
<i>For Elevated Installation >10' To 15', Add</i>	4.89	
<i>For Elevated Installation >15' To 20', Add</i>	9.78	
<i>For Elevated Installation >20' To 25', Add</i>	12.23	
<i>For Elevated Installation >25' To 30', Add</i>	17.12	
<i>For Elevated Installation >30' To 35', Add</i>	19.56	
<i>For Elevated Installation >35' To 40', Add</i>	24.46	
<i>For Elevated Installation >40', Add</i>	26.90	

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26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0158 EA 1-1/4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	121.01	28.32
For Work In Restricted Working Space, Add	16.99	
For Elevated Installation >10' To 15', Add	5.66	
For Elevated Installation >15' To 20', Add	11.33	
For Elevated Installation >20' To 25', Add	14.16	
For Elevated Installation >25' To 30', Add	19.82	
For Elevated Installation >30' To 35', Add	22.65	
For Elevated Installation >35' To 40', Add	28.32	
For Elevated Installation >40', Add	31.15	
26 05 33 13-0159 EA 1-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	141.07	32.18
For Work In Restricted Working Space, Add	19.31	
For Elevated Installation >10' To 15', Add	6.44	
For Elevated Installation >15' To 20', Add	12.87	
For Elevated Installation >20' To 25', Add	16.09	
For Elevated Installation >25' To 30', Add	22.52	
For Elevated Installation >30' To 35', Add	25.74	
For Elevated Installation >35' To 40', Add	32.18	
For Elevated Installation >40', Add	35.39	
26 05 33 13-0160 EA 2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	169.94	35.39
For Work In Restricted Working Space, Add	21.24	
For Elevated Installation >10' To 15', Add	7.08	
For Elevated Installation >15' To 20', Add	14.16	
For Elevated Installation >20' To 25', Add	17.70	
For Elevated Installation >25' To 30', Add	24.78	
For Elevated Installation >30' To 35', Add	28.32	
For Elevated Installation >35' To 40', Add	35.40	
For Elevated Installation >40', Add	38.93	
26 05 33 13-0161 EA 2-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	224.80	44.41
For Work In Restricted Working Space, Add	26.64	
For Elevated Installation >10' To 15', Add	8.88	
For Elevated Installation >15' To 20', Add	17.76	
For Elevated Installation >20' To 25', Add	22.20	
For Elevated Installation >25' To 30', Add	31.08	
For Elevated Installation >30' To 35', Add	35.52	
For Elevated Installation >35' To 40', Add	44.41	
For Elevated Installation >40', Add	48.85	
26 05 33 13-0162 EA 3" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	291.91	60.49
For Work In Restricted Working Space, Add	36.29	
For Elevated Installation >10' To 15', Add	12.10	
For Elevated Installation >15' To 20', Add	24.20	
For Elevated Installation >20' To 25', Add	30.25	
For Elevated Installation >25' To 30', Add	42.34	
For Elevated Installation >30' To 35', Add	48.39	
For Elevated Installation >35' To 40', Add	60.49	
For Elevated Installation >40', Add	66.54	
26 05 33 13-0163 EA 3-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	359.98	68.21
For Work In Restricted Working Space, Add	40.93	
For Elevated Installation >10' To 15', Add	13.64	
For Elevated Installation >15' To 20', Add	27.29	
For Elevated Installation >20' To 25', Add	34.11	
For Elevated Installation >25' To 30', Add	47.75	
For Elevated Installation >30' To 35', Add	54.57	
For Elevated Installation >35' To 40', Add	68.22	
For Elevated Installation >40', Add	75.04	
26 05 33 13-0164 EA 4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	451.83	88.81
For Work In Restricted Working Space, Add	53.28	
For Elevated Installation >10' To 15', Add	17.76	
For Elevated Installation >15' To 20', Add	35.52	
For Elevated Installation >20' To 25', Add	44.40	
For Elevated Installation >25' To 30', Add	62.16	
For Elevated Installation >30' To 35', Add	71.04	
For Elevated Installation >35' To 40', Add	88.81	
For Elevated Installation >40', Add	97.69	
26 05 33 13-0165 EA 5" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	727.38	144.79
For Work In Restricted Working Space, Add	86.88	
For Elevated Installation >10' To 15', Add	28.96	
For Elevated Installation >15' To 20', Add	57.92	
For Elevated Installation >20' To 25', Add	72.40	
For Elevated Installation >25' To 30', Add	101.36	
For Elevated Installation >30' To 35', Add	115.84	
For Elevated Installation >35' To 40', Add	144.80	
For Elevated Installation >40', Add	159.27	
26 05 33 13-0166 EA 6" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	883.46	217.52
For Work In Restricted Working Space, Add	130.51	
For Elevated Installation >10' To 15', Add	43.50	
For Elevated Installation >15' To 20', Add	87.01	
For Elevated Installation >20' To 25', Add	108.76	
For Elevated Installation >25' To 30', Add	152.26	
For Elevated Installation >30' To 35', Add	174.01	
For Elevated Installation >35' To 40', Add	217.52	
For Elevated Installation >40', Add	239.27	

26 05 33 13-0167 Rigid Galvanized Steel (RGS) Plastic Insulating Bushing (26 05 33 13-0059)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0168 EA 1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	12.94	6.31
For Work In Restricted Working Space, Add	3.79	
For Elevated Installation >10' To 15', Add	1.26	
For Elevated Installation >15' To 20', Add	2.53	
For Elevated Installation >20' To 25', Add	3.16	
For Elevated Installation >25' To 30', Add	4.42	
For Elevated Installation >30' To 35', Add	5.05	
For Elevated Installation >35' To 40', Add	6.32	
For Elevated Installation >40', Add	6.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.79	
26 05 33 13-0169 EA 3/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	13.88	6.73
For Work In Restricted Working Space, Add	4.04	
For Elevated Installation >10' To 15', Add	1.35	
For Elevated Installation >15' To 20', Add	2.69	
For Elevated Installation >20' To 25', Add	3.37	
For Elevated Installation >25' To 30', Add	4.71	
For Elevated Installation >30' To 35', Add	5.39	
For Elevated Installation >35' To 40', Add	6.74	
For Elevated Installation >40', Add	7.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.04	
26 05 33 13-0170 EA 1" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	15.77	7.57
For Work In Restricted Working Space, Add	4.54	
For Elevated Installation >10' To 15', Add	1.51	
For Elevated Installation >15' To 20', Add	3.03	
For Elevated Installation >20' To 25', Add	3.79	
For Elevated Installation >25' To 30', Add	5.30	
For Elevated Installation >30' To 35', Add	6.06	
For Elevated Installation >35' To 40', Add	7.57	
For Elevated Installation >40', Add	8.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.54	
26 05 33 13-0171 EA 1-1/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	17.74	8.41
For Work In Restricted Working Space, Add	5.05	
For Elevated Installation >10' To 15', Add	1.68	
For Elevated Installation >15' To 20', Add	3.37	
For Elevated Installation >20' To 25', Add	4.21	
For Elevated Installation >25' To 30', Add	5.89	
For Elevated Installation >30' To 35', Add	6.73	
For Elevated Installation >35' To 40', Add	8.42	
For Elevated Installation >40', Add	9.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.05	
26 05 33 13-0172 EA 1-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	22.28	10.52
For Work In Restricted Working Space, Add	6.31	
For Elevated Installation >10' To 15', Add	2.10	
For Elevated Installation >15' To 20', Add	4.21	
For Elevated Installation >20' To 25', Add	5.26	
For Elevated Installation >25' To 30', Add	7.36	
For Elevated Installation >30' To 35', Add	8.42	
For Elevated Installation >35' To 40', Add	10.52	
For Elevated Installation >40', Add	11.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.31	
26 05 33 13-0173 EA 2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	27.54	12.63
For Work In Restricted Working Space, Add	7.57	
For Elevated Installation >10' To 15', Add	2.52	
For Elevated Installation >15' To 20', Add	5.05	
For Elevated Installation >20' To 25', Add	6.31	
For Elevated Installation >25' To 30', Add	8.83	
For Elevated Installation >30' To 35', Add	10.10	
For Elevated Installation >35' To 40', Add	12.62	
For Elevated Installation >40', Add	13.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.57	
26 05 33 13-0174 EA 2-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	34.54	14.73
For Work In Restricted Working Space, Add	8.84	
For Elevated Installation >10' To 15', Add	2.95	
For Elevated Installation >15' To 20', Add	5.89	
For Elevated Installation >20' To 25', Add	7.36	
For Elevated Installation >25' To 30', Add	10.31	
For Elevated Installation >30' To 35', Add	11.78	
For Elevated Installation >35' To 40', Add	14.73	
For Elevated Installation >40', Add	16.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.84	
26 05 33 13-0175 EA 3" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	39.04	16.83
For Work In Restricted Working Space, Add	10.10	
For Elevated Installation >10' To 15', Add	3.37	
For Elevated Installation >15' To 20', Add	6.73	
For Elevated Installation >20' To 25', Add	8.42	
For Elevated Installation >25' To 30', Add	11.78	
For Elevated Installation >30' To 35', Add	13.47	
For Elevated Installation >35' To 40', Add	16.84	
For Elevated Installation >40', Add	18.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.10	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0176	EA		3-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	45.33	15.84
			<i>For Work In Restricted Working Space, Add</i>	11.36	
			<i>For Elevated Installation >10' To 15', Add</i>	3.79	
			<i>For Elevated Installation >15' To 20', Add</i>	7.57	
			<i>For Elevated Installation >20' To 25', Add</i>	9.47	
			<i>For Elevated Installation >25' To 30', Add</i>	13.25	
			<i>For Elevated Installation >30' To 35', Add</i>	15.15	
			<i>For Elevated Installation >35' To 40', Add</i>	18.94	
			<i>For Elevated Installation >40', Add</i>	20.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.36	
26 05 33 13-0177	EA		4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	50.29	21.04
			<i>For Work In Restricted Working Space, Add</i>	12.62	
			<i>For Elevated Installation >10' To 15', Add</i>	4.21	
			<i>For Elevated Installation >15' To 20', Add</i>	8.42	
			<i>For Elevated Installation >20' To 25', Add</i>	10.52	
			<i>For Elevated Installation >25' To 30', Add</i>	14.73	
			<i>For Elevated Installation >30' To 35', Add</i>	16.83	
			<i>For Elevated Installation >35' To 40', Add</i>	21.04	
			<i>For Elevated Installation >40', Add</i>	23.14	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.62	
26 05 33 13-0178	EA		5" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	60.28	23.15
			<i>For Work In Restricted Working Space, Add</i>	13.88	
			<i>For Elevated Installation >10' To 15', Add</i>	4.63	
			<i>For Elevated Installation >15' To 20', Add</i>	9.26	
			<i>For Elevated Installation >20' To 25', Add</i>	11.57	
			<i>For Elevated Installation >25' To 30', Add</i>	16.20	
			<i>For Elevated Installation >30' To 35', Add</i>	18.51	
			<i>For Elevated Installation >35' To 40', Add</i>	23.14	
			<i>For Elevated Installation >40', Add</i>	25.45	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.88	
26 05 33 13-0179	EA		6" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....	85.94	25.24
			<i>For Work In Restricted Working Space, Add</i>	15.15	
			<i>For Elevated Installation >10' To 15', Add</i>	5.05	
			<i>For Elevated Installation >15' To 20', Add</i>	10.10	
			<i>For Elevated Installation >20' To 25', Add</i>	12.62	
			<i>For Elevated Installation >25' To 30', Add</i>	17.67	
			<i>For Elevated Installation >30' To 35', Add</i>	20.20	
			<i>For Elevated Installation >35' To 40', Add</i>	25.25	
			<i>For Elevated Installation >40', Add</i>	27.77	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.15	
26 05 33 13-0180			Rigid Galvanized Steel (RGS) Steel Bushing (26 05 33 13-0059)		
26 05 33 13-0181	EA		1/2" Rigid Galvanized Steel (RGS) Steel Bushing	15.63	7.42
			<i>For Work In Restricted Working Space, Add</i>	4.46	
			<i>For Elevated Installation >10' To 15', Add</i>	1.49	
			<i>For Elevated Installation >15' To 20', Add</i>	2.97	
			<i>For Elevated Installation >20' To 25', Add</i>	3.71	
			<i>For Elevated Installation >25' To 30', Add</i>	5.20	
			<i>For Elevated Installation >30' To 35', Add</i>	5.94	
			<i>For Elevated Installation >35' To 40', Add</i>	7.43	
			<i>For Elevated Installation >40', Add</i>	8.17	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	
26 05 33 13-0182	EA		3/4" Rigid Galvanized Steel (RGS) Steel Bushing	16.98	7.92
			<i>For Work In Restricted Working Space, Add</i>	4.75	
			<i>For Elevated Installation >10' To 15', Add</i>	1.58	
			<i>For Elevated Installation >15' To 20', Add</i>	3.17	
			<i>For Elevated Installation >20' To 25', Add</i>	3.96	
			<i>For Elevated Installation >25' To 30', Add</i>	5.54	
			<i>For Elevated Installation >30' To 35', Add</i>	6.34	
			<i>For Elevated Installation >35' To 40', Add</i>	7.92	
			<i>For Elevated Installation >40', Add</i>	8.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.75	
26 05 33 13-0183	EA		1" Rigid Galvanized Steel (RGS) Steel Bushing	19.79	8.92
			<i>For Work In Restricted Working Space, Add</i>	5.35	
			<i>For Elevated Installation >10' To 15', Add</i>	1.78	
			<i>For Elevated Installation >15' To 20', Add</i>	3.56	
			<i>For Elevated Installation >20' To 25', Add</i>	4.46	
			<i>For Elevated Installation >25' To 30', Add</i>	6.24	
			<i>For Elevated Installation >30' To 35', Add</i>	7.13	
			<i>For Elevated Installation >35' To 40', Add</i>	8.91	
			<i>For Elevated Installation >40', Add</i>	9.80	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.35	
26 05 33 13-0184	EA		1-1/4" Rigid Galvanized Steel (RGS) Steel Bushing	22.24	9.90
			<i>For Work In Restricted Working Space, Add</i>	5.94	
			<i>For Elevated Installation >10' To 15', Add</i>	1.98	
			<i>For Elevated Installation >15' To 20', Add</i>	3.96	
			<i>For Elevated Installation >20' To 25', Add</i>	4.95	
			<i>For Elevated Installation >25' To 30', Add</i>	6.93	
			<i>For Elevated Installation >30' To 35', Add</i>	7.92	
			<i>For Elevated Installation >35' To 40', Add</i>	9.90	
			<i>For Elevated Installation >40', Add</i>	10.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0185 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Bushing.....	28.36	12.38
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15', Add	2.48	
For Elevated Installation >15' To 20', Add	4.95	
For Elevated Installation >20' To 25', Add	6.19	
For Elevated Installation >25' To 30', Add	8.66	
For Elevated Installation >30' To 35', Add	9.90	
For Elevated Installation >35' To 40', Add	12.38	
For Elevated Installation >40', Add	13.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	
26 05 33 13-0186 EA 2" Rigid Galvanized Steel (RGS) Steel Bushing.....	33.58	14.85
For Work In Restricted Working Space, Add	8.91	
For Elevated Installation >10' To 15', Add	2.97	
For Elevated Installation >15' To 20', Add	5.94	
For Elevated Installation >20' To 25', Add	7.43	
For Elevated Installation >25' To 30', Add	10.40	
For Elevated Installation >30' To 35', Add	11.88	
For Elevated Installation >35' To 40', Add	14.85	
For Elevated Installation >40', Add	16.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.91	
26 05 33 13-0187 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Bushing.....	46.84	17.33
For Work In Restricted Working Space, Add	10.40	
For Elevated Installation >10' To 15', Add	3.47	
For Elevated Installation >15' To 20', Add	6.93	
For Elevated Installation >20' To 25', Add	8.66	
For Elevated Installation >25' To 30', Add	12.13	
For Elevated Installation >30' To 35', Add	13.86	
For Elevated Installation >35' To 40', Add	17.33	
For Elevated Installation >40', Add	19.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.40	
26 05 33 13-0188 EA 3" Rigid Galvanized Steel (RGS) Steel Bushing.....	55.59	19.80
For Work In Restricted Working Space, Add	11.88	
For Elevated Installation >10' To 15', Add	3.96	
For Elevated Installation >15' To 20', Add	7.92	
For Elevated Installation >20' To 25', Add	9.90	
For Elevated Installation >25' To 30', Add	13.86	
For Elevated Installation >30' To 35', Add	15.84	
For Elevated Installation >35' To 40', Add	19.80	
For Elevated Installation >40', Add	21.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.88	
26 05 33 13-0189 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Bushing.....	81.91	22.27
For Work In Restricted Working Space, Add	13.37	
For Elevated Installation >10' To 15', Add	4.46	
For Elevated Installation >15' To 20', Add	8.91	
For Elevated Installation >20' To 25', Add	11.14	
For Elevated Installation >25' To 30', Add	15.60	
For Elevated Installation >30' To 35', Add	17.82	
For Elevated Installation >35' To 40', Add	22.28	
For Elevated Installation >40', Add	24.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.37	
26 05 33 13-0190 EA 4" Rigid Galvanized Steel (RGS) Steel Bushing.....	110.07	24.75
For Work In Restricted Working Space, Add	14.85	
For Elevated Installation >10' To 15', Add	4.95	
For Elevated Installation >15' To 20', Add	9.90	
For Elevated Installation >20' To 25', Add	12.38	
For Elevated Installation >25' To 30', Add	17.33	
For Elevated Installation >30' To 35', Add	19.80	
For Elevated Installation >35' To 40', Add	24.75	
For Elevated Installation >40', Add	27.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.85	
26 05 33 13-0191 EA 5" Rigid Galvanized Steel (RGS) Steel Bushing.....	146.32	27.23
For Work In Restricted Working Space, Add	16.34	
For Elevated Installation >10' To 15', Add	5.45	
For Elevated Installation >15' To 20', Add	10.89	
For Elevated Installation >20' To 25', Add	13.61	
For Elevated Installation >25' To 30', Add	19.06	
For Elevated Installation >30' To 35', Add	21.78	
For Elevated Installation >35' To 40', Add	27.23	
For Elevated Installation >40', Add	29.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.34	
26 05 33 13-0192 EA 6" Rigid Galvanized Steel (RGS) Steel Bushing.....	214.46	29.70
For Work In Restricted Working Space, Add	17.82	
For Elevated Installation >10' To 15', Add	5.94	
For Elevated Installation >15' To 20', Add	11.88	
For Elevated Installation >20' To 25', Add	14.85	
For Elevated Installation >25' To 30', Add	20.79	
For Elevated Installation >30' To 35', Add	23.76	
For Elevated Installation >35' To 40', Add	29.70	
For Elevated Installation >40', Add	32.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.82	

26 05 33 13-0193 Rigid Galvanized Steel (RGS) Steel Insulated Bushing (26 05 33 13-0059)

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0194	EA	1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	16.55	7.42
			<i>For Work In Restricted Working Space, Add</i>	4.46	
			<i>For Elevated Installation >10' To 15', Add</i>	1.49	
			<i>For Elevated Installation >15' To 20', Add</i>	2.97	
			<i>For Elevated Installation >20' To 25', Add</i>	3.71	
			<i>For Elevated Installation >25' To 30', Add</i>	5.20	
			<i>For Elevated Installation >30' To 35', Add</i>	5.94	
			<i>For Elevated Installation >35' To 40', Add</i>	7.43	
			<i>For Elevated Installation >40', Add</i>	8.17	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	
26 05 33	13-0195	EA	3/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	18.36	7.92
			<i>For Work In Restricted Working Space, Add</i>	4.75	
			<i>For Elevated Installation >10' To 15', Add</i>	1.58	
			<i>For Elevated Installation >15' To 20', Add</i>	3.17	
			<i>For Elevated Installation >20' To 25', Add</i>	3.96	
			<i>For Elevated Installation >25' To 30', Add</i>	5.54	
			<i>For Elevated Installation >30' To 35', Add</i>	6.34	
			<i>For Elevated Installation >35' To 40', Add</i>	7.92	
			<i>For Elevated Installation >40', Add</i>	8.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.75	
26 05 33	13-0196	EA	1" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	21.54	8.92
			<i>For Work In Restricted Working Space, Add</i>	5.35	
			<i>For Elevated Installation >10' To 15', Add</i>	1.78	
			<i>For Elevated Installation >15' To 20', Add</i>	3.56	
			<i>For Elevated Installation >20' To 25', Add</i>	4.46	
			<i>For Elevated Installation >25' To 30', Add</i>	6.24	
			<i>For Elevated Installation >30' To 35', Add</i>	7.13	
			<i>For Elevated Installation >35' To 40', Add</i>	8.91	
			<i>For Elevated Installation >40', Add</i>	9.80	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.35	
26 05 33	13-0197	EA	1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	25.18	9.90
			<i>For Work In Restricted Working Space, Add</i>	5.94	
			<i>For Elevated Installation >10' To 15', Add</i>	1.98	
			<i>For Elevated Installation >15' To 20', Add</i>	3.96	
			<i>For Elevated Installation >20' To 25', Add</i>	4.95	
			<i>For Elevated Installation >25' To 30', Add</i>	6.93	
			<i>For Elevated Installation >30' To 35', Add</i>	7.92	
			<i>For Elevated Installation >35' To 40', Add</i>	9.90	
			<i>For Elevated Installation >40', Add</i>	10.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.94	
26 05 33	13-0198	EA	1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	31.42	12.38
			<i>For Work In Restricted Working Space, Add</i>	7.43	
			<i>For Elevated Installation >10' To 15', Add</i>	2.48	
			<i>For Elevated Installation >15' To 20', Add</i>	4.95	
			<i>For Elevated Installation >20' To 25', Add</i>	6.19	
			<i>For Elevated Installation >25' To 30', Add</i>	8.66	
			<i>For Elevated Installation >30' To 35', Add</i>	9.90	
			<i>For Elevated Installation >35' To 40', Add</i>	12.38	
			<i>For Elevated Installation >40', Add</i>	13.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.43	
26 05 33	13-0199	EA	2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	39.02	14.85
			<i>For Work In Restricted Working Space, Add</i>	8.91	
			<i>For Elevated Installation >10' To 15', Add</i>	2.97	
			<i>For Elevated Installation >15' To 20', Add</i>	5.94	
			<i>For Elevated Installation >20' To 25', Add</i>	7.43	
			<i>For Elevated Installation >25' To 30', Add</i>	10.40	
			<i>For Elevated Installation >30' To 35', Add</i>	11.88	
			<i>For Elevated Installation >35' To 40', Add</i>	14.85	
			<i>For Elevated Installation >40', Add</i>	16.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.91	
26 05 33	13-0200	EA	2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	54.21	17.33
			<i>For Work In Restricted Working Space, Add</i>	10.40	
			<i>For Elevated Installation >10' To 15', Add</i>	3.47	
			<i>For Elevated Installation >15' To 20', Add</i>	6.93	
			<i>For Elevated Installation >20' To 25', Add</i>	8.66	
			<i>For Elevated Installation >25' To 30', Add</i>	12.13	
			<i>For Elevated Installation >30' To 35', Add</i>	13.86	
			<i>For Elevated Installation >35' To 40', Add</i>	17.33	
			<i>For Elevated Installation >40', Add</i>	19.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.40	
26 05 33	13-0201	EA	3" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	64.24	19.80
			<i>For Work In Restricted Working Space, Add</i>	11.88	
			<i>For Elevated Installation >10' To 15', Add</i>	3.96	
			<i>For Elevated Installation >15' To 20', Add</i>	7.92	
			<i>For Elevated Installation >20' To 25', Add</i>	9.90	
			<i>For Elevated Installation >25' To 30', Add</i>	13.86	
			<i>For Elevated Installation >30' To 35', Add</i>	15.84	
			<i>For Elevated Installation >35' To 40', Add</i>	19.80	
			<i>For Elevated Installation >40', Add</i>	21.78	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0202 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	83.52	22.27
For Work In Restricted Working Space, Add	13.37	
For Elevated Installation >10' To 15', Add	4.46	
For Elevated Installation >15' To 20', Add	8.91	
For Elevated Installation >20' To 25', Add	11.14	
For Elevated Installation >25' To 30', Add	15.60	
For Elevated Installation >30' To 35', Add	17.82	
For Elevated Installation >35' To 40', Add	22.28	
For Elevated Installation >40', Add	24.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.37	
26 05 33 13-0203 EA 4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	117.28	24.75
For Work In Restricted Working Space, Add	14.85	
For Elevated Installation >10' To 15', Add	4.95	
For Elevated Installation >15' To 20', Add	9.90	
For Elevated Installation >20' To 25', Add	12.38	
For Elevated Installation >25' To 30', Add	17.33	
For Elevated Installation >30' To 35', Add	19.80	
For Elevated Installation >35' To 40', Add	24.75	
For Elevated Installation >40', Add	27.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.85	
26 05 33 13-0204 EA 5" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	154.17	27.23
For Work In Restricted Working Space, Add	16.34	
For Elevated Installation >10' To 15', Add	5.45	
For Elevated Installation >15' To 20', Add	10.89	
For Elevated Installation >20' To 25', Add	13.61	
For Elevated Installation >25' To 30', Add	19.06	
For Elevated Installation >30' To 35', Add	21.78	
For Elevated Installation >35' To 40', Add	27.23	
For Elevated Installation >40', Add	29.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.34	
26 05 33 13-0205 EA 6" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	217.23	29.70
For Work In Restricted Working Space, Add	17.82	
For Elevated Installation >10' To 15', Add	5.94	
For Elevated Installation >15' To 20', Add	11.88	
For Elevated Installation >20' To 25', Add	14.85	
For Elevated Installation >25' To 30', Add	20.79	
For Elevated Installation >30' To 35', Add	23.76	
For Elevated Installation >35' To 40', Add	29.70	
For Elevated Installation >40', Add	32.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.82	
26 05 33 13-0206 Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing (26 05 33 13-0059)		
26 05 33 13-0207 EA 1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	24.66	8.92
For Work In Restricted Working Space, Add	5.35	
For Elevated Installation >10' To 15', Add	1.78	
For Elevated Installation >15' To 20', Add	3.56	
For Elevated Installation >20' To 25', Add	4.46	
For Elevated Installation >25' To 30', Add	6.24	
For Elevated Installation >30' To 35', Add	7.13	
For Elevated Installation >35' To 40', Add	8.91	
For Elevated Installation >40', Add	9.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.35	
26 05 33 13-0208 EA 3/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	27.61	9.90
For Work In Restricted Working Space, Add	5.94	
For Elevated Installation >10' To 15', Add	1.98	
For Elevated Installation >15' To 20', Add	3.96	
For Elevated Installation >20' To 25', Add	4.95	
For Elevated Installation >25' To 30', Add	6.93	
For Elevated Installation >30' To 35', Add	7.92	
For Elevated Installation >35' To 40', Add	9.90	
For Elevated Installation >40', Add	10.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.94	
26 05 33 13-0209 EA 1" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	31.52	10.89
For Work In Restricted Working Space, Add	6.53	
For Elevated Installation >10' To 15', Add	2.18	
For Elevated Installation >15' To 20', Add	4.36	
For Elevated Installation >20' To 25', Add	5.45	
For Elevated Installation >25' To 30', Add	7.62	
For Elevated Installation >30' To 35', Add	8.71	
For Elevated Installation >35' To 40', Add	10.89	
For Elevated Installation >40', Add	11.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.53	
26 05 33 13-0210 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	37.36	12.38
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15', Add	2.48	
For Elevated Installation >15' To 20', Add	4.95	
For Elevated Installation >20' To 25', Add	6.19	
For Elevated Installation >25' To 30', Add	8.66	
For Elevated Installation >30' To 35', Add	9.90	
For Elevated Installation >35' To 40', Add	12.38	
For Elevated Installation >40', Add	13.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0211	EA		1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	45.24	15.34
			<i>For Work In Restricted Working Space, Add</i>	9.21	
			<i>For Elevated Installation >10' To 15', Add</i>	3.07	
			<i>For Elevated Installation >15' To 20', Add</i>	6.14	
			<i>For Elevated Installation >20' To 25', Add</i>	7.67	
			<i>For Elevated Installation >25' To 30', Add</i>	10.74	
			<i>For Elevated Installation >30' To 35', Add</i>	12.28	
			<i>For Elevated Installation >35' To 40', Add</i>	15.35	
			<i>For Elevated Installation >40', Add</i>	16.88	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.21	
26 05 33 13-0212	EA		2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	56.85	18.31
			<i>For Work In Restricted Working Space, Add</i>	10.99	
			<i>For Elevated Installation >10' To 15', Add</i>	3.66	
			<i>For Elevated Installation >15' To 20', Add</i>	7.33	
			<i>For Elevated Installation >20' To 25', Add</i>	9.16	
			<i>For Elevated Installation >25' To 30', Add</i>	12.82	
			<i>For Elevated Installation >30' To 35', Add</i>	14.65	
			<i>For Elevated Installation >35' To 40', Add</i>	18.32	
			<i>For Elevated Installation >40', Add</i>	20.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.99	
26 05 33 13-0213	EA		2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	75.59	21.29
			<i>For Work In Restricted Working Space, Add</i>	12.77	
			<i>For Elevated Installation >10' To 15', Add</i>	4.26	
			<i>For Elevated Installation >15' To 20', Add</i>	8.51	
			<i>For Elevated Installation >20' To 25', Add</i>	10.64	
			<i>For Elevated Installation >25' To 30', Add</i>	14.90	
			<i>For Elevated Installation >30' To 35', Add</i>	17.03	
			<i>For Elevated Installation >35' To 40', Add</i>	21.29	
			<i>For Elevated Installation >40', Add</i>	23.41	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.77	
26 05 33 13-0214	EA		3" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	83.57	24.75
			<i>For Work In Restricted Working Space, Add</i>	14.85	
			<i>For Elevated Installation >10' To 15', Add</i>	4.95	
			<i>For Elevated Installation >15' To 20', Add</i>	9.90	
			<i>For Elevated Installation >20' To 25', Add</i>	12.38	
			<i>For Elevated Installation >25' To 30', Add</i>	17.33	
			<i>For Elevated Installation >30' To 35', Add</i>	19.80	
			<i>For Elevated Installation >35' To 40', Add</i>	24.75	
			<i>For Elevated Installation >40', Add</i>	27.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.85	
26 05 33 13-0215	EA		3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	94.47	27.72
			<i>For Work In Restricted Working Space, Add</i>	16.64	
			<i>For Elevated Installation >10' To 15', Add</i>	5.55	
			<i>For Elevated Installation >15' To 20', Add</i>	11.09	
			<i>For Elevated Installation >20' To 25', Add</i>	13.86	
			<i>For Elevated Installation >25' To 30', Add</i>	19.41	
			<i>For Elevated Installation >30' To 35', Add</i>	22.18	
			<i>For Elevated Installation >35' To 40', Add</i>	27.73	
			<i>For Elevated Installation >40', Add</i>	30.50	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.64	
26 05 33 13-0216	EA		4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	121.10	30.69
			<i>For Work In Restricted Working Space, Add</i>	18.41	
			<i>For Elevated Installation >10' To 15', Add</i>	6.14	
			<i>For Elevated Installation >15' To 20', Add</i>	12.28	
			<i>For Elevated Installation >20' To 25', Add</i>	15.35	
			<i>For Elevated Installation >25' To 30', Add</i>	21.48	
			<i>For Elevated Installation >30' To 35', Add</i>	24.55	
			<i>For Elevated Installation >35' To 40', Add</i>	30.69	
			<i>For Elevated Installation >40', Add</i>	33.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.41	
26 05 33 13-0217	EA		5" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	170.12	33.67
			<i>For Work In Restricted Working Space, Add</i>	20.20	
			<i>For Elevated Installation >10' To 15', Add</i>	6.73	
			<i>For Elevated Installation >15' To 20', Add</i>	13.46	
			<i>For Elevated Installation >20' To 25', Add</i>	16.83	
			<i>For Elevated Installation >25' To 30', Add</i>	23.56	
			<i>For Elevated Installation >30' To 35', Add</i>	26.93	
			<i>For Elevated Installation >35' To 40', Add</i>	33.66	
			<i>For Elevated Installation >40', Add</i>	37.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.20	
26 05 33 13-0218	EA		6" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	232.71	37.13
			<i>For Work In Restricted Working Space, Add</i>	22.28	
			<i>For Elevated Installation >10' To 15', Add</i>	7.43	
			<i>For Elevated Installation >15' To 20', Add</i>	14.85	
			<i>For Elevated Installation >20' To 25', Add</i>	18.56	
			<i>For Elevated Installation >25' To 30', Add</i>	25.99	
			<i>For Elevated Installation >30' To 35', Add</i>	29.70	
			<i>For Elevated Installation >35' To 40', Add</i>	37.13	
			<i>For Elevated Installation >40', Add</i>	40.84	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.28	

26 05 33 13-0219 Rigid Galvanized Steel (RGS) Box Connectors With Set Screw (26 05 33 13-0059)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0220 EA 1/2" Rigid Galvanized Steel (RGS) Box Connector With Set Screw	16.17	4.55
For Work In Restricted Working Space, Add	3.39	
For Elevated Installation >10' To 15', Add	1.13	
For Elevated Installation >15' To 20', Add	2.26	
For Elevated Installation >20' To 25', Add	2.83	
For Elevated Installation >25' To 30', Add	3.96	
For Elevated Installation >30' To 35', Add	4.52	
For Elevated Installation >35' To 40', Add	5.65	
For Elevated Installation >40', Add	6.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.39	
26 05 33 13-0221 EA 3/4" Rigid Galvanized Steel (RGS) Box Connector With Set Screw	19.85	5.24
For Work In Restricted Working Space, Add	3.92	
For Elevated Installation >10' To 15', Add	1.31	
For Elevated Installation >15' To 20', Add	2.62	
For Elevated Installation >20' To 25', Add	3.27	
For Elevated Installation >25' To 30', Add	4.58	
For Elevated Installation >30' To 35', Add	5.23	
For Elevated Installation >35' To 40', Add	6.54	
For Elevated Installation >40', Add	7.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.92	
26 05 33 13-0222 EA 1" Rigid Galvanized Steel (RGS) Box Connector With Set Screw	26.56	6.34
For Work In Restricted Working Space, Add	4.73	
For Elevated Installation >10' To 15', Add	1.58	
For Elevated Installation >15' To 20', Add	3.15	
For Elevated Installation >20' To 25', Add	3.94	
For Elevated Installation >25' To 30', Add	5.52	
For Elevated Installation >30' To 35', Add	6.31	
For Elevated Installation >35' To 40', Add	7.89	
For Elevated Installation >40', Add	8.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.73	
26 05 33 13-0223 EA 1-1/4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	40.77	7.82
For Work In Restricted Working Space, Add	5.89	
For Elevated Installation >10' To 15', Add	1.96	
For Elevated Installation >15' To 20', Add	3.92	
For Elevated Installation >20' To 25', Add	4.91	
For Elevated Installation >25' To 30', Add	6.87	
For Elevated Installation >30' To 35', Add	7.85	
For Elevated Installation >35' To 40', Add	9.81	
For Elevated Installation >40', Add	10.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.89	
26 05 33 13-0224 EA 1-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	55.31	10.49
For Work In Restricted Working Space, Add	7.88	
For Elevated Installation >10' To 15', Add	2.63	
For Elevated Installation >15' To 20', Add	5.25	
For Elevated Installation >20' To 25', Add	6.57	
For Elevated Installation >25' To 30', Add	9.19	
For Elevated Installation >30' To 35', Add	10.50	
For Elevated Installation >35' To 40', Add	13.13	
For Elevated Installation >40', Add	14.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.88	
26 05 33 13-0225 EA 2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	96.29	15.74
For Work In Restricted Working Space, Add	11.80	
For Elevated Installation >10' To 15', Add	3.93	
For Elevated Installation >15' To 20', Add	7.87	
For Elevated Installation >20' To 25', Add	9.83	
For Elevated Installation >25' To 30', Add	13.77	
For Elevated Installation >30' To 35', Add	15.73	
For Elevated Installation >35' To 40', Add	19.67	
For Elevated Installation >40', Add	21.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.80	
26 05 33 13-0226 EA 2-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	184.53	17.43
For Work In Restricted Working Space, Add	13.07	
For Elevated Installation >10' To 15', Add	4.36	
For Elevated Installation >15' To 20', Add	8.71	
For Elevated Installation >20' To 25', Add	10.89	
For Elevated Installation >25' To 30', Add	15.25	
For Elevated Installation >30' To 35', Add	17.42	
For Elevated Installation >35' To 40', Add	21.78	
For Elevated Installation >40', Add	23.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.07	
26 05 33 13-0227 EA 3" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	219.62	21.09
For Work In Restricted Working Space, Add	15.83	
For Elevated Installation >10' To 15', Add	5.28	
For Elevated Installation >15' To 20', Add	10.55	
For Elevated Installation >20' To 25', Add	13.19	
For Elevated Installation >25' To 30', Add	18.47	
For Elevated Installation >30' To 35', Add	21.10	
For Elevated Installation >35' To 40', Add	26.38	
For Elevated Installation >40', Add	29.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.83	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0228	EA		3-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	299.08	26.44
			<i>For Work In Restricted Working Space, Add</i>	19.82	
			<i>For Elevated Installation >10' To 15', Add</i>	6.61	
			<i>For Elevated Installation >15' To 20', Add</i>	13.21	
			<i>For Elevated Installation >20' To 25', Add</i>	16.51	
			<i>For Elevated Installation >25' To 30', Add</i>	23.12	
			<i>For Elevated Installation >30' To 35', Add</i>	26.42	
			<i>For Elevated Installation >35' To 40', Add</i>	33.03	
			<i>For Elevated Installation >40', Add</i>	36.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.82	
26 05 33 13-0229	EA		4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	349.63	31.68
			<i>For Work In Restricted Working Space, Add</i>	23.76	
			<i>For Elevated Installation >10' To 15', Add</i>	7.92	
			<i>For Elevated Installation >15' To 20', Add</i>	15.84	
			<i>For Elevated Installation >20' To 25', Add</i>	19.80	
			<i>For Elevated Installation >25' To 30', Add</i>	27.72	
			<i>For Elevated Installation >30' To 35', Add</i>	31.68	
			<i>For Elevated Installation >35' To 40', Add</i>	39.60	
			<i>For Elevated Installation >40', Add</i>	43.56	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.76	
26 05 33 13-0230	EA		5" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	634.62	35.25
			<i>For Work In Restricted Working Space, Add</i>	26.40	
			<i>For Elevated Installation >10' To 15', Add</i>	8.80	
			<i>For Elevated Installation >15' To 20', Add</i>	17.60	
			<i>For Elevated Installation >20' To 25', Add</i>	22.00	
			<i>For Elevated Installation >25' To 30', Add</i>	30.80	
			<i>For Elevated Installation >30' To 35', Add</i>	35.20	
			<i>For Elevated Installation >35' To 40', Add</i>	44.01	
			<i>For Elevated Installation >40', Add</i>	48.41	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.40	
26 05 33 13-0231	EA		6" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	760.66	39.60
			<i>For Work In Restricted Working Space, Add</i>	29.69	
			<i>For Elevated Installation >10' To 15', Add</i>	9.90	
			<i>For Elevated Installation >15' To 20', Add</i>	19.80	
			<i>For Elevated Installation >20' To 25', Add</i>	24.75	
			<i>For Elevated Installation >25' To 30', Add</i>	34.64	
			<i>For Elevated Installation >30' To 35', Add</i>	39.59	
			<i>For Elevated Installation >35' To 40', Add</i>	49.49	
			<i>For Elevated Installation >40', Add</i>	54.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.69	
26 05 33 13-0232			Rigid Galvanized Steel (RGS) Nipples <small>(26 05 33 13-0059)</small>		
26 05 33 13-0233	EA		1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	14.63	6.44
			<i>For Work In Restricted Working Space, Add</i>	3.86	
			<i>For Elevated Installation >10' To 15', Add</i>	1.29	
			<i>For Elevated Installation >15' To 20', Add</i>	2.57	
			<i>For Elevated Installation >20' To 25', Add</i>	3.22	
			<i>For Elevated Installation >25' To 30', Add</i>	4.50	
			<i>For Elevated Installation >30' To 35', Add</i>	5.15	
			<i>For Elevated Installation >35' To 40', Add</i>	6.44	
			<i>For Elevated Installation >40', Add</i>	7.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.86	
26 05 33 13-0234	EA		3/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	16.83	7.42
			<i>For Work In Restricted Working Space, Add</i>	4.46	
			<i>For Elevated Installation >10' To 15', Add</i>	1.49	
			<i>For Elevated Installation >15' To 20', Add</i>	2.97	
			<i>For Elevated Installation >20' To 25', Add</i>	3.71	
			<i>For Elevated Installation >25' To 30', Add</i>	5.20	
			<i>For Elevated Installation >30' To 35', Add</i>	5.94	
			<i>For Elevated Installation >35' To 40', Add</i>	7.43	
			<i>For Elevated Installation >40', Add</i>	8.17	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	
26 05 33 13-0235	EA		1" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	21.57	9.41
			<i>For Work In Restricted Working Space, Add</i>	5.64	
			<i>For Elevated Installation >10' To 15', Add</i>	1.88	
			<i>For Elevated Installation >15' To 20', Add</i>	3.76	
			<i>For Elevated Installation >20' To 25', Add</i>	4.70	
			<i>For Elevated Installation >25' To 30', Add</i>	6.58	
			<i>For Elevated Installation >30' To 35', Add</i>	7.52	
			<i>For Elevated Installation >35' To 40', Add</i>	9.41	
			<i>For Elevated Installation >40', Add</i>	10.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.64	
26 05 33 13-0236	EA		1-1/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	25.29	10.89
			<i>For Work In Restricted Working Space, Add</i>	6.53	
			<i>For Elevated Installation >10' To 15', Add</i>	2.18	
			<i>For Elevated Installation >15' To 20', Add</i>	4.36	
			<i>For Elevated Installation >20' To 25', Add</i>	5.45	
			<i>For Elevated Installation >25' To 30', Add</i>	7.62	
			<i>For Elevated Installation >30' To 35', Add</i>	8.71	
			<i>For Elevated Installation >35' To 40', Add</i>	10.89	
			<i>For Elevated Installation >40', Add</i>	11.98	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0237 EA 1-1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	28.91	12.38
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15', Add	2.48	
For Elevated Installation >15' To 20', Add	4.95	
For Elevated Installation >20' To 25', Add	6.19	
For Elevated Installation >25' To 30', Add	8.66	
For Elevated Installation >30' To 35', Add	9.90	
For Elevated Installation >35' To 40', Add	12.38	
For Elevated Installation >40', Add	13.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	
26 05 33 13-0238 EA 1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	14.77	6.44
For Work In Restricted Working Space, Add	3.86	
For Elevated Installation >10' To 15', Add	1.29	
For Elevated Installation >15' To 20', Add	2.57	
For Elevated Installation >20' To 25', Add	3.22	
For Elevated Installation >25' To 30', Add	4.50	
For Elevated Installation >30' To 35', Add	5.15	
For Elevated Installation >35' To 40', Add	6.44	
For Elevated Installation >40', Add	7.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.86	
26 05 33 13-0239 EA 3/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	17.05	7.42
For Work In Restricted Working Space, Add	4.46	
For Elevated Installation >10' To 15', Add	1.49	
For Elevated Installation >15' To 20', Add	2.97	
For Elevated Installation >20' To 25', Add	3.71	
For Elevated Installation >25' To 30', Add	5.20	
For Elevated Installation >30' To 35', Add	5.94	
For Elevated Installation >35' To 40', Add	7.43	
For Elevated Installation >40', Add	8.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 05 33 13-0240 EA 1" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	21.81	9.41
For Work In Restricted Working Space, Add	5.64	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.76	
For Elevated Installation >20' To 25', Add	4.70	
For Elevated Installation >25' To 30', Add	6.58	
For Elevated Installation >30' To 35', Add	7.52	
For Elevated Installation >35' To 40', Add	9.41	
For Elevated Installation >40', Add	10.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.64	
26 05 33 13-0241 EA 1-1/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	25.63	10.89
For Work In Restricted Working Space, Add	6.53	
For Elevated Installation >10' To 15', Add	2.18	
For Elevated Installation >15' To 20', Add	4.36	
For Elevated Installation >20' To 25', Add	5.45	
For Elevated Installation >25' To 30', Add	7.62	
For Elevated Installation >30' To 35', Add	8.71	
For Elevated Installation >35' To 40', Add	10.89	
For Elevated Installation >40', Add	11.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.53	
26 05 33 13-0242 EA 1-1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	29.44	12.38
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15', Add	2.48	
For Elevated Installation >15' To 20', Add	4.95	
For Elevated Installation >20' To 25', Add	6.19	
For Elevated Installation >25' To 30', Add	8.66	
For Elevated Installation >30' To 35', Add	9.90	
For Elevated Installation >35' To 40', Add	12.38	
For Elevated Installation >40', Add	13.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	
26 05 33 13-0243 EA 2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	33.39	13.86
For Work In Restricted Working Space, Add	8.32	
For Elevated Installation >10' To 15', Add	2.77	
For Elevated Installation >15' To 20', Add	5.54	
For Elevated Installation >20' To 25', Add	6.93	
For Elevated Installation >25' To 30', Add	9.70	
For Elevated Installation >30' To 35', Add	11.09	
For Elevated Installation >35' To 40', Add	13.86	
For Elevated Installation >40', Add	15.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.32	
26 05 33 13-0244 EA 1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	14.92	6.44
For Work In Restricted Working Space, Add	3.86	
For Elevated Installation >10' To 15', Add	1.29	
For Elevated Installation >15' To 20', Add	2.57	
For Elevated Installation >20' To 25', Add	3.22	
For Elevated Installation >25' To 30', Add	4.50	
For Elevated Installation >30' To 35', Add	5.15	
For Elevated Installation >35' To 40', Add	6.44	
For Elevated Installation >40', Add	7.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.86	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0245	EA		3/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	17.25	7.42
			<i>For Work In Restricted Working Space, Add</i>	4.46	
			<i>For Elevated Installation >10' To 15', Add</i>	1.49	
			<i>For Elevated Installation >15' To 20', Add</i>	2.97	
			<i>For Elevated Installation >20' To 25', Add</i>	3.71	
			<i>For Elevated Installation >25' To 30', Add</i>	5.20	
			<i>For Elevated Installation >30' To 35', Add</i>	5.94	
			<i>For Elevated Installation >35' To 40', Add</i>	7.43	
			<i>For Elevated Installation >40', Add</i>	8.17	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	
26 05 33 13-0246	EA		1" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	22.15	9.41
			<i>For Work In Restricted Working Space, Add</i>	5.64	
			<i>For Elevated Installation >10' To 15', Add</i>	1.88	
			<i>For Elevated Installation >15' To 20', Add</i>	3.76	
			<i>For Elevated Installation >20' To 25', Add</i>	4.70	
			<i>For Elevated Installation >25' To 30', Add</i>	6.58	
			<i>For Elevated Installation >30' To 35', Add</i>	7.52	
			<i>For Elevated Installation >35' To 40', Add</i>	9.41	
			<i>For Elevated Installation >40', Add</i>	10.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.64	
26 05 33 13-0247	EA		1-1/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	25.92	10.89
			<i>For Work In Restricted Working Space, Add</i>	6.53	
			<i>For Elevated Installation >10' To 15', Add</i>	2.18	
			<i>For Elevated Installation >15' To 20', Add</i>	4.36	
			<i>For Elevated Installation >20' To 25', Add</i>	5.45	
			<i>For Elevated Installation >25' To 30', Add</i>	7.62	
			<i>For Elevated Installation >30' To 35', Add</i>	8.71	
			<i>For Elevated Installation >35' To 40', Add</i>	10.89	
			<i>For Elevated Installation >40', Add</i>	11.98	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.53	
26 05 33 13-0248	EA		1-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	29.80	12.38
			<i>For Work In Restricted Working Space, Add</i>	7.43	
			<i>For Elevated Installation >10' To 15', Add</i>	2.48	
			<i>For Elevated Installation >15' To 20', Add</i>	4.95	
			<i>For Elevated Installation >20' To 25', Add</i>	6.19	
			<i>For Elevated Installation >25' To 30', Add</i>	8.66	
			<i>For Elevated Installation >30' To 35', Add</i>	9.90	
			<i>For Elevated Installation >35' To 40', Add</i>	12.38	
			<i>For Elevated Installation >40', Add</i>	13.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.43	
26 05 33 13-0249	EA		2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	34.28	13.86
			<i>For Work In Restricted Working Space, Add</i>	8.32	
			<i>For Elevated Installation >10' To 15', Add</i>	2.77	
			<i>For Elevated Installation >15' To 20', Add</i>	5.54	
			<i>For Elevated Installation >20' To 25', Add</i>	6.93	
			<i>For Elevated Installation >25' To 30', Add</i>	9.70	
			<i>For Elevated Installation >30' To 35', Add</i>	11.09	
			<i>For Elevated Installation >35' To 40', Add</i>	13.86	
			<i>For Elevated Installation >40', Add</i>	15.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.32	
26 05 33 13-0250	EA		2-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	47.21	16.83
			<i>For Work In Restricted Working Space, Add</i>	10.10	
			<i>For Elevated Installation >10' To 15', Add</i>	3.37	
			<i>For Elevated Installation >15' To 20', Add</i>	6.73	
			<i>For Elevated Installation >20' To 25', Add</i>	8.42	
			<i>For Elevated Installation >25' To 30', Add</i>	11.78	
			<i>For Elevated Installation >30' To 35', Add</i>	13.46	
			<i>For Elevated Installation >35' To 40', Add</i>	16.83	
			<i>For Elevated Installation >40', Add</i>	18.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.10	
26 05 33 13-0251	EA		3" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	63.18	23.27
			<i>For Work In Restricted Working Space, Add</i>	13.96	
			<i>For Elevated Installation >10' To 15', Add</i>	4.65	
			<i>For Elevated Installation >15' To 20', Add</i>	9.31	
			<i>For Elevated Installation >20' To 25', Add</i>	11.63	
			<i>For Elevated Installation >25' To 30', Add</i>	16.29	
			<i>For Elevated Installation >30' To 35', Add</i>	18.61	
			<i>For Elevated Installation >35' To 40', Add</i>	23.27	
			<i>For Elevated Installation >40', Add</i>	25.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.96	
26 05 33 13-0252	EA		1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	15.12	6.44
			<i>For Work In Restricted Working Space, Add</i>	3.86	
			<i>For Elevated Installation >10' To 15', Add</i>	1.29	
			<i>For Elevated Installation >15' To 20', Add</i>	2.57	
			<i>For Elevated Installation >20' To 25', Add</i>	3.22	
			<i>For Elevated Installation >25' To 30', Add</i>	4.50	
			<i>For Elevated Installation >30' To 35', Add</i>	5.15	
			<i>For Elevated Installation >35' To 40', Add</i>	6.44	
			<i>For Elevated Installation >40', Add</i>	7.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0253 EA 3/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	17.35	7.42
<i>For Work In Restricted Working Space, Add</i>	4.46	
<i>For Elevated Installation >10' To 15', Add</i>	1.49	
<i>For Elevated Installation >15' To 20', Add</i>	2.97	
<i>For Elevated Installation >20' To 25', Add</i>	3.71	
<i>For Elevated Installation >25' To 30', Add</i>	5.20	
<i>For Elevated Installation >30' To 35', Add</i>	5.94	
<i>For Elevated Installation >35' To 40', Add</i>	7.43	
<i>For Elevated Installation >40', Add</i>	8.17	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	
26 05 33 13-0254 EA 1" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	22.60	9.41
<i>For Work In Restricted Working Space, Add</i>	5.64	
<i>For Elevated Installation >10' To 15', Add</i>	1.88	
<i>For Elevated Installation >15' To 20', Add</i>	3.76	
<i>For Elevated Installation >20' To 25', Add</i>	4.70	
<i>For Elevated Installation >25' To 30', Add</i>	6.58	
<i>For Elevated Installation >30' To 35', Add</i>	7.52	
<i>For Elevated Installation >35' To 40', Add</i>	9.41	
<i>For Elevated Installation >40', Add</i>	10.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.64	
26 05 33 13-0255 EA 1-1/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	26.49	10.89
<i>For Work In Restricted Working Space, Add</i>	6.53	
<i>For Elevated Installation >10' To 15', Add</i>	2.18	
<i>For Elevated Installation >15' To 20', Add</i>	4.36	
<i>For Elevated Installation >20' To 25', Add</i>	5.45	
<i>For Elevated Installation >25' To 30', Add</i>	7.62	
<i>For Elevated Installation >30' To 35', Add</i>	8.71	
<i>For Elevated Installation >35' To 40', Add</i>	10.89	
<i>For Elevated Installation >40', Add</i>	11.98	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.53	
26 05 33 13-0256 EA 1-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	30.56	12.38
<i>For Work In Restricted Working Space, Add</i>	7.43	
<i>For Elevated Installation >10' To 15', Add</i>	2.48	
<i>For Elevated Installation >15' To 20', Add</i>	4.95	
<i>For Elevated Installation >20' To 25', Add</i>	6.19	
<i>For Elevated Installation >25' To 30', Add</i>	8.66	
<i>For Elevated Installation >30' To 35', Add</i>	9.90	
<i>For Elevated Installation >35' To 40', Add</i>	12.38	
<i>For Elevated Installation >40', Add</i>	13.61	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.43	
26 05 33 13-0257 EA 2" x 3-1/2" Long, Rigid Galvanized Steel (RGS), Nipple.....	35.19	13.86
<i>For Work In Restricted Working Space, Add</i>	8.32	
<i>For Elevated Installation >10' To 15', Add</i>	2.77	
<i>For Elevated Installation >15' To 20', Add</i>	5.54	
<i>For Elevated Installation >20' To 25', Add</i>	6.93	
<i>For Elevated Installation >25' To 30', Add</i>	9.70	
<i>For Elevated Installation >30' To 35', Add</i>	11.09	
<i>For Elevated Installation >35' To 40', Add</i>	13.86	
<i>For Elevated Installation >40', Add</i>	15.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.32	
26 05 33 13-0258 EA 2-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	49.67	16.83
<i>For Work In Restricted Working Space, Add</i>	10.10	
<i>For Elevated Installation >10' To 15', Add</i>	3.37	
<i>For Elevated Installation >15' To 20', Add</i>	6.73	
<i>For Elevated Installation >20' To 25', Add</i>	8.42	
<i>For Elevated Installation >25' To 30', Add</i>	11.78	
<i>For Elevated Installation >30' To 35', Add</i>	13.46	
<i>For Elevated Installation >35' To 40', Add</i>	16.83	
<i>For Elevated Installation >40', Add</i>	18.51	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.10	
26 05 33 13-0259 EA 3" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	65.32	23.27
<i>For Work In Restricted Working Space, Add</i>	13.96	
<i>For Elevated Installation >10' To 15', Add</i>	4.65	
<i>For Elevated Installation >15' To 20', Add</i>	9.31	
<i>For Elevated Installation >20' To 25', Add</i>	11.63	
<i>For Elevated Installation >25' To 30', Add</i>	16.29	
<i>For Elevated Installation >30' To 35', Add</i>	18.61	
<i>For Elevated Installation >35' To 40', Add</i>	23.27	
<i>For Elevated Installation >40', Add</i>	25.59	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.96	
26 05 33 13-0260 EA 1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	15.31	6.44
<i>For Work In Restricted Working Space, Add</i>	3.86	
<i>For Elevated Installation >10' To 15', Add</i>	1.29	
<i>For Elevated Installation >15' To 20', Add</i>	2.57	
<i>For Elevated Installation >20' To 25', Add</i>	3.22	
<i>For Elevated Installation >25' To 30', Add</i>	4.50	
<i>For Elevated Installation >30' To 35', Add</i>	5.15	
<i>For Elevated Installation >35' To 40', Add</i>	6.44	
<i>For Elevated Installation >40', Add</i>	7.08	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.86	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0261	EA		3/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	17.69	7.42
			<i>For Work In Restricted Working Space, Add</i>	4.46	
			<i>For Elevated Installation >10' To 15', Add</i>	1.49	
			<i>For Elevated Installation >15' To 20', Add</i>	2.97	
			<i>For Elevated Installation >20' To 25', Add</i>	3.71	
			<i>For Elevated Installation >25' To 30', Add</i>	5.20	
			<i>For Elevated Installation >30' To 35', Add</i>	5.94	
			<i>For Elevated Installation >35' To 40', Add</i>	7.43	
			<i>For Elevated Installation >40', Add</i>	8.17	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	
26 05 33 13-0262	EA		1" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	22.88	9.41
			<i>For Work In Restricted Working Space, Add</i>	5.64	
			<i>For Elevated Installation >10' To 15', Add</i>	1.88	
			<i>For Elevated Installation >15' To 20', Add</i>	3.76	
			<i>For Elevated Installation >20' To 25', Add</i>	4.70	
			<i>For Elevated Installation >25' To 30', Add</i>	6.58	
			<i>For Elevated Installation >30' To 35', Add</i>	7.52	
			<i>For Elevated Installation >35' To 40', Add</i>	9.41	
			<i>For Elevated Installation >40', Add</i>	10.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.64	
26 05 33 13-0263	EA		1-1/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	26.77	10.89
			<i>For Work In Restricted Working Space, Add</i>	6.53	
			<i>For Elevated Installation >10' To 15', Add</i>	2.18	
			<i>For Elevated Installation >15' To 20', Add</i>	4.36	
			<i>For Elevated Installation >20' To 25', Add</i>	5.45	
			<i>For Elevated Installation >25' To 30', Add</i>	7.62	
			<i>For Elevated Installation >30' To 35', Add</i>	8.71	
			<i>For Elevated Installation >35' To 40', Add</i>	10.89	
			<i>For Elevated Installation >40', Add</i>	11.98	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.53	
26 05 33 13-0264	EA		1-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	31.07	12.38
			<i>For Work In Restricted Working Space, Add</i>	7.43	
			<i>For Elevated Installation >10' To 15', Add</i>	2.48	
			<i>For Elevated Installation >15' To 20', Add</i>	4.95	
			<i>For Elevated Installation >20' To 25', Add</i>	6.19	
			<i>For Elevated Installation >25' To 30', Add</i>	8.66	
			<i>For Elevated Installation >30' To 35', Add</i>	9.90	
			<i>For Elevated Installation >35' To 40', Add</i>	12.38	
			<i>For Elevated Installation >40', Add</i>	13.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.43	
26 05 33 13-0265	EA		2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	35.97	13.86
			<i>For Work In Restricted Working Space, Add</i>	8.32	
			<i>For Elevated Installation >10' To 15', Add</i>	2.77	
			<i>For Elevated Installation >15' To 20', Add</i>	5.54	
			<i>For Elevated Installation >20' To 25', Add</i>	6.93	
			<i>For Elevated Installation >25' To 30', Add</i>	9.70	
			<i>For Elevated Installation >30' To 35', Add</i>	11.09	
			<i>For Elevated Installation >35' To 40', Add</i>	13.86	
			<i>For Elevated Installation >40', Add</i>	15.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.32	
26 05 33 13-0266	EA		2-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	50.43	16.83
			<i>For Work In Restricted Working Space, Add</i>	10.10	
			<i>For Elevated Installation >10' To 15', Add</i>	3.37	
			<i>For Elevated Installation >15' To 20', Add</i>	6.73	
			<i>For Elevated Installation >20' To 25', Add</i>	8.42	
			<i>For Elevated Installation >25' To 30', Add</i>	11.78	
			<i>For Elevated Installation >30' To 35', Add</i>	13.46	
			<i>For Elevated Installation >35' To 40', Add</i>	16.83	
			<i>For Elevated Installation >40', Add</i>	18.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.10	
26 05 33 13-0267	EA		3" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	66.90	23.27
			<i>For Work In Restricted Working Space, Add</i>	13.96	
			<i>For Elevated Installation >10' To 15', Add</i>	4.65	
			<i>For Elevated Installation >15' To 20', Add</i>	9.31	
			<i>For Elevated Installation >20' To 25', Add</i>	11.63	
			<i>For Elevated Installation >25' To 30', Add</i>	16.29	
			<i>For Elevated Installation >30' To 35', Add</i>	18.61	
			<i>For Elevated Installation >35' To 40', Add</i>	23.27	
			<i>For Elevated Installation >40', Add</i>	25.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.96	
26 05 33 13-0268	EA		3-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	77.26	26.23
			<i>For Work In Restricted Working Space, Add</i>	15.74	
			<i>For Elevated Installation >10' To 15', Add</i>	5.25	
			<i>For Elevated Installation >15' To 20', Add</i>	10.49	
			<i>For Elevated Installation >20' To 25', Add</i>	13.12	
			<i>For Elevated Installation >25' To 30', Add</i>	18.36	
			<i>For Elevated Installation >30' To 35', Add</i>	20.99	
			<i>For Elevated Installation >35' To 40', Add</i>	26.24	
			<i>For Elevated Installation >40', Add</i>	28.86	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0269 EA 4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	96.13	34.16
For Work In Restricted Working Space, Add	20.49	
For Elevated Installation >10' To 15', Add	6.83	
For Elevated Installation >15' To 20', Add	13.66	
For Elevated Installation >20' To 25', Add	17.08	
For Elevated Installation >25' To 30', Add	23.91	
For Elevated Installation >30' To 35', Add	27.32	
For Elevated Installation >35' To 40', Add	34.15	
For Elevated Installation >40', Add	37.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.49	
26 05 33 13-0270 EA 1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	15.60	6.44
For Work In Restricted Working Space, Add	3.86	
For Elevated Installation >10' To 15', Add	1.29	
For Elevated Installation >15' To 20', Add	2.57	
For Elevated Installation >20' To 25', Add	3.22	
For Elevated Installation >25' To 30', Add	4.50	
For Elevated Installation >30' To 35', Add	5.15	
For Elevated Installation >35' To 40', Add	6.44	
For Elevated Installation >40', Add	7.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.86	
26 05 33 13-0271 EA 3/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	18.11	7.42
For Work In Restricted Working Space, Add	4.46	
For Elevated Installation >10' To 15', Add	1.49	
For Elevated Installation >15' To 20', Add	2.97	
For Elevated Installation >20' To 25', Add	3.71	
For Elevated Installation >25' To 30', Add	5.20	
For Elevated Installation >30' To 35', Add	5.94	
For Elevated Installation >35' To 40', Add	7.43	
For Elevated Installation >40', Add	8.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 05 33 13-0272 EA 1" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	23.42	9.41
For Work In Restricted Working Space, Add	5.64	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.76	
For Elevated Installation >20' To 25', Add	4.70	
For Elevated Installation >25' To 30', Add	6.58	
For Elevated Installation >30' To 35', Add	7.52	
For Elevated Installation >35' To 40', Add	9.41	
For Elevated Installation >40', Add	10.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.64	
26 05 33 13-0273 EA 1-1/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	27.56	10.89
For Work In Restricted Working Space, Add	6.53	
For Elevated Installation >10' To 15', Add	2.18	
For Elevated Installation >15' To 20', Add	4.36	
For Elevated Installation >20' To 25', Add	5.45	
For Elevated Installation >25' To 30', Add	7.62	
For Elevated Installation >30' To 35', Add	8.71	
For Elevated Installation >35' To 40', Add	10.89	
For Elevated Installation >40', Add	11.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.53	
26 05 33 13-0274 EA 1-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	31.84	12.38
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15', Add	2.48	
For Elevated Installation >15' To 20', Add	4.95	
For Elevated Installation >20' To 25', Add	6.19	
For Elevated Installation >25' To 30', Add	8.66	
For Elevated Installation >30' To 35', Add	9.90	
For Elevated Installation >35' To 40', Add	12.38	
For Elevated Installation >40', Add	13.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	
26 05 33 13-0275 EA 2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	37.34	13.86
For Work In Restricted Working Space, Add	8.32	
For Elevated Installation >10' To 15', Add	2.77	
For Elevated Installation >15' To 20', Add	5.54	
For Elevated Installation >20' To 25', Add	6.93	
For Elevated Installation >25' To 30', Add	9.70	
For Elevated Installation >30' To 35', Add	11.09	
For Elevated Installation >35' To 40', Add	13.86	
For Elevated Installation >40', Add	15.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.32	
26 05 33 13-0276 EA 2-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	53.48	16.83
For Work In Restricted Working Space, Add	10.10	
For Elevated Installation >10' To 15', Add	3.37	
For Elevated Installation >15' To 20', Add	6.73	
For Elevated Installation >20' To 25', Add	8.42	
For Elevated Installation >25' To 30', Add	11.78	
For Elevated Installation >30' To 35', Add	13.46	
For Elevated Installation >35' To 40', Add	16.83	
For Elevated Installation >40', Add	18.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.10	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0277	EA	3" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	70.21	23.27
			<i>For Work In Restricted Working Space, Add</i>	13.96	
			<i>For Elevated Installation >10' To 15', Add</i>	4.65	
			<i>For Elevated Installation >15' To 20', Add</i>	9.31	
			<i>For Elevated Installation >20' To 25', Add</i>	11.63	
			<i>For Elevated Installation >25' To 30', Add</i>	16.29	
			<i>For Elevated Installation >30' To 35', Add</i>	18.61	
			<i>For Elevated Installation >35' To 40', Add</i>	23.27	
			<i>For Elevated Installation >40', Add</i>	25.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.96	
26 05 33	13-0278	EA	3-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	80.55	26.23
			<i>For Work In Restricted Working Space, Add</i>	15.74	
			<i>For Elevated Installation >10' To 15', Add</i>	5.25	
			<i>For Elevated Installation >15' To 20', Add</i>	10.49	
			<i>For Elevated Installation >20' To 25', Add</i>	13.12	
			<i>For Elevated Installation >25' To 30', Add</i>	18.36	
			<i>For Elevated Installation >30' To 35', Add</i>	20.99	
			<i>For Elevated Installation >35' To 40', Add</i>	26.24	
			<i>For Elevated Installation >40', Add</i>	28.86	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.74	
26 05 33	13-0279	EA	4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	100.94	34.16
			<i>For Work In Restricted Working Space, Add</i>	20.49	
			<i>For Elevated Installation >10' To 15', Add</i>	6.83	
			<i>For Elevated Installation >15' To 20', Add</i>	13.66	
			<i>For Elevated Installation >20' To 25', Add</i>	17.08	
			<i>For Elevated Installation >25' To 30', Add</i>	23.91	
			<i>For Elevated Installation >30' To 35', Add</i>	27.32	
			<i>For Elevated Installation >35' To 40', Add</i>	34.15	
			<i>For Elevated Installation >40', Add</i>	37.57	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.49	
26 05 33	13-0280	EA	5" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	157.40	47.02
			<i>For Work In Restricted Working Space, Add</i>	28.22	
			<i>For Elevated Installation >10' To 15', Add</i>	9.41	
			<i>For Elevated Installation >15' To 20', Add</i>	18.81	
			<i>For Elevated Installation >20' To 25', Add</i>	23.51	
			<i>For Elevated Installation >25' To 30', Add</i>	32.92	
			<i>For Elevated Installation >30' To 35', Add</i>	37.62	
			<i>For Elevated Installation >35' To 40', Add</i>	47.03	
			<i>For Elevated Installation >40', Add</i>	51.73	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.22	
26 05 33	13-0281	EA	6" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	199.61	60.29
			<i>For Work In Restricted Working Space, Add</i>	36.20	
			<i>For Elevated Installation >10' To 15', Add</i>	12.07	
			<i>For Elevated Installation >15' To 20', Add</i>	24.13	
			<i>For Elevated Installation >20' To 25', Add</i>	30.17	
			<i>For Elevated Installation >25' To 30', Add</i>	42.23	
			<i>For Elevated Installation >30' To 35', Add</i>	48.26	
			<i>For Elevated Installation >35' To 40', Add</i>	60.33	
			<i>For Elevated Installation >40', Add</i>	66.36	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.20	
26 05 33	13-0282	EA	1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	16.13	6.44
			<i>For Work In Restricted Working Space, Add</i>	3.86	
			<i>For Elevated Installation >10' To 15', Add</i>	1.29	
			<i>For Elevated Installation >15' To 20', Add</i>	2.57	
			<i>For Elevated Installation >20' To 25', Add</i>	3.22	
			<i>For Elevated Installation >25' To 30', Add</i>	4.50	
			<i>For Elevated Installation >30' To 35', Add</i>	5.15	
			<i>For Elevated Installation >35' To 40', Add</i>	6.44	
			<i>For Elevated Installation >40', Add</i>	7.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.86	
26 05 33	13-0283	EA	3/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	18.66	7.42
			<i>For Work In Restricted Working Space, Add</i>	4.46	
			<i>For Elevated Installation >10' To 15', Add</i>	1.49	
			<i>For Elevated Installation >15' To 20', Add</i>	2.97	
			<i>For Elevated Installation >20' To 25', Add</i>	3.71	
			<i>For Elevated Installation >25' To 30', Add</i>	5.20	
			<i>For Elevated Installation >30' To 35', Add</i>	5.94	
			<i>For Elevated Installation >35' To 40', Add</i>	7.43	
			<i>For Elevated Installation >40', Add</i>	8.17	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	
26 05 33	13-0284	EA	1" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	23.85	9.41
			<i>For Work In Restricted Working Space, Add</i>	5.64	
			<i>For Elevated Installation >10' To 15', Add</i>	1.88	
			<i>For Elevated Installation >15' To 20', Add</i>	3.76	
			<i>For Elevated Installation >20' To 25', Add</i>	4.70	
			<i>For Elevated Installation >25' To 30', Add</i>	6.58	
			<i>For Elevated Installation >30' To 35', Add</i>	7.52	
			<i>For Elevated Installation >35' To 40', Add</i>	9.41	
			<i>For Elevated Installation >40', Add</i>	10.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0285 EA 1-1/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	28.28	10.89
For Work In Restricted Working Space, Add	6.53	
For Elevated Installation >10' To 15', Add	2.18	
For Elevated Installation >15' To 20', Add	4.36	
For Elevated Installation >20' To 25', Add	5.45	
For Elevated Installation >25' To 30', Add	7.62	
For Elevated Installation >30' To 35', Add	8.71	
For Elevated Installation >35' To 40', Add	10.89	
For Elevated Installation >40', Add	11.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.53	
26 05 33 13-0286 EA 1-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	33.47	12.38
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15', Add	2.48	
For Elevated Installation >15' To 20', Add	4.95	
For Elevated Installation >20' To 25', Add	6.19	
For Elevated Installation >25' To 30', Add	8.66	
For Elevated Installation >30' To 35', Add	9.90	
For Elevated Installation >35' To 40', Add	12.38	
For Elevated Installation >40', Add	13.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	
26 05 33 13-0287 EA 2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	38.72	13.86
For Work In Restricted Working Space, Add	8.32	
For Elevated Installation >10' To 15', Add	2.77	
For Elevated Installation >15' To 20', Add	5.54	
For Elevated Installation >20' To 25', Add	6.93	
For Elevated Installation >25' To 30', Add	9.70	
For Elevated Installation >30' To 35', Add	11.09	
For Elevated Installation >35' To 40', Add	13.86	
For Elevated Installation >40', Add	15.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.32	
26 05 33 13-0288 EA 2-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	56.15	16.83
For Work In Restricted Working Space, Add	10.10	
For Elevated Installation >10' To 15', Add	3.37	
For Elevated Installation >15' To 20', Add	6.73	
For Elevated Installation >20' To 25', Add	8.42	
For Elevated Installation >25' To 30', Add	11.78	
For Elevated Installation >30' To 35', Add	13.46	
For Elevated Installation >35' To 40', Add	16.83	
For Elevated Installation >40', Add	18.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.10	
26 05 33 13-0289 EA 3" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	73.57	23.27
For Work In Restricted Working Space, Add	13.96	
For Elevated Installation >10' To 15', Add	4.65	
For Elevated Installation >15' To 20', Add	9.31	
For Elevated Installation >20' To 25', Add	11.63	
For Elevated Installation >25' To 30', Add	16.29	
For Elevated Installation >30' To 35', Add	18.61	
For Elevated Installation >35' To 40', Add	23.27	
For Elevated Installation >40', Add	25.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.96	
26 05 33 13-0290 EA 3-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	84.56	26.23
For Work In Restricted Working Space, Add	15.74	
For Elevated Installation >10' To 15', Add	5.25	
For Elevated Installation >15' To 20', Add	10.49	
For Elevated Installation >20' To 25', Add	13.12	
For Elevated Installation >25' To 30', Add	18.36	
For Elevated Installation >30' To 35', Add	20.99	
For Elevated Installation >35' To 40', Add	26.24	
For Elevated Installation >40', Add	28.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.74	
26 05 33 13-0291 EA 4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	104.75	34.16
For Work In Restricted Working Space, Add	20.49	
For Elevated Installation >10' To 15', Add	6.83	
For Elevated Installation >15' To 20', Add	13.66	
For Elevated Installation >20' To 25', Add	17.08	
For Elevated Installation >25' To 30', Add	23.91	
For Elevated Installation >30' To 35', Add	27.32	
For Elevated Installation >35' To 40', Add	34.15	
For Elevated Installation >40', Add	37.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.49	
26 05 33 13-0292 EA 5" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	162.98	47.02
For Work In Restricted Working Space, Add	28.22	
For Elevated Installation >10' To 15', Add	9.41	
For Elevated Installation >15' To 20', Add	18.81	
For Elevated Installation >20' To 25', Add	23.51	
For Elevated Installation >25' To 30', Add	32.92	
For Elevated Installation >30' To 35', Add	37.62	
For Elevated Installation >35' To 40', Add	47.03	
For Elevated Installation >40', Add	51.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.22	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0293	EA		6" x 6" Long, Rigid Galvanized Steel (RGS) Nipple .....207.78		60.29
			<i>For Work In Restricted Working Space, Add</i>	36.20	
			<i>For Elevated Installation >10' To 15', Add</i>	12.07	
			<i>For Elevated Installation >15' To 20', Add</i>	24.13	
			<i>For Elevated Installation >20' To 25', Add</i>	30.17	
			<i>For Elevated Installation >25' To 30', Add</i>	42.23	
			<i>For Elevated Installation >30' To 35', Add</i>	48.26	
			<i>For Elevated Installation >35' To 40', Add</i>	60.33	
			<i>For Elevated Installation >40', Add</i>	66.36	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.20	
26 05 33 13-0294	EA		1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple .....18.06		6.44
			<i>For Work In Restricted Working Space, Add</i>	3.86	
			<i>For Elevated Installation >10' To 15', Add</i>	1.29	
			<i>For Elevated Installation >15' To 20', Add</i>	2.57	
			<i>For Elevated Installation >20' To 25', Add</i>	3.22	
			<i>For Elevated Installation >25' To 30', Add</i>	4.50	
			<i>For Elevated Installation >30' To 35', Add</i>	5.15	
			<i>For Elevated Installation >35' To 40', Add</i>	6.44	
			<i>For Elevated Installation >40', Add</i>	7.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.86	
26 05 33 13-0295	EA		3/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple .....21.13		7.42
			<i>For Work In Restricted Working Space, Add</i>	4.46	
			<i>For Elevated Installation >10' To 15', Add</i>	1.49	
			<i>For Elevated Installation >15' To 20', Add</i>	2.97	
			<i>For Elevated Installation >20' To 25', Add</i>	3.71	
			<i>For Elevated Installation >25' To 30', Add</i>	5.20	
			<i>For Elevated Installation >30' To 35', Add</i>	5.94	
			<i>For Elevated Installation >35' To 40', Add</i>	7.43	
			<i>For Elevated Installation >40', Add</i>	8.17	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	
26 05 33 13-0296	EA		1" x 8" Long, Rigid Galvanized Steel (RGS) Nipple .....26.76		9.41
			<i>For Work In Restricted Working Space, Add</i>	5.64	
			<i>For Elevated Installation >10' To 15', Add</i>	1.88	
			<i>For Elevated Installation >15' To 20', Add</i>	3.76	
			<i>For Elevated Installation >20' To 25', Add</i>	4.70	
			<i>For Elevated Installation >25' To 30', Add</i>	6.58	
			<i>For Elevated Installation >30' To 35', Add</i>	7.52	
			<i>For Elevated Installation >35' To 40', Add</i>	9.41	
			<i>For Elevated Installation >40', Add</i>	10.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.64	
26 05 33 13-0297	EA		1-1/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple .....32.43		10.89
			<i>For Work In Restricted Working Space, Add</i>	6.53	
			<i>For Elevated Installation >10' To 15', Add</i>	2.18	
			<i>For Elevated Installation >15' To 20', Add</i>	4.36	
			<i>For Elevated Installation >20' To 25', Add</i>	5.45	
			<i>For Elevated Installation >25' To 30', Add</i>	7.62	
			<i>For Elevated Installation >30' To 35', Add</i>	8.71	
			<i>For Elevated Installation >35' To 40', Add</i>	10.89	
			<i>For Elevated Installation >40', Add</i>	11.98	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.53	
26 05 33 13-0298	EA		1-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple .....38.09		12.38
			<i>For Work In Restricted Working Space, Add</i>	7.43	
			<i>For Elevated Installation >10' To 15', Add</i>	2.48	
			<i>For Elevated Installation >15' To 20', Add</i>	4.95	
			<i>For Elevated Installation >20' To 25', Add</i>	6.19	
			<i>For Elevated Installation >25' To 30', Add</i>	8.66	
			<i>For Elevated Installation >30' To 35', Add</i>	9.90	
			<i>For Elevated Installation >35' To 40', Add</i>	12.38	
			<i>For Elevated Installation >40', Add</i>	13.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.43	
26 05 33 13-0299	EA		2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple .....43.59		13.86
			<i>For Work In Restricted Working Space, Add</i>	8.32	
			<i>For Elevated Installation >10' To 15', Add</i>	2.77	
			<i>For Elevated Installation >15' To 20', Add</i>	5.54	
			<i>For Elevated Installation >20' To 25', Add</i>	6.93	
			<i>For Elevated Installation >25' To 30', Add</i>	9.70	
			<i>For Elevated Installation >30' To 35', Add</i>	11.09	
			<i>For Elevated Installation >35' To 40', Add</i>	13.86	
			<i>For Elevated Installation >40', Add</i>	15.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.32	
26 05 33 13-0300	EA		2-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple .....63.25		16.83
			<i>For Work In Restricted Working Space, Add</i>	10.10	
			<i>For Elevated Installation >10' To 15', Add</i>	3.37	
			<i>For Elevated Installation >15' To 20', Add</i>	6.73	
			<i>For Elevated Installation >20' To 25', Add</i>	8.42	
			<i>For Elevated Installation >25' To 30', Add</i>	11.78	
			<i>For Elevated Installation >30' To 35', Add</i>	13.46	
			<i>For Elevated Installation >35' To 40', Add</i>	16.83	
			<i>For Elevated Installation >40', Add</i>	18.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0301 EA 3" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	81.71	23.27
For Work In Restricted Working Space, Add	13.96	
For Elevated Installation >10' To 15', Add	4.65	
For Elevated Installation >15' To 20', Add	9.31	
For Elevated Installation >20' To 25', Add	11.63	
For Elevated Installation >25' To 30', Add	16.29	
For Elevated Installation >30' To 35', Add	18.61	
For Elevated Installation >35' To 40', Add	23.27	
For Elevated Installation >40', Add	25.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.96	
26 05 33 13-0302 EA 3-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	92.68	26.23
For Work In Restricted Working Space, Add	15.74	
For Elevated Installation >10' To 15', Add	5.25	
For Elevated Installation >15' To 20', Add	10.49	
For Elevated Installation >20' To 25', Add	13.12	
For Elevated Installation >25' To 30', Add	18.36	
For Elevated Installation >30' To 35', Add	20.99	
For Elevated Installation >35' To 40', Add	26.24	
For Elevated Installation >40', Add	28.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.74	
26 05 33 13-0303 EA 4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	113.72	34.16
For Work In Restricted Working Space, Add	20.49	
For Elevated Installation >10' To 15', Add	6.83	
For Elevated Installation >15' To 20', Add	13.66	
For Elevated Installation >20' To 25', Add	17.08	
For Elevated Installation >25' To 30', Add	23.91	
For Elevated Installation >30' To 35', Add	27.32	
For Elevated Installation >35' To 40', Add	34.15	
For Elevated Installation >40', Add	37.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.49	
26 05 33 13-0304 EA 5" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	175.92	47.02
For Work In Restricted Working Space, Add	28.22	
For Elevated Installation >10' To 15', Add	9.41	
For Elevated Installation >15' To 20', Add	18.81	
For Elevated Installation >20' To 25', Add	23.51	
For Elevated Installation >25' To 30', Add	32.92	
For Elevated Installation >30' To 35', Add	37.62	
For Elevated Installation >35' To 40', Add	47.03	
For Elevated Installation >40', Add	51.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.22	
26 05 33 13-0305 EA 6" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	222.31	60.29
For Work In Restricted Working Space, Add	36.20	
For Elevated Installation >10' To 15', Add	12.07	
For Elevated Installation >15' To 20', Add	24.13	
For Elevated Installation >20' To 25', Add	30.17	
For Elevated Installation >25' To 30', Add	42.23	
For Elevated Installation >30' To 35', Add	48.26	
For Elevated Installation >35' To 40', Add	60.33	
For Elevated Installation >40', Add	66.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.20	
26 05 33 13-0306 EA 1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple.....	19.36	6.44
For Work In Restricted Working Space, Add	3.86	
For Elevated Installation >10' To 15', Add	1.29	
For Elevated Installation >15' To 20', Add	2.57	
For Elevated Installation >20' To 25', Add	3.22	
For Elevated Installation >25' To 30', Add	4.50	
For Elevated Installation >30' To 35', Add	5.15	
For Elevated Installation >35' To 40', Add	6.44	
For Elevated Installation >40', Add	7.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.86	
26 05 33 13-0307 EA 3/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple.....	22.39	7.42
For Work In Restricted Working Space, Add	4.46	
For Elevated Installation >10' To 15', Add	1.49	
For Elevated Installation >15' To 20', Add	2.97	
For Elevated Installation >20' To 25', Add	3.71	
For Elevated Installation >25' To 30', Add	5.20	
For Elevated Installation >30' To 35', Add	5.94	
For Elevated Installation >35' To 40', Add	7.43	
For Elevated Installation >40', Add	8.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 05 33 13-0308 EA 1" x 10" Long, Rigid Galvanized Steel (RGS) Nipple.....	29.08	9.41
For Work In Restricted Working Space, Add	5.64	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.76	
For Elevated Installation >20' To 25', Add	4.70	
For Elevated Installation >25' To 30', Add	6.58	
For Elevated Installation >30' To 35', Add	7.52	
For Elevated Installation >35' To 40', Add	9.41	
For Elevated Installation >40', Add	10.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.64	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0309	EA	1-1/4"	10" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.18 6.53 2.18 4.36 5.45 7.62 8.71 10.89 11.98 6.53	10.89
26 05 33 13-0310	EA	1-1/2"	10" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.79 7.43 2.48 4.95 6.19 8.66 9.90 12.38 13.61 7.43	12.38
26 05 33 13-0311	EA	2"	10" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.73 8.32 2.77 5.54 6.93 9.70 11.09 13.86 15.25 8.32	13.86
26 05 33 13-0312	EA	2-1/2"	10" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.01 10.10 3.37 6.73 8.42 11.78 13.46 16.83 18.51 10.10	16.83
26 05 33 13-0313	EA	3"	10" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.11 13.96 4.65 9.31 11.63 16.29 18.61 23.27 25.59 13.96	23.27
26 05 33 13-0314	EA	3-1/2"	10" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	101.11 15.74 5.25 10.49 13.12 18.36 20.99 26.24 28.86 15.74	26.23
26 05 33 13-0315	EA	4"	10" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	124.40 20.49 6.83 13.66 17.08 23.91 27.32 34.15 37.57 20.49	34.16
26 05 33 13-0316	EA	5"	10" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	190.04 28.22 9.41 18.81 23.51 32.92 37.62 47.03 51.73 28.22	47.02



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0317 EA 6" x 10" Long, Rigid Galvanized Steel (RGS) Nipple.....	247.71	60.29
For Work In Restricted Working Space, Add	36.20	
For Elevated Installation >10' To 15', Add	12.07	
For Elevated Installation >15' To 20', Add	24.13	
For Elevated Installation >20' To 25', Add	30.17	
For Elevated Installation >25' To 30', Add	42.23	
For Elevated Installation >30' To 35', Add	48.26	
For Elevated Installation >35' To 40', Add	60.33	
For Elevated Installation >40', Add	66.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.20	
26 05 33 13-0318 EA 1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	20.36	6.44
For Work In Restricted Working Space, Add	3.86	
For Elevated Installation >10' To 15', Add	1.29	
For Elevated Installation >15' To 20', Add	2.57	
For Elevated Installation >20' To 25', Add	3.22	
For Elevated Installation >25' To 30', Add	4.50	
For Elevated Installation >30' To 35', Add	5.15	
For Elevated Installation >35' To 40', Add	6.44	
For Elevated Installation >40', Add	7.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.86	
26 05 33 13-0319 EA 3/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	23.33	7.42
For Work In Restricted Working Space, Add	4.46	
For Elevated Installation >10' To 15', Add	1.49	
For Elevated Installation >15' To 20', Add	2.97	
For Elevated Installation >20' To 25', Add	3.71	
For Elevated Installation >25' To 30', Add	5.20	
For Elevated Installation >30' To 35', Add	5.94	
For Elevated Installation >35' To 40', Add	7.43	
For Elevated Installation >40', Add	8.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 05 33 13-0320 EA 1" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	30.47	9.41
For Work In Restricted Working Space, Add	5.64	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.76	
For Elevated Installation >20' To 25', Add	4.70	
For Elevated Installation >25' To 30', Add	6.58	
For Elevated Installation >30' To 35', Add	7.52	
For Elevated Installation >35' To 40', Add	9.41	
For Elevated Installation >40', Add	10.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.64	
26 05 33 13-0321 EA 1-1/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	37.38	10.89
For Work In Restricted Working Space, Add	6.53	
For Elevated Installation >10' To 15', Add	2.18	
For Elevated Installation >15' To 20', Add	4.36	
For Elevated Installation >20' To 25', Add	5.45	
For Elevated Installation >25' To 30', Add	7.62	
For Elevated Installation >30' To 35', Add	8.71	
For Elevated Installation >35' To 40', Add	10.89	
For Elevated Installation >40', Add	11.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.53	
26 05 33 13-0322 EA 1-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	42.15	12.38
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15', Add	2.48	
For Elevated Installation >15' To 20', Add	4.95	
For Elevated Installation >20' To 25', Add	6.19	
For Elevated Installation >25' To 30', Add	8.66	
For Elevated Installation >30' To 35', Add	9.90	
For Elevated Installation >35' To 40', Add	12.38	
For Elevated Installation >40', Add	13.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	
26 05 33 13-0323 EA 2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	49.37	13.86
For Work In Restricted Working Space, Add	8.32	
For Elevated Installation >10' To 15', Add	2.77	
For Elevated Installation >15' To 20', Add	5.54	
For Elevated Installation >20' To 25', Add	6.93	
For Elevated Installation >25' To 30', Add	9.70	
For Elevated Installation >30' To 35', Add	11.09	
For Elevated Installation >35' To 40', Add	13.86	
For Elevated Installation >40', Add	15.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.32	
26 05 33 13-0324 EA 2-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	73.62	16.83
For Work In Restricted Working Space, Add	10.10	
For Elevated Installation >10' To 15', Add	3.37	
For Elevated Installation >15' To 20', Add	6.73	
For Elevated Installation >20' To 25', Add	8.42	
For Elevated Installation >25' To 30', Add	11.78	
For Elevated Installation >30' To 35', Add	13.46	
For Elevated Installation >35' To 40', Add	16.83	
For Elevated Installation >40', Add	18.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.10	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0325	EA		3" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	97.02	23.27
			<i>For Work In Restricted Working Space, Add</i>	13.96	
			<i>For Elevated Installation >10' To 15', Add</i>	4.65	
			<i>For Elevated Installation >15' To 20', Add</i>	9.31	
			<i>For Elevated Installation >20' To 25', Add</i>	11.63	
			<i>For Elevated Installation >25' To 30', Add</i>	16.29	
			<i>For Elevated Installation >30' To 35', Add</i>	18.61	
			<i>For Elevated Installation >35' To 40', Add</i>	23.27	
			<i>For Elevated Installation >40', Add</i>	25.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.96	
26 05 33 13-0326	EA		3-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	109.32	26.23
			<i>For Work In Restricted Working Space, Add</i>	15.74	
			<i>For Elevated Installation >10' To 15', Add</i>	5.25	
			<i>For Elevated Installation >15' To 20', Add</i>	10.49	
			<i>For Elevated Installation >20' To 25', Add</i>	13.12	
			<i>For Elevated Installation >25' To 30', Add</i>	18.36	
			<i>For Elevated Installation >30' To 35', Add</i>	20.99	
			<i>For Elevated Installation >35' To 40', Add</i>	26.24	
			<i>For Elevated Installation >40', Add</i>	28.86	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.74	
26 05 33 13-0327	EA		4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	135.09	34.16
			<i>For Work In Restricted Working Space, Add</i>	20.49	
			<i>For Elevated Installation >10' To 15', Add</i>	6.83	
			<i>For Elevated Installation >15' To 20', Add</i>	13.66	
			<i>For Elevated Installation >20' To 25', Add</i>	17.08	
			<i>For Elevated Installation >25' To 30', Add</i>	23.91	
			<i>For Elevated Installation >30' To 35', Add</i>	27.32	
			<i>For Elevated Installation >35' To 40', Add</i>	34.15	
			<i>For Elevated Installation >40', Add</i>	37.57	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.49	
26 05 33 13-0328	EA		5" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	210.32	47.02
			<i>For Work In Restricted Working Space, Add</i>	28.22	
			<i>For Elevated Installation >10' To 15', Add</i>	9.41	
			<i>For Elevated Installation >15' To 20', Add</i>	18.81	
			<i>For Elevated Installation >20' To 25', Add</i>	23.51	
			<i>For Elevated Installation >25' To 30', Add</i>	32.92	
			<i>For Elevated Installation >30' To 35', Add</i>	37.62	
			<i>For Elevated Installation >35' To 40', Add</i>	47.03	
			<i>For Elevated Installation >40', Add</i>	51.73	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.22	
26 05 33 13-0329	EA		6" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	261.82	60.29
			<i>For Work In Restricted Working Space, Add</i>	36.20	
			<i>For Elevated Installation >10' To 15', Add</i>	12.07	
			<i>For Elevated Installation >15' To 20', Add</i>	24.13	
			<i>For Elevated Installation >20' To 25', Add</i>	30.17	
			<i>For Elevated Installation >25' To 30', Add</i>	42.23	
			<i>For Elevated Installation >30' To 35', Add</i>	48.26	
			<i>For Elevated Installation >35' To 40', Add</i>	60.33	
			<i>For Elevated Installation >40', Add</i>	66.36	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.20	
26 05 33 13-0330			Rigid Galvanized Steel (RGS) Off-Set Nipples <small>(26 05 33 13-0059)</small>		
26 05 33 13-0331	EA		1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple	15.57	5.14
			<i>For Work In Restricted Working Space, Add</i>	3.89	
			<i>For Elevated Installation >10' To 15', Add</i>	1.30	
			<i>For Elevated Installation >15' To 20', Add</i>	2.59	
			<i>For Elevated Installation >20' To 25', Add</i>	3.24	
			<i>For Elevated Installation >25' To 30', Add</i>	4.54	
			<i>For Elevated Installation >30' To 35', Add</i>	5.19	
			<i>For Elevated Installation >35' To 40', Add</i>	6.49	
			<i>For Elevated Installation >40', Add</i>	7.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.89	
26 05 33 13-0332	EA		3/4" Rigid Galvanized Steel (RGS) Off-Set Nipple	18.74	5.94
			<i>For Work In Restricted Working Space, Add</i>	4.43	
			<i>For Elevated Installation >10' To 15', Add</i>	1.48	
			<i>For Elevated Installation >15' To 20', Add</i>	2.95	
			<i>For Elevated Installation >20' To 25', Add</i>	3.69	
			<i>For Elevated Installation >25' To 30', Add</i>	5.17	
			<i>For Elevated Installation >30' To 35', Add</i>	5.91	
			<i>For Elevated Installation >35' To 40', Add</i>	7.39	
			<i>For Elevated Installation >40', Add</i>	8.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.43	
26 05 33 13-0333	EA		1" Rigid Galvanized Steel (RGS) Off-Set Nipple	23.42	7.52
			<i>For Work In Restricted Working Space, Add</i>	5.66	
			<i>For Elevated Installation >10' To 15', Add</i>	1.89	
			<i>For Elevated Installation >15' To 20', Add</i>	3.78	
			<i>For Elevated Installation >20' To 25', Add</i>	4.72	
			<i>For Elevated Installation >25' To 30', Add</i>	6.61	
			<i>For Elevated Installation >30' To 35', Add</i>	7.55	
			<i>For Elevated Installation >35' To 40', Add</i>	9.44	
			<i>For Elevated Installation >40', Add</i>	10.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0334 EA 1-1/4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	29.96	9.01
For Work In Restricted Working Space, Add	6.79	
For Elevated Installation >10' To 15', Add	2.26	
For Elevated Installation >15' To 20', Add	4.53	
For Elevated Installation >20' To 25', Add	5.66	
For Elevated Installation >25' To 30', Add	7.92	
For Elevated Installation >30' To 35', Add	9.05	
For Elevated Installation >35' To 40', Add	11.32	
For Elevated Installation >40', Add	12.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.79	
26 05 33 13-0335 EA 1-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	32.81	9.90
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15', Add	2.48	
For Elevated Installation >15' To 20', Add	4.95	
For Elevated Installation >20' To 25', Add	6.19	
For Elevated Installation >25' To 30', Add	8.67	
For Elevated Installation >30' To 35', Add	9.91	
For Elevated Installation >35' To 40', Add	12.39	
For Elevated Installation >40', Add	13.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	
26 05 33 13-0336 EA 2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	43.29	12.17
For Work In Restricted Working Space, Add	9.15	
For Elevated Installation >10' To 15', Add	3.05	
For Elevated Installation >15' To 20', Add	6.10	
For Elevated Installation >20' To 25', Add	7.63	
For Elevated Installation >25' To 30', Add	10.68	
For Elevated Installation >30' To 35', Add	12.20	
For Elevated Installation >35' To 40', Add	15.26	
For Elevated Installation >40', Add	16.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.15	
26 05 33 13-0337 EA 2-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	70.79	19.80
For Work In Restricted Working Space, Add	14.85	
For Elevated Installation >10' To 15', Add	4.95	
For Elevated Installation >15' To 20', Add	9.90	
For Elevated Installation >20' To 25', Add	12.38	
For Elevated Installation >25' To 30', Add	17.33	
For Elevated Installation >30' To 35', Add	19.80	
For Elevated Installation >35' To 40', Add	24.75	
For Elevated Installation >40', Add	27.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.85	
26 05 33 13-0338 EA 3" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	116.67	27.33
For Work In Restricted Working Space, Add	20.49	
For Elevated Installation >10' To 15', Add	6.83	
For Elevated Installation >15' To 20', Add	13.66	
For Elevated Installation >20' To 25', Add	17.08	
For Elevated Installation >25' To 30', Add	23.91	
For Elevated Installation >30' To 35', Add	27.32	
For Elevated Installation >35' To 40', Add	34.16	
For Elevated Installation >40', Add	37.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.49	
26 05 33 13-0339 EA 3-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	145.55	32.27
For Work In Restricted Working Space, Add	24.08	
For Elevated Installation >10' To 15', Add	8.03	
For Elevated Installation >15' To 20', Add	16.05	
For Elevated Installation >20' To 25', Add	20.06	
For Elevated Installation >25' To 30', Add	28.09	
For Elevated Installation >30' To 35', Add	32.10	
For Elevated Installation >35' To 40', Add	40.13	
For Elevated Installation >40', Add	44.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.08	
26 05 33 13-0340 EA 4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	175.21	37.23
For Work In Restricted Working Space, Add	27.92	
For Elevated Installation >10' To 15', Add	9.31	
For Elevated Installation >15' To 20', Add	18.61	
For Elevated Installation >20' To 25', Add	23.27	
For Elevated Installation >25' To 30', Add	32.57	
For Elevated Installation >30' To 35', Add	37.23	
For Elevated Installation >35' To 40', Add	46.54	
For Elevated Installation >40', Add	51.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.92	
26 05 33 13-0341 Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling <small>(26 05 33 13-0059)</small>		
Note: Erickson fittings.		
26 05 33 13-0342 EA 1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	41.79	15.84
For Work In Restricted Working Space, Add	11.90	
For Elevated Installation >10' To 15', Add	3.97	
For Elevated Installation >15' To 20', Add	7.93	
For Elevated Installation >20' To 25', Add	9.91	
For Elevated Installation >25' To 30', Add	13.88	
For Elevated Installation >30' To 35', Add	15.86	
For Elevated Installation >35' To 40', Add	19.83	
For Elevated Installation >40', Add	21.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.90	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0343	EA		3/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	46.99	17.72
			<i>For Work In Restricted Working Space, Add</i>	13.28	
			<i>For Elevated Installation >10' To 15', Add</i>	4.43	
			<i>For Elevated Installation >15' To 20', Add</i>	8.85	
			<i>For Elevated Installation >20' To 25', Add</i>	11.06	
			<i>For Elevated Installation >25' To 30', Add</i>	15.49	
			<i>For Elevated Installation >30' To 35', Add</i>	17.70	
			<i>For Elevated Installation >35' To 40', Add</i>	22.13	
			<i>For Elevated Installation >40', Add</i>	24.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.28	
26 05 33 13-0344	EA		1" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	54.35	19.71
			<i>For Work In Restricted Working Space, Add</i>	14.79	
			<i>For Elevated Installation >10' To 15', Add</i>	4.93	
			<i>For Elevated Installation >15' To 20', Add</i>	9.86	
			<i>For Elevated Installation >20' To 25', Add</i>	12.32	
			<i>For Elevated Installation >25' To 30', Add</i>	17.25	
			<i>For Elevated Installation >30' To 35', Add</i>	19.72	
			<i>For Elevated Installation >35' To 40', Add</i>	24.65	
			<i>For Elevated Installation >40', Add</i>	27.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.79	
26 05 33 13-0345	EA		1-1/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	64.72	21.58
			<i>For Work In Restricted Working Space, Add</i>	16.18	
			<i>For Elevated Installation >10' To 15', Add</i>	5.39	
			<i>For Elevated Installation >15' To 20', Add</i>	10.79	
			<i>For Elevated Installation >20' To 25', Add</i>	13.49	
			<i>For Elevated Installation >25' To 30', Add</i>	18.88	
			<i>For Elevated Installation >30' To 35', Add</i>	21.58	
			<i>For Elevated Installation >35' To 40', Add</i>	26.97	
			<i>For Elevated Installation >40', Add</i>	29.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.18	
26 05 33 13-0346	EA		1-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	71.94	23.57
			<i>For Work In Restricted Working Space, Add</i>	17.71	
			<i>For Elevated Installation >10' To 15', Add</i>	5.90	
			<i>For Elevated Installation >15' To 20', Add</i>	11.80	
			<i>For Elevated Installation >20' To 25', Add</i>	14.76	
			<i>For Elevated Installation >25' To 30', Add</i>	20.66	
			<i>For Elevated Installation >30' To 35', Add</i>	23.61	
			<i>For Elevated Installation >35' To 40', Add</i>	29.51	
			<i>For Elevated Installation >40', Add</i>	32.46	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.71	
26 05 33 13-0347	EA		2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	89.79	25.54
			<i>For Work In Restricted Working Space, Add</i>	19.17	
			<i>For Elevated Installation >10' To 15', Add</i>	6.39	
			<i>For Elevated Installation >15' To 20', Add</i>	12.78	
			<i>For Elevated Installation >20' To 25', Add</i>	15.98	
			<i>For Elevated Installation >25' To 30', Add</i>	22.37	
			<i>For Elevated Installation >30' To 35', Add</i>	25.56	
			<i>For Elevated Installation >35' To 40', Add</i>	31.96	
			<i>For Elevated Installation >40', Add</i>	35.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.17	
26 05 33 13-0348	EA		2-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	139.15	31.68
			<i>For Work In Restricted Working Space, Add</i>	23.76	
			<i>For Elevated Installation >10' To 15', Add</i>	7.92	
			<i>For Elevated Installation >15' To 20', Add</i>	15.84	
			<i>For Elevated Installation >20' To 25', Add</i>	19.80	
			<i>For Elevated Installation >25' To 30', Add</i>	27.72	
			<i>For Elevated Installation >30' To 35', Add</i>	31.68	
			<i>For Elevated Installation >35' To 40', Add</i>	39.60	
			<i>For Elevated Installation >40', Add</i>	43.56	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.76	
26 05 33 13-0349	EA		3" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	190.00	39.60
			<i>For Work In Restricted Working Space, Add</i>	29.70	
			<i>For Elevated Installation >10' To 15', Add</i>	9.90	
			<i>For Elevated Installation >15' To 20', Add</i>	19.80	
			<i>For Elevated Installation >20' To 25', Add</i>	24.75	
			<i>For Elevated Installation >25' To 30', Add</i>	34.65	
			<i>For Elevated Installation >30' To 35', Add</i>	39.60	
			<i>For Elevated Installation >35' To 40', Add</i>	49.50	
			<i>For Elevated Installation >40', Add</i>	54.45	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.70	
26 05 33 13-0350	EA		3-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	270.41	47.53
			<i>For Work In Restricted Working Space, Add</i>	35.66	
			<i>For Elevated Installation >10' To 15', Add</i>	11.89	
			<i>For Elevated Installation >15' To 20', Add</i>	23.77	
			<i>For Elevated Installation >20' To 25', Add</i>	29.71	
			<i>For Elevated Installation >25' To 30', Add</i>	41.60	
			<i>For Elevated Installation >30' To 35', Add</i>	47.54	
			<i>For Elevated Installation >35' To 40', Add</i>	59.43	
			<i>For Elevated Installation >40', Add</i>	65.37	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0351 EA 4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	306.94	51.49
<i>For Work In Restricted Working Space, Add</i>	38.61	
<i>For Elevated Installation >10' To 15', Add</i>	12.87	
<i>For Elevated Installation >15' To 20', Add</i>	25.74	
<i>For Elevated Installation >20' To 25', Add</i>	32.18	
<i>For Elevated Installation >25' To 30', Add</i>	45.05	
<i>For Elevated Installation >30' To 35', Add</i>	51.48	
<i>For Elevated Installation >35' To 40', Add</i>	64.35	
<i>For Elevated Installation >40', Add</i>	70.79	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.61	
26 05 33 13-0352 EA 5" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	524.19	63.36
<i>For Work In Restricted Working Space, Add</i>	47.52	
<i>For Elevated Installation >10' To 15', Add</i>	15.84	
<i>For Elevated Installation >15' To 20', Add</i>	31.68	
<i>For Elevated Installation >20' To 25', Add</i>	39.60	
<i>For Elevated Installation >25' To 30', Add</i>	55.44	
<i>For Elevated Installation >30' To 35', Add</i>	63.36	
<i>For Elevated Installation >35' To 40', Add</i>	79.20	
<i>For Elevated Installation >40', Add</i>	87.11	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.52	
26 05 33 13-0353 EA 6" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	670.73	73.27
<i>For Work In Restricted Working Space, Add</i>	54.94	
<i>For Elevated Installation >10' To 15', Add</i>	18.31	
<i>For Elevated Installation >15' To 20', Add</i>	36.63	
<i>For Elevated Installation >20' To 25', Add</i>	45.79	
<i>For Elevated Installation >25' To 30', Add</i>	64.10	
<i>For Elevated Installation >30' To 35', Add</i>	73.26	
<i>For Elevated Installation >35' To 40', Add</i>	91.57	
<i>For Elevated Installation >40', Add</i>	100.73	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.94	
26 05 33 13-0354 Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT)		
Connectors <small>(26 05 33 13-0059)</small>		
26 05 33 13-0355 EA 1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector.....	26.77	7.92
<i>For Work In Restricted Working Space, Add</i>	5.94	
<i>For Elevated Installation >10' To 15', Add</i>	1.98	
<i>For Elevated Installation >15' To 20', Add</i>	3.96	
<i>For Elevated Installation >20' To 25', Add</i>	4.95	
<i>For Elevated Installation >25' To 30', Add</i>	6.93	
<i>For Elevated Installation >30' To 35', Add</i>	7.92	
<i>For Elevated Installation >35' To 40', Add</i>	9.90	
<i>For Elevated Installation >40', Add</i>	10.89	
26 05 33 13-0356 EA 3/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector.....	30.03	8.71
<i>For Work In Restricted Working Space, Add</i>	6.53	
<i>For Elevated Installation >10' To 15', Add</i>	2.18	
<i>For Elevated Installation >15' To 20', Add</i>	4.36	
<i>For Elevated Installation >20' To 25', Add</i>	5.45	
<i>For Elevated Installation >25' To 30', Add</i>	7.62	
<i>For Elevated Installation >30' To 35', Add</i>	8.71	
<i>For Elevated Installation >35' To 40', Add</i>	10.89	
<i>For Elevated Installation >40', Add</i>	11.98	
26 05 33 13-0357 EA 1" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector.....	34.57	9.90
<i>For Work In Restricted Working Space, Add</i>	7.43	
<i>For Elevated Installation >10' To 15', Add</i>	2.48	
<i>For Elevated Installation >15' To 20', Add</i>	4.95	
<i>For Elevated Installation >20' To 25', Add</i>	6.19	
<i>For Elevated Installation >25' To 30', Add</i>	8.66	
<i>For Elevated Installation >30' To 35', Add</i>	9.90	
<i>For Elevated Installation >35' To 40', Add</i>	12.38	
<i>For Elevated Installation >40', Add</i>	13.61	
26 05 33 13-0358 EA 1-1/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector.....	39.70	10.69
<i>For Work In Restricted Working Space, Add</i>	8.02	
<i>For Elevated Installation >10' To 15', Add</i>	2.67	
<i>For Elevated Installation >15' To 20', Add</i>	5.35	
<i>For Elevated Installation >20' To 25', Add</i>	6.68	
<i>For Elevated Installation >25' To 30', Add</i>	9.36	
<i>For Elevated Installation >30' To 35', Add</i>	10.69	
<i>For Elevated Installation >35' To 40', Add</i>	13.37	
<i>For Elevated Installation >40', Add</i>	14.70	
26 05 33 13-0359 EA 1-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector.....	47.77	11.88
<i>For Work In Restricted Working Space, Add</i>	8.91	
<i>For Elevated Installation >10' To 15', Add</i>	2.97	
<i>For Elevated Installation >15' To 20', Add</i>	5.94	
<i>For Elevated Installation >20' To 25', Add</i>	7.43	
<i>For Elevated Installation >25' To 30', Add</i>	10.40	
<i>For Elevated Installation >30' To 35', Add</i>	11.88	
<i>For Elevated Installation >35' To 40', Add</i>	14.85	
<i>For Elevated Installation >40', Add</i>	16.34	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0360 EA 2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	59.39	13.07
For Work In Restricted Working Space, Add	9.80	
For Elevated Installation >10' To 15', Add	3.27	
For Elevated Installation >15' To 20', Add	6.53	
For Elevated Installation >20' To 25', Add	8.17	
For Elevated Installation >25' To 30', Add	11.43	
For Elevated Installation >30' To 35', Add	13.07	
For Elevated Installation >35' To 40', Add	16.34	
For Elevated Installation >40', Add	17.97	
26 05 33 13-0361 EA 2-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	82.43	15.84
For Work In Restricted Working Space, Add	11.88	
For Elevated Installation >10' To 15', Add	3.96	
For Elevated Installation >15' To 20', Add	7.92	
For Elevated Installation >20' To 25', Add	9.90	
For Elevated Installation >25' To 30', Add	13.86	
For Elevated Installation >30' To 35', Add	15.84	
For Elevated Installation >35' To 40', Add	19.80	
For Elevated Installation >40', Add	21.78	
26 05 33 13-0362 EA 3" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	101.76	19.80
For Work In Restricted Working Space, Add	14.85	
For Elevated Installation >10' To 15', Add	4.95	
For Elevated Installation >15' To 20', Add	9.90	
For Elevated Installation >20' To 25', Add	12.38	
For Elevated Installation >25' To 30', Add	17.33	
For Elevated Installation >30' To 35', Add	19.80	
For Elevated Installation >35' To 40', Add	24.75	
For Elevated Installation >40', Add	27.23	
26 05 33 13-0363 EA 3-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	122.27	23.76
For Work In Restricted Working Space, Add	17.82	
For Elevated Installation >10' To 15', Add	5.94	
For Elevated Installation >15' To 20', Add	11.88	
For Elevated Installation >20' To 25', Add	14.85	
For Elevated Installation >25' To 30', Add	20.79	
For Elevated Installation >30' To 35', Add	23.76	
For Elevated Installation >35' To 40', Add	29.70	
For Elevated Installation >40', Add	32.67	
26 05 33 13-0364 EA 4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	139.00	25.74
For Work In Restricted Working Space, Add	19.31	
For Elevated Installation >10' To 15', Add	6.44	
For Elevated Installation >15' To 20', Add	12.87	
For Elevated Installation >20' To 25', Add	16.09	
For Elevated Installation >25' To 30', Add	22.52	
For Elevated Installation >30' To 35', Add	25.74	
For Elevated Installation >35' To 40', Add	32.18	
For Elevated Installation >40', Add	35.39	
26 05 33 13-0365 Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs (26 05 33 13-0059)		
26 05 33 13-0366 EA 1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	21.59	8.92
For Work In Restricted Working Space, Add	5.35	
For Elevated Installation >10' To 15', Add	1.78	
For Elevated Installation >15' To 20', Add	3.56	
For Elevated Installation >20' To 25', Add	4.46	
For Elevated Installation >25' To 30', Add	6.24	
For Elevated Installation >30' To 35', Add	7.13	
For Elevated Installation >35' To 40', Add	8.91	
For Elevated Installation >40', Add	9.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.35	
26 05 33 13-0367 EA 3/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	24.05	9.90
For Work In Restricted Working Space, Add	5.94	
For Elevated Installation >10' To 15', Add	1.98	
For Elevated Installation >15' To 20', Add	3.96	
For Elevated Installation >20' To 25', Add	4.95	
For Elevated Installation >25' To 30', Add	6.93	
For Elevated Installation >30' To 35', Add	7.92	
For Elevated Installation >35' To 40', Add	9.90	
For Elevated Installation >40', Add	10.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.94	
26 05 33 13-0368 EA 1" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	29.73	12.38
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15', Add	2.48	
For Elevated Installation >15' To 20', Add	4.95	
For Elevated Installation >20' To 25', Add	6.19	
For Elevated Installation >25' To 30', Add	8.66	
For Elevated Installation >30' To 35', Add	9.90	
For Elevated Installation >35' To 40', Add	12.38	
For Elevated Installation >40', Add	13.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0369 EA 1-1/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	36.47	14.85
For Work In Restricted Working Space, Add	8.91	
For Elevated Installation >10' To 15', Add	2.97	
For Elevated Installation >15' To 20', Add	5.94	
For Elevated Installation >20' To 25', Add	7.43	
For Elevated Installation >25' To 30', Add	10.40	
For Elevated Installation >30' To 35', Add	11.88	
For Elevated Installation >35' To 40', Add	14.85	
For Elevated Installation >40', Add	16.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.91	
26 05 33 13-0370 EA 1-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	47.04	19.80
For Work In Restricted Working Space, Add	11.88	
For Elevated Installation >10' To 15', Add	3.96	
For Elevated Installation >15' To 20', Add	7.92	
For Elevated Installation >20' To 25', Add	9.90	
For Elevated Installation >25' To 30', Add	13.86	
For Elevated Installation >30' To 35', Add	15.84	
For Elevated Installation >35' To 40', Add	19.80	
For Elevated Installation >40', Add	21.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.88	
26 05 33 13-0371 EA 2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	54.51	22.27
For Work In Restricted Working Space, Add	13.37	
For Elevated Installation >10' To 15', Add	4.46	
For Elevated Installation >15' To 20', Add	8.91	
For Elevated Installation >20' To 25', Add	11.14	
For Elevated Installation >25' To 30', Add	15.60	
For Elevated Installation >30' To 35', Add	17.82	
For Elevated Installation >35' To 40', Add	22.28	
For Elevated Installation >40', Add	24.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.37	
26 05 33 13-0372 EA 2-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	66.39	24.75
For Work In Restricted Working Space, Add	14.85	
For Elevated Installation >10' To 15', Add	4.95	
For Elevated Installation >15' To 20', Add	9.90	
For Elevated Installation >20' To 25', Add	12.38	
For Elevated Installation >25' To 30', Add	17.33	
For Elevated Installation >30' To 35', Add	19.80	
For Elevated Installation >35' To 40', Add	24.75	
For Elevated Installation >40', Add	27.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.85	
26 05 33 13-0373 EA 3" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	88.85	31.19
For Work In Restricted Working Space, Add	18.71	
For Elevated Installation >10' To 15', Add	6.24	
For Elevated Installation >15' To 20', Add	12.48	
For Elevated Installation >20' To 25', Add	15.60	
For Elevated Installation >25' To 30', Add	21.83	
For Elevated Installation >30' To 35', Add	24.95	
For Elevated Installation >35' To 40', Add	31.19	
For Elevated Installation >40', Add	34.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.71	
26 05 33 13-0374 EA 3-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	105.64	37.63
For Work In Restricted Working Space, Add	22.57	
For Elevated Installation >10' To 15', Add	7.52	
For Elevated Installation >15' To 20', Add	15.05	
For Elevated Installation >20' To 25', Add	18.81	
For Elevated Installation >25' To 30', Add	26.33	
For Elevated Installation >30' To 35', Add	30.10	
For Elevated Installation >35' To 40', Add	37.62	
For Elevated Installation >40', Add	41.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.57	
26 05 33 13-0375 EA 4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	129.18	44.56
For Work In Restricted Working Space, Add	26.73	
For Elevated Installation >10' To 15', Add	8.91	
For Elevated Installation >15' To 20', Add	17.82	
For Elevated Installation >20' To 25', Add	22.28	
For Elevated Installation >25' To 30', Add	31.19	
For Elevated Installation >30' To 35', Add	35.64	
For Elevated Installation >35' To 40', Add	44.55	
For Elevated Installation >40', Add	49.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.73	
26 05 33 13-0376 Rigid Galvanized Steel (RGS) Expansion Fittings, 4" Conduit Movement ^(26 05)		
<small>33 13-0059</small>		
<small>Note: Type AX</small>		
26 05 33 13-0377 EA 1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	94.95	15.84
For Work In Restricted Working Space, Add	11.88	
For Elevated Installation >10' To 15', Add	3.96	
For Elevated Installation >15' To 20', Add	7.92	
For Elevated Installation >20' To 25', Add	9.90	
For Elevated Installation >25' To 30', Add	13.86	
For Elevated Installation >30' To 35', Add	15.84	
For Elevated Installation >35' To 40', Add	19.81	
For Elevated Installation >40', Add	21.79	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0378	EA	3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	107.72	17.82
			<i>For Work In Restricted Working Space, Add</i>	13.37	
			<i>For Elevated Installation >10' To 15', Add</i>	4.46	
			<i>For Elevated Installation >15' To 20', Add</i>	8.91	
			<i>For Elevated Installation >20' To 25', Add</i>	11.14	
			<i>For Elevated Installation >25' To 30', Add</i>	15.59	
			<i>For Elevated Installation >30' To 35', Add</i>	17.82	
			<i>For Elevated Installation >35' To 40', Add</i>	22.28	
			<i>For Elevated Installation >40', Add</i>	24.50	
26 05 33	13-0379	EA	1" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	127.22	19.80
			<i>For Work In Restricted Working Space, Add</i>	14.85	
			<i>For Elevated Installation >10' To 15', Add</i>	4.95	
			<i>For Elevated Installation >15' To 20', Add</i>	9.90	
			<i>For Elevated Installation >20' To 25', Add</i>	12.38	
			<i>For Elevated Installation >25' To 30', Add</i>	17.33	
			<i>For Elevated Installation >30' To 35', Add</i>	19.80	
			<i>For Elevated Installation >35' To 40', Add</i>	24.76	
			<i>For Elevated Installation >40', Add</i>	27.23	
26 05 33	13-0380	EA	1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	155.11	21.78
			<i>For Work In Restricted Working Space, Add</i>	16.34	
			<i>For Elevated Installation >10' To 15', Add</i>	5.45	
			<i>For Elevated Installation >15' To 20', Add</i>	10.89	
			<i>For Elevated Installation >20' To 25', Add</i>	13.61	
			<i>For Elevated Installation >25' To 30', Add</i>	19.06	
			<i>For Elevated Installation >30' To 35', Add</i>	21.78	
			<i>For Elevated Installation >35' To 40', Add</i>	27.23	
			<i>For Elevated Installation >40', Add</i>	29.95	
26 05 33	13-0381	EA	1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	193.93	23.76
			<i>For Work In Restricted Working Space, Add</i>	17.82	
			<i>For Elevated Installation >10' To 15', Add</i>	5.94	
			<i>For Elevated Installation >15' To 20', Add</i>	11.88	
			<i>For Elevated Installation >20' To 25', Add</i>	14.85	
			<i>For Elevated Installation >25' To 30', Add</i>	20.79	
			<i>For Elevated Installation >30' To 35', Add</i>	23.76	
			<i>For Elevated Installation >35' To 40', Add</i>	29.70	
			<i>For Elevated Installation >40', Add</i>	32.67	
26 05 33	13-0382	EA	2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	266.13	25.74
			<i>For Work In Restricted Working Space, Add</i>	19.30	
			<i>For Elevated Installation >10' To 15', Add</i>	6.43	
			<i>For Elevated Installation >15' To 20', Add</i>	12.87	
			<i>For Elevated Installation >20' To 25', Add</i>	16.09	
			<i>For Elevated Installation >25' To 30', Add</i>	22.52	
			<i>For Elevated Installation >30' To 35', Add</i>	25.74	
			<i>For Elevated Installation >35' To 40', Add</i>	32.17	
			<i>For Elevated Installation >40', Add</i>	35.39	
26 05 33	13-0383	EA	2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	405.40	31.68
			<i>For Work In Restricted Working Space, Add</i>	23.76	
			<i>For Elevated Installation >10' To 15', Add</i>	7.92	
			<i>For Elevated Installation >15' To 20', Add</i>	15.84	
			<i>For Elevated Installation >20' To 25', Add</i>	19.80	
			<i>For Elevated Installation >25' To 30', Add</i>	27.72	
			<i>For Elevated Installation >30' To 35', Add</i>	31.68	
			<i>For Elevated Installation >35' To 40', Add</i>	39.60	
			<i>For Elevated Installation >40', Add</i>	43.56	
26 05 33	13-0384	EA	3" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	519.13	39.60
			<i>For Work In Restricted Working Space, Add</i>	29.70	
			<i>For Elevated Installation >10' To 15', Add</i>	9.90	
			<i>For Elevated Installation >15' To 20', Add</i>	19.80	
			<i>For Elevated Installation >20' To 25', Add</i>	24.75	
			<i>For Elevated Installation >25' To 30', Add</i>	34.65	
			<i>For Elevated Installation >30' To 35', Add</i>	39.60	
			<i>For Elevated Installation >35' To 40', Add</i>	49.50	
			<i>For Elevated Installation >40', Add</i>	54.45	
26 05 33	13-0385	EA	3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	755.04	47.53
			<i>For Work In Restricted Working Space, Add</i>	35.65	
			<i>For Elevated Installation >10' To 15', Add</i>	11.88	
			<i>For Elevated Installation >15' To 20', Add</i>	23.76	
			<i>For Elevated Installation >20' To 25', Add</i>	29.71	
			<i>For Elevated Installation >25' To 30', Add</i>	41.59	
			<i>For Elevated Installation >30' To 35', Add</i>	47.53	
			<i>For Elevated Installation >35' To 40', Add</i>	59.41	
			<i>For Elevated Installation >40', Add</i>	65.35	
26 05 33	13-0386	EA	4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	805.09	51.49
			<i>For Work In Restricted Working Space, Add</i>	38.61	
			<i>For Elevated Installation >10' To 15', Add</i>	12.87	
			<i>For Elevated Installation >15' To 20', Add</i>	25.74	
			<i>For Elevated Installation >20' To 25', Add</i>	32.18	
			<i>For Elevated Installation >25' To 30', Add</i>	45.05	
			<i>For Elevated Installation >30' To 35', Add</i>	51.48	
			<i>For Elevated Installation >35' To 40', Add</i>	64.35	
			<i>For Elevated Installation >40', Add</i>	70.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0387 EA 5" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	1,228.90	63.36
<i>For Work In Restricted Working Space, Add</i>	47.52	
<i>For Elevated Installation >10' To 15', Add</i>	15.84	
<i>For Elevated Installation >15' To 20', Add</i>	31.68	
<i>For Elevated Installation >20' To 25', Add</i>	39.60	
<i>For Elevated Installation >25' To 30', Add</i>	55.44	
<i>For Elevated Installation >30' To 35', Add</i>	63.36	
<i>For Elevated Installation >35' To 40', Add</i>	79.21	
<i>For Elevated Installation >40', Add</i>	87.13	
26 05 33 13-0388 EA 6" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	1,507.54	70.29
<i>For Work In Restricted Working Space, Add</i>	52.75	
<i>For Elevated Installation >10' To 15', Add</i>	17.58	
<i>For Elevated Installation >15' To 20', Add</i>	35.17	
<i>For Elevated Installation >20' To 25', Add</i>	43.96	
<i>For Elevated Installation >25' To 30', Add</i>	61.54	
<i>For Elevated Installation >30' To 35', Add</i>	70.33	
<i>For Elevated Installation >35' To 40', Add</i>	87.92	
<i>For Elevated Installation >40', Add</i>	96.71	
26 05 33 13-0389 Rigid Galvanized Steel (RGS) Expansion Fittings, 8" Conduit Movement _{26 05}		
<small>33 13-0059</small>		
Note: Type AX-8		
26 05 33 13-0390 EA 1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	104.20	15.84
<i>For Work In Restricted Working Space, Add</i>	11.88	
<i>For Elevated Installation >10' To 15', Add</i>	3.96	
<i>For Elevated Installation >15' To 20', Add</i>	7.92	
<i>For Elevated Installation >20' To 25', Add</i>	9.90	
<i>For Elevated Installation >25' To 30', Add</i>	13.86	
<i>For Elevated Installation >30' To 35', Add</i>	15.84	
<i>For Elevated Installation >35' To 40', Add</i>	19.81	
<i>For Elevated Installation >40', Add</i>	21.79	
26 05 33 13-0391 EA 3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	115.92	17.82
<i>For Work In Restricted Working Space, Add</i>	13.37	
<i>For Elevated Installation >10' To 15', Add</i>	4.46	
<i>For Elevated Installation >15' To 20', Add</i>	8.91	
<i>For Elevated Installation >20' To 25', Add</i>	11.14	
<i>For Elevated Installation >25' To 30', Add</i>	15.59	
<i>For Elevated Installation >30' To 35', Add</i>	17.82	
<i>For Elevated Installation >35' To 40', Add</i>	22.28	
<i>For Elevated Installation >40', Add</i>	24.50	
26 05 33 13-0392 EA 1" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	140.09	19.80
<i>For Work In Restricted Working Space, Add</i>	14.85	
<i>For Elevated Installation >10' To 15', Add</i>	4.95	
<i>For Elevated Installation >15' To 20', Add</i>	9.90	
<i>For Elevated Installation >20' To 25', Add</i>	12.38	
<i>For Elevated Installation >25' To 30', Add</i>	17.33	
<i>For Elevated Installation >30' To 35', Add</i>	19.80	
<i>For Elevated Installation >35' To 40', Add</i>	24.76	
<i>For Elevated Installation >40', Add</i>	27.23	
26 05 33 13-0393 EA 1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	175.37	21.78
<i>For Work In Restricted Working Space, Add</i>	16.34	
<i>For Elevated Installation >10' To 15', Add</i>	5.45	
<i>For Elevated Installation >15' To 20', Add</i>	10.89	
<i>For Elevated Installation >20' To 25', Add</i>	13.61	
<i>For Elevated Installation >25' To 30', Add</i>	19.06	
<i>For Elevated Installation >30' To 35', Add</i>	21.78	
<i>For Elevated Installation >35' To 40', Add</i>	27.23	
<i>For Elevated Installation >40', Add</i>	29.95	
26 05 33 13-0394 EA 1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	234.18	23.76
<i>For Work In Restricted Working Space, Add</i>	17.82	
<i>For Elevated Installation >10' To 15', Add</i>	5.94	
<i>For Elevated Installation >15' To 20', Add</i>	11.88	
<i>For Elevated Installation >20' To 25', Add</i>	14.85	
<i>For Elevated Installation >25' To 30', Add</i>	20.79	
<i>For Elevated Installation >30' To 35', Add</i>	23.76	
<i>For Elevated Installation >35' To 40', Add</i>	29.70	
<i>For Elevated Installation >40', Add</i>	32.67	
26 05 33 13-0395 EA 2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	285.36	25.74
<i>For Work In Restricted Working Space, Add</i>	19.30	
<i>For Elevated Installation >10' To 15', Add</i>	6.43	
<i>For Elevated Installation >15' To 20', Add</i>	12.87	
<i>For Elevated Installation >20' To 25', Add</i>	16.09	
<i>For Elevated Installation >25' To 30', Add</i>	22.52	
<i>For Elevated Installation >30' To 35', Add</i>	25.74	
<i>For Elevated Installation >35' To 40', Add</i>	32.17	
<i>For Elevated Installation >40', Add</i>	35.39	
26 05 33 13-0396 EA 2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	530.08	31.68
<i>For Work In Restricted Working Space, Add</i>	23.76	
<i>For Elevated Installation >10' To 15', Add</i>	7.92	
<i>For Elevated Installation >15' To 20', Add</i>	15.84	
<i>For Elevated Installation >20' To 25', Add</i>	19.80	
<i>For Elevated Installation >25' To 30', Add</i>	27.72	
<i>For Elevated Installation >30' To 35', Add</i>	31.68	
<i>For Elevated Installation >35' To 40', Add</i>	39.60	
<i>For Elevated Installation >40', Add</i>	43.56	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0397	EA		3" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	604.27	39.60
			<i>For Work In Restricted Working Space, Add</i>	29.70	
			<i>For Elevated Installation >10' To 15', Add</i>	9.90	
			<i>For Elevated Installation >15' To 20', Add</i>	19.80	
			<i>For Elevated Installation >20' To 25', Add</i>	24.75	
			<i>For Elevated Installation >25' To 30', Add</i>	34.65	
			<i>For Elevated Installation >30' To 35', Add</i>	39.60	
			<i>For Elevated Installation >35' To 40', Add</i>	49.50	
			<i>For Elevated Installation >40', Add</i>	54.45	
26 05 33 13-0398	EA		3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	923.28	47.53
			<i>For Work In Restricted Working Space, Add</i>	35.65	
			<i>For Elevated Installation >10' To 15', Add</i>	11.88	
			<i>For Elevated Installation >15' To 20', Add</i>	23.76	
			<i>For Elevated Installation >20' To 25', Add</i>	29.71	
			<i>For Elevated Installation >25' To 30', Add</i>	41.59	
			<i>For Elevated Installation >30' To 35', Add</i>	47.53	
			<i>For Elevated Installation >35' To 40', Add</i>	59.41	
			<i>For Elevated Installation >40', Add</i>	65.35	
26 05 33 13-0399	EA		4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	999.55	51.49
			<i>For Work In Restricted Working Space, Add</i>	38.61	
			<i>For Elevated Installation >10' To 15', Add</i>	12.87	
			<i>For Elevated Installation >15' To 20', Add</i>	25.74	
			<i>For Elevated Installation >20' To 25', Add</i>	32.18	
			<i>For Elevated Installation >25' To 30', Add</i>	45.05	
			<i>For Elevated Installation >30' To 35', Add</i>	51.48	
			<i>For Elevated Installation >35' To 40', Add</i>	64.35	
			<i>For Elevated Installation >40', Add</i>	70.79	
26 05 33 13-0400	EA		5" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	1,392.82	63.36
			<i>For Work In Restricted Working Space, Add</i>	47.52	
			<i>For Elevated Installation >10' To 15', Add</i>	15.84	
			<i>For Elevated Installation >15' To 20', Add</i>	31.68	
			<i>For Elevated Installation >20' To 25', Add</i>	39.60	
			<i>For Elevated Installation >25' To 30', Add</i>	55.44	
			<i>For Elevated Installation >30' To 35', Add</i>	63.36	
			<i>For Elevated Installation >35' To 40', Add</i>	79.21	
			<i>For Elevated Installation >40', Add</i>	87.13	
26 05 33 13-0401	EA		6" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	1,718.44	70.29
			<i>For Work In Restricted Working Space, Add</i>	52.75	
			<i>For Elevated Installation >10' To 15', Add</i>	17.58	
			<i>For Elevated Installation >15' To 20', Add</i>	35.17	
			<i>For Elevated Installation >20' To 25', Add</i>	43.96	
			<i>For Elevated Installation >25' To 30', Add</i>	61.54	
			<i>For Elevated Installation >30' To 35', Add</i>	70.33	
			<i>For Elevated Installation >35' To 40', Add</i>	87.92	
			<i>For Elevated Installation >40', Add</i>	96.71	
26 05 33 13-0402			Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fittings, 8" Conduit Movement <small>(26 05 33 13-0059)</small>		
			Note: Type EX		
26 05 33 13-0403	EA		1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	117.74	15.84
			<i>For Work In Restricted Working Space, Add</i>	11.88	
			<i>For Elevated Installation >10' To 15', Add</i>	3.96	
			<i>For Elevated Installation >15' To 20', Add</i>	7.92	
			<i>For Elevated Installation >20' To 25', Add</i>	9.90	
			<i>For Elevated Installation >25' To 30', Add</i>	13.86	
			<i>For Elevated Installation >30' To 35', Add</i>	15.84	
			<i>For Elevated Installation >35' To 40', Add</i>	19.81	
			<i>For Elevated Installation >40', Add</i>	21.79	
26 05 33 13-0404	EA		3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	147.84	17.82
			<i>For Work In Restricted Working Space, Add</i>	13.37	
			<i>For Elevated Installation >10' To 15', Add</i>	4.46	
			<i>For Elevated Installation >15' To 20', Add</i>	8.91	
			<i>For Elevated Installation >20' To 25', Add</i>	11.14	
			<i>For Elevated Installation >25' To 30', Add</i>	15.59	
			<i>For Elevated Installation >30' To 35', Add</i>	17.82	
			<i>For Elevated Installation >35' To 40', Add</i>	22.28	
			<i>For Elevated Installation >40', Add</i>	24.50	
26 05 33 13-0405	EA		1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	183.21	19.80
			<i>For Work In Restricted Working Space, Add</i>	14.85	
			<i>For Elevated Installation >10' To 15', Add</i>	4.95	
			<i>For Elevated Installation >15' To 20', Add</i>	9.90	
			<i>For Elevated Installation >20' To 25', Add</i>	12.38	
			<i>For Elevated Installation >25' To 30', Add</i>	17.33	
			<i>For Elevated Installation >30' To 35', Add</i>	19.80	
			<i>For Elevated Installation >35' To 40', Add</i>	24.76	
			<i>For Elevated Installation >40', Add</i>	27.23	
26 05 33 13-0406	EA		1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	222.06	21.78
			<i>For Work In Restricted Working Space, Add</i>	16.34	
			<i>For Elevated Installation >10' To 15', Add</i>	5.45	
			<i>For Elevated Installation >15' To 20', Add</i>	10.89	
			<i>For Elevated Installation >20' To 25', Add</i>	13.61	
			<i>For Elevated Installation >25' To 30', Add</i>	19.06	
			<i>For Elevated Installation >30' To 35', Add</i>	21.78	
			<i>For Elevated Installation >35' To 40', Add</i>	27.23	
			<i>For Elevated Installation >40', Add</i>	29.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0407 EA 1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	297.40	23.76
<i>For Work In Restricted Working Space, Add</i>	17.82	
<i>For Elevated Installation >10' To 15', Add</i>	5.94	
<i>For Elevated Installation >15' To 20', Add</i>	11.88	
<i>For Elevated Installation >20' To 25', Add</i>	14.85	
<i>For Elevated Installation >25' To 30', Add</i>	20.79	
<i>For Elevated Installation >30' To 35', Add</i>	23.76	
<i>For Elevated Installation >35' To 40', Add</i>	29.70	
<i>For Elevated Installation >40', Add</i>	32.67	
26 05 33 13-0408 EA 2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	407.54	25.74
<i>For Work In Restricted Working Space, Add</i>	19.30	
<i>For Elevated Installation >10' To 15', Add</i>	6.43	
<i>For Elevated Installation >15' To 20', Add</i>	12.87	
<i>For Elevated Installation >20' To 25', Add</i>	16.09	
<i>For Elevated Installation >25' To 30', Add</i>	22.52	
<i>For Elevated Installation >30' To 35', Add</i>	25.74	
<i>For Elevated Installation >35' To 40', Add</i>	32.17	
<i>For Elevated Installation >40', Add</i>	35.39	
26 05 33 13-0409 EA 2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	630.67	31.68
<i>For Work In Restricted Working Space, Add</i>	23.76	
<i>For Elevated Installation >10' To 15', Add</i>	7.92	
<i>For Elevated Installation >15' To 20', Add</i>	15.84	
<i>For Elevated Installation >20' To 25', Add</i>	19.80	
<i>For Elevated Installation >25' To 30', Add</i>	27.72	
<i>For Elevated Installation >30' To 35', Add</i>	31.68	
<i>For Elevated Installation >35' To 40', Add</i>	39.60	
<i>For Elevated Installation >40', Add</i>	43.56	
26 05 33 13-0410 EA 3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	849.19	39.60
<i>For Work In Restricted Working Space, Add</i>	29.70	
<i>For Elevated Installation >10' To 15', Add</i>	9.90	
<i>For Elevated Installation >15' To 20', Add</i>	19.80	
<i>For Elevated Installation >20' To 25', Add</i>	24.75	
<i>For Elevated Installation >25' To 30', Add</i>	34.65	
<i>For Elevated Installation >30' To 35', Add</i>	39.60	
<i>For Elevated Installation >35' To 40', Add</i>	49.50	
<i>For Elevated Installation >40', Add</i>	54.45	
26 05 33 13-0411 EA 3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,271.64	47.53
<i>For Work In Restricted Working Space, Add</i>	35.65	
<i>For Elevated Installation >10' To 15', Add</i>	11.88	
<i>For Elevated Installation >15' To 20', Add</i>	23.76	
<i>For Elevated Installation >20' To 25', Add</i>	29.71	
<i>For Elevated Installation >25' To 30', Add</i>	41.59	
<i>For Elevated Installation >30' To 35', Add</i>	47.53	
<i>For Elevated Installation >35' To 40', Add</i>	59.41	
<i>For Elevated Installation >40', Add</i>	65.35	
26 05 33 13-0412 EA 4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,316.85	51.49
<i>For Work In Restricted Working Space, Add</i>	38.61	
<i>For Elevated Installation >10' To 15', Add</i>	12.87	
<i>For Elevated Installation >15' To 20', Add</i>	25.74	
<i>For Elevated Installation >20' To 25', Add</i>	32.18	
<i>For Elevated Installation >25' To 30', Add</i>	45.05	
<i>For Elevated Installation >30' To 35', Add</i>	51.48	
<i>For Elevated Installation >35' To 40', Add</i>	64.35	
<i>For Elevated Installation >40', Add</i>	70.79	
26 05 33 13-0413 EA 5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,977.72	63.36
<i>For Work In Restricted Working Space, Add</i>	47.52	
<i>For Elevated Installation >10' To 15', Add</i>	15.84	
<i>For Elevated Installation >15' To 20', Add</i>	31.68	
<i>For Elevated Installation >20' To 25', Add</i>	39.60	
<i>For Elevated Installation >25' To 30', Add</i>	55.44	
<i>For Elevated Installation >30' To 35', Add</i>	63.36	
<i>For Elevated Installation >35' To 40', Add</i>	79.21	
<i>For Elevated Installation >40', Add</i>	87.13	
26 05 33 13-0414 EA 6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	2,449.38	70.29
<i>For Work In Restricted Working Space, Add</i>	52.75	
<i>For Elevated Installation >10' To 15', Add</i>	17.58	
<i>For Elevated Installation >15' To 20', Add</i>	35.17	
<i>For Elevated Installation >20' To 25', Add</i>	43.96	
<i>For Elevated Installation >25' To 30', Add</i>	61.54	
<i>For Elevated Installation >30' To 35', Add</i>	70.33	
<i>For Elevated Installation >35' To 40', Add</i>	87.92	
<i>For Elevated Installation >40', Add</i>	96.71	
26 05 33 13-0415 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fittings <small>(26 05 33 13-0059)</small>		
Note: Type DX		
26 05 33 13-0416 EA 1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	201.23	15.84
<i>For Work In Restricted Working Space, Add</i>	11.88	
<i>For Elevated Installation >10' To 15', Add</i>	3.96	
<i>For Elevated Installation >15' To 20', Add</i>	7.92	
<i>For Elevated Installation >20' To 25', Add</i>	9.90	
<i>For Elevated Installation >25' To 30', Add</i>	13.86	
<i>For Elevated Installation >30' To 35', Add</i>	15.84	
<i>For Elevated Installation >35' To 40', Add</i>	19.81	
<i>For Elevated Installation >40', Add</i>	21.79	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0417	EA		3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	239.40	17.82
			<i>For Work In Restricted Working Space, Add</i>	13.37	
			<i>For Elevated Installation >10' To 15', Add</i>	4.46	
			<i>For Elevated Installation >15' To 20', Add</i>	8.91	
			<i>For Elevated Installation >20' To 25', Add</i>	11.14	
			<i>For Elevated Installation >25' To 30', Add</i>	15.59	
			<i>For Elevated Installation >30' To 35', Add</i>	17.82	
			<i>For Elevated Installation >35' To 40', Add</i>	22.28	
			<i>For Elevated Installation >40', Add</i>	24.50	
26 05 33 13-0418	EA		1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	288.87	19.80
			<i>For Work In Restricted Working Space, Add</i>	14.85	
			<i>For Elevated Installation >10' To 15', Add</i>	4.95	
			<i>For Elevated Installation >15' To 20', Add</i>	9.90	
			<i>For Elevated Installation >20' To 25', Add</i>	12.38	
			<i>For Elevated Installation >25' To 30', Add</i>	17.33	
			<i>For Elevated Installation >30' To 35', Add</i>	19.80	
			<i>For Elevated Installation >35' To 40', Add</i>	24.76	
			<i>For Elevated Installation >40', Add</i>	27.23	
26 05 33 13-0419	EA		1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	339.14	21.78
			<i>For Work In Restricted Working Space, Add</i>	16.34	
			<i>For Elevated Installation >10' To 15', Add</i>	5.45	
			<i>For Elevated Installation >15' To 20', Add</i>	10.89	
			<i>For Elevated Installation >20' To 25', Add</i>	13.61	
			<i>For Elevated Installation >25' To 30', Add</i>	19.06	
			<i>For Elevated Installation >30' To 35', Add</i>	21.78	
			<i>For Elevated Installation >35' To 40', Add</i>	27.23	
			<i>For Elevated Installation >40', Add</i>	29.95	
26 05 33 13-0420	EA		1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	374.94	23.76
			<i>For Work In Restricted Working Space, Add</i>	17.82	
			<i>For Elevated Installation >10' To 15', Add</i>	5.94	
			<i>For Elevated Installation >15' To 20', Add</i>	11.88	
			<i>For Elevated Installation >20' To 25', Add</i>	14.85	
			<i>For Elevated Installation >25' To 30', Add</i>	20.79	
			<i>For Elevated Installation >30' To 35', Add</i>	23.76	
			<i>For Elevated Installation >35' To 40', Add</i>	29.70	
			<i>For Elevated Installation >40', Add</i>	32.67	
26 05 33 13-0421	EA		2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	462.30	25.74
			<i>For Work In Restricted Working Space, Add</i>	19.30	
			<i>For Elevated Installation >10' To 15', Add</i>	6.43	
			<i>For Elevated Installation >15' To 20', Add</i>	12.87	
			<i>For Elevated Installation >20' To 25', Add</i>	16.09	
			<i>For Elevated Installation >25' To 30', Add</i>	22.52	
			<i>For Elevated Installation >30' To 35', Add</i>	25.74	
			<i>For Elevated Installation >35' To 40', Add</i>	32.17	
			<i>For Elevated Installation >40', Add</i>	35.39	
26 05 33 13-0422	EA		2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	610.34	31.68
			<i>For Work In Restricted Working Space, Add</i>	23.76	
			<i>For Elevated Installation >10' To 15', Add</i>	7.92	
			<i>For Elevated Installation >15' To 20', Add</i>	15.84	
			<i>For Elevated Installation >20' To 25', Add</i>	19.80	
			<i>For Elevated Installation >25' To 30', Add</i>	27.72	
			<i>For Elevated Installation >30' To 35', Add</i>	31.68	
			<i>For Elevated Installation >35' To 40', Add</i>	39.60	
			<i>For Elevated Installation >40', Add</i>	43.56	
26 05 33 13-0423	EA		3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	773.86	39.60
			<i>For Work In Restricted Working Space, Add</i>	29.70	
			<i>For Elevated Installation >10' To 15', Add</i>	9.90	
			<i>For Elevated Installation >15' To 20', Add</i>	19.80	
			<i>For Elevated Installation >20' To 25', Add</i>	24.75	
			<i>For Elevated Installation >25' To 30', Add</i>	34.65	
			<i>For Elevated Installation >30' To 35', Add</i>	39.60	
			<i>For Elevated Installation >35' To 40', Add</i>	49.50	
			<i>For Elevated Installation >40', Add</i>	54.45	
26 05 33 13-0424	EA		3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	871.64	47.53
			<i>For Work In Restricted Working Space, Add</i>	35.65	
			<i>For Elevated Installation >10' To 15', Add</i>	11.88	
			<i>For Elevated Installation >15' To 20', Add</i>	23.76	
			<i>For Elevated Installation >20' To 25', Add</i>	29.71	
			<i>For Elevated Installation >25' To 30', Add</i>	41.59	
			<i>For Elevated Installation >30' To 35', Add</i>	47.53	
			<i>For Elevated Installation >35' To 40', Add</i>	59.41	
			<i>For Elevated Installation >40', Add</i>	65.35	
26 05 33 13-0425	EA		4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	1,055.12	51.49
			<i>For Work In Restricted Working Space, Add</i>	38.61	
			<i>For Elevated Installation >10' To 15', Add</i>	12.87	
			<i>For Elevated Installation >15' To 20', Add</i>	25.74	
			<i>For Elevated Installation >20' To 25', Add</i>	32.18	
			<i>For Elevated Installation >25' To 30', Add</i>	45.05	
			<i>For Elevated Installation >30' To 35', Add</i>	51.48	
			<i>For Elevated Installation >35' To 40', Add</i>	64.35	
			<i>For Elevated Installation >40', Add</i>	70.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0426 EA 5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	1,797.23	63.36
For Work In Restricted Working Space, Add	47.52	
For Elevated Installation >10' To 15', Add	15.84	
For Elevated Installation >15' To 20', Add	31.68	
For Elevated Installation >20' To 25', Add	39.60	
For Elevated Installation >25' To 30', Add	55.44	
For Elevated Installation >30' To 35', Add	63.36	
For Elevated Installation >35' To 40', Add	79.21	
For Elevated Installation >40', Add	87.13	
26 05 33 13-0427 EA 6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	2,848.52	70.29
For Work In Restricted Working Space, Add	52.75	
For Elevated Installation >10' To 15', Add	17.58	
For Elevated Installation >15' To 20', Add	35.17	
For Elevated Installation >20' To 25', Add	43.96	
For Elevated Installation >25' To 30', Add	61.54	
For Elevated Installation >30' To 35', Add	70.33	
For Elevated Installation >35' To 40', Add	87.92	
For Elevated Installation >40', Add	96.71	
26 05 33 13-0428 Rigid Galvanized Steel (RGS) Conduit Bonding Jumpers (26 05 33 13-0059)		
26 05 33 13-0429 EA 1/2" To 3/4" Conduit, 14" Bonding Jumper	53.13	7.92
For Work In Restricted Working Space, Add	5.94	
For Elevated Installation >10' To 15', Add	1.98	
For Elevated Installation >15' To 20', Add	3.96	
For Elevated Installation >20' To 25', Add	4.95	
For Elevated Installation >25' To 30', Add	6.93	
For Elevated Installation >30' To 35', Add	7.92	
For Elevated Installation >35' To 40', Add	9.91	
For Elevated Installation >40', Add	10.90	
26 05 33 13-0430 EA 1" To 1-1/4" Conduit, 14" Bonding Jumper	61.44	9.90
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15', Add	2.48	
For Elevated Installation >15' To 20', Add	4.95	
For Elevated Installation >20' To 25', Add	6.19	
For Elevated Installation >25' To 30', Add	8.66	
For Elevated Installation >30' To 35', Add	9.90	
For Elevated Installation >35' To 40', Add	12.38	
For Elevated Installation >40', Add	13.61	
26 05 33 13-0431 EA 1-1/2" To 2" Conduit, 14" Bonding Jumper	75.65	11.88
For Work In Restricted Working Space, Add	8.91	
For Elevated Installation >10' To 15', Add	2.97	
For Elevated Installation >15' To 20', Add	5.94	
For Elevated Installation >20' To 25', Add	7.43	
For Elevated Installation >25' To 30', Add	10.40	
For Elevated Installation >30' To 35', Add	11.88	
For Elevated Installation >35' To 40', Add	14.85	
For Elevated Installation >40', Add	16.34	
26 05 33 13-0432 EA 2-1/2" To 3" Conduit, 14" Bonding Jumper	106.00	15.84
For Work In Restricted Working Space, Add	11.88	
For Elevated Installation >10' To 15', Add	3.96	
For Elevated Installation >15' To 20', Add	7.92	
For Elevated Installation >20' To 25', Add	9.90	
For Elevated Installation >25' To 30', Add	13.86	
For Elevated Installation >30' To 35', Add	15.84	
For Elevated Installation >35' To 40', Add	19.80	
For Elevated Installation >40', Add	21.78	
26 05 33 13-0433 EA 3-1/2" To 4" Conduit, 14" Bonding Jumper	160.53	23.76
For Work In Restricted Working Space, Add	17.82	
For Elevated Installation >10' To 15', Add	5.94	
For Elevated Installation >15' To 20', Add	11.88	
For Elevated Installation >20' To 25', Add	14.85	
For Elevated Installation >25' To 30', Add	20.79	
For Elevated Installation >30' To 35', Add	23.76	
For Elevated Installation >35' To 40', Add	29.71	
For Elevated Installation >40', Add	32.68	
26 05 33 13-0434 EA 5" To 6" Conduit, 14" Bonding Jumper	271.32	31.68
For Work In Restricted Working Space, Add	23.76	
For Elevated Installation >10' To 15', Add	7.92	
For Elevated Installation >15' To 20', Add	15.84	
For Elevated Installation >20' To 25', Add	19.80	
For Elevated Installation >25' To 30', Add	27.72	
For Elevated Installation >30' To 35', Add	31.68	
For Elevated Installation >35' To 40', Add	39.60	
For Elevated Installation >40', Add	43.56	
26 05 33 13-0435 EA 1/2" To 3/4" Conduit, 24" Bonding Jumper	58.84	7.92
For Work In Restricted Working Space, Add	5.94	
For Elevated Installation >10' To 15', Add	1.98	
For Elevated Installation >15' To 20', Add	3.96	
For Elevated Installation >20' To 25', Add	4.95	
For Elevated Installation >25' To 30', Add	6.93	
For Elevated Installation >30' To 35', Add	7.92	
For Elevated Installation >35' To 40', Add	9.91	
For Elevated Installation >40', Add	10.90	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0436	EA	1"	To 1-1/4" Conduit, 24" Bonding Jumper	68.65	9.90
			<i>For Work In Restricted Working Space, Add</i>	7.43	
			<i>For Elevated Installation >10' To 15', Add</i>	2.48	
			<i>For Elevated Installation >15' To 20', Add</i>	4.95	
			<i>For Elevated Installation >20' To 25', Add</i>	6.19	
			<i>For Elevated Installation >25' To 30', Add</i>	8.66	
			<i>For Elevated Installation >30' To 35', Add</i>	9.90	
			<i>For Elevated Installation >35' To 40', Add</i>	12.38	
			<i>For Elevated Installation >40', Add</i>	13.61	
26 05 33 13-0437	EA	1-1/2"	To 2" Conduit, 24" Bonding Jumper	82.25	11.88
			<i>For Work In Restricted Working Space, Add</i>	8.91	
			<i>For Elevated Installation >10' To 15', Add</i>	2.97	
			<i>For Elevated Installation >15' To 20', Add</i>	5.94	
			<i>For Elevated Installation >20' To 25', Add</i>	7.43	
			<i>For Elevated Installation >25' To 30', Add</i>	10.40	
			<i>For Elevated Installation >30' To 35', Add</i>	11.88	
			<i>For Elevated Installation >35' To 40', Add</i>	14.85	
			<i>For Elevated Installation >40', Add</i>	16.34	
26 05 33 13-0438	EA	2-1/2"	To 3" Conduit, 24" Bonding Jumper	114.77	15.84
			<i>For Work In Restricted Working Space, Add</i>	11.88	
			<i>For Elevated Installation >10' To 15', Add</i>	3.96	
			<i>For Elevated Installation >15' To 20', Add</i>	7.92	
			<i>For Elevated Installation >20' To 25', Add</i>	9.90	
			<i>For Elevated Installation >25' To 30', Add</i>	13.86	
			<i>For Elevated Installation >30' To 35', Add</i>	15.84	
			<i>For Elevated Installation >35' To 40', Add</i>	19.80	
			<i>For Elevated Installation >40', Add</i>	21.78	
26 05 33 13-0439	EA	3-1/2"	To 4" Conduit, 24" Bonding Jumper	172.16	23.76
			<i>For Work In Restricted Working Space, Add</i>	17.82	
			<i>For Elevated Installation >10' To 15', Add</i>	5.94	
			<i>For Elevated Installation >15' To 20', Add</i>	11.88	
			<i>For Elevated Installation >20' To 25', Add</i>	14.85	
			<i>For Elevated Installation >25' To 30', Add</i>	20.79	
			<i>For Elevated Installation >30' To 35', Add</i>	23.76	
			<i>For Elevated Installation >35' To 40', Add</i>	29.71	
			<i>For Elevated Installation >40', Add</i>	32.68	
26 05 33 13-0440	EA	5"	To 6" Conduit, 24" Bonding Jumper.....	308.83	31.68
			<i>For Work In Restricted Working Space, Add</i>	23.76	
			<i>For Elevated Installation >10' To 15', Add</i>	7.92	
			<i>For Elevated Installation >15' To 20', Add</i>	15.84	
			<i>For Elevated Installation >20' To 25', Add</i>	19.80	
			<i>For Elevated Installation >25' To 30', Add</i>	27.72	
			<i>For Elevated Installation >30' To 35', Add</i>	31.68	
			<i>For Elevated Installation >35' To 40', Add</i>	39.60	
			<i>For Elevated Installation >40', Add</i>	43.56	
26 05 33 13-0441			Rigid Galvanized Steel (RGS) Sealing Fittings, Vertical/Horizontal <small>(26 05 33 13-0059)</small>		
26 05 33 13-0442	EA	1/2"	Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	97.88	24.75
			<i>For Work In Restricted Working Space, Add</i>	14.85	
			<i>For Elevated Installation >10' To 15', Add</i>	4.95	
			<i>For Elevated Installation >15' To 20', Add</i>	9.90	
			<i>For Elevated Installation >20' To 25', Add</i>	12.38	
			<i>For Elevated Installation >25' To 30', Add</i>	17.33	
			<i>For Elevated Installation >30' To 35', Add</i>	19.80	
			<i>For Elevated Installation >35' To 40', Add</i>	24.75	
			<i>For Elevated Installation >40', Add</i>	27.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.85	
26 05 33 13-0443	EA	3/4"	Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	116.22	29.70
			<i>For Work In Restricted Working Space, Add</i>	17.82	
			<i>For Elevated Installation >10' To 15', Add</i>	5.94	
			<i>For Elevated Installation >15' To 20', Add</i>	11.88	
			<i>For Elevated Installation >20' To 25', Add</i>	14.85	
			<i>For Elevated Installation >25' To 30', Add</i>	20.79	
			<i>For Elevated Installation >30' To 35', Add</i>	23.76	
			<i>For Elevated Installation >35' To 40', Add</i>	29.70	
			<i>For Elevated Installation >40', Add</i>	32.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.82	
26 05 33 13-0444	EA	1"	Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	142.34	34.65
			<i>For Work In Restricted Working Space, Add</i>	20.79	
			<i>For Elevated Installation >10' To 15', Add</i>	6.93	
			<i>For Elevated Installation >15' To 20', Add</i>	13.86	
			<i>For Elevated Installation >20' To 25', Add</i>	17.33	
			<i>For Elevated Installation >25' To 30', Add</i>	24.26	
			<i>For Elevated Installation >30' To 35', Add</i>	27.72	
			<i>For Elevated Installation >35' To 40', Add</i>	34.66	
			<i>For Elevated Installation >40', Add</i>	38.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0445 EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	167.88	39.60
For Work In Restricted Working Space, Add	23.76	
For Elevated Installation >10' To 15', Add	7.92	
For Elevated Installation >15' To 20', Add	15.84	
For Elevated Installation >20' To 25', Add	19.80	
For Elevated Installation >25' To 30', Add	27.72	
For Elevated Installation >30' To 35', Add	31.68	
For Elevated Installation >35' To 40', Add	39.60	
For Elevated Installation >40', Add	43.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.76	
26 05 33 13-0446 EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	222.61	44.56
For Work In Restricted Working Space, Add	26.73	
For Elevated Installation >10' To 15', Add	8.91	
For Elevated Installation >15' To 20', Add	17.82	
For Elevated Installation >20' To 25', Add	22.28	
For Elevated Installation >25' To 30', Add	31.19	
For Elevated Installation >30' To 35', Add	35.64	
For Elevated Installation >35' To 40', Add	44.55	
For Elevated Installation >40', Add	49.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.73	
26 05 33 13-0447 EA 2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	271.98	49.50
For Work In Restricted Working Space, Add	29.70	
For Elevated Installation >10' To 15', Add	9.90	
For Elevated Installation >15' To 20', Add	19.80	
For Elevated Installation >20' To 25', Add	24.75	
For Elevated Installation >25' To 30', Add	34.65	
For Elevated Installation >30' To 35', Add	39.60	
For Elevated Installation >35' To 40', Add	49.50	
For Elevated Installation >40', Add	54.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.70	
26 05 33 13-0448 EA 2-1/2" Rigid Galvanized Steel (RGS) Conduit Sealing Fitting, Vertical/Horizontal	387.57	59.40
For Work In Restricted Working Space, Add	35.64	
For Elevated Installation >10' To 15', Add	11.88	
For Elevated Installation >15' To 20', Add	23.76	
For Elevated Installation >20' To 25', Add	29.70	
For Elevated Installation >25' To 30', Add	41.58	
For Elevated Installation >30' To 35', Add	47.52	
For Elevated Installation >35' To 40', Add	59.41	
For Elevated Installation >40', Add	65.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.64	
26 05 33 13-0449 EA 3" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	466.90	69.31
For Work In Restricted Working Space, Add	41.58	
For Elevated Installation >10' To 15', Add	13.86	
For Elevated Installation >15' To 20', Add	27.72	
For Elevated Installation >20' To 25', Add	34.65	
For Elevated Installation >25' To 30', Add	48.51	
For Elevated Installation >30' To 35', Add	55.44	
For Elevated Installation >35' To 40', Add	69.30	
For Elevated Installation >40', Add	76.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.58	
26 05 33 13-0450 EA 3-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	1,105.26	79.20
For Work In Restricted Working Space, Add	47.52	
For Elevated Installation >10' To 15', Add	15.84	
For Elevated Installation >15' To 20', Add	31.68	
For Elevated Installation >20' To 25', Add	39.60	
For Elevated Installation >25' To 30', Add	55.44	
For Elevated Installation >30' To 35', Add	63.36	
For Elevated Installation >35' To 40', Add	79.21	
For Elevated Installation >40', Add	87.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.52	
26 05 33 13-0451 EA 4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	1,274.04	89.10
For Work In Restricted Working Space, Add	53.46	
For Elevated Installation >10' To 15', Add	17.82	
For Elevated Installation >15' To 20', Add	35.64	
For Elevated Installation >20' To 25', Add	44.55	
For Elevated Installation >25' To 30', Add	62.37	
For Elevated Installation >30' To 35', Add	71.28	
For Elevated Installation >35' To 40', Add	89.11	
For Elevated Installation >40', Add	98.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.46	
26 05 33 13-0452 Rigid Galvanized Steel (RGS) Threaded Couplings (26 05 33 13-0059)		
26 05 33 13-0453 EA 1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	13.00	5.94
For Work In Restricted Working Space, Add	3.56	
For Elevated Installation >10' To 15', Add	1.19	
For Elevated Installation >15' To 20', Add	2.38	
For Elevated Installation >20' To 25', Add	2.97	
For Elevated Installation >25' To 30', Add	4.16	
For Elevated Installation >30' To 35', Add	4.75	
For Elevated Installation >35' To 40', Add	5.94	
For Elevated Installation >40', Add	6.53	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0454	EA		3/4" Rigid Galvanized Steel (RGS) Threaded Coupling.....	18.23	8.41
			<i>For Work In Restricted Working Space, Add</i>	5.05	
			<i>For Elevated Installation >10' To 15', Add</i>	1.68	
			<i>For Elevated Installation >15' To 20', Add</i>	3.37	
			<i>For Elevated Installation >20' To 25', Add</i>	4.21	
			<i>For Elevated Installation >25' To 30', Add</i>	5.89	
			<i>For Elevated Installation >30' To 35', Add</i>	6.73	
			<i>For Elevated Installation >35' To 40', Add</i>	8.42	
			<i>For Elevated Installation >40', Add</i>	9.26	
26 05 33 13-0455	EA		1" Rigid Galvanized Steel (RGS) Threaded Coupling.....	23.92	10.89
			<i>For Work In Restricted Working Space, Add</i>	6.53	
			<i>For Elevated Installation >10' To 15', Add</i>	2.18	
			<i>For Elevated Installation >15' To 20', Add</i>	4.36	
			<i>For Elevated Installation >20' To 25', Add</i>	5.45	
			<i>For Elevated Installation >25' To 30', Add</i>	7.62	
			<i>For Elevated Installation >30' To 35', Add</i>	8.71	
			<i>For Elevated Installation >35' To 40', Add</i>	10.89	
			<i>For Elevated Installation >40', Add</i>	11.98	
26 05 33 13-0456	EA		1-1/4" Rigid Galvanized Steel (RGS) Threaded Coupling.....	27.45	12.38
			<i>For Work In Restricted Working Space, Add</i>	7.43	
			<i>For Elevated Installation >10' To 15', Add</i>	2.48	
			<i>For Elevated Installation >15' To 20', Add</i>	4.95	
			<i>For Elevated Installation >20' To 25', Add</i>	6.19	
			<i>For Elevated Installation >25' To 30', Add</i>	8.66	
			<i>For Elevated Installation >30' To 35', Add</i>	9.90	
			<i>For Elevated Installation >35' To 40', Add</i>	12.38	
			<i>For Elevated Installation >40', Add</i>	13.61	
26 05 33 13-0457	EA		1-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	33.08	14.85
			<i>For Work In Restricted Working Space, Add</i>	8.91	
			<i>For Elevated Installation >10' To 15', Add</i>	2.97	
			<i>For Elevated Installation >15' To 20', Add</i>	5.94	
			<i>For Elevated Installation >20' To 25', Add</i>	7.43	
			<i>For Elevated Installation >25' To 30', Add</i>	10.40	
			<i>For Elevated Installation >30' To 35', Add</i>	11.88	
			<i>For Elevated Installation >35' To 40', Add</i>	14.85	
			<i>For Elevated Installation >40', Add</i>	16.34	
26 05 33 13-0458	EA		2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	38.71	16.83
			<i>For Work In Restricted Working Space, Add</i>	10.10	
			<i>For Elevated Installation >10' To 15', Add</i>	3.37	
			<i>For Elevated Installation >15' To 20', Add</i>	6.73	
			<i>For Elevated Installation >20' To 25', Add</i>	8.42	
			<i>For Elevated Installation >25' To 30', Add</i>	11.78	
			<i>For Elevated Installation >30' To 35', Add</i>	13.47	
			<i>For Elevated Installation >35' To 40', Add</i>	16.84	
			<i>For Elevated Installation >40', Add</i>	18.52	
26 05 33 13-0459	EA		2-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	48.94	18.81
			<i>For Work In Restricted Working Space, Add</i>	11.29	
			<i>For Elevated Installation >10' To 15', Add</i>	3.76	
			<i>For Elevated Installation >15' To 20', Add</i>	7.53	
			<i>For Elevated Installation >20' To 25', Add</i>	9.41	
			<i>For Elevated Installation >25' To 30', Add</i>	13.17	
			<i>For Elevated Installation >30' To 35', Add</i>	15.05	
			<i>For Elevated Installation >35' To 40', Add</i>	18.82	
			<i>For Elevated Installation >40', Add</i>	20.70	
26 05 33 13-0460	EA		3" Rigid Galvanized Steel (RGS) Threaded Coupling.....	57.27	21.29
			<i>For Work In Restricted Working Space, Add</i>	12.77	
			<i>For Elevated Installation >10' To 15', Add</i>	4.26	
			<i>For Elevated Installation >15' To 20', Add</i>	8.51	
			<i>For Elevated Installation >20' To 25', Add</i>	10.64	
			<i>For Elevated Installation >25' To 30', Add</i>	14.90	
			<i>For Elevated Installation >30' To 35', Add</i>	17.03	
			<i>For Elevated Installation >35' To 40', Add</i>	21.29	
			<i>For Elevated Installation >40', Add</i>	23.41	
26 05 33 13-0461	EA		3-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	66.39	23.27
			<i>For Work In Restricted Working Space, Add</i>	13.96	
			<i>For Elevated Installation >10' To 15', Add</i>	4.65	
			<i>For Elevated Installation >15' To 20', Add</i>	9.31	
			<i>For Elevated Installation >20' To 25', Add</i>	11.63	
			<i>For Elevated Installation >25' To 30', Add</i>	16.29	
			<i>For Elevated Installation >30' To 35', Add</i>	18.61	
			<i>For Elevated Installation >35' To 40', Add</i>	23.27	
			<i>For Elevated Installation >40', Add</i>	25.59	
26 05 33 13-0462	EA		4" Threaded Rigid Galvanized Steel (RGS) Coupling.....	70.19	24.75
			<i>For Work In Restricted Working Space, Add</i>	14.85	
			<i>For Elevated Installation >10' To 15', Add</i>	4.95	
			<i>For Elevated Installation >15' To 20', Add</i>	9.90	
			<i>For Elevated Installation >20' To 25', Add</i>	12.38	
			<i>For Elevated Installation >25' To 30', Add</i>	17.33	
			<i>For Elevated Installation >30' To 35', Add</i>	19.80	
			<i>For Elevated Installation >35' To 40', Add</i>	24.75	
			<i>For Elevated Installation >40', Add</i>	27.23	
26 05 33 13-0463			Rigid Galvanized Steel (RGS) Sealing Locknut (26 05 33 13-0059)		
26 05 33 13-0464	EA		1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	2.97	0.99
26 05 33 13-0465	EA		3/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	4.11	1.48
26 05 33 13-0466	EA		1" Rigid Galvanized Steel (RGS) Sealing Locknut.....	6.83	2.48



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0467 EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	9.87	3.47
26 05 33 13-0468 EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	11.80	3.96
26 05 33 13-0469 EA 2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	13.86	4.45
26 05 33 13-0470 Rigid Galvanized Steel (RGS) Fire Stop Fittings <small>(26 05 33 13-0059)</small>		
26 05 33 13-0471 EA 1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	222.79	12.02
<i>For Work In Restricted Working Space, Add</i>	9.01	
<i>For Elevated Installation >10' To 15', Add</i>	3.00	
<i>For Elevated Installation >15' To 20', Add</i>	6.01	
<i>For Elevated Installation >20' To 25', Add</i>	7.51	
<i>For Elevated Installation >25' To 30', Add</i>	10.51	
<i>For Elevated Installation >30' To 35', Add</i>	12.02	
<i>For Elevated Installation >35' To 40', Add</i>	15.02	
<i>For Elevated Installation >40', Add</i>	16.52	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.01	
26 05 33 13-0472 EA 3/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	225.68	13.17
<i>For Work In Restricted Working Space, Add</i>	9.88	
<i>For Elevated Installation >10' To 15', Add</i>	3.29	
<i>For Elevated Installation >15' To 20', Add</i>	6.59	
<i>For Elevated Installation >20' To 25', Add</i>	8.23	
<i>For Elevated Installation >25' To 30', Add</i>	11.53	
<i>For Elevated Installation >30' To 35', Add</i>	13.17	
<i>For Elevated Installation >35' To 40', Add</i>	16.47	
<i>For Elevated Installation >40', Add</i>	18.11	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.88	
26 05 33 13-0473 EA 1" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	271.97	14.45
<i>For Work In Restricted Working Space, Add</i>	10.82	
<i>For Elevated Installation >10' To 15', Add</i>	3.61	
<i>For Elevated Installation >15' To 20', Add</i>	7.21	
<i>For Elevated Installation >20' To 25', Add</i>	9.02	
<i>For Elevated Installation >25' To 30', Add</i>	12.62	
<i>For Elevated Installation >30' To 35', Add</i>	14.43	
<i>For Elevated Installation >35' To 40', Add</i>	18.04	
<i>For Elevated Installation >40', Add</i>	19.84	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.82	
26 05 33 13-0474 EA 1-1/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	298.55	15.84
<i>For Work In Restricted Working Space, Add</i>	11.89	
<i>For Elevated Installation >10' To 15', Add</i>	3.96	
<i>For Elevated Installation >15' To 20', Add</i>	7.93	
<i>For Elevated Installation >20' To 25', Add</i>	9.91	
<i>For Elevated Installation >25' To 30', Add</i>	13.87	
<i>For Elevated Installation >30' To 35', Add</i>	15.85	
<i>For Elevated Installation >35' To 40', Add</i>	19.82	
<i>For Elevated Installation >40', Add</i>	21.80	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.89	
26 05 33 13-0475 EA 1-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	340.88	17.82
<i>For Work In Restricted Working Space, Add</i>	13.37	
<i>For Elevated Installation >10' To 15', Add</i>	4.46	
<i>For Elevated Installation >15' To 20', Add</i>	8.91	
<i>For Elevated Installation >20' To 25', Add</i>	11.14	
<i>For Elevated Installation >25' To 30', Add</i>	15.60	
<i>For Elevated Installation >30' To 35', Add</i>	17.82	
<i>For Elevated Installation >35' To 40', Add</i>	22.28	
<i>For Elevated Installation >40', Add</i>	24.51	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.37	
26 05 33 13-0476 EA 2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	509.83	19.80
<i>For Work In Restricted Working Space, Add</i>	14.86	
<i>For Elevated Installation >10' To 15', Add</i>	4.95	
<i>For Elevated Installation >15' To 20', Add</i>	9.91	
<i>For Elevated Installation >20' To 25', Add</i>	12.38	
<i>For Elevated Installation >25' To 30', Add</i>	17.34	
<i>For Elevated Installation >30' To 35', Add</i>	19.81	
<i>For Elevated Installation >35' To 40', Add</i>	24.77	
<i>For Elevated Installation >40', Add</i>	27.24	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.86	
26 05 33 13-0477 EA 2-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	583.88	26.44
<i>For Work In Restricted Working Space, Add</i>	19.81	
<i>For Elevated Installation >10' To 15', Add</i>	6.60	
<i>For Elevated Installation >15' To 20', Add</i>	13.21	
<i>For Elevated Installation >20' To 25', Add</i>	16.51	
<i>For Elevated Installation >25' To 30', Add</i>	23.11	
<i>For Elevated Installation >30' To 35', Add</i>	26.42	
<i>For Elevated Installation >35' To 40', Add</i>	33.02	
<i>For Elevated Installation >40', Add</i>	36.32	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.81	
26 05 33 13-0478 EA 3" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	647.95	29.01
<i>For Work In Restricted Working Space, Add</i>	21.77	
<i>For Elevated Installation >10' To 15', Add</i>	7.26	
<i>For Elevated Installation >15' To 20', Add</i>	14.51	
<i>For Elevated Installation >20' To 25', Add</i>	18.14	
<i>For Elevated Installation >25' To 30', Add</i>	25.40	
<i>For Elevated Installation >30' To 35', Add</i>	29.03	
<i>For Elevated Installation >35' To 40', Add</i>	36.29	
<i>For Elevated Installation >40', Add</i>	39.91	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.77	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0479	EA		3-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	755.28	31.68
			<i>For Work In Restricted Working Space, Add</i>	23.76	
			<i>For Elevated Installation >10' To 15', Add</i>	7.92	
			<i>For Elevated Installation >15' To 20', Add</i>	15.84	
			<i>For Elevated Installation >20' To 25', Add</i>	19.80	
			<i>For Elevated Installation >25' To 30', Add</i>	27.72	
			<i>For Elevated Installation >30' To 35', Add</i>	31.68	
			<i>For Elevated Installation >35' To 40', Add</i>	39.61	
			<i>For Elevated Installation >40', Add</i>	43.57	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.76	
26 05 33 13-0480	EA		4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	851.47	35.64
			<i>For Work In Restricted Working Space, Add</i>	26.73	
			<i>For Elevated Installation >10' To 15', Add</i>	8.91	
			<i>For Elevated Installation >15' To 20', Add</i>	17.82	
			<i>For Elevated Installation >20' To 25', Add</i>	22.28	
			<i>For Elevated Installation >25' To 30', Add</i>	31.19	
			<i>For Elevated Installation >30' To 35', Add</i>	35.64	
			<i>For Elevated Installation >35' To 40', Add</i>	44.55	
			<i>For Elevated Installation >40', Add</i>	49.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.73	
26 05 33 13-0481	EA		5" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	1,149.06	39.60
			<i>For Work In Restricted Working Space, Add</i>	29.70	
			<i>For Elevated Installation >10' To 15', Add</i>	9.90	
			<i>For Elevated Installation >15' To 20', Add</i>	19.80	
			<i>For Elevated Installation >20' To 25', Add</i>	24.75	
			<i>For Elevated Installation >25' To 30', Add</i>	34.65	
			<i>For Elevated Installation >30' To 35', Add</i>	39.60	
			<i>For Elevated Installation >35' To 40', Add</i>	49.50	
			<i>For Elevated Installation >40', Add</i>	54.45	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.70	
26 05 33 13-0482	EA		6" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	1,433.26	43.95
			<i>For Work In Restricted Working Space, Add</i>	32.97	
			<i>For Elevated Installation >10' To 15', Add</i>	10.99	
			<i>For Elevated Installation >15' To 20', Add</i>	21.98	
			<i>For Elevated Installation >20' To 25', Add</i>	27.47	
			<i>For Elevated Installation >25' To 30', Add</i>	38.46	
			<i>For Elevated Installation >30' To 35', Add</i>	43.96	
			<i>For Elevated Installation >35' To 40', Add</i>	54.95	
			<i>For Elevated Installation >40', Add</i>	60.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.97	
26 05 33 13-0483			Rigid Galvanized Steel (RGS) Reducing Bushings <small>(26 05 33 13-0059)</small>		
26 05 33 13-0484	EA		3/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	16.11	7.67
			<i>For Work In Restricted Working Space, Add</i>	4.60	
			<i>For Elevated Installation >10' To 15', Add</i>	1.53	
			<i>For Elevated Installation >15' To 20', Add</i>	3.07	
			<i>For Elevated Installation >20' To 25', Add</i>	3.84	
			<i>For Elevated Installation >25' To 30', Add</i>	5.37	
			<i>For Elevated Installation >30' To 35', Add</i>	6.14	
			<i>For Elevated Installation >35' To 40', Add</i>	7.67	
			<i>For Elevated Installation >40', Add</i>	8.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.60	
26 05 33 13-0485	EA		1" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	17.74	8.16
			<i>For Work In Restricted Working Space, Add</i>	4.90	
			<i>For Elevated Installation >10' To 15', Add</i>	1.63	
			<i>For Elevated Installation >15' To 20', Add</i>	3.27	
			<i>For Elevated Installation >20' To 25', Add</i>	4.09	
			<i>For Elevated Installation >25' To 30', Add</i>	5.72	
			<i>For Elevated Installation >30' To 35', Add</i>	6.54	
			<i>For Elevated Installation >35' To 40', Add</i>	8.17	
			<i>For Elevated Installation >40', Add</i>	8.99	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.90	
26 05 33 13-0486	EA		1" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	18.23	8.41
			<i>For Work In Restricted Working Space, Add</i>	5.05	
			<i>For Elevated Installation >10' To 15', Add</i>	1.68	
			<i>For Elevated Installation >15' To 20', Add</i>	3.37	
			<i>For Elevated Installation >20' To 25', Add</i>	4.21	
			<i>For Elevated Installation >25' To 30', Add</i>	5.89	
			<i>For Elevated Installation >30' To 35', Add</i>	6.73	
			<i>For Elevated Installation >35' To 40', Add</i>	8.42	
			<i>For Elevated Installation >40', Add</i>	9.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.05	
26 05 33 13-0487	EA		1-1/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	20.97	8.66
			<i>For Work In Restricted Working Space, Add</i>	5.20	
			<i>For Elevated Installation >10' To 15', Add</i>	1.73	
			<i>For Elevated Installation >15' To 20', Add</i>	3.47	
			<i>For Elevated Installation >20' To 25', Add</i>	4.33	
			<i>For Elevated Installation >25' To 30', Add</i>	6.07	
			<i>For Elevated Installation >30' To 35', Add</i>	6.93	
			<i>For Elevated Installation >35' To 40', Add</i>	8.67	
			<i>For Elevated Installation >40', Add</i>	9.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0488 EA 1-1/4" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	21.46	8.92
For Work In Restricted Working Space, Add	5.35	
For Elevated Installation >10' To 15', Add	1.78	
For Elevated Installation >15' To 20', Add	3.56	
For Elevated Installation >20' To 25', Add	4.46	
For Elevated Installation >25' To 30', Add	6.24	
For Elevated Installation >30' To 35', Add	7.13	
For Elevated Installation >35' To 40', Add	8.91	
For Elevated Installation >40', Add	9.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.35	
26 05 33 13-0489 EA 1-1/4" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing.....	22.45	9.41
For Work In Restricted Working Space, Add	5.64	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.76	
For Elevated Installation >20' To 25', Add	4.70	
For Elevated Installation >25' To 30', Add	6.58	
For Elevated Installation >30' To 35', Add	7.52	
For Elevated Installation >35' To 40', Add	9.41	
For Elevated Installation >40', Add	10.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.64	
26 05 33 13-0490 EA 1-1/2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	24.21	9.90
For Work In Restricted Working Space, Add	5.94	
For Elevated Installation >10' To 15', Add	1.98	
For Elevated Installation >15' To 20', Add	3.96	
For Elevated Installation >20' To 25', Add	4.95	
For Elevated Installation >25' To 30', Add	6.93	
For Elevated Installation >30' To 35', Add	7.92	
For Elevated Installation >35' To 40', Add	9.90	
For Elevated Installation >40', Add	10.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.94	
26 05 33 13-0491 EA 1-1/2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	24.71	10.15
For Work In Restricted Working Space, Add	6.09	
For Elevated Installation >10' To 15', Add	2.03	
For Elevated Installation >15' To 20', Add	4.06	
For Elevated Installation >20' To 25', Add	5.08	
For Elevated Installation >25' To 30', Add	7.11	
For Elevated Installation >30' To 35', Add	8.12	
For Elevated Installation >35' To 40', Add	10.15	
For Elevated Installation >40', Add	11.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.09	
26 05 33 13-0492 EA 1-1/2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing.....	25.70	10.64
For Work In Restricted Working Space, Add	6.39	
For Elevated Installation >10' To 15', Add	2.13	
For Elevated Installation >15' To 20', Add	4.26	
For Elevated Installation >20' To 25', Add	5.32	
For Elevated Installation >25' To 30', Add	7.45	
For Elevated Installation >30' To 35', Add	8.52	
For Elevated Installation >35' To 40', Add	10.65	
For Elevated Installation >40', Add	11.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.39	
26 05 33 13-0493 EA 1-1/2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	26.68	11.14
For Work In Restricted Working Space, Add	6.68	
For Elevated Installation >10' To 15', Add	2.23	
For Elevated Installation >15' To 20', Add	4.45	
For Elevated Installation >20' To 25', Add	5.57	
For Elevated Installation >25' To 30', Add	7.79	
For Elevated Installation >30' To 35', Add	8.91	
For Elevated Installation >35' To 40', Add	11.14	
For Elevated Installation >40', Add	12.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.68	
26 05 33 13-0494 EA 2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	31.96	11.14
For Work In Restricted Working Space, Add	6.68	
For Elevated Installation >10' To 15', Add	2.23	
For Elevated Installation >15' To 20', Add	4.45	
For Elevated Installation >20' To 25', Add	5.57	
For Elevated Installation >25' To 30', Add	7.79	
For Elevated Installation >30' To 35', Add	8.91	
For Elevated Installation >35' To 40', Add	11.14	
For Elevated Installation >40', Add	12.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.68	
26 05 33 13-0495 EA 2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	32.46	11.38
For Work In Restricted Working Space, Add	6.83	
For Elevated Installation >10' To 15', Add	2.28	
For Elevated Installation >15' To 20', Add	4.55	
For Elevated Installation >20' To 25', Add	5.69	
For Elevated Installation >25' To 30', Add	7.97	
For Elevated Installation >30' To 35', Add	9.11	
For Elevated Installation >35' To 40', Add	11.39	
For Elevated Installation >40', Add	12.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.83	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0496	EA		2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	33.45	11.88
			<i>For Work In Restricted Working Space, Add</i>	7.13	
			<i>For Elevated Installation >10' To 15', Add</i>	2.38	
			<i>For Elevated Installation >15' To 20', Add</i>	4.75	
			<i>For Elevated Installation >20' To 25', Add</i>	5.94	
			<i>For Elevated Installation >25' To 30', Add</i>	8.32	
			<i>For Elevated Installation >30' To 35', Add</i>	9.50	
			<i>For Elevated Installation >35' To 40', Add</i>	11.88	
			<i>For Elevated Installation >40', Add</i>	13.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-0497	EA		2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing	34.44	12.38
			<i>For Work In Restricted Working Space, Add</i>	7.43	
			<i>For Elevated Installation >10' To 15', Add</i>	2.48	
			<i>For Elevated Installation >15' To 20', Add</i>	4.95	
			<i>For Elevated Installation >20' To 25', Add</i>	6.19	
			<i>For Elevated Installation >25' To 30', Add</i>	8.66	
			<i>For Elevated Installation >30' To 35', Add</i>	9.90	
			<i>For Elevated Installation >35' To 40', Add</i>	12.38	
			<i>For Elevated Installation >40', Add</i>	13.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.43	
26 05 33 13-0498	EA		2" x 1-1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	36.92	13.61
			<i>For Work In Restricted Working Space, Add</i>	8.17	
			<i>For Elevated Installation >10' To 15', Add</i>	2.72	
			<i>For Elevated Installation >15' To 20', Add</i>	5.45	
			<i>For Elevated Installation >20' To 25', Add</i>	6.81	
			<i>For Elevated Installation >25' To 30', Add</i>	9.53	
			<i>For Elevated Installation >30' To 35', Add</i>	10.89	
			<i>For Elevated Installation >35' To 40', Add</i>	13.62	
			<i>For Elevated Installation >40', Add</i>	14.98	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.17	
26 05 33 13-0499	EA		2-1/2" x 2" Rigid Galvanized Steel (RGS) Reducing Bushing	46.54	16.09
			<i>For Work In Restricted Working Space, Add</i>	9.65	
			<i>For Elevated Installation >10' To 15', Add</i>	3.22	
			<i>For Elevated Installation >15' To 20', Add</i>	6.44	
			<i>For Elevated Installation >20' To 25', Add</i>	8.05	
			<i>For Elevated Installation >25' To 30', Add</i>	11.26	
			<i>For Elevated Installation >30' To 35', Add</i>	12.87	
			<i>For Elevated Installation >35' To 40', Add</i>	16.09	
			<i>For Elevated Installation >40', Add</i>	17.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.65	
26 05 33 13-0500			Rigid Galvanized Steel (RGS) Locknuts <small>(26 05 33 13-0059)</small>	2.05	0.99
26 05 33 13-0501	EA		1/2" Rigid Galvanized Steel (RGS) Locknuts	2.05	0.99
			<i>For Work In Restricted Working Space, Add</i>	0.59	
			<i>For Elevated Installation >10' To 15', Add</i>	0.20	
			<i>For Elevated Installation >15' To 20', Add</i>	0.40	
			<i>For Elevated Installation >20' To 25', Add</i>	0.50	
			<i>For Elevated Installation >25' To 30', Add</i>	0.69	
			<i>For Elevated Installation >30' To 35', Add</i>	0.79	
			<i>For Elevated Installation >35' To 40', Add</i>	0.99	
			<i>For Elevated Installation >40', Add</i>	1.09	
26 05 33 13-0502	EA		3/4" Rigid Galvanized Steel (RGS) Locknuts	3.07	1.48
			<i>For Work In Restricted Working Space, Add</i>	0.89	
			<i>For Elevated Installation >10' To 15', Add</i>	0.30	
			<i>For Elevated Installation >15' To 20', Add</i>	0.59	
			<i>For Elevated Installation >20' To 25', Add</i>	0.74	
			<i>For Elevated Installation >25' To 30', Add</i>	1.04	
			<i>For Elevated Installation >30' To 35', Add</i>	1.19	
			<i>For Elevated Installation >35' To 40', Add</i>	1.49	
			<i>For Elevated Installation >40', Add</i>	1.63	
26 05 33 13-0503	EA		1" Rigid Galvanized Steel (RGS) Locknuts	5.12	2.48
			<i>For Work In Restricted Working Space, Add</i>	1.49	
			<i>For Elevated Installation >10' To 15', Add</i>	0.50	
			<i>For Elevated Installation >15' To 20', Add</i>	0.99	
			<i>For Elevated Installation >20' To 25', Add</i>	1.24	
			<i>For Elevated Installation >25' To 30', Add</i>	1.73	
			<i>For Elevated Installation >30' To 35', Add</i>	1.98	
			<i>For Elevated Installation >35' To 40', Add</i>	2.48	
			<i>For Elevated Installation >40', Add</i>	2.72	
26 05 33 13-0504	EA		1-1/4" Rigid Galvanized Steel (RGS) Locknuts	7.20	3.47
			<i>For Work In Restricted Working Space, Add</i>	2.08	
			<i>For Elevated Installation >10' To 15', Add</i>	0.69	
			<i>For Elevated Installation >15' To 20', Add</i>	1.39	
			<i>For Elevated Installation >20' To 25', Add</i>	1.73	
			<i>For Elevated Installation >25' To 30', Add</i>	2.43	
			<i>For Elevated Installation >30' To 35', Add</i>	2.77	
			<i>For Elevated Installation >35' To 40', Add</i>	3.47	
			<i>For Elevated Installation >40', Add</i>	3.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0505 EA 1-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	8.27	3.96
<i>For Work In Restricted Working Space, Add</i>	2.38	
<i>For Elevated Installation >10' To 15', Add</i>	0.79	
<i>For Elevated Installation >15' To 20', Add</i>	1.58	
<i>For Elevated Installation >20' To 25', Add</i>	1.98	
<i>For Elevated Installation >25' To 30', Add</i>	2.77	
<i>For Elevated Installation >30' To 35', Add</i>	3.17	
<i>For Elevated Installation >35' To 40', Add</i>	3.96	
<i>For Elevated Installation >40', Add</i>	4.36	
26 05 33 13-0506 EA 2" Rigid Galvanized Steel (RGS) Locknuts.....	9.35	4.45
<i>For Work In Restricted Working Space, Add</i>	2.68	
<i>For Elevated Installation >10' To 15', Add</i>	0.89	
<i>For Elevated Installation >15' To 20', Add</i>	1.78	
<i>For Elevated Installation >20' To 25', Add</i>	2.23	
<i>For Elevated Installation >25' To 30', Add</i>	3.12	
<i>For Elevated Installation >30' To 35', Add</i>	3.57	
<i>For Elevated Installation >35' To 40', Add</i>	4.46	
<i>For Elevated Installation >40', Add</i>	4.91	
26 05 33 13-0507 EA 2-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	13.03	5.94
<i>For Work In Restricted Working Space, Add</i>	3.56	
<i>For Elevated Installation >10' To 15', Add</i>	1.19	
<i>For Elevated Installation >15' To 20', Add</i>	2.38	
<i>For Elevated Installation >20' To 25', Add</i>	2.97	
<i>For Elevated Installation >25' To 30', Add</i>	4.16	
<i>For Elevated Installation >30' To 35', Add</i>	4.75	
<i>For Elevated Installation >35' To 40', Add</i>	5.94	
<i>For Elevated Installation >40', Add</i>	6.53	
26 05 33 13-0508 EA 3" Rigid Galvanized Steel (RGS) Locknuts.....	16.12	7.42
<i>For Work In Restricted Working Space, Add</i>	4.46	
<i>For Elevated Installation >10' To 15', Add</i>	1.49	
<i>For Elevated Installation >15' To 20', Add</i>	2.97	
<i>For Elevated Installation >20' To 25', Add</i>	3.71	
<i>For Elevated Installation >25' To 30', Add</i>	5.20	
<i>For Elevated Installation >30' To 35', Add</i>	5.94	
<i>For Elevated Installation >35' To 40', Add</i>	7.43	
<i>For Elevated Installation >40', Add</i>	8.17	
26 05 33 13-0509 EA 3-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	18.94	8.41
<i>For Work In Restricted Working Space, Add</i>	5.05	
<i>For Elevated Installation >10' To 15', Add</i>	1.68	
<i>For Elevated Installation >15' To 20', Add</i>	3.37	
<i>For Elevated Installation >20' To 25', Add</i>	4.21	
<i>For Elevated Installation >25' To 30', Add</i>	5.89	
<i>For Elevated Installation >30' To 35', Add</i>	6.73	
<i>For Elevated Installation >35' To 40', Add</i>	8.42	
<i>For Elevated Installation >40', Add</i>	9.26	
26 05 33 13-0510 EA 4" Rigid Galvanized Steel (RGS) Locknuts.....	21.24	9.41
<i>For Work In Restricted Working Space, Add</i>	5.64	
<i>For Elevated Installation >10' To 15', Add</i>	1.88	
<i>For Elevated Installation >15' To 20', Add</i>	3.76	
<i>For Elevated Installation >20' To 25', Add</i>	4.70	
<i>For Elevated Installation >25' To 30', Add</i>	6.58	
<i>For Elevated Installation >30' To 35', Add</i>	7.52	
<i>For Elevated Installation >35' To 40', Add</i>	9.41	
<i>For Elevated Installation >40', Add</i>	10.35	
26 05 33 13-0511 Rigid Galvanized Steel (RGS) Grounding Locknuts <small>(26 05 33 13-0059)</small>		
26 05 33 13-0512 EA 1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	3.03	0.99
<i>For Work In Restricted Working Space, Add</i>	0.59	
<i>For Elevated Installation >10' To 15', Add</i>	0.20	
<i>For Elevated Installation >15' To 20', Add</i>	0.40	
<i>For Elevated Installation >20' To 25', Add</i>	0.50	
<i>For Elevated Installation >25' To 30', Add</i>	0.69	
<i>For Elevated Installation >30' To 35', Add</i>	0.79	
<i>For Elevated Installation >35' To 40', Add</i>	0.99	
<i>For Elevated Installation >40', Add</i>	1.09	
26 05 33 13-0513 EA 3/4" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	4.23	1.48
<i>For Work In Restricted Working Space, Add</i>	0.89	
<i>For Elevated Installation >10' To 15', Add</i>	0.30	
<i>For Elevated Installation >15' To 20', Add</i>	0.59	
<i>For Elevated Installation >20' To 25', Add</i>	0.74	
<i>For Elevated Installation >25' To 30', Add</i>	1.04	
<i>For Elevated Installation >30' To 35', Add</i>	1.19	
<i>For Elevated Installation >35' To 40', Add</i>	1.49	
<i>For Elevated Installation >40', Add</i>	1.63	
26 05 33 13-0514 EA 1" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	6.75	2.48
<i>For Work In Restricted Working Space, Add</i>	1.49	
<i>For Elevated Installation >10' To 15', Add</i>	0.50	
<i>For Elevated Installation >15' To 20', Add</i>	0.99	
<i>For Elevated Installation >20' To 25', Add</i>	1.24	
<i>For Elevated Installation >25' To 30', Add</i>	1.73	
<i>For Elevated Installation >30' To 35', Add</i>	1.98	
<i>For Elevated Installation >35' To 40', Add</i>	2.48	
<i>For Elevated Installation >40', Add</i>	2.72	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0515 EA 1-1/4" Rigid Galvanized Steel (RGS) Grounding Locknuts	9.44	3.47
For Work In Restricted Working Space, Add	2.08	
For Elevated Installation >10' To 15', Add	0.69	
For Elevated Installation >15' To 20', Add	1.39	
For Elevated Installation >20' To 25', Add	1.73	
For Elevated Installation >25' To 30', Add	2.43	
For Elevated Installation >30' To 35', Add	2.77	
For Elevated Installation >35' To 40', Add	3.47	
For Elevated Installation >40', Add	3.81	
26 05 33 13-0516 EA 1-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	10.67	3.96
For Work In Restricted Working Space, Add	2.38	
For Elevated Installation >10' To 15', Add	0.79	
For Elevated Installation >15' To 20', Add	1.58	
For Elevated Installation >20' To 25', Add	1.98	
For Elevated Installation >25' To 30', Add	2.77	
For Elevated Installation >30' To 35', Add	3.17	
For Elevated Installation >35' To 40', Add	3.96	
For Elevated Installation >40', Add	4.36	
26 05 33 13-0517 EA 2" Rigid Galvanized Steel (RGS) Grounding Locknuts	12.50	4.45
For Work In Restricted Working Space, Add	2.68	
For Elevated Installation >10' To 15', Add	0.89	
For Elevated Installation >15' To 20', Add	1.78	
For Elevated Installation >20' To 25', Add	2.23	
For Elevated Installation >25' To 30', Add	3.12	
For Elevated Installation >30' To 35', Add	3.57	
For Elevated Installation >35' To 40', Add	4.46	
For Elevated Installation >40', Add	4.91	
26 05 33 13-0518 EA 2-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	18.54	5.94
For Work In Restricted Working Space, Add	3.56	
For Elevated Installation >10' To 15', Add	1.19	
For Elevated Installation >15' To 20', Add	2.38	
For Elevated Installation >20' To 25', Add	2.97	
For Elevated Installation >25' To 30', Add	4.16	
For Elevated Installation >30' To 35', Add	4.75	
For Elevated Installation >35' To 40', Add	5.94	
For Elevated Installation >40', Add	6.53	
26 05 33 13-0519 EA 3" Rigid Galvanized Steel (RGS) Grounding Locknuts	23.31	7.42
For Work In Restricted Working Space, Add	4.46	
For Elevated Installation >10' To 15', Add	1.49	
For Elevated Installation >15' To 20', Add	2.97	
For Elevated Installation >20' To 25', Add	3.71	
For Elevated Installation >25' To 30', Add	5.20	
For Elevated Installation >30' To 35', Add	5.94	
For Elevated Installation >35' To 40', Add	7.43	
For Elevated Installation >40', Add	8.17	
26 05 33 13-0520 EA 3-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	30.56	8.41
For Work In Restricted Working Space, Add	5.05	
For Elevated Installation >10' To 15', Add	1.68	
For Elevated Installation >15' To 20', Add	3.37	
For Elevated Installation >20' To 25', Add	4.21	
For Elevated Installation >25' To 30', Add	5.89	
For Elevated Installation >30' To 35', Add	6.73	
For Elevated Installation >35' To 40', Add	8.42	
For Elevated Installation >40', Add	9.26	
26 05 33 13-0521 EA 4" Rigid Galvanized Steel (RGS) Grounding Locknuts	36.51	9.41
For Work In Restricted Working Space, Add	5.64	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.76	
For Elevated Installation >20' To 25', Add	4.70	
For Elevated Installation >25' To 30', Add	6.58	
For Elevated Installation >30' To 35', Add	7.52	
For Elevated Installation >35' To 40', Add	9.41	
For Elevated Installation >40', Add	10.35	
26 05 33 13-0522 Rigid Galvanized Steel (RGS) Insulated Ground Bushing (26 05 33 13-0059)		
26 05 33 13-0523 EA 1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	8.57	2.97
For Work In Restricted Working Space, Add	1.78	
For Elevated Installation >10' To 15', Add	0.59	
For Elevated Installation >15' To 20', Add	1.19	
For Elevated Installation >20' To 25', Add	1.49	
For Elevated Installation >25' To 30', Add	2.08	
For Elevated Installation >30' To 35', Add	2.38	
For Elevated Installation >35' To 40', Add	2.97	
For Elevated Installation >40', Add	3.27	
26 05 33 13-0524 EA 3/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	10.77	3.96
For Work In Restricted Working Space, Add	2.38	
For Elevated Installation >10' To 15', Add	0.79	
For Elevated Installation >15' To 20', Add	1.58	
For Elevated Installation >20' To 25', Add	1.98	
For Elevated Installation >25' To 30', Add	2.77	
For Elevated Installation >30' To 35', Add	3.17	
For Elevated Installation >35' To 40', Add	3.96	
For Elevated Installation >40', Add	4.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0525 EA 1" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	13.74	4.95
For Work In Restricted Working Space, Add	2.97	
For Elevated Installation >10' To 15', Add	0.99	
For Elevated Installation >15' To 20', Add	1.98	
For Elevated Installation >20' To 25', Add	2.48	
For Elevated Installation >25' To 30', Add	3.47	
For Elevated Installation >30' To 35', Add	3.96	
For Elevated Installation >35' To 40', Add	4.95	
For Elevated Installation >40', Add	5.45	
26 05 33 13-0526 EA 1-1/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	20.13	7.92
For Work In Restricted Working Space, Add	4.75	
For Elevated Installation >10' To 15', Add	1.58	
For Elevated Installation >15' To 20', Add	3.17	
For Elevated Installation >20' To 25', Add	3.96	
For Elevated Installation >25' To 30', Add	5.54	
For Elevated Installation >30' To 35', Add	6.34	
For Elevated Installation >35' To 40', Add	7.92	
For Elevated Installation >40', Add	8.71	
26 05 33 13-0527 EA 1-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	22.67	8.92
For Work In Restricted Working Space, Add	5.35	
For Elevated Installation >10' To 15', Add	1.78	
For Elevated Installation >15' To 20', Add	3.56	
For Elevated Installation >20' To 25', Add	4.46	
For Elevated Installation >25' To 30', Add	6.24	
For Elevated Installation >30' To 35', Add	7.13	
For Elevated Installation >35' To 40', Add	8.91	
For Elevated Installation >40', Add	9.80	
26 05 33 13-0528 EA 2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	25.75	9.90
For Work In Restricted Working Space, Add	5.94	
For Elevated Installation >10' To 15', Add	1.98	
For Elevated Installation >15' To 20', Add	3.96	
For Elevated Installation >20' To 25', Add	4.95	
For Elevated Installation >25' To 30', Add	6.93	
For Elevated Installation >30' To 35', Add	7.92	
For Elevated Installation >35' To 40', Add	9.90	
For Elevated Installation >40', Add	10.89	
26 05 33 13-0529 EA 2-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	35.26	11.88
For Work In Restricted Working Space, Add	7.13	
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.32	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.07	
26 05 33 13-0530 EA 3" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	42.87	14.85
For Work In Restricted Working Space, Add	8.91	
For Elevated Installation >10' To 15', Add	2.97	
For Elevated Installation >15' To 20', Add	5.94	
For Elevated Installation >20' To 25', Add	7.43	
For Elevated Installation >25' To 30', Add	10.40	
For Elevated Installation >30' To 35', Add	11.88	
For Elevated Installation >35' To 40', Add	14.85	
For Elevated Installation >40', Add	16.34	
26 05 33 13-0531 EA 3-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	53.20	19.80
For Work In Restricted Working Space, Add	11.88	
For Elevated Installation >10' To 15', Add	3.96	
For Elevated Installation >15' To 20', Add	7.92	
For Elevated Installation >20' To 25', Add	9.90	
For Elevated Installation >25' To 30', Add	13.86	
For Elevated Installation >30' To 35', Add	15.84	
For Elevated Installation >35' To 40', Add	19.80	
For Elevated Installation >40', Add	21.78	
26 05 33 13-0532 EA 4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	64.88	24.75
For Work In Restricted Working Space, Add	14.85	
For Elevated Installation >10' To 15', Add	4.95	
For Elevated Installation >15' To 20', Add	9.90	
For Elevated Installation >20' To 25', Add	12.38	
For Elevated Installation >25' To 30', Add	17.33	
For Elevated Installation >30' To 35', Add	19.80	
For Elevated Installation >35' To 40', Add	24.75	
For Elevated Installation >40', Add	27.23	
26 05 33 13-0533 Rigid Galvanized Steel (RGS) Threadless Compression Connectors <small>(26 05 33 13-0059)</small>		
26 05 33 13-0534 EA 1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	21.66	8.92
For Work In Restricted Working Space, Add	5.35	
For Elevated Installation >10' To 15', Add	1.78	
For Elevated Installation >15' To 20', Add	3.56	
For Elevated Installation >20' To 25', Add	4.46	
For Elevated Installation >25' To 30', Add	6.24	
For Elevated Installation >30' To 35', Add	7.13	
For Elevated Installation >35' To 40', Add	8.91	
For Elevated Installation >40', Add	9.80	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0535	EA	3/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors .....25.98		9.90
			<i>For Work In Restricted Working Space, Add</i>	5.94	
			<i>For Elevated Installation >10' To 15', Add</i>	1.98	
			<i>For Elevated Installation >15' To 20', Add</i>	3.96	
			<i>For Elevated Installation >20' To 25', Add</i>	4.95	
			<i>For Elevated Installation >25' To 30', Add</i>	6.93	
			<i>For Elevated Installation >30' To 35', Add</i>	7.92	
			<i>For Elevated Installation >35' To 40', Add</i>	9.90	
			<i>For Elevated Installation >40', Add</i>	10.89	
26 05 33	13-0536	EA	1" Rigid Galvanized Steel (RGS) Threadless Compression Connectors .....34.40		12.38
			<i>For Work In Restricted Working Space, Add</i>	7.43	
			<i>For Elevated Installation >10' To 15', Add</i>	2.48	
			<i>For Elevated Installation >15' To 20', Add</i>	4.95	
			<i>For Elevated Installation >20' To 25', Add</i>	6.19	
			<i>For Elevated Installation >25' To 30', Add</i>	8.66	
			<i>For Elevated Installation >30' To 35', Add</i>	9.90	
			<i>For Elevated Installation >35' To 40', Add</i>	12.38	
			<i>For Elevated Installation >40', Add</i>	13.61	
26 05 33	13-0537	EA	1-1/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors .....47.86		14.85
			<i>For Work In Restricted Working Space, Add</i>	8.91	
			<i>For Elevated Installation >10' To 15', Add</i>	2.97	
			<i>For Elevated Installation >15' To 20', Add</i>	5.94	
			<i>For Elevated Installation >20' To 25', Add</i>	7.43	
			<i>For Elevated Installation >25' To 30', Add</i>	10.40	
			<i>For Elevated Installation >30' To 35', Add</i>	11.88	
			<i>For Elevated Installation >35' To 40', Add</i>	14.85	
			<i>For Elevated Installation >40', Add</i>	16.34	
26 05 33	13-0538	EA	1-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors .....64.76		19.80
			<i>For Work In Restricted Working Space, Add</i>	11.88	
			<i>For Elevated Installation >10' To 15', Add</i>	3.96	
			<i>For Elevated Installation >15' To 20', Add</i>	7.92	
			<i>For Elevated Installation >20' To 25', Add</i>	9.90	
			<i>For Elevated Installation >25' To 30', Add</i>	13.86	
			<i>For Elevated Installation >30' To 35', Add</i>	15.84	
			<i>For Elevated Installation >35' To 40', Add</i>	19.80	
			<i>For Elevated Installation >40', Add</i>	21.78	
26 05 33	13-0539	EA	2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors .....97.77		24.75
			<i>For Work In Restricted Working Space, Add</i>	14.85	
			<i>For Elevated Installation >10' To 15', Add</i>	4.95	
			<i>For Elevated Installation >15' To 20', Add</i>	9.90	
			<i>For Elevated Installation >20' To 25', Add</i>	12.38	
			<i>For Elevated Installation >25' To 30', Add</i>	17.33	
			<i>For Elevated Installation >30' To 35', Add</i>	19.80	
			<i>For Elevated Installation >35' To 40', Add</i>	24.75	
			<i>For Elevated Installation >40', Add</i>	27.23	
26 05 33	13-0540	EA	2-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors .....170.74		29.70
			<i>For Work In Restricted Working Space, Add</i>	17.82	
			<i>For Elevated Installation >10' To 15', Add</i>	5.94	
			<i>For Elevated Installation >15' To 20', Add</i>	11.88	
			<i>For Elevated Installation >20' To 25', Add</i>	14.85	
			<i>For Elevated Installation >25' To 30', Add</i>	20.79	
			<i>For Elevated Installation >30' To 35', Add</i>	23.76	
			<i>For Elevated Installation >35' To 40', Add</i>	29.70	
			<i>For Elevated Installation >40', Add</i>	32.67	
26 05 33	13-0541	EA	3" Rigid Galvanized Steel (RGS) Threadless Compression Connectors .....216.93		34.65
			<i>For Work In Restricted Working Space, Add</i>	20.79	
			<i>For Elevated Installation >10' To 15', Add</i>	6.93	
			<i>For Elevated Installation >15' To 20', Add</i>	13.86	
			<i>For Elevated Installation >20' To 25', Add</i>	17.33	
			<i>For Elevated Installation >25' To 30', Add</i>	24.26	
			<i>For Elevated Installation >30' To 35', Add</i>	27.72	
			<i>For Elevated Installation >35' To 40', Add</i>	34.66	
			<i>For Elevated Installation >40', Add</i>	38.12	
26 05 33	13-0542	EA	3-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors .....277.06		42.08
			<i>For Work In Restricted Working Space, Add</i>	25.25	
			<i>For Elevated Installation >10' To 15', Add</i>	8.42	
			<i>For Elevated Installation >15' To 20', Add</i>	16.83	
			<i>For Elevated Installation >20' To 25', Add</i>	21.04	
			<i>For Elevated Installation >25' To 30', Add</i>	29.46	
			<i>For Elevated Installation >30' To 35', Add</i>	33.66	
			<i>For Elevated Installation >35' To 40', Add</i>	42.08	
			<i>For Elevated Installation >40', Add</i>	46.29	
26 05 33	13-0543	EA	4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors .....335.16		49.50
			<i>For Work In Restricted Working Space, Add</i>	29.70	
			<i>For Elevated Installation >10' To 15', Add</i>	9.90	
			<i>For Elevated Installation >15' To 20', Add</i>	19.80	
			<i>For Elevated Installation >20' To 25', Add</i>	24.75	
			<i>For Elevated Installation >25' To 30', Add</i>	34.65	
			<i>For Elevated Installation >30' To 35', Add</i>	39.60	
			<i>For Elevated Installation >35' To 40', Add</i>	49.50	
			<i>For Elevated Installation >40', Add</i>	54.45	

26 05 33 13-0544 Rigid Galvanized Steel (RGS) Compression Coupling (26 05 33 13-0059)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0545 EA 1/2" Rigid Galvanized Steel (RGS) Compression Coupling	30.94	12.38
<i>For Work In Restricted Working Space, Add</i>	7.43	
<i>For Elevated Installation >10' To 15', Add</i>	2.48	
<i>For Elevated Installation >15' To 20', Add</i>	4.95	
<i>For Elevated Installation >20' To 25', Add</i>	6.19	
<i>For Elevated Installation >25' To 30', Add</i>	8.66	
<i>For Elevated Installation >30' To 35', Add</i>	9.90	
<i>For Elevated Installation >35' To 40', Add</i>	12.38	
<i>For Elevated Installation >40', Add</i>	13.61	
26 05 33 13-0546 EA 3/4" Rigid Galvanized Steel (RGS) Compression Coupling	39.63	14.85
<i>For Work In Restricted Working Space, Add</i>	8.91	
<i>For Elevated Installation >10' To 15', Add</i>	2.97	
<i>For Elevated Installation >15' To 20', Add</i>	5.94	
<i>For Elevated Installation >20' To 25', Add</i>	7.43	
<i>For Elevated Installation >25' To 30', Add</i>	10.40	
<i>For Elevated Installation >30' To 35', Add</i>	11.88	
<i>For Elevated Installation >35' To 40', Add</i>	14.85	
<i>For Elevated Installation >40', Add</i>	16.34	
26 05 33 13-0547 EA 1" Rigid Galvanized Steel (RGS) Compression Coupling	56.92	19.80
<i>For Work In Restricted Working Space, Add</i>	11.88	
<i>For Elevated Installation >10' To 15', Add</i>	3.96	
<i>For Elevated Installation >15' To 20', Add</i>	7.92	
<i>For Elevated Installation >20' To 25', Add</i>	9.90	
<i>For Elevated Installation >25' To 30', Add</i>	13.86	
<i>For Elevated Installation >30' To 35', Add</i>	15.84	
<i>For Elevated Installation >35' To 40', Add</i>	19.80	
<i>For Elevated Installation >40', Add</i>	21.78	
26 05 33 13-0548 EA 1-1/4" Rigid Galvanized Steel (RGS) Compression Coupling	75.14	24.75
<i>For Work In Restricted Working Space, Add</i>	14.85	
<i>For Elevated Installation >10' To 15', Add</i>	4.95	
<i>For Elevated Installation >15' To 20', Add</i>	9.90	
<i>For Elevated Installation >20' To 25', Add</i>	12.38	
<i>For Elevated Installation >25' To 30', Add</i>	17.33	
<i>For Elevated Installation >30' To 35', Add</i>	19.80	
<i>For Elevated Installation >35' To 40', Add</i>	24.75	
<i>For Elevated Installation >40', Add</i>	27.23	
26 05 33 13-0549 EA 1-1/2" Rigid Galvanized Steel (RGS) Compression Coupling	92.78	29.70
<i>For Work In Restricted Working Space, Add</i>	17.82	
<i>For Elevated Installation >10' To 15', Add</i>	5.94	
<i>For Elevated Installation >15' To 20', Add</i>	11.88	
<i>For Elevated Installation >20' To 25', Add</i>	14.85	
<i>For Elevated Installation >25' To 30', Add</i>	20.79	
<i>For Elevated Installation >30' To 35', Add</i>	23.76	
<i>For Elevated Installation >35' To 40', Add</i>	29.70	
<i>For Elevated Installation >40', Add</i>	32.67	
26 05 33 13-0550 EA 2" Rigid Galvanized Steel (RGS) Compression Coupling	142.30	34.65
<i>For Work In Restricted Working Space, Add</i>	20.79	
<i>For Elevated Installation >10' To 15', Add</i>	6.93	
<i>For Elevated Installation >15' To 20', Add</i>	13.86	
<i>For Elevated Installation >20' To 25', Add</i>	17.33	
<i>For Elevated Installation >25' To 30', Add</i>	24.26	
<i>For Elevated Installation >30' To 35', Add</i>	27.72	
<i>For Elevated Installation >35' To 40', Add</i>	34.66	
<i>For Elevated Installation >40', Add</i>	38.12	
26 05 33 13-0551 EA 2-1/2" Rigid Galvanized Steel (RGS) Compression Coupling	232.96	39.60
<i>For Work In Restricted Working Space, Add</i>	23.76	
<i>For Elevated Installation >10' To 15', Add</i>	7.92	
<i>For Elevated Installation >15' To 20', Add</i>	15.84	
<i>For Elevated Installation >20' To 25', Add</i>	19.80	
<i>For Elevated Installation >25' To 30', Add</i>	27.72	
<i>For Elevated Installation >30' To 35', Add</i>	31.68	
<i>For Elevated Installation >35' To 40', Add</i>	39.60	
<i>For Elevated Installation >40', Add</i>	43.56	
26 05 33 13-0552 EA 3" Rigid Galvanized Steel (RGS) Compression Coupling	272.02	34.16
<i>For Work In Restricted Working Space, Add</i>	20.49	
<i>For Elevated Installation >10' To 15', Add</i>	6.83	
<i>For Elevated Installation >15' To 20', Add</i>	13.66	
<i>For Elevated Installation >20' To 25', Add</i>	17.08	
<i>For Elevated Installation >25' To 30', Add</i>	23.91	
<i>For Elevated Installation >30' To 35', Add</i>	27.32	
<i>For Elevated Installation >35' To 40', Add</i>	34.16	
<i>For Elevated Installation >40', Add</i>	37.57	
26 05 33 13-0553 EA 3-1/2" Rigid Galvanized Steel (RGS) Compression Coupling	372.12	51.98
<i>For Work In Restricted Working Space, Add</i>	31.19	
<i>For Elevated Installation >10' To 15', Add</i>	10.40	
<i>For Elevated Installation >15' To 20', Add</i>	20.79	
<i>For Elevated Installation >20' To 25', Add</i>	25.99	
<i>For Elevated Installation >25' To 30', Add</i>	36.39	
<i>For Elevated Installation >30' To 35', Add</i>	41.58	
<i>For Elevated Installation >35' To 40', Add</i>	51.98	
<i>For Elevated Installation >40', Add</i>	57.18	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0554	EA	4" Rigid Galvanized Steel (RGS) Compression Coupling	461.94	59.40
			<i>For Work In Restricted Working Space, Add</i>	35.64	
			<i>For Elevated Installation >10' To 15', Add</i>	11.88	
			<i>For Elevated Installation >15' To 20', Add</i>	23.76	
			<i>For Elevated Installation >20' To 25', Add</i>	29.70	
			<i>For Elevated Installation >25' To 30', Add</i>	41.58	
			<i>For Elevated Installation >30' To 35', Add</i>	47.52	
			<i>For Elevated Installation >35' To 40', Add</i>	59.41	
			<i>For Elevated Installation >40', Add</i>	65.35	
26 05 33	13-0555		Zinc Plated Steel Snap-in Knock Out Seal <small>(26 05 33 13-0059)</small>	5.17	2.48
26 05 33	13-0556	EA	1/2" Zinc Plated Steel Snap-in Knock Out Seal	5.17	2.48
			<i>For Work In Restricted Working Space, Add</i>	1.49	
			<i>For Elevated Installation >10' To 15', Add</i>	0.50	
			<i>For Elevated Installation >15' To 20', Add</i>	0.99	
			<i>For Elevated Installation >20' To 25', Add</i>	1.24	
			<i>For Elevated Installation >25' To 30', Add</i>	1.73	
			<i>For Elevated Installation >30' To 35', Add</i>	1.98	
			<i>For Elevated Installation >35' To 40', Add</i>	2.48	
			<i>For Elevated Installation >40', Add</i>	2.72	
26 05 33	13-0557	EA	3/4" Zinc Plated Steel Snap-in Knock Out Seal	6.23	2.97
			<i>For Work In Restricted Working Space, Add</i>	1.78	
			<i>For Elevated Installation >10' To 15', Add</i>	0.59	
			<i>For Elevated Installation >15' To 20', Add</i>	1.19	
			<i>For Elevated Installation >20' To 25', Add</i>	1.49	
			<i>For Elevated Installation >25' To 30', Add</i>	2.08	
			<i>For Elevated Installation >30' To 35', Add</i>	2.38	
			<i>For Elevated Installation >35' To 40', Add</i>	2.97	
			<i>For Elevated Installation >40', Add</i>	3.27	
26 05 33	13-0558	EA	1" Zinc Plated Steel Snap-in Knock Out Seal	7.39	3.47
			<i>For Work In Restricted Working Space, Add</i>	2.08	
			<i>For Elevated Installation >10' To 15', Add</i>	0.69	
			<i>For Elevated Installation >15' To 20', Add</i>	1.39	
			<i>For Elevated Installation >20' To 25', Add</i>	1.73	
			<i>For Elevated Installation >25' To 30', Add</i>	2.43	
			<i>For Elevated Installation >30' To 35', Add</i>	2.77	
			<i>For Elevated Installation >35' To 40', Add</i>	3.47	
			<i>For Elevated Installation >40', Add</i>	3.81	
26 05 33	13-0559	EA	1-1/4" Zinc Plated Steel Snap-in Knock Out Seal	9.53	4.45
			<i>For Work In Restricted Working Space, Add</i>	2.68	
			<i>For Elevated Installation >10' To 15', Add</i>	0.89	
			<i>For Elevated Installation >15' To 20', Add</i>	1.78	
			<i>For Elevated Installation >20' To 25', Add</i>	2.23	
			<i>For Elevated Installation >25' To 30', Add</i>	3.12	
			<i>For Elevated Installation >30' To 35', Add</i>	3.57	
			<i>For Elevated Installation >35' To 40', Add</i>	4.46	
			<i>For Elevated Installation >40', Add</i>	4.91	
26 05 33	13-0560	EA	1-1/2" Zinc Plated Steel Snap-in Knock Out Seal	10.75	4.95
			<i>For Work In Restricted Working Space, Add</i>	2.97	
			<i>For Elevated Installation >10' To 15', Add</i>	0.99	
			<i>For Elevated Installation >15' To 20', Add</i>	1.98	
			<i>For Elevated Installation >20' To 25', Add</i>	2.48	
			<i>For Elevated Installation >25' To 30', Add</i>	3.47	
			<i>For Elevated Installation >30' To 35', Add</i>	3.96	
			<i>For Elevated Installation >35' To 40', Add</i>	4.95	
			<i>For Elevated Installation >40', Add</i>	5.45	
26 05 33	13-0561	EA	2" Zinc Plated Steel Snap-in Knock Out Seal	13.07	5.94
			<i>For Work In Restricted Working Space, Add</i>	3.56	
			<i>For Elevated Installation >10' To 15', Add</i>	1.19	
			<i>For Elevated Installation >15' To 20', Add</i>	2.38	
			<i>For Elevated Installation >20' To 25', Add</i>	2.97	
			<i>For Elevated Installation >25' To 30', Add</i>	4.16	
			<i>For Elevated Installation >30' To 35', Add</i>	4.75	
			<i>For Elevated Installation >35' To 40', Add</i>	5.94	
			<i>For Elevated Installation >40', Add</i>	6.53	
26 05 33	13-0562		Zinc Plated Steel 3-Piece Knock Out Seal <small>(26 05 33 13-0059)</small>	6.28	2.48
26 05 33	13-0563	EA	1/2" Zinc Plated Steel 3-Piece Knock Out Seal	6.28	2.48
			<i>For Work In Restricted Working Space, Add</i>	1.49	
			<i>For Elevated Installation >10' To 15', Add</i>	0.50	
			<i>For Elevated Installation >15' To 20', Add</i>	0.99	
			<i>For Elevated Installation >20' To 25', Add</i>	1.24	
			<i>For Elevated Installation >25' To 30', Add</i>	1.73	
			<i>For Elevated Installation >30' To 35', Add</i>	1.98	
			<i>For Elevated Installation >35' To 40', Add</i>	2.48	
			<i>For Elevated Installation >40', Add</i>	2.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0564 EA 3/4" Zinc Plated Steel 3-Piece Knock Out Seal	7.49	2.97
For Work In Restricted Working Space, Add	1.78	
For Elevated Installation >10' To 15', Add	0.59	
For Elevated Installation >15' To 20', Add	1.19	
For Elevated Installation >20' To 25', Add	1.49	
For Elevated Installation >25' To 30', Add	2.08	
For Elevated Installation >30' To 35', Add	2.38	
For Elevated Installation >35' To 40', Add	2.97	
For Elevated Installation >40', Add	3.27	
26 05 33 13-0565 EA 1" Zinc Plated Steel 3-Piece Knock Out Seal	9.07	3.47
For Work In Restricted Working Space, Add	2.08	
For Elevated Installation >10' To 15', Add	0.69	
For Elevated Installation >15' To 20', Add	1.39	
For Elevated Installation >20' To 25', Add	1.73	
For Elevated Installation >25' To 30', Add	2.43	
For Elevated Installation >30' To 35', Add	2.77	
For Elevated Installation >35' To 40', Add	3.47	
For Elevated Installation >40', Add	3.81	
26 05 33 13-0566 EA 1-1/4" Zinc Plated Steel 3-Piece Knock Out Seal	11.67	4.45
For Work In Restricted Working Space, Add	2.68	
For Elevated Installation >10' To 15', Add	0.89	
For Elevated Installation >15' To 20', Add	1.78	
For Elevated Installation >20' To 25', Add	2.23	
For Elevated Installation >25' To 30', Add	3.12	
For Elevated Installation >30' To 35', Add	3.57	
For Elevated Installation >35' To 40', Add	4.46	
For Elevated Installation >40', Add	4.91	
26 05 33 13-0567 EA 1-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	14.30	4.95
For Work In Restricted Working Space, Add	2.97	
For Elevated Installation >10' To 15', Add	0.99	
For Elevated Installation >15' To 20', Add	1.98	
For Elevated Installation >20' To 25', Add	2.48	
For Elevated Installation >25' To 30', Add	3.47	
For Elevated Installation >30' To 35', Add	3.96	
For Elevated Installation >35' To 40', Add	4.95	
For Elevated Installation >40', Add	5.45	
26 05 33 13-0568 EA 2" Zinc Plated Steel 3-Piece Knock Out Seal	17.29	5.94
For Work In Restricted Working Space, Add	3.56	
For Elevated Installation >10' To 15', Add	1.19	
For Elevated Installation >15' To 20', Add	2.38	
For Elevated Installation >20' To 25', Add	2.97	
For Elevated Installation >25' To 30', Add	4.16	
For Elevated Installation >30' To 35', Add	4.75	
For Elevated Installation >35' To 40', Add	5.94	
For Elevated Installation >40', Add	6.53	
26 05 33 13-0569 EA 2-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	21.22	7.42
For Work In Restricted Working Space, Add	4.46	
For Elevated Installation >10' To 15', Add	1.49	
For Elevated Installation >15' To 20', Add	2.97	
For Elevated Installation >20' To 25', Add	3.71	
For Elevated Installation >25' To 30', Add	5.20	
For Elevated Installation >30' To 35', Add	5.94	
For Elevated Installation >35' To 40', Add	7.43	
For Elevated Installation >40', Add	8.17	
26 05 33 13-0570 EA 3" Zinc Plated Steel 3-Piece Knock Out Seal	24.78	8.41
For Work In Restricted Working Space, Add	5.05	
For Elevated Installation >10' To 15', Add	1.68	
For Elevated Installation >15' To 20', Add	3.37	
For Elevated Installation >20' To 25', Add	4.21	
For Elevated Installation >25' To 30', Add	5.89	
For Elevated Installation >30' To 35', Add	6.73	
For Elevated Installation >35' To 40', Add	8.42	
For Elevated Installation >40', Add	9.26	
26 05 33 13-0571 EA 3-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	30.01	9.41
For Work In Restricted Working Space, Add	5.64	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.76	
For Elevated Installation >20' To 25', Add	4.70	
For Elevated Installation >25' To 30', Add	6.58	
For Elevated Installation >30' To 35', Add	7.52	
For Elevated Installation >35' To 40', Add	9.41	
For Elevated Installation >40', Add	10.35	
26 05 33 13-0572 EA 4" Zinc Plated Steel 3-Piece Knock Out Seal	35.16	10.40
For Work In Restricted Working Space, Add	6.24	
For Elevated Installation >10' To 15', Add	2.08	
For Elevated Installation >15' To 20', Add	4.16	
For Elevated Installation >20' To 25', Add	5.20	
For Elevated Installation >25' To 30', Add	7.28	
For Elevated Installation >30' To 35', Add	8.32	
For Elevated Installation >35' To 40', Add	10.40	
For Elevated Installation >40', Add	11.43	

26 05 33 13-0573 Rigid Galvanized Steel (RGS) Chase Nipples (26 05 33 13-0059)

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0574	EA	1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	12.22	5.94
			<i>For Work In Restricted Working Space, Add</i>	3.56	
			<i>For Elevated Installation >10' To 15', Add</i>	1.19	
			<i>For Elevated Installation >15' To 20', Add</i>	2.38	
			<i>For Elevated Installation >20' To 25', Add</i>	2.97	
			<i>For Elevated Installation >25' To 30', Add</i>	4.16	
			<i>For Elevated Installation >30' To 35', Add</i>	4.75	
			<i>For Elevated Installation >35' To 40', Add</i>	5.94	
			<i>For Elevated Installation >40', Add</i>	6.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.56	
26 05 33	13-0575	EA	3/4" Rigid Galvanized Steel (RGS) Chase Nipple.....	14.43	6.93
			<i>For Work In Restricted Working Space, Add</i>	4.16	
			<i>For Elevated Installation >10' To 15', Add</i>	1.39	
			<i>For Elevated Installation >15' To 20', Add</i>	2.77	
			<i>For Elevated Installation >20' To 25', Add</i>	3.47	
			<i>For Elevated Installation >25' To 30', Add</i>	4.85	
			<i>For Elevated Installation >30' To 35', Add</i>	5.54	
			<i>For Elevated Installation >35' To 40', Add</i>	6.93	
			<i>For Elevated Installation >40', Add</i>	7.62	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.16	
26 05 33	13-0576	EA	1" Rigid Galvanized Steel (RGS) Chase Nipple.....	18.08	8.41
			<i>For Work In Restricted Working Space, Add</i>	5.05	
			<i>For Elevated Installation >10' To 15', Add</i>	1.68	
			<i>For Elevated Installation >15' To 20', Add</i>	3.37	
			<i>For Elevated Installation >20' To 25', Add</i>	4.21	
			<i>For Elevated Installation >25' To 30', Add</i>	5.89	
			<i>For Elevated Installation >30' To 35', Add</i>	6.73	
			<i>For Elevated Installation >35' To 40', Add</i>	8.42	
			<i>For Elevated Installation >40', Add</i>	9.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.05	
26 05 33	13-0577	EA	1-1/4" Rigid Galvanized Steel (RGS) Chase Nipple.....	21.96	9.90
			<i>For Work In Restricted Working Space, Add</i>	5.94	
			<i>For Elevated Installation >10' To 15', Add</i>	1.98	
			<i>For Elevated Installation >15' To 20', Add</i>	3.96	
			<i>For Elevated Installation >20' To 25', Add</i>	4.95	
			<i>For Elevated Installation >25' To 30', Add</i>	6.93	
			<i>For Elevated Installation >30' To 35', Add</i>	7.92	
			<i>For Elevated Installation >35' To 40', Add</i>	9.90	
			<i>For Elevated Installation >40', Add</i>	10.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.94	
26 05 33	13-0578	EA	1-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	27.53	12.38
			<i>For Work In Restricted Working Space, Add</i>	7.43	
			<i>For Elevated Installation >10' To 15', Add</i>	2.48	
			<i>For Elevated Installation >15' To 20', Add</i>	4.95	
			<i>For Elevated Installation >20' To 25', Add</i>	6.19	
			<i>For Elevated Installation >25' To 30', Add</i>	8.66	
			<i>For Elevated Installation >30' To 35', Add</i>	9.90	
			<i>For Elevated Installation >35' To 40', Add</i>	12.38	
			<i>For Elevated Installation >40', Add</i>	13.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.43	
26 05 33	13-0579	EA	2" Rigid Galvanized Steel (RGS) Chase Nipple.....	34.21	14.85
			<i>For Work In Restricted Working Space, Add</i>	8.91	
			<i>For Elevated Installation >10' To 15', Add</i>	2.97	
			<i>For Elevated Installation >15' To 20', Add</i>	5.94	
			<i>For Elevated Installation >20' To 25', Add</i>	7.43	
			<i>For Elevated Installation >25' To 30', Add</i>	10.40	
			<i>For Elevated Installation >30' To 35', Add</i>	11.88	
			<i>For Elevated Installation >35' To 40', Add</i>	14.85	
			<i>For Elevated Installation >40', Add</i>	16.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.91	
26 05 33	13-0580	EA	2-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	43.23	17.33
			<i>For Work In Restricted Working Space, Add</i>	10.40	
			<i>For Elevated Installation >10' To 15', Add</i>	3.47	
			<i>For Elevated Installation >15' To 20', Add</i>	6.93	
			<i>For Elevated Installation >20' To 25', Add</i>	8.66	
			<i>For Elevated Installation >25' To 30', Add</i>	12.13	
			<i>For Elevated Installation >30' To 35', Add</i>	13.86	
			<i>For Elevated Installation >35' To 40', Add</i>	17.33	
			<i>For Elevated Installation >40', Add</i>	19.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.40	
26 05 33	13-0581	EA	3" Rigid Galvanized Steel (RGS) Chase Nipple.....	48.40	19.80
			<i>For Work In Restricted Working Space, Add</i>	11.88	
			<i>For Elevated Installation >10' To 15', Add</i>	3.96	
			<i>For Elevated Installation >15' To 20', Add</i>	7.92	
			<i>For Elevated Installation >20' To 25', Add</i>	9.90	
			<i>For Elevated Installation >25' To 30', Add</i>	13.86	
			<i>For Elevated Installation >30' To 35', Add</i>	15.84	
			<i>For Elevated Installation >35' To 40', Add</i>	19.80	
			<i>For Elevated Installation >40', Add</i>	21.78	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0582 EA 3-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	60.12	22.27
<i>For Work In Restricted Working Space, Add</i>	13.37	
<i>For Elevated Installation >10' To 15', Add</i>	4.46	
<i>For Elevated Installation >15' To 20', Add</i>	8.91	
<i>For Elevated Installation >20' To 25', Add</i>	11.14	
<i>For Elevated Installation >25' To 30', Add</i>	15.60	
<i>For Elevated Installation >30' To 35', Add</i>	17.82	
<i>For Elevated Installation >35' To 40', Add</i>	22.28	
<i>For Elevated Installation >40', Add</i>	24.51	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.37	
26 05 33 13-0583 EA 4" Rigid Galvanized Steel (RGS) Chase Nipple.....	82.10	24.75
<i>For Work In Restricted Working Space, Add</i>	14.85	
<i>For Elevated Installation >10' To 15', Add</i>	4.95	
<i>For Elevated Installation >15' To 20', Add</i>	9.90	
<i>For Elevated Installation >20' To 25', Add</i>	12.38	
<i>For Elevated Installation >25' To 30', Add</i>	17.33	
<i>For Elevated Installation >30' To 35', Add</i>	19.80	
<i>For Elevated Installation >35' To 40', Add</i>	24.75	
<i>For Elevated Installation >40', Add</i>	27.23	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.85	
26 05 33 13-0584 Rigid Galvanized Steel (RGS) Pulling Elbow <small>(26 05 33 13-0059)</small>		
26 05 33 13-0585 EA 1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	23.73	8.92
<i>For Work In Restricted Working Space, Add</i>	5.35	
<i>For Elevated Installation >10' To 15', Add</i>	1.78	
<i>For Elevated Installation >15' To 20', Add</i>	3.56	
<i>For Elevated Installation >20' To 25', Add</i>	4.46	
<i>For Elevated Installation >25' To 30', Add</i>	6.24	
<i>For Elevated Installation >30' To 35', Add</i>	7.13	
<i>For Elevated Installation >35' To 40', Add</i>	8.91	
<i>For Elevated Installation >40', Add</i>	9.80	
26 05 33 13-0586 EA 3/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	27.58	10.40
<i>For Work In Restricted Working Space, Add</i>	6.24	
<i>For Elevated Installation >10' To 15', Add</i>	2.08	
<i>For Elevated Installation >15' To 20', Add</i>	4.16	
<i>For Elevated Installation >20' To 25', Add</i>	5.20	
<i>For Elevated Installation >25' To 30', Add</i>	7.28	
<i>For Elevated Installation >30' To 35', Add</i>	8.32	
<i>For Elevated Installation >35' To 40', Add</i>	10.40	
<i>For Elevated Installation >40', Add</i>	11.43	
26 05 33 13-0587 EA 1" Rigid Galvanized Steel (RGS) Pulling Elbow.....	35.03	11.88
<i>For Work In Restricted Working Space, Add</i>	7.13	
<i>For Elevated Installation >10' To 15', Add</i>	2.38	
<i>For Elevated Installation >15' To 20', Add</i>	4.75	
<i>For Elevated Installation >20' To 25', Add</i>	5.94	
<i>For Elevated Installation >25' To 30', Add</i>	8.32	
<i>For Elevated Installation >30' To 35', Add</i>	9.50	
<i>For Elevated Installation >35' To 40', Add</i>	11.88	
<i>For Elevated Installation >40', Add</i>	13.07	
26 05 33 13-0588 EA 1-1/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	44.88	14.85
<i>For Work In Restricted Working Space, Add</i>	8.91	
<i>For Elevated Installation >10' To 15', Add</i>	2.97	
<i>For Elevated Installation >15' To 20', Add</i>	5.94	
<i>For Elevated Installation >20' To 25', Add</i>	7.43	
<i>For Elevated Installation >25' To 30', Add</i>	10.40	
<i>For Elevated Installation >30' To 35', Add</i>	11.88	
<i>For Elevated Installation >35' To 40', Add</i>	14.85	
<i>For Elevated Installation >40', Add</i>	16.34	
26 05 33 13-0589 EA 1-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	59.73	17.82
<i>For Work In Restricted Working Space, Add</i>	10.69	
<i>For Elevated Installation >10' To 15', Add</i>	3.56	
<i>For Elevated Installation >15' To 20', Add</i>	7.13	
<i>For Elevated Installation >20' To 25', Add</i>	8.91	
<i>For Elevated Installation >25' To 30', Add</i>	12.47	
<i>For Elevated Installation >30' To 35', Add</i>	14.26	
<i>For Elevated Installation >35' To 40', Add</i>	17.82	
<i>For Elevated Installation >40', Add</i>	19.60	
26 05 33 13-0590 EA 2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	79.71	20.79
<i>For Work In Restricted Working Space, Add</i>	12.47	
<i>For Elevated Installation >10' To 15', Add</i>	4.16	
<i>For Elevated Installation >15' To 20', Add</i>	8.32	
<i>For Elevated Installation >20' To 25', Add</i>	10.40	
<i>For Elevated Installation >25' To 30', Add</i>	14.55	
<i>For Elevated Installation >30' To 35', Add</i>	16.63	
<i>For Elevated Installation >35' To 40', Add</i>	20.79	
<i>For Elevated Installation >40', Add</i>	22.87	
26 05 33 13-0591 EA 2-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	110.48	23.76
<i>For Work In Restricted Working Space, Add</i>	14.26	
<i>For Elevated Installation >10' To 15', Add</i>	4.75	
<i>For Elevated Installation >15' To 20', Add</i>	9.51	
<i>For Elevated Installation >20' To 25', Add</i>	11.88	
<i>For Elevated Installation >25' To 30', Add</i>	16.64	
<i>For Elevated Installation >30' To 35', Add</i>	19.01	
<i>For Elevated Installation >35' To 40', Add</i>	23.77	
<i>For Elevated Installation >40', Add</i>	26.14	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0592	EA		3" Rigid Galvanized Steel (RGS) Pulling Elbow.....	192.76	29.70
			<i>For Work In Restricted Working Space, Add</i>	17.82	
			<i>For Elevated Installation >10' To 15', Add</i>	5.94	
			<i>For Elevated Installation >15' To 20', Add</i>	11.88	
			<i>For Elevated Installation >20' To 25', Add</i>	14.85	
			<i>For Elevated Installation >25' To 30', Add</i>	20.79	
			<i>For Elevated Installation >30' To 35', Add</i>	23.76	
			<i>For Elevated Installation >35' To 40', Add</i>	29.70	
			<i>For Elevated Installation >40', Add</i>	32.67	
26 05 33 13-0593			Electrical Metallic Tubing (EMT) Thinwall Conduit <small>(26 05 33 13-0058)</small>		
			Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0594			Electrical Metallic Tubing (EMT) Thinwall Conduit <small>(26 05 33 13-0593)</small>		
			Note: Includes field bending conduit up to and including 1".		
26 05 33 13-0595	LF		1/2" Electrical Metallic Tubing (EMT) Conduit.....	5.33	1.79
			<i>For >250 To 500, Deduct</i>	-0.04	
			<i>For >500 To 1,000, Deduct</i>	-0.29	
			<i>For >1,000, Deduct</i>	-0.42	
			<i>For Installation In Metal Stud Wall, Add</i>	0.45	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.11	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.67	
			<i>For Work In Restricted Working Space, Add</i>	1.34	
			<i>For Elevated Installation >10' To 15', Add</i>	0.45	
			<i>For Elevated Installation >15' To 20', Add</i>	0.89	
			<i>For Elevated Installation >20' To 25', Add</i>	1.11	
			<i>For Elevated Installation >25' To 30', Add</i>	1.56	
			<i>For Elevated Installation >30' To 35', Add</i>	1.78	
			<i>For Elevated Installation >35' To 40', Add</i>	2.23	
			<i>For Elevated Installation >40', Add</i>	2.45	
			<i>For Factory Applied Color Coating, Add</i>	0.26	
26 05 33 13-0596	LF		3/4" Electrical Metallic Tubing (EMT) Conduit.....	6.32	1.98
			<i>For >250 To 500, Deduct</i>	-0.07	
			<i>For >500 To 1,000, Deduct</i>	-0.35	
			<i>For >1,000, Deduct</i>	-0.51	
			<i>For Installation In Metal Stud Wall, Add</i>	0.50	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.24	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.74	
			<i>For Work In Restricted Working Space, Add</i>	1.49	
			<i>For Elevated Installation >10' To 15', Add</i>	0.50	
			<i>For Elevated Installation >15' To 20', Add</i>	0.99	
			<i>For Elevated Installation >20' To 25', Add</i>	1.24	
			<i>For Elevated Installation >25' To 30', Add</i>	1.73	
			<i>For Elevated Installation >30' To 35', Add</i>	1.98	
			<i>For Elevated Installation >35' To 40', Add</i>	2.48	
			<i>For Elevated Installation >40', Add</i>	2.72	
			<i>For Factory Applied Color Coating, Add</i>	0.41	
26 05 33 13-0597	LF		1" Electrical Metallic Tubing (EMT) Conduit.....	7.73	2.18
			<i>For >250 To 500, Deduct</i>	-0.11	
			<i>For >500 To 1,000, Deduct</i>	-0.44	
			<i>For >1,000, Deduct</i>	-0.64	
			<i>For Installation In Metal Stud Wall, Add</i>	0.55	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.36	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.82	
			<i>For Work In Restricted Working Space, Add</i>	1.64	
			<i>For Elevated Installation >10' To 15', Add</i>	0.55	
			<i>For Elevated Installation >15' To 20', Add</i>	1.09	
			<i>For Elevated Installation >20' To 25', Add</i>	1.36	
			<i>For Elevated Installation >25' To 30', Add</i>	1.91	
			<i>For Elevated Installation >30' To 35', Add</i>	2.18	
			<i>For Elevated Installation >35' To 40', Add</i>	2.73	
			<i>For Elevated Installation >40', Add</i>	3.00	
			<i>For Factory Applied Color Coating, Add</i>	0.68	
26 05 33 13-0598	LF		1-1/4" Electrical Metallic Tubing (EMT) Conduit.....	9.74	2.46
			<i>For >250 To 500, Deduct</i>	-0.18	
			<i>For >500 To 1,000, Deduct</i>	-0.58	
			<i>For >1,000, Deduct</i>	-0.82	
			<i>For Installation In Metal Stud Wall, Add</i>	0.61	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.54	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.92	
			<i>For Work In Restricted Working Space, Add</i>	1.84	
			<i>For Elevated Installation >10' To 15', Add</i>	0.61	
			<i>For Elevated Installation >15' To 20', Add</i>	1.23	
			<i>For Elevated Installation >20' To 25', Add</i>	1.54	
			<i>For Elevated Installation >25' To 30', Add</i>	2.15	
			<i>For Elevated Installation >30' To 35', Add</i>	2.46	
			<i>For Elevated Installation >35' To 40', Add</i>	3.07	
			<i>For Elevated Installation >40', Add</i>	3.38	
			<i>For Factory Applied Color Coating, Add</i>	1.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0599 LF 1-1/2" Electrical Metallic Tubing (EMT) Conduit	11.41	2.77
For >250 To 500, Deduct	-0.22	
For >500 To 1,000, Deduct	-0.68	
For >1,000, Deduct	-0.97	
For Installation In Metal Stud Wall, Add	0.69	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.73	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.04	
For Work In Restricted Working Space, Add	2.08	
For Elevated Installation >10' To 15', Add	0.69	
For Elevated Installation >15' To 20', Add	1.39	
For Elevated Installation >20' To 25', Add	1.73	
For Elevated Installation >25' To 30', Add	2.43	
For Elevated Installation >30' To 35', Add	2.77	
For Elevated Installation >35' To 40', Add	3.47	
For Elevated Installation >40', Add	3.81	
For Factory Applied Color Coating, Add	1.34	
26 05 33 13-0600 LF 2" Electrical Metallic Tubing (EMT) Conduit.....	13.24	3.17
For >250 To 500, Deduct	-0.27	
For >500 To 1,000, Deduct	-0.80	
For >1,000, Deduct	-1.13	
For Installation In Metal Stud Wall, Add	0.79	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.98	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.19	
For Work In Restricted Working Space, Add	2.38	
For Elevated Installation >10' To 15', Add	0.79	
For Elevated Installation >15' To 20', Add	1.58	
For Elevated Installation >20' To 25', Add	1.98	
For Elevated Installation >25' To 30', Add	2.77	
For Elevated Installation >30' To 35', Add	3.17	
For Elevated Installation >35' To 40', Add	3.96	
For Elevated Installation >40', Add	4.36	
For Factory Applied Color Coating, Add	1.60	
26 05 33 13-0601 LF 2-1/2" Electrical Metallic Tubing (EMT) Conduit	17.29	3.76
For >250 To 500, Deduct	-0.39	
For >500 To 1,000, Deduct	-1.06	
For >1,000, Deduct	-1.49	
For Installation In Metal Stud Wall, Add	0.94	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.35	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.41	
For Work In Restricted Working Space, Add	2.82	
For Elevated Installation >10' To 15', Add	0.94	
For Elevated Installation >15' To 20', Add	1.88	
For Elevated Installation >20' To 25', Add	2.35	
For Elevated Installation >25' To 30', Add	3.29	
For Elevated Installation >30' To 35', Add	3.76	
For Elevated Installation >35' To 40', Add	4.71	
For Elevated Installation >40', Add	5.18	
For Factory Applied Color Coating, Add	2.36	
26 05 33 13-0602 LF 3" Electrical Metallic Tubing (EMT) Conduit.....	20.75	4.35
For >250 To 500, Deduct	-0.49	
For >500 To 1,000, Deduct	-1.28	
For >1,000, Deduct	-1.80	
For Installation In Metal Stud Wall, Add	1.09	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.72	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.63	
For Work In Restricted Working Space, Add	3.27	
For Elevated Installation >10' To 15', Add	1.09	
For Elevated Installation >15' To 20', Add	2.18	
For Elevated Installation >20' To 25', Add	2.72	
For Elevated Installation >25' To 30', Add	3.81	
For Elevated Installation >30' To 35', Add	4.36	
For Elevated Installation >35' To 40', Add	5.45	
For Elevated Installation >40', Add	5.99	
For Factory Applied Color Coating, Add	2.96	
26 05 33 13-0603 LF 3-1/2" Electrical Metallic Tubing (EMT) Conduit	26.05	5.14
For >250 To 500, Deduct	-0.66	
For >500 To 1,000, Deduct	-1.63	
For >1,000, Deduct	-2.28	
For Installation In Metal Stud Wall, Add	1.29	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.22	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.93	
For Work In Restricted Working Space, Add	3.86	
For Elevated Installation >10' To 15', Add	1.29	
For Elevated Installation >15' To 20', Add	2.57	
For Elevated Installation >20' To 25', Add	3.22	
For Elevated Installation >25' To 30', Add	4.50	
For Elevated Installation >30' To 35', Add	5.15	
For Elevated Installation >35' To 40', Add	6.44	
For Elevated Installation >40', Add	7.08	
For Factory Applied Color Coating, Add	3.95	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0604	LF	4" Electrical Metallic Tubing (EMT) Conduit.....	35.06	8.08
			<i>For >250 To 500, Deduct</i>	-0.74	
			<i>For >500 To 1,000, Deduct</i>	-2.12	
			<i>For >1,000, Deduct</i>	-3.00	
			<i>For Installation In Metal Stud Wall, Add</i>	2.02	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	5.05	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	3.03	
			<i>For Work In Restricted Working Space, Add</i>	6.06	
			<i>For Elevated Installation >10' To 15', Add</i>	2.02	
			<i>For Elevated Installation >15' To 20', Add</i>	4.04	
			<i>For Elevated Installation >20' To 25', Add</i>	5.05	
			<i>For Elevated Installation >25' To 30', Add</i>	7.07	
			<i>For Elevated Installation >30' To 35', Add</i>	8.08	
			<i>For Elevated Installation >35' To 40', Add</i>	10.11	
			<i>For Elevated Installation >40', Add</i>	11.12	
			<i>For Factory Applied Color Coating, Add</i>	4.46	
26 05 33	13-0605		Electrical Metallic Tubing (EMT) 90 Degree Elbows <small>(26 05 33 13-0593)</small>		
			See CSI section 26 05 33 13-2437 for conduit field bending.		
26 05 33	13-0606		Electrical Metallic Tubing (EMT) Set Screw Couplings <small>(26 05 33 13-0593)</small>		
26 05 33	13-0607	EA	1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	5.19	2.38
			<i>For Work In Restricted Working Space, Add</i>	1.49	
			<i>For Elevated Installation >10' To 15', Add</i>	0.50	
			<i>For Elevated Installation >15' To 20', Add</i>	0.99	
			<i>For Elevated Installation >20' To 25', Add</i>	1.24	
			<i>For Elevated Installation >25' To 30', Add</i>	1.73	
			<i>For Elevated Installation >30' To 35', Add</i>	1.98	
			<i>For Elevated Installation >35' To 40', Add</i>	2.48	
			<i>For Elevated Installation >40', Add</i>	2.72	
26 05 33	13-0608	EA	3/4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	6.30	2.38
			<i>For Work In Restricted Working Space, Add</i>	1.78	
			<i>For Elevated Installation >10' To 15', Add</i>	0.59	
			<i>For Elevated Installation >15' To 20', Add</i>	1.19	
			<i>For Elevated Installation >20' To 25', Add</i>	1.49	
			<i>For Elevated Installation >25' To 30', Add</i>	2.08	
			<i>For Elevated Installation >30' To 35', Add</i>	2.38	
			<i>For Elevated Installation >35' To 40', Add</i>	2.97	
			<i>For Elevated Installation >40', Add</i>	3.27	
26 05 33	13-0609	EA	1" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	7.48	2.77
			<i>For Work In Restricted Working Space, Add</i>	2.08	
			<i>For Elevated Installation >10' To 15', Add</i>	0.69	
			<i>For Elevated Installation >15' To 20', Add</i>	1.39	
			<i>For Elevated Installation >20' To 25', Add</i>	1.73	
			<i>For Elevated Installation >25' To 30', Add</i>	2.43	
			<i>For Elevated Installation >30' To 35', Add</i>	2.77	
			<i>For Elevated Installation >35' To 40', Add</i>	3.47	
			<i>For Elevated Installation >40', Add</i>	3.81	
26 05 33	13-0610	EA	1-1/4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	10.11	3.56
			<i>For Work In Restricted Working Space, Add</i>	2.67	
			<i>For Elevated Installation >10' To 15', Add</i>	0.89	
			<i>For Elevated Installation >15' To 20', Add</i>	1.78	
			<i>For Elevated Installation >20' To 25', Add</i>	2.23	
			<i>For Elevated Installation >25' To 30', Add</i>	3.12	
			<i>For Elevated Installation >30' To 35', Add</i>	3.56	
			<i>For Elevated Installation >35' To 40', Add</i>	4.46	
			<i>For Elevated Installation >40', Add</i>	4.90	
26 05 33	13-0611	EA	1-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	12.47	4.35
			<i>For Work In Restricted Working Space, Add</i>	3.27	
			<i>For Elevated Installation >10' To 15', Add</i>	1.09	
			<i>For Elevated Installation >15' To 20', Add</i>	2.18	
			<i>For Elevated Installation >20' To 25', Add</i>	2.72	
			<i>For Elevated Installation >25' To 30', Add</i>	3.81	
			<i>For Elevated Installation >30' To 35', Add</i>	4.36	
			<i>For Elevated Installation >35' To 40', Add</i>	5.45	
			<i>For Elevated Installation >40', Add</i>	5.99	
26 05 33	13-0612	EA	2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	16.96	5.94
			<i>For Work In Restricted Working Space, Add</i>	4.46	
			<i>For Elevated Installation >10' To 15', Add</i>	1.49	
			<i>For Elevated Installation >15' To 20', Add</i>	2.97	
			<i>For Elevated Installation >20' To 25', Add</i>	3.71	
			<i>For Elevated Installation >25' To 30', Add</i>	5.20	
			<i>For Elevated Installation >30' To 35', Add</i>	5.94	
			<i>For Elevated Installation >35' To 40', Add</i>	7.43	
			<i>For Elevated Installation >40', Add</i>	8.17	
26 05 33	13-0613	EA	2-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	23.50	7.92
			<i>For Work In Restricted Working Space, Add</i>	5.94	
			<i>For Elevated Installation >10' To 15', Add</i>	1.98	
			<i>For Elevated Installation >15' To 20', Add</i>	3.96	
			<i>For Elevated Installation >20' To 25', Add</i>	4.95	
			<i>For Elevated Installation >25' To 30', Add</i>	6.93	
			<i>For Elevated Installation >30' To 35', Add</i>	7.92	
			<i>For Elevated Installation >35' To 40', Add</i>	9.91	
			<i>For Elevated Installation >40', Add</i>	10.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0614 EA 3" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	30.48	9.11
<i>For Work In Restricted Working Space, Add</i>	7.43	
<i>For Elevated Installation >10' To 15', Add</i>	2.48	
<i>For Elevated Installation >15' To 20', Add</i>	4.95	
<i>For Elevated Installation >20' To 25', Add</i>	6.19	
<i>For Elevated Installation >25' To 30', Add</i>	8.66	
<i>For Elevated Installation >30' To 35', Add</i>	9.90	
<i>For Elevated Installation >35' To 40', Add</i>	12.38	
<i>For Elevated Installation >40', Add</i>	13.61	
26 05 33 13-0615 EA 3-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling	34.24	9.90
<i>For Work In Restricted Working Space, Add</i>	8.91	
<i>For Elevated Installation >10' To 15', Add</i>	2.97	
<i>For Elevated Installation >15' To 20', Add</i>	5.94	
<i>For Elevated Installation >20' To 25', Add</i>	7.43	
<i>For Elevated Installation >25' To 30', Add</i>	10.40	
<i>For Elevated Installation >30' To 35', Add</i>	11.88	
<i>For Elevated Installation >35' To 40', Add</i>	14.85	
<i>For Elevated Installation >40', Add</i>	16.34	
26 05 33 13-0616 EA 4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	102.92	29.29
<i>For Work In Restricted Working Space, Add</i>	28.45	
<i>For Elevated Installation >10' To 15', Add</i>	9.48	
<i>For Elevated Installation >15' To 20', Add</i>	18.97	
<i>For Elevated Installation >20' To 25', Add</i>	23.71	
<i>For Elevated Installation >25' To 30', Add</i>	33.19	
<i>For Elevated Installation >30' To 35', Add</i>	37.93	
<i>For Elevated Installation >35' To 40', Add</i>	47.42	
<i>For Elevated Installation >40', Add</i>	52.16	
26 05 33 13-0617 Electrical Metallic Tubing (EMT) Compression Couplings <small>(26 05 33 13-0593)</small>		
26 05 33 13-0618 EA 1/2 Electrical Metallic Tubing (EMT) Compression Coupling.....	6.55	2.38
<i>For Work In Restricted Working Space, Add</i>	1.78	
<i>For Elevated Installation >10' To 15', Add</i>	0.59	
<i>For Elevated Installation >15' To 20', Add</i>	1.19	
<i>For Elevated Installation >20' To 25', Add</i>	1.49	
<i>For Elevated Installation >25' To 30', Add</i>	2.08	
<i>For Elevated Installation >30' To 35', Add</i>	2.38	
<i>For Elevated Installation >35' To 40', Add</i>	2.97	
<i>For Elevated Installation >40', Add</i>	3.27	
26 05 33 13-0619 EA 3/4" Electrical Metallic Tubing (EMT) Compression Coupling.....	7.60	2.77
<i>For Work In Restricted Working Space, Add</i>	2.08	
<i>For Elevated Installation >10' To 15', Add</i>	0.69	
<i>For Elevated Installation >15' To 20', Add</i>	1.39	
<i>For Elevated Installation >20' To 25', Add</i>	1.73	
<i>For Elevated Installation >25' To 30', Add</i>	2.43	
<i>For Elevated Installation >30' To 35', Add</i>	2.77	
<i>For Elevated Installation >35' To 40', Add</i>	3.47	
<i>For Elevated Installation >40', Add</i>	3.81	
26 05 33 13-0620 EA 1" Electrical Metallic Tubing (EMT) Compression Coupling.....	10.83	3.96
<i>For Work In Restricted Working Space, Add</i>	2.97	
<i>For Elevated Installation >10' To 15', Add</i>	0.99	
<i>For Elevated Installation >15' To 20', Add</i>	1.98	
<i>For Elevated Installation >20' To 25', Add</i>	2.48	
<i>For Elevated Installation >25' To 30', Add</i>	3.47	
<i>For Elevated Installation >30' To 35', Add</i>	3.96	
<i>For Elevated Installation >35' To 40', Add</i>	4.95	
<i>For Elevated Installation >40', Add</i>	5.45	
26 05 33 13-0621 EA 1-1/4" Electrical Metallic Tubing (EMT) Compression Coupling.....	13.82	4.75
<i>For Work In Restricted Working Space, Add</i>	3.56	
<i>For Elevated Installation >10' To 15', Add</i>	1.19	
<i>For Elevated Installation >15' To 20', Add</i>	2.38	
<i>For Elevated Installation >20' To 25', Add</i>	2.97	
<i>For Elevated Installation >25' To 30', Add</i>	4.16	
<i>For Elevated Installation >30' To 35', Add</i>	4.75	
<i>For Elevated Installation >35' To 40', Add</i>	5.94	
<i>For Elevated Installation >40', Add</i>	6.53	
26 05 33 13-0622 EA 1-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	16.59	5.55
<i>For Work In Restricted Working Space, Add</i>	4.16	
<i>For Elevated Installation >10' To 15', Add</i>	1.39	
<i>For Elevated Installation >15' To 20', Add</i>	2.77	
<i>For Elevated Installation >20' To 25', Add</i>	3.47	
<i>For Elevated Installation >25' To 30', Add</i>	4.85	
<i>For Elevated Installation >30' To 35', Add</i>	5.54	
<i>For Elevated Installation >35' To 40', Add</i>	6.93	
<i>For Elevated Installation >40', Add</i>	7.62	
26 05 33 13-0623 EA 2" Electrical Metallic Tubing (EMT) Compression Coupling.....	22.11	7.13
<i>For Work In Restricted Working Space, Add</i>	5.35	
<i>For Elevated Installation >10' To 15', Add</i>	1.78	
<i>For Elevated Installation >15' To 20', Add</i>	3.56	
<i>For Elevated Installation >20' To 25', Add</i>	4.46	
<i>For Elevated Installation >25' To 30', Add</i>	6.24	
<i>For Elevated Installation >30' To 35', Add</i>	7.13	
<i>For Elevated Installation >35' To 40', Add</i>	8.91	
<i>For Elevated Installation >40', Add</i>	9.80	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0624	EA	2-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	34.96	9.51
			<i>For Work In Restricted Working Space, Add</i>	7.13	
			<i>For Elevated Installation >10' To 15', Add</i>	2.38	
			<i>For Elevated Installation >15' To 20', Add</i>	4.75	
			<i>For Elevated Installation >20' To 25', Add</i>	5.94	
			<i>For Elevated Installation >25' To 30', Add</i>	8.32	
			<i>For Elevated Installation >30' To 35', Add</i>	9.50	
			<i>For Elevated Installation >35' To 40', Add</i>	11.88	
			<i>For Elevated Installation >40', Add</i>	13.07	
26 05 33	13-0625	EA	3" Electrical Metallic Tubing (EMT) Compression Coupling.....	40.46	11.09
			<i>For Work In Restricted Working Space, Add</i>	8.32	
			<i>For Elevated Installation >10' To 15', Add</i>	2.77	
			<i>For Elevated Installation >15' To 20', Add</i>	5.54	
			<i>For Elevated Installation >20' To 25', Add</i>	6.93	
			<i>For Elevated Installation >25' To 30', Add</i>	9.70	
			<i>For Elevated Installation >30' To 35', Add</i>	11.09	
			<i>For Elevated Installation >35' To 40', Add</i>	13.86	
			<i>For Elevated Installation >40', Add</i>	15.25	
26 05 33	13-0626	EA	3-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	50.58	13.86
			<i>For Work In Restricted Working Space, Add</i>	10.40	
			<i>For Elevated Installation >10' To 15', Add</i>	3.47	
			<i>For Elevated Installation >15' To 20', Add</i>	6.93	
			<i>For Elevated Installation >20' To 25', Add</i>	8.66	
			<i>For Elevated Installation >25' To 30', Add</i>	12.13	
			<i>For Elevated Installation >30' To 35', Add</i>	13.86	
			<i>For Elevated Installation >35' To 40', Add</i>	17.33	
			<i>For Elevated Installation >40', Add</i>	19.06	
26 05 33	13-0627	EA	4" Electrical Metallic Tubing (EMT) Compression Coupling.....	64.88	17.82
			<i>For Work In Restricted Working Space, Add</i>	13.37	
			<i>For Elevated Installation >10' To 15', Add</i>	4.46	
			<i>For Elevated Installation >15' To 20', Add</i>	8.91	
			<i>For Elevated Installation >20' To 25', Add</i>	11.14	
			<i>For Elevated Installation >25' To 30', Add</i>	15.60	
			<i>For Elevated Installation >30' To 35', Add</i>	17.82	
			<i>For Elevated Installation >35' To 40', Add</i>	22.28	
			<i>For Elevated Installation >40', Add</i>	24.51	
26 05 33	13-0628		Electrical Metallic Tubing (EMT) Raintight Compression Couplings <small>(26 05 33 13-0593)</small>		
26 05 33	13-0629	EA	1/2 Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	7.42	2.38
			<i>For Work In Restricted Working Space, Add</i>	1.78	
			<i>For Elevated Installation >10' To 15', Add</i>	0.59	
			<i>For Elevated Installation >15' To 20', Add</i>	1.19	
			<i>For Elevated Installation >20' To 25', Add</i>	1.49	
			<i>For Elevated Installation >25' To 30', Add</i>	2.08	
			<i>For Elevated Installation >30' To 35', Add</i>	2.38	
			<i>For Elevated Installation >35' To 40', Add</i>	2.97	
			<i>For Elevated Installation >40', Add</i>	3.27	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.78	
26 05 33	13-0630	EA	3/4" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	8.55	2.77
			<i>For Work In Restricted Working Space, Add</i>	2.08	
			<i>For Elevated Installation >10' To 15', Add</i>	0.69	
			<i>For Elevated Installation >15' To 20', Add</i>	1.39	
			<i>For Elevated Installation >20' To 25', Add</i>	1.73	
			<i>For Elevated Installation >25' To 30', Add</i>	2.43	
			<i>For Elevated Installation >30' To 35', Add</i>	2.77	
			<i>For Elevated Installation >35' To 40', Add</i>	3.47	
			<i>For Elevated Installation >40', Add</i>	3.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.08	
26 05 33	13-0631	EA	1" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	12.64	3.96
			<i>For Work In Restricted Working Space, Add</i>	2.97	
			<i>For Elevated Installation >10' To 15', Add</i>	0.99	
			<i>For Elevated Installation >15' To 20', Add</i>	1.98	
			<i>For Elevated Installation >20' To 25', Add</i>	2.48	
			<i>For Elevated Installation >25' To 30', Add</i>	3.47	
			<i>For Elevated Installation >30' To 35', Add</i>	3.96	
			<i>For Elevated Installation >35' To 40', Add</i>	4.95	
			<i>For Elevated Installation >40', Add</i>	5.45	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.97	
26 05 33	13-0632	EA	1-1/4" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	16.02	4.75
			<i>For Work In Restricted Working Space, Add</i>	3.56	
			<i>For Elevated Installation >10' To 15', Add</i>	1.19	
			<i>For Elevated Installation >15' To 20', Add</i>	2.38	
			<i>For Elevated Installation >20' To 25', Add</i>	2.97	
			<i>For Elevated Installation >25' To 30', Add</i>	4.16	
			<i>For Elevated Installation >30' To 35', Add</i>	4.75	
			<i>For Elevated Installation >35' To 40', Add</i>	5.94	
			<i>For Elevated Installation >40', Add</i>	6.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0633 EA 1-1/2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	20.50	5.55
For Work In Restricted Working Space, Add	4.16	
For Elevated Installation >10' To 15', Add	1.39	
For Elevated Installation >15' To 20', Add	2.77	
For Elevated Installation >20' To 25', Add	3.47	
For Elevated Installation >25' To 30', Add	4.85	
For Elevated Installation >30' To 35', Add	5.54	
For Elevated Installation >35' To 40', Add	6.93	
For Elevated Installation >40', Add	7.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.16	
26 05 33 13-0634 EA 2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	24.99	6.73
For Work In Restricted Working Space, Add	5.05	
For Elevated Installation >10' To 15', Add	1.68	
For Elevated Installation >15' To 20', Add	3.37	
For Elevated Installation >20' To 25', Add	4.21	
For Elevated Installation >25' To 30', Add	5.89	
For Elevated Installation >30' To 35', Add	6.73	
For Elevated Installation >35' To 40', Add	8.42	
For Elevated Installation >40', Add	9.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.05	
26 05 33 13-0635 EA 2-1/2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	33.62	9.11
For Work In Restricted Working Space, Add	6.83	
For Elevated Installation >10' To 15', Add	2.28	
For Elevated Installation >15' To 20', Add	4.55	
For Elevated Installation >20' To 25', Add	5.69	
For Elevated Installation >25' To 30', Add	7.97	
For Elevated Installation >30' To 35', Add	9.11	
For Elevated Installation >35' To 40', Add	11.39	
For Elevated Installation >40', Add	12.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.83	
26 05 33 13-0636 EA 3" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	42.46	11.09
For Work In Restricted Working Space, Add	8.32	
For Elevated Installation >10' To 15', Add	2.77	
For Elevated Installation >15' To 20', Add	5.54	
For Elevated Installation >20' To 25', Add	6.93	
For Elevated Installation >25' To 30', Add	9.70	
For Elevated Installation >30' To 35', Add	11.09	
For Elevated Installation >35' To 40', Add	13.86	
For Elevated Installation >40', Add	15.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.32	
26 05 33 13-0637 EA 3-1/2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	55.98	13.86
For Work In Restricted Working Space, Add	10.40	
For Elevated Installation >10' To 15', Add	3.47	
For Elevated Installation >15' To 20', Add	6.93	
For Elevated Installation >20' To 25', Add	8.66	
For Elevated Installation >25' To 30', Add	12.13	
For Elevated Installation >30' To 35', Add	13.86	
For Elevated Installation >35' To 40', Add	17.33	
For Elevated Installation >40', Add	19.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.40	
26 05 33 13-0638 EA 4" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	68.40	17.82
For Work In Restricted Working Space, Add	13.37	
For Elevated Installation >10' To 15', Add	4.46	
For Elevated Installation >15' To 20', Add	8.91	
For Elevated Installation >20' To 25', Add	11.14	
For Elevated Installation >25' To 30', Add	15.60	
For Elevated Installation >30' To 35', Add	17.82	
For Elevated Installation >35' To 40', Add	22.28	
For Elevated Installation >40', Add	24.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.37	
26 05 33 13-0639 Electrical Metallic Tubing (EMT) Insulated Bushing (26 05 33 13-0593)		
26 05 33 13-0640 EA 1/2" Electrical Metallic Tubing (EMT) Insulated Bushing.....	6.71	2.68
For Work In Restricted Working Space, Add	1.99	
For Elevated Installation >10' To 15', Add	0.66	
For Elevated Installation >15' To 20', Add	1.33	
For Elevated Installation >20' To 25', Add	1.66	
For Elevated Installation >25' To 30', Add	2.32	
For Elevated Installation >30' To 35', Add	2.65	
For Elevated Installation >35' To 40', Add	3.32	
For Elevated Installation >40', Add	3.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.99	
26 05 33 13-0641 EA 3/4" Electrical Metallic Tubing (EMT) Insulated Bushing.....	7.36	2.87
For Work In Restricted Working Space, Add	2.17	
For Elevated Installation >10' To 15', Add	0.72	
For Elevated Installation >15' To 20', Add	1.45	
For Elevated Installation >20' To 25', Add	1.81	
For Elevated Installation >25' To 30', Add	2.53	
For Elevated Installation >30' To 35', Add	2.89	
For Elevated Installation >35' To 40', Add	3.62	
For Elevated Installation >40', Add	3.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.17	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0642	EA	1"	Electrical Metallic Tubing (EMT) Insulated Bushing.....	9.22	3.56
			<i>For Work In Restricted Working Space, Add</i>	2.64	
			<i>For Elevated Installation >10' To 15', Add</i>	0.88	
			<i>For Elevated Installation >15' To 20', Add</i>	1.76	
			<i>For Elevated Installation >20' To 25', Add</i>	2.20	
			<i>For Elevated Installation >25' To 30', Add</i>	3.08	
			<i>For Elevated Installation >30' To 35', Add</i>	3.52	
			<i>For Elevated Installation >35' To 40', Add</i>	4.41	
			<i>For Elevated Installation >40', Add</i>	4.85	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.64	
26 05 33 13-0643	EA	1-1/4"	Electrical Metallic Tubing (EMT) Insulated Bushing.....	11.78	4.55
			<i>For Work In Restricted Working Space, Add</i>	3.38	
			<i>For Elevated Installation >10' To 15', Add</i>	1.13	
			<i>For Elevated Installation >15' To 20', Add</i>	2.26	
			<i>For Elevated Installation >20' To 25', Add</i>	2.82	
			<i>For Elevated Installation >25' To 30', Add</i>	3.95	
			<i>For Elevated Installation >30' To 35', Add</i>	4.51	
			<i>For Elevated Installation >35' To 40', Add</i>	5.64	
			<i>For Elevated Installation >40', Add</i>	6.20	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.38	
26 05 33 13-0644	EA	1-1/2"	Electrical Metallic Tubing (EMT) Insulated Bushing.....	13.97	5.24
			<i>For Work In Restricted Working Space, Add</i>	3.95	
			<i>For Elevated Installation >10' To 15', Add</i>	1.32	
			<i>For Elevated Installation >15' To 20', Add</i>	2.63	
			<i>For Elevated Installation >20' To 25', Add</i>	3.29	
			<i>For Elevated Installation >25' To 30', Add</i>	4.61	
			<i>For Elevated Installation >30' To 35', Add</i>	5.27	
			<i>For Elevated Installation >35' To 40', Add</i>	6.59	
			<i>For Elevated Installation >40', Add</i>	7.24	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.95	
26 05 33 13-0645	EA	2"	Electrical Metallic Tubing (EMT) Insulated Bushing.....	17.17	6.34
			<i>For Work In Restricted Working Space, Add</i>	4.75	
			<i>For Elevated Installation >10' To 15', Add</i>	1.58	
			<i>For Elevated Installation >15' To 20', Add</i>	3.17	
			<i>For Elevated Installation >20' To 25', Add</i>	3.96	
			<i>For Elevated Installation >25' To 30', Add</i>	5.54	
			<i>For Elevated Installation >30' To 35', Add</i>	6.34	
			<i>For Elevated Installation >35' To 40', Add</i>	7.92	
			<i>For Elevated Installation >40', Add</i>	8.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.75	
26 05 33 13-0646	EA	2-1/2"	Electrical Metallic Tubing (EMT) Insulated Bushing.....	24.86	8.81
			<i>For Work In Restricted Working Space, Add</i>	6.59	
			<i>For Elevated Installation >10' To 15', Add</i>	2.20	
			<i>For Elevated Installation >15' To 20', Add</i>	4.40	
			<i>For Elevated Installation >20' To 25', Add</i>	5.50	
			<i>For Elevated Installation >25' To 30', Add</i>	7.69	
			<i>For Elevated Installation >30' To 35', Add</i>	8.79	
			<i>For Elevated Installation >35' To 40', Add</i>	10.99	
			<i>For Elevated Installation >40', Add</i>	12.09	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.59	
26 05 33 13-0647	EA	3"	Electrical Metallic Tubing (EMT) Insulated Bushing.....	32.96	11.68
			<i>For Work In Restricted Working Space, Add</i>	8.79	
			<i>For Elevated Installation >10' To 15', Add</i>	2.93	
			<i>For Elevated Installation >15' To 20', Add</i>	5.86	
			<i>For Elevated Installation >20' To 25', Add</i>	7.33	
			<i>For Elevated Installation >25' To 30', Add</i>	10.26	
			<i>For Elevated Installation >30' To 35', Add</i>	11.72	
			<i>For Elevated Installation >35' To 40', Add</i>	14.65	
			<i>For Elevated Installation >40', Add</i>	16.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.79	
26 05 33 13-0648	EA	3-1/2"	Electrical Metallic Tubing (EMT) Insulated Bushing.....	42.23	15.05
			<i>For Work In Restricted Working Space, Add</i>	11.32	
			<i>For Elevated Installation >10' To 15', Add</i>	3.77	
			<i>For Elevated Installation >15' To 20', Add</i>	7.54	
			<i>For Elevated Installation >20' To 25', Add</i>	9.43	
			<i>For Elevated Installation >25' To 30', Add</i>	13.20	
			<i>For Elevated Installation >30' To 35', Add</i>	15.09	
			<i>For Elevated Installation >35' To 40', Add</i>	18.86	
			<i>For Elevated Installation >40', Add</i>	20.75	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.32	
26 05 33 13-0649	EA	4"	Electrical Metallic Tubing (EMT) Insulated Bushing.....	54.53	19.80
			<i>For Work In Restricted Working Space, Add</i>	14.85	
			<i>For Elevated Installation >10' To 15', Add</i>	4.95	
			<i>For Elevated Installation >15' To 20', Add</i>	9.90	
			<i>For Elevated Installation >20' To 25', Add</i>	12.38	
			<i>For Elevated Installation >25' To 30', Add</i>	17.33	
			<i>For Elevated Installation >30' To 35', Add</i>	19.80	
			<i>For Elevated Installation >35' To 40', Add</i>	24.75	
			<i>For Elevated Installation >40', Add</i>	27.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.85	

26 05 33 13-0650 Electrical Metallic Tubing (EMT) Straight Box Connectors With Set Screw ⁽²⁶⁾

05 33 13-0583)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0651 EA 1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	5.15	1.98
For Work In Restricted Working Space, Add	1.49	
For Elevated Installation >10' To 15', Add	0.50	
For Elevated Installation >15' To 20', Add	0.99	
For Elevated Installation >20' To 25', Add	1.24	
For Elevated Installation >25' To 30', Add	1.73	
For Elevated Installation >30' To 35', Add	1.98	
For Elevated Installation >35' To 40', Add	2.48	
For Elevated Installation >40', Add	2.72	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.49	
26 05 33 13-0652 EA 3/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	6.25	2.38
For Work In Restricted Working Space, Add	1.78	
For Elevated Installation >10' To 15', Add	0.59	
For Elevated Installation >15' To 20', Add	1.19	
For Elevated Installation >20' To 25', Add	1.49	
For Elevated Installation >25' To 30', Add	2.08	
For Elevated Installation >30' To 35', Add	2.38	
For Elevated Installation >35' To 40', Add	2.97	
For Elevated Installation >40', Add	3.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.78	
26 05 33 13-0653 EA 1" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	7.48	2.77
For Work In Restricted Working Space, Add	2.08	
For Elevated Installation >10' To 15', Add	0.69	
For Elevated Installation >15' To 20', Add	1.39	
For Elevated Installation >20' To 25', Add	1.73	
For Elevated Installation >25' To 30', Add	2.43	
For Elevated Installation >30' To 35', Add	2.77	
For Elevated Installation >35' To 40', Add	3.47	
For Elevated Installation >40', Add	3.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.08	
26 05 33 13-0654 EA 1-1/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw	10.91	3.96
For Work In Restricted Working Space, Add	2.97	
For Elevated Installation >10' To 15', Add	0.99	
For Elevated Installation >15' To 20', Add	1.98	
For Elevated Installation >20' To 25', Add	2.48	
For Elevated Installation >25' To 30', Add	3.47	
For Elevated Installation >30' To 35', Add	3.96	
For Elevated Installation >35' To 40', Add	4.95	
For Elevated Installation >40', Add	5.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.97	
26 05 33 13-0655 EA 1-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw	13.35	4.75
For Work In Restricted Working Space, Add	3.56	
For Elevated Installation >10' To 15', Add	1.19	
For Elevated Installation >15' To 20', Add	2.38	
For Elevated Installation >20' To 25', Add	2.97	
For Elevated Installation >25' To 30', Add	4.16	
For Elevated Installation >30' To 35', Add	4.75	
For Elevated Installation >35' To 40', Add	5.94	
For Elevated Installation >40', Add	6.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.56	
26 05 33 13-0656 EA 2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	17.02	5.94
For Work In Restricted Working Space, Add	4.46	
For Elevated Installation >10' To 15', Add	1.49	
For Elevated Installation >15' To 20', Add	2.97	
For Elevated Installation >20' To 25', Add	3.71	
For Elevated Installation >25' To 30', Add	5.20	
For Elevated Installation >30' To 35', Add	5.94	
For Elevated Installation >35' To 40', Add	7.43	
For Elevated Installation >40', Add	8.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 05 33 13-0657 EA 2-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw	25.85	7.92
For Work In Restricted Working Space, Add	5.94	
For Elevated Installation >10' To 15', Add	1.98	
For Elevated Installation >15' To 20', Add	3.96	
For Elevated Installation >20' To 25', Add	4.95	
For Elevated Installation >25' To 30', Add	6.93	
For Elevated Installation >30' To 35', Add	7.92	
For Elevated Installation >35' To 40', Add	9.90	
For Elevated Installation >40', Add	10.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.94	
26 05 33 13-0658 EA 3" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	32.15	9.90
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15', Add	2.48	
For Elevated Installation >15' To 20', Add	4.95	
For Elevated Installation >20' To 25', Add	6.19	
For Elevated Installation >25' To 30', Add	8.66	
For Elevated Installation >30' To 35', Add	9.90	
For Elevated Installation >35' To 40', Add	12.38	
For Elevated Installation >40', Add	13.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0659	EA		3-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	38.02	11.88
			<i>For Work In Restricted Working Space, Add</i>	8.91	
			<i>For Elevated Installation >10' To 15', Add</i>	2.97	
			<i>For Elevated Installation >15' To 20', Add</i>	5.94	
			<i>For Elevated Installation >20' To 25', Add</i>	7.43	
			<i>For Elevated Installation >25' To 30', Add</i>	10.40	
			<i>For Elevated Installation >30' To 35', Add</i>	11.88	
			<i>For Elevated Installation >35' To 40', Add</i>	14.85	
			<i>For Elevated Installation >40', Add</i>	16.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.91	
26 05 33 13-0660	EA		4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	44.28	13.86
			<i>For Work In Restricted Working Space, Add</i>	10.40	
			<i>For Elevated Installation >10' To 15', Add</i>	3.47	
			<i>For Elevated Installation >15' To 20', Add</i>	6.93	
			<i>For Elevated Installation >20' To 25', Add</i>	8.66	
			<i>For Elevated Installation >25' To 30', Add</i>	12.13	
			<i>For Elevated Installation >30' To 35', Add</i>	13.86	
			<i>For Elevated Installation >35' To 40', Add</i>	17.33	
			<i>For Elevated Installation >40', Add</i>	19.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.40	
26 05 33 13-0661 Electrical Metallic Tubing (EMT) Insulated Straight Box Connectors With Set Screw					
<small>(26 05 33 13-0593)</small>					
26 05 33 13-0662	EA		1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	6.95	2.68
			<i>For Work In Restricted Working Space, Add</i>	1.99	
			<i>For Elevated Installation >10' To 15', Add</i>	0.66	
			<i>For Elevated Installation >15' To 20', Add</i>	1.33	
			<i>For Elevated Installation >20' To 25', Add</i>	1.66	
			<i>For Elevated Installation >25' To 30', Add</i>	2.32	
			<i>For Elevated Installation >30' To 35', Add</i>	2.65	
			<i>For Elevated Installation >35' To 40', Add</i>	3.32	
			<i>For Elevated Installation >40', Add</i>	3.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.99	
26 05 33 13-0663	EA		3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	7.75	2.87
			<i>For Work In Restricted Working Space, Add</i>	2.17	
			<i>For Elevated Installation >10' To 15', Add</i>	0.72	
			<i>For Elevated Installation >15' To 20', Add</i>	1.45	
			<i>For Elevated Installation >20' To 25', Add</i>	1.81	
			<i>For Elevated Installation >25' To 30', Add</i>	2.53	
			<i>For Elevated Installation >30' To 35', Add</i>	2.89	
			<i>For Elevated Installation >35' To 40', Add</i>	3.62	
			<i>For Elevated Installation >40', Add</i>	3.98	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.17	
26 05 33 13-0664	EA		1" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	9.73	3.56
			<i>For Work In Restricted Working Space, Add</i>	2.64	
			<i>For Elevated Installation >10' To 15', Add</i>	0.88	
			<i>For Elevated Installation >15' To 20', Add</i>	1.76	
			<i>For Elevated Installation >20' To 25', Add</i>	2.20	
			<i>For Elevated Installation >25' To 30', Add</i>	3.08	
			<i>For Elevated Installation >30' To 35', Add</i>	3.52	
			<i>For Elevated Installation >35' To 40', Add</i>	4.41	
			<i>For Elevated Installation >40', Add</i>	4.85	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.64	
26 05 33 13-0665	EA		1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	12.81	4.55
			<i>For Work In Restricted Working Space, Add</i>	3.38	
			<i>For Elevated Installation >10' To 15', Add</i>	1.13	
			<i>For Elevated Installation >15' To 20', Add</i>	2.26	
			<i>For Elevated Installation >20' To 25', Add</i>	2.82	
			<i>For Elevated Installation >25' To 30', Add</i>	3.95	
			<i>For Elevated Installation >30' To 35', Add</i>	4.51	
			<i>For Elevated Installation >35' To 40', Add</i>	5.64	
			<i>For Elevated Installation >40', Add</i>	6.20	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.38	
26 05 33 13-0666	EA		1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	15.21	5.24
			<i>For Work In Restricted Working Space, Add</i>	3.95	
			<i>For Elevated Installation >10' To 15', Add</i>	1.32	
			<i>For Elevated Installation >15' To 20', Add</i>	2.63	
			<i>For Elevated Installation >20' To 25', Add</i>	3.29	
			<i>For Elevated Installation >25' To 30', Add</i>	4.61	
			<i>For Elevated Installation >30' To 35', Add</i>	5.27	
			<i>For Elevated Installation >35' To 40', Add</i>	6.59	
			<i>For Elevated Installation >40', Add</i>	7.24	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.95	
26 05 33 13-0667	EA		2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	18.64	6.34
			<i>For Work In Restricted Working Space, Add</i>	4.75	
			<i>For Elevated Installation >10' To 15', Add</i>	1.58	
			<i>For Elevated Installation >15' To 20', Add</i>	3.17	
			<i>For Elevated Installation >20' To 25', Add</i>	3.96	
			<i>For Elevated Installation >25' To 30', Add</i>	5.54	
			<i>For Elevated Installation >30' To 35', Add</i>	6.34	
			<i>For Elevated Installation >35' To 40', Add</i>	7.92	
			<i>For Elevated Installation >40', Add</i>	8.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0668 EA 2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	31.15	8.81
<i>For Work In Restricted Working Space, Add</i>	6.59	
<i>For Elevated Installation >10' To 15', Add</i>	2.20	
<i>For Elevated Installation >15' To 20', Add</i>	4.40	
<i>For Elevated Installation >20' To 25', Add</i>	5.50	
<i>For Elevated Installation >25' To 30', Add</i>	7.69	
<i>For Elevated Installation >30' To 35', Add</i>	8.79	
<i>For Elevated Installation >35' To 40', Add</i>	10.99	
<i>For Elevated Installation >40', Add</i>	12.09	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.59	
26 05 33 13-0669 EA 3" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	40.26	11.68
<i>For Work In Restricted Working Space, Add</i>	8.79	
<i>For Elevated Installation >10' To 15', Add</i>	2.93	
<i>For Elevated Installation >15' To 20', Add</i>	5.86	
<i>For Elevated Installation >20' To 25', Add</i>	7.33	
<i>For Elevated Installation >25' To 30', Add</i>	10.26	
<i>For Elevated Installation >30' To 35', Add</i>	11.72	
<i>For Elevated Installation >35' To 40', Add</i>	14.65	
<i>For Elevated Installation >40', Add</i>	16.12	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.79	
26 05 33 13-0670 EA 3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	51.43	15.05
<i>For Work In Restricted Working Space, Add</i>	11.32	
<i>For Elevated Installation >10' To 15', Add</i>	3.77	
<i>For Elevated Installation >15' To 20', Add</i>	7.54	
<i>For Elevated Installation >20' To 25', Add</i>	9.43	
<i>For Elevated Installation >25' To 30', Add</i>	13.20	
<i>For Elevated Installation >30' To 35', Add</i>	15.09	
<i>For Elevated Installation >35' To 40', Add</i>	18.86	
<i>For Elevated Installation >40', Add</i>	20.75	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.32	
26 05 33 13-0671 EA 4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	64.58	19.80
<i>For Work In Restricted Working Space, Add</i>	14.85	
<i>For Elevated Installation >10' To 15', Add</i>	4.95	
<i>For Elevated Installation >15' To 20', Add</i>	9.90	
<i>For Elevated Installation >20' To 25', Add</i>	12.38	
<i>For Elevated Installation >25' To 30', Add</i>	17.33	
<i>For Elevated Installation >30' To 35', Add</i>	19.80	
<i>For Elevated Installation >35' To 40', Add</i>	24.75	
<i>For Elevated Installation >40', Add</i>	27.23	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.85	
26 05 33 13-0672 Electrical Metallic Tubing (EMT) Straight Box Compression Connectors <small>(26 05 33 13-0593)</small>		
26 05 33 13-0673 EA 1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	6.26	2.38
<i>For Work In Restricted Working Space, Add</i>	1.78	
<i>For Elevated Installation >10' To 15', Add</i>	0.59	
<i>For Elevated Installation >15' To 20', Add</i>	1.19	
<i>For Elevated Installation >20' To 25', Add</i>	1.49	
<i>For Elevated Installation >25' To 30', Add</i>	2.08	
<i>For Elevated Installation >30' To 35', Add</i>	2.38	
<i>For Elevated Installation >35' To 40', Add</i>	2.97	
<i>For Elevated Installation >40', Add</i>	3.27	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.78	
26 05 33 13-0674 EA 3/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	7.41	2.77
<i>For Work In Restricted Working Space, Add</i>	2.08	
<i>For Elevated Installation >10' To 15', Add</i>	0.69	
<i>For Elevated Installation >15' To 20', Add</i>	1.39	
<i>For Elevated Installation >20' To 25', Add</i>	1.73	
<i>For Elevated Installation >25' To 30', Add</i>	2.43	
<i>For Elevated Installation >30' To 35', Add</i>	2.77	
<i>For Elevated Installation >35' To 40', Add</i>	3.47	
<i>For Elevated Installation >40', Add</i>	3.81	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.08	
26 05 33 13-0675 EA 1" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	10.58	3.96
<i>For Work In Restricted Working Space, Add</i>	2.97	
<i>For Elevated Installation >10' To 15', Add</i>	0.99	
<i>For Elevated Installation >15' To 20', Add</i>	1.98	
<i>For Elevated Installation >20' To 25', Add</i>	2.48	
<i>For Elevated Installation >25' To 30', Add</i>	3.47	
<i>For Elevated Installation >30' To 35', Add</i>	3.96	
<i>For Elevated Installation >35' To 40', Add</i>	4.95	
<i>For Elevated Installation >40', Add</i>	5.45	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.97	
26 05 33 13-0676 EA 1-1/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	13.16	4.75
<i>For Work In Restricted Working Space, Add</i>	3.56	
<i>For Elevated Installation >10' To 15', Add</i>	1.19	
<i>For Elevated Installation >15' To 20', Add</i>	2.38	
<i>For Elevated Installation >20' To 25', Add</i>	2.97	
<i>For Elevated Installation >25' To 30', Add</i>	4.16	
<i>For Elevated Installation >30' To 35', Add</i>	4.75	
<i>For Elevated Installation >35' To 40', Add</i>	5.94	
<i>For Elevated Installation >40', Add</i>	6.53	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.56	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0677 EA 1-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	15.66	5.55
For Work In Restricted Working Space, Add	4.16	
For Elevated Installation >10' To 15', Add	1.39	
For Elevated Installation >15' To 20', Add	2.77	
For Elevated Installation >20' To 25', Add	3.47	
For Elevated Installation >25' To 30', Add	4.85	
For Elevated Installation >30' To 35', Add	5.54	
For Elevated Installation >35' To 40', Add	6.93	
For Elevated Installation >40', Add	7.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.16	
26 05 33 13-0678 EA 2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	20.42	7.13
For Work In Restricted Working Space, Add	5.35	
For Elevated Installation >10' To 15', Add	1.78	
For Elevated Installation >15' To 20', Add	3.56	
For Elevated Installation >20' To 25', Add	4.46	
For Elevated Installation >25' To 30', Add	6.24	
For Elevated Installation >30' To 35', Add	7.13	
For Elevated Installation >35' To 40', Add	8.91	
For Elevated Installation >40', Add	9.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.35	
26 05 33 13-0679 EA 2-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	31.60	9.51
For Work In Restricted Working Space, Add	7.13	
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.32	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	
26 05 33 13-0680 EA 3" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	39.95	11.88
For Work In Restricted Working Space, Add	8.91	
For Elevated Installation >10' To 15', Add	2.97	
For Elevated Installation >15' To 20', Add	5.94	
For Elevated Installation >20' To 25', Add	7.43	
For Elevated Installation >25' To 30', Add	10.40	
For Elevated Installation >30' To 35', Add	11.88	
For Elevated Installation >35' To 40', Add	14.85	
For Elevated Installation >40', Add	16.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.91	
26 05 33 13-0681 EA 3-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	50.45	13.86
For Work In Restricted Working Space, Add	10.40	
For Elevated Installation >10' To 15', Add	3.47	
For Elevated Installation >15' To 20', Add	6.93	
For Elevated Installation >20' To 25', Add	8.66	
For Elevated Installation >25' To 30', Add	12.13	
For Elevated Installation >30' To 35', Add	13.86	
For Elevated Installation >35' To 40', Add	17.33	
For Elevated Installation >40', Add	19.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.40	
26 05 33 13-0682 EA 4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	56.73	15.84
For Work In Restricted Working Space, Add	11.88	
For Elevated Installation >10' To 15', Add	3.96	
For Elevated Installation >15' To 20', Add	7.92	
For Elevated Installation >20' To 25', Add	9.90	
For Elevated Installation >25' To 30', Add	13.86	
For Elevated Installation >30' To 35', Add	15.84	
For Elevated Installation >35' To 40', Add	19.80	
For Elevated Installation >40', Add	21.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.88	
26 05 33 13-0683 Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connectors		
(26 05 33 13-0593)		
26 05 33 13-0684 EA 1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	7.17	2.68
For Work In Restricted Working Space, Add	1.99	
For Elevated Installation >10' To 15', Add	0.66	
For Elevated Installation >15' To 20', Add	1.33	
For Elevated Installation >20' To 25', Add	1.66	
For Elevated Installation >25' To 30', Add	2.32	
For Elevated Installation >30' To 35', Add	2.65	
For Elevated Installation >35' To 40', Add	3.32	
For Elevated Installation >40', Add	3.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.99	
26 05 33 13-0685 EA 3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	7.97	2.87
For Work In Restricted Working Space, Add	2.17	
For Elevated Installation >10' To 15', Add	0.72	
For Elevated Installation >15' To 20', Add	1.45	
For Elevated Installation >20' To 25', Add	1.81	
For Elevated Installation >25' To 30', Add	2.53	
For Elevated Installation >30' To 35', Add	2.89	
For Elevated Installation >35' To 40', Add	3.62	
For Elevated Installation >40', Add	3.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0686 EA 1" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	9.92	3.56
For Work In Restricted Working Space, Add	2.64	
For Elevated Installation >10' To 15', Add	0.88	
For Elevated Installation >15' To 20', Add	1.76	
For Elevated Installation >20' To 25', Add	2.20	
For Elevated Installation >25' To 30', Add	3.08	
For Elevated Installation >30' To 35', Add	3.52	
For Elevated Installation >35' To 40', Add	4.41	
For Elevated Installation >40', Add	4.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.64	
26 05 33 13-0687 EA 1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	13.35	4.55
For Work In Restricted Working Space, Add	3.38	
For Elevated Installation >10' To 15', Add	1.13	
For Elevated Installation >15' To 20', Add	2.26	
For Elevated Installation >20' To 25', Add	2.82	
For Elevated Installation >25' To 30', Add	3.95	
For Elevated Installation >30' To 35', Add	4.51	
For Elevated Installation >35' To 40', Add	5.64	
For Elevated Installation >40', Add	6.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.38	
26 05 33 13-0688 EA 1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	16.10	5.24
For Work In Restricted Working Space, Add	3.95	
For Elevated Installation >10' To 15', Add	1.32	
For Elevated Installation >15' To 20', Add	2.63	
For Elevated Installation >20' To 25', Add	3.29	
For Elevated Installation >25' To 30', Add	4.61	
For Elevated Installation >30' To 35', Add	5.27	
For Elevated Installation >35' To 40', Add	6.59	
For Elevated Installation >40', Add	7.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.95	
26 05 33 13-0689 EA 2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	19.94	6.34
For Work In Restricted Working Space, Add	4.75	
For Elevated Installation >10' To 15', Add	1.58	
For Elevated Installation >15' To 20', Add	3.17	
For Elevated Installation >20' To 25', Add	3.96	
For Elevated Installation >25' To 30', Add	5.54	
For Elevated Installation >30' To 35', Add	6.34	
For Elevated Installation >35' To 40', Add	7.92	
For Elevated Installation >40', Add	8.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.75	
26 05 33 13-0690 EA 2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	35.87	8.81
For Work In Restricted Working Space, Add	6.59	
For Elevated Installation >10' To 15', Add	2.20	
For Elevated Installation >15' To 20', Add	4.40	
For Elevated Installation >20' To 25', Add	5.50	
For Elevated Installation >25' To 30', Add	7.69	
For Elevated Installation >30' To 35', Add	8.79	
For Elevated Installation >35' To 40', Add	10.99	
For Elevated Installation >40', Add	12.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.59	
26 05 33 13-0691 EA 3" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	48.20	11.68
For Work In Restricted Working Space, Add	8.79	
For Elevated Installation >10' To 15', Add	2.93	
For Elevated Installation >15' To 20', Add	5.86	
For Elevated Installation >20' To 25', Add	7.33	
For Elevated Installation >25' To 30', Add	10.26	
For Elevated Installation >30' To 35', Add	11.72	
For Elevated Installation >35' To 40', Add	14.65	
For Elevated Installation >40', Add	16.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.79	
26 05 33 13-0692 EA 3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	65.35	15.05
For Work In Restricted Working Space, Add	11.32	
For Elevated Installation >10' To 15', Add	3.77	
For Elevated Installation >15' To 20', Add	7.54	
For Elevated Installation >20' To 25', Add	9.43	
For Elevated Installation >25' To 30', Add	13.20	
For Elevated Installation >30' To 35', Add	15.09	
For Elevated Installation >35' To 40', Add	18.86	
For Elevated Installation >40', Add	20.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.32	
26 05 33 13-0693 EA 4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	81.81	19.80
For Work In Restricted Working Space, Add	14.85	
For Elevated Installation >10' To 15', Add	4.95	
For Elevated Installation >15' To 20', Add	9.90	
For Elevated Installation >20' To 25', Add	12.38	
For Elevated Installation >25' To 30', Add	17.33	
For Elevated Installation >30' To 35', Add	19.80	
For Elevated Installation >35' To 40', Add	24.75	
For Elevated Installation >40', Add	27.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.85	

26 05 33 13-0694 Electrical Metallic Tubing (EMT) Expansion Coupling (26 05 33 13-0593)

Note: Excludes jumper.

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0695	EA	1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	54.87	13.17
			<i>For Work In Restricted Working Space, Add</i>	9.89	
			<i>For Elevated Installation >10' To 15', Add</i>	3.30	
			<i>For Elevated Installation >15' To 20', Add</i>	6.59	
			<i>For Elevated Installation >20' To 25', Add</i>	8.24	
			<i>For Elevated Installation >25' To 30', Add</i>	11.53	
			<i>For Elevated Installation >30' To 35', Add</i>	13.18	
			<i>For Elevated Installation >35' To 40', Add</i>	16.48	
			<i>For Elevated Installation >40', Add</i>	18.12	
26 05 33	13-0696	EA	3/4" Electrical Metallic Tubing (EMT) Expansion Coupling	66.08	15.94
			<i>For Work In Restricted Working Space, Add</i>	11.98	
			<i>For Elevated Installation >10' To 15', Add</i>	3.99	
			<i>For Elevated Installation >15' To 20', Add</i>	7.99	
			<i>For Elevated Installation >20' To 25', Add</i>	9.99	
			<i>For Elevated Installation >25' To 30', Add</i>	13.98	
			<i>For Elevated Installation >30' To 35', Add</i>	15.98	
			<i>For Elevated Installation >35' To 40', Add</i>	19.97	
			<i>For Elevated Installation >40', Add</i>	21.97	
26 05 33	13-0697	EA	1" Electrical Metallic Tubing (EMT) Expansion Coupling	81.13	20.00
			<i>For Work In Restricted Working Space, Add</i>	14.98	
			<i>For Elevated Installation >10' To 15', Add</i>	4.99	
			<i>For Elevated Installation >15' To 20', Add</i>	9.98	
			<i>For Elevated Installation >20' To 25', Add</i>	12.48	
			<i>For Elevated Installation >25' To 30', Add</i>	17.47	
			<i>For Elevated Installation >30' To 35', Add</i>	19.97	
			<i>For Elevated Installation >35' To 40', Add</i>	24.96	
			<i>For Elevated Installation >40', Add</i>	27.46	
26 05 33	13-0698	EA	1-1/4" Electrical Metallic Tubing (EMT) Expansion Coupling	105.13	24.55
			<i>For Work In Restricted Working Space, Add</i>	18.42	
			<i>For Elevated Installation >10' To 15', Add</i>	6.14	
			<i>For Elevated Installation >15' To 20', Add</i>	12.28	
			<i>For Elevated Installation >20' To 25', Add</i>	15.35	
			<i>For Elevated Installation >25' To 30', Add</i>	21.49	
			<i>For Elevated Installation >30' To 35', Add</i>	24.56	
			<i>For Elevated Installation >35' To 40', Add</i>	30.71	
			<i>For Elevated Installation >40', Add</i>	33.78	
26 05 33	13-0699	EA	1-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	130.94	28.81
			<i>For Work In Restricted Working Space, Add</i>	21.61	
			<i>For Elevated Installation >10' To 15', Add</i>	7.20	
			<i>For Elevated Installation >15' To 20', Add</i>	14.40	
			<i>For Elevated Installation >20' To 25', Add</i>	18.01	
			<i>For Elevated Installation >25' To 30', Add</i>	25.21	
			<i>For Elevated Installation >30' To 35', Add</i>	28.81	
			<i>For Elevated Installation >35' To 40', Add</i>	36.01	
			<i>For Elevated Installation >40', Add</i>	39.61	
26 05 33	13-0700	EA	2" Electrical Metallic Tubing (EMT) Expansion Coupling	164.34	35.05
			<i>For Work In Restricted Working Space, Add</i>	26.31	
			<i>For Elevated Installation >10' To 15', Add</i>	8.77	
			<i>For Elevated Installation >15' To 20', Add</i>	17.54	
			<i>For Elevated Installation >20' To 25', Add</i>	21.93	
			<i>For Elevated Installation >25' To 30', Add</i>	30.70	
			<i>For Elevated Installation >30' To 35', Add</i>	35.08	
			<i>For Elevated Installation >35' To 40', Add</i>	43.86	
			<i>For Elevated Installation >40', Add</i>	48.24	
26 05 33	13-0701	EA	2-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	317.75	45.05
			<i>For Work In Restricted Working Space, Add</i>	33.80	
			<i>For Elevated Installation >10' To 15', Add</i>	11.27	
			<i>For Elevated Installation >15' To 20', Add</i>	22.53	
			<i>For Elevated Installation >20' To 25', Add</i>	28.16	
			<i>For Elevated Installation >25' To 30', Add</i>	39.43	
			<i>For Elevated Installation >30' To 35', Add</i>	45.06	
			<i>For Elevated Installation >35' To 40', Add</i>	56.33	
			<i>For Elevated Installation >40', Add</i>	61.96	
26 05 33	13-0702	EA	3" Electrical Metallic Tubing (EMT) Expansion Coupling	389.08	52.67
			<i>For Work In Restricted Working Space, Add</i>	39.51	
			<i>For Elevated Installation >10' To 15', Add</i>	13.17	
			<i>For Elevated Installation >15' To 20', Add</i>	26.34	
			<i>For Elevated Installation >20' To 25', Add</i>	32.93	
			<i>For Elevated Installation >25' To 30', Add</i>	46.10	
			<i>For Elevated Installation >30' To 35', Add</i>	52.68	
			<i>For Elevated Installation >35' To 40', Add</i>	65.86	
			<i>For Elevated Installation >40', Add</i>	72.44	
26 05 33	13-0703	EA	3-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	479.20	57.42
			<i>For Work In Restricted Working Space, Add</i>	43.08	
			<i>For Elevated Installation >10' To 15', Add</i>	14.36	
			<i>For Elevated Installation >15' To 20', Add</i>	28.72	
			<i>For Elevated Installation >20' To 25', Add</i>	35.90	
			<i>For Elevated Installation >25' To 30', Add</i>	50.26	
			<i>For Elevated Installation >30' To 35', Add</i>	57.44	
			<i>For Elevated Installation >35' To 40', Add</i>	71.80	
			<i>For Elevated Installation >40', Add</i>	78.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0704 EA 4" Electrical Metallic Tubing (EMT) Expansion Coupling <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	518.44 47.54 15.85 31.69 39.62 55.46 63.38 79.23 87.15	63.36
26 05 33 13-0705 Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapters <small>(26 05 33 13-0593)</small>		
26 05 33 13-0706 EA 1/2" To 3/8" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.11 2.64 0.88 1.76 2.20 3.08 3.52 4.40 4.83 2.64	3.56
26 05 33 13-0707 EA 1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.83 2.64 0.88 1.76 2.20 3.08 3.52 4.40 4.83 2.64	3.56
26 05 33 13-0708 EA 3/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.11 2.93 0.98 1.95 2.44 3.42 3.91 4.89 5.37 2.93	3.86
26 05 33 13-0709 EA 1" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.12 3.34 1.11 2.22 2.78 3.89 4.45 5.56 6.12 3.34	4.45
26 05 33 13-0710 EA 1-1/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.25 4.04 1.35 2.69 3.36 4.71 5.38 6.73 7.40 4.04	5.35
26 05 33 13-0711 EA 1-1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.83 4.61 1.54 3.07 3.84 5.38 6.14 7.68 8.45 4.61	6.14
26 05 33 13-0712 EA 2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.40 5.76 1.92 3.84 4.80 6.72 7.68 9.60 10.56 5.76	7.72
26 05 33 13-0713 Electrical Metallic Tubing (EMT) Pulling Elbows <small>(26 05 33 13-0593)</small>		

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0714	EA	1/2" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.25 5.35 3.56 5.35	8.92
26 05 33	13-0715	EA	3/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.78 6.24 4.16 6.24	10.40
26 05 33	13-0716	EA	1" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.88 7.13 4.75 7.13	11.88
26 05 33	13-0717	EA	1-1/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.49 8.91 5.94 8.91	14.85
26 05 33	13-0718		Intermediate Metal Conduit (IMC) <small>(26 05 33 13-0058)</small> Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33	13-0719		Intermediate Metal Conduit (IMC) Conduit <small>(26 05 33 13-0718)</small> Note: Includes field bending conduit up to 1".		
26 05 33	13-0720	LF	1/2" Intermediate Metal Conduit (IMC) Conduit <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	7.43 -0.11 -0.17 -0.23 0.51 1.29 0.77 1.54 0.51 1.03 1.29 1.80 2.06 2.57 2.83	1.98
26 05 33	13-0721	LF	3/4" Intermediate Metal Conduit (IMC) Conduit <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	8.87 -0.14 -0.20 -0.27 0.61 1.54 0.92 1.84 0.61 1.23 1.54 2.15 2.46 3.07 3.38	2.18
26 05 33	13-0722	LF	1" Intermediate Metal Conduit (IMC) Conduit <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	11.93 -0.21 -0.32 -0.42 0.77 1.93 1.16 2.32 0.77 1.54 1.93 2.70 3.09 3.86 4.25	2.38
26 05 33	13-0723	LF	1-1/4" Intermediate Metal Conduit (IMC) Conduit <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	13.85 -0.27 -0.40 -0.53 0.85 2.13 1.28 2.55 0.85 1.70 2.13 2.98 3.40 4.26 4.68	4.75



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0724 LF 1-1/2" Intermediate Metal Conduit (IMC) Conduit	15.61	3.17
For >250 To 500, Deduct	-0.32	
For >500 To 1,000, Deduct	-0.47	
For >1,000, Deduct	-0.63	
For Installation In Metal Stud Wall, Add	0.93	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.33	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.40	
For Work In Restricted Working Space, Add	2.79	
For Elevated Installation >10' To 15', Add	0.93	
For Elevated Installation >15' To 20', Add	1.86	
For Elevated Installation >20' To 25', Add	2.33	
For Elevated Installation >25' To 30', Add	3.26	
For Elevated Installation >30' To 35', Add	3.72	
For Elevated Installation >35' To 40', Add	4.66	
For Elevated Installation >40', Add	5.12	
26 05 33 13-0725 LF 2" Intermediate Metal Conduit (IMC) Conduit	19.83	3.56
For >250 To 500, Deduct	-0.43	
For >500 To 1,000, Deduct	-0.64	
For >1,000, Deduct	-0.86	
For Installation In Metal Stud Wall, Add	1.13	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.82	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.69	
For Work In Restricted Working Space, Add	3.38	
For Elevated Installation >10' To 15', Add	1.13	
For Elevated Installation >15' To 20', Add	2.26	
For Elevated Installation >20' To 25', Add	2.82	
For Elevated Installation >25' To 30', Add	3.95	
For Elevated Installation >30' To 35', Add	4.51	
For Elevated Installation >35' To 40', Add	5.64	
For Elevated Installation >40', Add	6.20	
26 05 33 13-0726 LF 2-1/2" Intermediate Metal Conduit (IMC) Conduit	33.89	4.75
For >250 To 500, Deduct	-0.95	
For >500 To 1,000, Deduct	-1.42	
For >1,000, Deduct	-1.89	
For Installation In Metal Stud Wall, Add	1.50	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.74	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.24	
For Work In Restricted Working Space, Add	4.49	
For Elevated Installation >10' To 15', Add	1.50	
For Elevated Installation >15' To 20', Add	2.99	
For Elevated Installation >20' To 25', Add	3.74	
For Elevated Installation >25' To 30', Add	5.23	
For Elevated Installation >30' To 35', Add	5.98	
For Elevated Installation >35' To 40', Add	7.48	
For Elevated Installation >40', Add	8.22	
26 05 33 13-0727 LF 3" Intermediate Metal Conduit (IMC) Conduit	43.12	5.94
For >250 To 500, Deduct	-1.17	
For >500 To 1,000, Deduct	-1.75	
For >1,000, Deduct	-2.33	
For Installation In Metal Stud Wall, Add	1.98	
For Installation In Wood Stud Wall (Includes Drilling), Add	4.95	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.97	
For Work In Restricted Working Space, Add	5.94	
For Elevated Installation >10' To 15', Add	1.98	
For Elevated Installation >15' To 20', Add	3.96	
For Elevated Installation >20' To 25', Add	4.95	
For Elevated Installation >25' To 30', Add	6.93	
For Elevated Installation >30' To 35', Add	7.92	
For Elevated Installation >35' To 40', Add	9.90	
For Elevated Installation >40', Add	10.89	
26 05 33 13-0728 LF 3-1/2" Intermediate Metal Conduit (IMC) Conduit	49.68	7.13
For >250 To 500, Deduct	-1.35	
For >500 To 1,000, Deduct	-2.03	
For >1,000, Deduct	-2.70	
For Installation In Metal Stud Wall, Add	2.27	
For Installation In Wood Stud Wall (Includes Drilling), Add	5.67	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.40	
For Work In Restricted Working Space, Add	6.80	
For Elevated Installation >10' To 15', Add	2.27	
For Elevated Installation >15' To 20', Add	4.53	
For Elevated Installation >20' To 25', Add	5.67	
For Elevated Installation >25' To 30', Add	7.93	
For Elevated Installation >30' To 35', Add	9.07	
For Elevated Installation >35' To 40', Add	11.34	
For Elevated Installation >40', Add	12.47	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0729	LF		4" Intermediate Metal Conduit (IMC) Conduit	58.23	8.31
			<i>For >250 To 500, Deduct</i>	-1.59	
			<i>For >500 To 1,000, Deduct</i>	-2.38	
			<i>For >1,000, Deduct</i>	-3.18	
			<i>For Installation In Metal Stud Wall, Add</i>	2.64	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	6.61	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	3.97	
			<i>For Work In Restricted Working Space, Add</i>	7.93	
			<i>For Elevated Installation >10' To 15', Add</i>	2.64	
			<i>For Elevated Installation >15' To 20', Add</i>	5.29	
			<i>For Elevated Installation >20' To 25', Add</i>	6.61	
			<i>For Elevated Installation >25' To 30', Add</i>	9.25	
			<i>For Elevated Installation >30' To 35', Add</i>	10.58	
			<i>For Elevated Installation >35' To 40', Add</i>	13.22	
			<i>For Elevated Installation >40', Add</i>	14.54	
26 05 33 13-0730			Intermediate Metal Conduit (IMC) 90 Degree Elbows <small>(26 05 33 13-0718)</small>		
			See CSI section 26 05 33 13-2437 for conduit field bending.		
26 05 33 13-0731	EA		1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	33.57	9.80
			<i>For Work In Restricted Working Space, Add</i>	7.37	
			<i>For Elevated Installation >10' To 15', Add</i>	2.46	
			<i>For Elevated Installation >15' To 20', Add</i>	4.92	
			<i>For Elevated Installation >20' To 25', Add</i>	6.15	
			<i>For Elevated Installation >25' To 30', Add</i>	8.60	
			<i>For Elevated Installation >30' To 35', Add</i>	9.83	
			<i>For Elevated Installation >35' To 40', Add</i>	12.29	
			<i>For Elevated Installation >40', Add</i>	13.52	
26 05 33 13-0732	EA		3/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	40.65	12.17
			<i>For Work In Restricted Working Space, Add</i>	9.17	
			<i>For Elevated Installation >10' To 15', Add</i>	3.06	
			<i>For Elevated Installation >15' To 20', Add</i>	6.11	
			<i>For Elevated Installation >20' To 25', Add</i>	7.64	
			<i>For Elevated Installation >25' To 30', Add</i>	10.70	
			<i>For Elevated Installation >30' To 35', Add</i>	12.23	
			<i>For Elevated Installation >35' To 40', Add</i>	15.29	
			<i>For Elevated Installation >40', Add</i>	16.81	
26 05 33 13-0733	EA		1" Intermediate Metal Conduit (IMC) 90 Degree Elbow	51.60	14.95
			<i>For Work In Restricted Working Space, Add</i>	11.18	
			<i>For Elevated Installation >10' To 15', Add</i>	3.73	
			<i>For Elevated Installation >15' To 20', Add</i>	7.45	
			<i>For Elevated Installation >20' To 25', Add</i>	9.32	
			<i>For Elevated Installation >25' To 30', Add</i>	13.04	
			<i>For Elevated Installation >30' To 35', Add</i>	14.91	
			<i>For Elevated Installation >35' To 40', Add</i>	18.64	
			<i>For Elevated Installation >40', Add</i>	20.50	
26 05 33 13-0734	EA		1-1/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	63.37	17.33
			<i>For Work In Restricted Working Space, Add</i>	12.98	
			<i>For Elevated Installation >10' To 15', Add</i>	4.33	
			<i>For Elevated Installation >15' To 20', Add</i>	8.66	
			<i>For Elevated Installation >20' To 25', Add</i>	10.82	
			<i>For Elevated Installation >25' To 30', Add</i>	15.15	
			<i>For Elevated Installation >30' To 35', Add</i>	17.31	
			<i>For Elevated Installation >35' To 40', Add</i>	21.64	
			<i>For Elevated Installation >40', Add</i>	23.80	
26 05 33 13-0735	EA		1-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	75.08	19.90
			<i>For Work In Restricted Working Space, Add</i>	14.90	
			<i>For Elevated Installation >10' To 15', Add</i>	4.97	
			<i>For Elevated Installation >15' To 20', Add</i>	9.93	
			<i>For Elevated Installation >20' To 25', Add</i>	12.42	
			<i>For Elevated Installation >25' To 30', Add</i>	17.38	
			<i>For Elevated Installation >30' To 35', Add</i>	19.87	
			<i>For Elevated Installation >35' To 40', Add</i>	24.84	
			<i>For Elevated Installation >40', Add</i>	27.32	
26 05 33 13-0736	EA		2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	91.23	21.88
			<i>For Work In Restricted Working Space, Add</i>	16.40	
			<i>For Elevated Installation >10' To 15', Add</i>	5.47	
			<i>For Elevated Installation >15' To 20', Add</i>	10.93	
			<i>For Elevated Installation >20' To 25', Add</i>	13.66	
			<i>For Elevated Installation >25' To 30', Add</i>	19.13	
			<i>For Elevated Installation >30' To 35', Add</i>	21.86	
			<i>For Elevated Installation >35' To 40', Add</i>	27.33	
			<i>For Elevated Installation >40', Add</i>	30.06	
26 05 33 13-0737	EA		2-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	130.43	27.33
			<i>For Work In Restricted Working Space, Add</i>	20.49	
			<i>For Elevated Installation >10' To 15', Add</i>	6.83	
			<i>For Elevated Installation >15' To 20', Add</i>	13.66	
			<i>For Elevated Installation >20' To 25', Add</i>	17.08	
			<i>For Elevated Installation >25' To 30', Add</i>	23.91	
			<i>For Elevated Installation >30' To 35', Add</i>	27.32	
			<i>For Elevated Installation >35' To 40', Add</i>	34.16	
			<i>For Elevated Installation >40', Add</i>	37.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0738 EA 3" Intermediate Metal Conduit (IMC) 90 Degree Elbow	188.14	37.23
For Work In Restricted Working Space, Add	27.92	
For Elevated Installation >10' To 15', Add	9.31	
For Elevated Installation >15' To 20', Add	18.61	
For Elevated Installation >20' To 25', Add	23.26	
For Elevated Installation >25' To 30', Add	32.57	
For Elevated Installation >30' To 35', Add	37.22	
For Elevated Installation >35' To 40', Add	46.53	
For Elevated Installation >40', Add	51.18	
26 05 33 13-0739 EA 3-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	272.84	41.98
For Work In Restricted Working Space, Add	31.49	
For Elevated Installation >10' To 15', Add	10.50	
For Elevated Installation >15' To 20', Add	20.99	
For Elevated Installation >20' To 25', Add	26.24	
For Elevated Installation >25' To 30', Add	36.74	
For Elevated Installation >30' To 35', Add	41.98	
For Elevated Installation >35' To 40', Add	52.48	
For Elevated Installation >40', Add	57.73	
26 05 33 13-0740 EA 4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	331.34	54.66
For Work In Restricted Working Space, Add	40.98	
For Elevated Installation >10' To 15', Add	13.66	
For Elevated Installation >15' To 20', Add	27.32	
For Elevated Installation >20' To 25', Add	34.15	
For Elevated Installation >25' To 30', Add	47.81	
For Elevated Installation >30' To 35', Add	54.64	
For Elevated Installation >35' To 40', Add	68.30	
For Elevated Installation >40', Add	75.13	
26 05 33 13-0741 Intermediate Metal Conduit (IMC) Bushing Sets With Locknut <small>(26 05 33 13-0718)</small>		
26 05 33 13-0742 EA 1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	13.50	5.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.86	
26 05 33 13-0743 EA 3/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	15.91	0.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 05 33 13-0744 EA 1" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	20.58	7.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.64	
26 05 33 13-0745 EA 1-1/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	25.13	9.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.83	
26 05 33 13-0746 EA 1-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	28.12	9.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	
26 05 33 13-0747 EA 2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	36.25	12.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.21	
26 05 33 13-0748 EA 2-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	66.82	19.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.85	
26 05 33 13-0749 EA 3" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	82.73	26.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.20	
26 05 33 13-0750 EA 3-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	108.04	32.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.06	
26 05 33 13-0751 EA 4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	127.49	37.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.92	
26 05 33 13-0752 Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fittings <small>(26 05 33 13-0718)</small>		
Note: 3-Piece coupling.		
26 05 33 13-0753 EA 1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	44.47	15.84
For Work In Restricted Working Space, Add	11.90	
For Elevated Installation >10' To 15', Add	3.97	
For Elevated Installation >15' To 20', Add	7.93	
For Elevated Installation >20' To 25', Add	9.91	
For Elevated Installation >25' To 30', Add	13.88	
For Elevated Installation >30' To 35', Add	15.86	
For Elevated Installation >35' To 40', Add	19.83	
For Elevated Installation >40', Add	21.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.90	
26 05 33 13-0754 EA 3/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	50.46	17.72
For Work In Restricted Working Space, Add	13.28	
For Elevated Installation >10' To 15', Add	4.43	
For Elevated Installation >15' To 20', Add	8.85	
For Elevated Installation >20' To 25', Add	11.06	
For Elevated Installation >25' To 30', Add	15.49	
For Elevated Installation >30' To 35', Add	17.70	
For Elevated Installation >35' To 40', Add	22.13	
For Elevated Installation >40', Add	24.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.28	
26 05 33 13-0755 EA 1" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	61.26	19.71
For Work In Restricted Working Space, Add	14.79	
For Elevated Installation >10' To 15', Add	4.93	
For Elevated Installation >15' To 20', Add	9.86	
For Elevated Installation >20' To 25', Add	12.32	
For Elevated Installation >25' To 30', Add	17.25	
For Elevated Installation >30' To 35', Add	19.72	
For Elevated Installation >35' To 40', Add	24.65	
For Elevated Installation >40', Add	27.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.79	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0756 EA 1-1/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	75.96	21.58
For Work In Restricted Working Space, Add	16.18	
For Elevated Installation >10' To 15', Add	5.39	
For Elevated Installation >15' To 20', Add	10.79	
For Elevated Installation >20' To 25', Add	13.49	
For Elevated Installation >25' To 30', Add	18.88	
For Elevated Installation >30' To 35', Add	21.58	
For Elevated Installation >35' To 40', Add	26.97	
For Elevated Installation >40', Add	29.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.18	
26 05 33 13-0757 EA 1-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	86.65	23.57
For Work In Restricted Working Space, Add	17.71	
For Elevated Installation >10' To 15', Add	5.90	
For Elevated Installation >15' To 20', Add	11.80	
For Elevated Installation >20' To 25', Add	14.76	
For Elevated Installation >25' To 30', Add	20.66	
For Elevated Installation >30' To 35', Add	23.61	
For Elevated Installation >35' To 40', Add	29.51	
For Elevated Installation >40', Add	32.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.71	
26 05 33 13-0758 EA 2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	119.17	25.54
For Work In Restricted Working Space, Add	19.17	
For Elevated Installation >10' To 15', Add	6.39	
For Elevated Installation >15' To 20', Add	12.78	
For Elevated Installation >20' To 25', Add	15.98	
For Elevated Installation >25' To 30', Add	22.37	
For Elevated Installation >30' To 35', Add	25.56	
For Elevated Installation >35' To 40', Add	31.96	
For Elevated Installation >40', Add	35.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.17	
26 05 33 13-0759 EA 2-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	197.40	31.68
For Work In Restricted Working Space, Add	23.76	
For Elevated Installation >10' To 15', Add	7.92	
For Elevated Installation >15' To 20', Add	15.84	
For Elevated Installation >20' To 25', Add	19.80	
For Elevated Installation >25' To 30', Add	27.72	
For Elevated Installation >30' To 35', Add	31.68	
For Elevated Installation >35' To 40', Add	39.60	
For Elevated Installation >40', Add	43.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.76	
26 05 33 13-0760 EA 3" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	279.26	39.60
For Work In Restricted Working Space, Add	29.70	
For Elevated Installation >10' To 15', Add	9.90	
For Elevated Installation >15' To 20', Add	19.80	
For Elevated Installation >20' To 25', Add	24.75	
For Elevated Installation >25' To 30', Add	34.65	
For Elevated Installation >30' To 35', Add	39.60	
For Elevated Installation >35' To 40', Add	49.50	
For Elevated Installation >40', Add	54.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.70	
26 05 33 13-0761 EA 3-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	408.45	47.53
For Work In Restricted Working Space, Add	35.66	
For Elevated Installation >10' To 15', Add	11.89	
For Elevated Installation >15' To 20', Add	23.77	
For Elevated Installation >20' To 25', Add	29.71	
For Elevated Installation >25' To 30', Add	41.60	
For Elevated Installation >30' To 35', Add	47.54	
For Elevated Installation >35' To 40', Add	59.43	
For Elevated Installation >40', Add	65.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.66	
26 05 33 13-0762 EA 4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	471.49	51.49
For Work In Restricted Working Space, Add	38.61	
For Elevated Installation >10' To 15', Add	12.87	
For Elevated Installation >15' To 20', Add	25.74	
For Elevated Installation >20' To 25', Add	32.18	
For Elevated Installation >25' To 30', Add	45.05	
For Elevated Installation >30' To 35', Add	51.48	
For Elevated Installation >35' To 40', Add	64.35	
For Elevated Installation >40', Add	70.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.61	
26 05 33 13-0763 Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connectors <small>(26 05 33 13-0718)</small>		
26 05 33 13-0764 EA 1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	25.05	7.92
For Work In Restricted Working Space, Add	5.94	
For Elevated Installation >10' To 15', Add	1.98	
For Elevated Installation >15' To 20', Add	3.96	
For Elevated Installation >20' To 25', Add	4.95	
For Elevated Installation >25' To 30', Add	6.93	
For Elevated Installation >30' To 35', Add	7.92	
For Elevated Installation >35' To 40', Add	9.90	
For Elevated Installation >40', Add	10.89	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0765 EA 3/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	27.99	8.71
<i>For Work In Restricted Working Space, Add</i>	6.53	
<i>For Elevated Installation >10' To 15', Add</i>	2.18	
<i>For Elevated Installation >15' To 20', Add</i>	4.36	
<i>For Elevated Installation >20' To 25', Add</i>	5.45	
<i>For Elevated Installation >25' To 30', Add</i>	7.62	
<i>For Elevated Installation >30' To 35', Add</i>	8.71	
<i>For Elevated Installation >35' To 40', Add</i>	10.89	
<i>For Elevated Installation >40', Add</i>	11.98	
26 05 33 13-0766 EA 1" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	32.14	9.90
<i>For Work In Restricted Working Space, Add</i>	7.43	
<i>For Elevated Installation >10' To 15', Add</i>	2.48	
<i>For Elevated Installation >15' To 20', Add</i>	4.95	
<i>For Elevated Installation >20' To 25', Add</i>	6.19	
<i>For Elevated Installation >25' To 30', Add</i>	8.66	
<i>For Elevated Installation >30' To 35', Add</i>	9.90	
<i>For Elevated Installation >35' To 40', Add</i>	12.38	
<i>For Elevated Installation >40', Add</i>	13.61	
26 05 33 13-0767 EA 1-1/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	36.48	10.69
<i>For Work In Restricted Working Space, Add</i>	8.02	
<i>For Elevated Installation >10' To 15', Add</i>	2.67	
<i>For Elevated Installation >15' To 20', Add</i>	5.35	
<i>For Elevated Installation >20' To 25', Add</i>	6.68	
<i>For Elevated Installation >25' To 30', Add</i>	9.36	
<i>For Elevated Installation >30' To 35', Add</i>	10.69	
<i>For Elevated Installation >35' To 40', Add</i>	13.37	
<i>For Elevated Installation >40', Add</i>	14.70	
26 05 33 13-0768 EA 1-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	43.29	11.88
<i>For Work In Restricted Working Space, Add</i>	8.91	
<i>For Elevated Installation >10' To 15', Add</i>	2.97	
<i>For Elevated Installation >15' To 20', Add</i>	5.94	
<i>For Elevated Installation >20' To 25', Add</i>	7.43	
<i>For Elevated Installation >25' To 30', Add</i>	10.40	
<i>For Elevated Installation >30' To 35', Add</i>	11.88	
<i>For Elevated Installation >35' To 40', Add</i>	14.85	
<i>For Elevated Installation >40', Add</i>	16.34	
26 05 33 13-0769 EA 2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	52.76	13.07
<i>For Work In Restricted Working Space, Add</i>	9.80	
<i>For Elevated Installation >10' To 15', Add</i>	3.27	
<i>For Elevated Installation >15' To 20', Add</i>	6.53	
<i>For Elevated Installation >20' To 25', Add</i>	8.17	
<i>For Elevated Installation >25' To 30', Add</i>	11.43	
<i>For Elevated Installation >30' To 35', Add</i>	13.07	
<i>For Elevated Installation >35' To 40', Add</i>	16.34	
<i>For Elevated Installation >40', Add</i>	17.97	
26 05 33 13-0770 EA 2-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	71.81	15.84
<i>For Work In Restricted Working Space, Add</i>	11.88	
<i>For Elevated Installation >10' To 15', Add</i>	3.96	
<i>For Elevated Installation >15' To 20', Add</i>	7.92	
<i>For Elevated Installation >20' To 25', Add</i>	9.90	
<i>For Elevated Installation >25' To 30', Add</i>	13.86	
<i>For Elevated Installation >30' To 35', Add</i>	15.84	
<i>For Elevated Installation >35' To 40', Add</i>	19.80	
<i>For Elevated Installation >40', Add</i>	21.78	
26 05 33 13-0771 EA 3" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	88.80	19.80
<i>For Work In Restricted Working Space, Add</i>	14.85	
<i>For Elevated Installation >10' To 15', Add</i>	4.95	
<i>For Elevated Installation >15' To 20', Add</i>	9.90	
<i>For Elevated Installation >20' To 25', Add</i>	12.38	
<i>For Elevated Installation >25' To 30', Add</i>	17.33	
<i>For Elevated Installation >30' To 35', Add</i>	19.80	
<i>For Elevated Installation >35' To 40', Add</i>	24.75	
<i>For Elevated Installation >40', Add</i>	27.23	
26 05 33 13-0772 EA 3-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	106.68	23.76
<i>For Work In Restricted Working Space, Add</i>	17.82	
<i>For Elevated Installation >10' To 15', Add</i>	5.94	
<i>For Elevated Installation >15' To 20', Add</i>	11.88	
<i>For Elevated Installation >20' To 25', Add</i>	14.85	
<i>For Elevated Installation >25' To 30', Add</i>	20.79	
<i>For Elevated Installation >30' To 35', Add</i>	23.76	
<i>For Elevated Installation >35' To 40', Add</i>	29.70	
<i>For Elevated Installation >40', Add</i>	32.67	

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26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0773	EA		4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	120.50	25.74
			<i>For Work In Restricted Working Space, Add</i>	19.31	
			<i>For Elevated Installation >10' To 15', Add</i>	6.44	
			<i>For Elevated Installation >15' To 20', Add</i>	12.87	
			<i>For Elevated Installation >20' To 25', Add</i>	16.09	
			<i>For Elevated Installation >25' To 30', Add</i>	22.52	
			<i>For Elevated Installation >30' To 35', Add</i>	25.74	
			<i>For Elevated Installation >35' To 40', Add</i>	32.18	
			<i>For Elevated Installation >40', Add</i>	35.39	
26 05 33 13-0774			Intermediate Metal Conduit (IMC) Rain Tight Threaded Hubs <small>(26 05 33 13-0718)</small>		
26 05 33 13-0775	EA		1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	22.00	7.92
			<i>For Work In Restricted Working Space, Add</i>	5.94	
			<i>For Elevated Installation >10' To 15', Add</i>	1.98	
			<i>For Elevated Installation >15' To 20', Add</i>	3.96	
			<i>For Elevated Installation >20' To 25', Add</i>	4.95	
			<i>For Elevated Installation >25' To 30', Add</i>	6.93	
			<i>For Elevated Installation >30' To 35', Add</i>	7.92	
			<i>For Elevated Installation >35' To 40', Add</i>	9.91	
			<i>For Elevated Installation >40', Add</i>	10.90	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.94	
26 05 33 13-0776	EA		3/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	28.03	9.90
			<i>For Work In Restricted Working Space, Add</i>	7.43	
			<i>For Elevated Installation >10' To 15', Add</i>	2.48	
			<i>For Elevated Installation >15' To 20', Add</i>	4.95	
			<i>For Elevated Installation >20' To 25', Add</i>	6.19	
			<i>For Elevated Installation >25' To 30', Add</i>	8.66	
			<i>For Elevated Installation >30' To 35', Add</i>	9.90	
			<i>For Elevated Installation >35' To 40', Add</i>	12.38	
			<i>For Elevated Installation >40', Add</i>	13.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.43	
26 05 33 13-0777	EA		1" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	34.55	11.88
			<i>For Work In Restricted Working Space, Add</i>	8.91	
			<i>For Elevated Installation >10' To 15', Add</i>	2.97	
			<i>For Elevated Installation >15' To 20', Add</i>	5.94	
			<i>For Elevated Installation >20' To 25', Add</i>	7.43	
			<i>For Elevated Installation >25' To 30', Add</i>	10.40	
			<i>For Elevated Installation >30' To 35', Add</i>	11.88	
			<i>For Elevated Installation >35' To 40', Add</i>	14.85	
			<i>For Elevated Installation >40', Add</i>	16.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.91	
26 05 33 13-0778	EA		1-1/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	41.52	13.86
			<i>For Work In Restricted Working Space, Add</i>	10.40	
			<i>For Elevated Installation >10' To 15', Add</i>	3.47	
			<i>For Elevated Installation >15' To 20', Add</i>	6.93	
			<i>For Elevated Installation >20' To 25', Add</i>	8.67	
			<i>For Elevated Installation >25' To 30', Add</i>	12.13	
			<i>For Elevated Installation >30' To 35', Add</i>	13.86	
			<i>For Elevated Installation >35' To 40', Add</i>	17.33	
			<i>For Elevated Installation >40', Add</i>	19.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.40	
26 05 33 13-0779	EA		1-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	48.44	15.84
			<i>For Work In Restricted Working Space, Add</i>	11.88	
			<i>For Elevated Installation >10' To 15', Add</i>	3.96	
			<i>For Elevated Installation >15' To 20', Add</i>	7.92	
			<i>For Elevated Installation >20' To 25', Add</i>	9.90	
			<i>For Elevated Installation >25' To 30', Add</i>	13.86	
			<i>For Elevated Installation >30' To 35', Add</i>	15.84	
			<i>For Elevated Installation >35' To 40', Add</i>	19.80	
			<i>For Elevated Installation >40', Add</i>	21.78	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.88	
26 05 33 13-0780	EA		2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	57.32	17.82
			<i>For Work In Restricted Working Space, Add</i>	13.37	
			<i>For Elevated Installation >10' To 15', Add</i>	4.46	
			<i>For Elevated Installation >15' To 20', Add</i>	8.91	
			<i>For Elevated Installation >20' To 25', Add</i>	11.14	
			<i>For Elevated Installation >25' To 30', Add</i>	15.59	
			<i>For Elevated Installation >30' To 35', Add</i>	17.82	
			<i>For Elevated Installation >35' To 40', Add</i>	22.28	
			<i>For Elevated Installation >40', Add</i>	24.50	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.37	
26 05 33 13-0781	EA		2-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	70.89	19.80
			<i>For Work In Restricted Working Space, Add</i>	14.85	
			<i>For Elevated Installation >10' To 15', Add</i>	4.95	
			<i>For Elevated Installation >15' To 20', Add</i>	9.90	
			<i>For Elevated Installation >20' To 25', Add</i>	12.38	
			<i>For Elevated Installation >25' To 30', Add</i>	17.33	
			<i>For Elevated Installation >30' To 35', Add</i>	19.80	
			<i>For Elevated Installation >35' To 40', Add</i>	24.75	
			<i>For Elevated Installation >40', Add</i>	27.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0782 EA 3" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	83.26	21.78
For Work In Restricted Working Space, Add	16.34	
For Elevated Installation >10' To 15', Add	5.45	
For Elevated Installation >15' To 20', Add	10.89	
For Elevated Installation >20' To 25', Add	13.61	
For Elevated Installation >25' To 30', Add	19.06	
For Elevated Installation >30' To 35', Add	21.78	
For Elevated Installation >35' To 40', Add	27.23	
For Elevated Installation >40', Add	29.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.34	
26 05 33 13-0783 EA 3-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	101.70	25.74
For Work In Restricted Working Space, Add	19.31	
For Elevated Installation >10' To 15', Add	6.44	
For Elevated Installation >15' To 20', Add	12.87	
For Elevated Installation >20' To 25', Add	16.09	
For Elevated Installation >25' To 30', Add	22.52	
For Elevated Installation >30' To 35', Add	25.74	
For Elevated Installation >35' To 40', Add	32.18	
For Elevated Installation >40', Add	35.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.31	
26 05 33 13-0784 EA 4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	116.43	27.72
For Work In Restricted Working Space, Add	20.79	
For Elevated Installation >10' To 15', Add	6.93	
For Elevated Installation >15' To 20', Add	13.86	
For Elevated Installation >20' To 25', Add	17.33	
For Elevated Installation >25' To 30', Add	24.26	
For Elevated Installation >30' To 35', Add	27.72	
For Elevated Installation >35' To 40', Add	34.65	
For Elevated Installation >40', Add	38.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.79	
26 05 33 13-0785 Intermediate Metal Conduit (IMC) Expansion Fittings <small>(26 05 33 13-0718)</small>		
26 05 33 13-0786 EA 1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	134.17	15.84
For Work In Restricted Working Space, Add	11.88	
For Elevated Installation >10' To 15', Add	3.96	
For Elevated Installation >15' To 20', Add	7.92	
For Elevated Installation >20' To 25', Add	9.90	
For Elevated Installation >25' To 30', Add	13.86	
For Elevated Installation >30' To 35', Add	15.84	
For Elevated Installation >35' To 40', Add	19.81	
For Elevated Installation >40', Add	21.79	
26 05 33 13-0787 EA 3/4" Intermediate Metal Conduit (IMC) Expansion Fitting	148.57	17.82
For Work In Restricted Working Space, Add	13.37	
For Elevated Installation >10' To 15', Add	4.46	
For Elevated Installation >15' To 20', Add	8.91	
For Elevated Installation >20' To 25', Add	11.14	
For Elevated Installation >25' To 30', Add	15.59	
For Elevated Installation >30' To 35', Add	17.82	
For Elevated Installation >35' To 40', Add	22.28	
For Elevated Installation >40', Add	24.50	
26 05 33 13-0788 EA 1" Intermediate Metal Conduit (IMC) Expansion Fitting	165.11	19.80
For Work In Restricted Working Space, Add	14.85	
For Elevated Installation >10' To 15', Add	4.95	
For Elevated Installation >15' To 20', Add	9.90	
For Elevated Installation >20' To 25', Add	12.38	
For Elevated Installation >25' To 30', Add	17.33	
For Elevated Installation >30' To 35', Add	19.80	
For Elevated Installation >35' To 40', Add	24.76	
For Elevated Installation >40', Add	27.23	
26 05 33 13-0789 EA 1-1/4" Intermediate Metal Conduit (IMC) Expansion Fitting	198.66	21.78
For Work In Restricted Working Space, Add	16.34	
For Elevated Installation >10' To 15', Add	5.45	
For Elevated Installation >15' To 20', Add	10.89	
For Elevated Installation >20' To 25', Add	13.61	
For Elevated Installation >25' To 30', Add	19.06	
For Elevated Installation >30' To 35', Add	21.78	
For Elevated Installation >35' To 40', Add	27.23	
For Elevated Installation >40', Add	29.95	
26 05 33 13-0790 EA 1-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	242.32	23.76
For Work In Restricted Working Space, Add	17.82	
For Elevated Installation >10' To 15', Add	5.94	
For Elevated Installation >15' To 20', Add	11.88	
For Elevated Installation >20' To 25', Add	14.85	
For Elevated Installation >25' To 30', Add	20.79	
For Elevated Installation >30' To 35', Add	23.76	
For Elevated Installation >35' To 40', Add	29.70	
For Elevated Installation >40', Add	32.67	
26 05 33 13-0791 EA 2" Intermediate Metal Conduit (IMC) Expansion Fitting	316.58	25.74
For Work In Restricted Working Space, Add	19.30	
For Elevated Installation >10' To 15', Add	6.43	
For Elevated Installation >15' To 20', Add	12.87	
For Elevated Installation >20' To 25', Add	16.09	
For Elevated Installation >25' To 30', Add	22.52	
For Elevated Installation >30' To 35', Add	25.74	
For Elevated Installation >35' To 40', Add	32.17	
For Elevated Installation >40', Add	35.39	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0792 EA 2-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting.....	475.42	31.68
For Work In Restricted Working Space, Add	23.76	
For Elevated Installation >10' To 15', Add	7.92	
For Elevated Installation >15' To 20', Add	15.84	
For Elevated Installation >20' To 25', Add	19.80	
For Elevated Installation >25' To 30', Add	27.72	
For Elevated Installation >30' To 35', Add	31.68	
For Elevated Installation >35' To 40', Add	39.60	
For Elevated Installation >40', Add	43.56	
26 05 33 13-0793 EA 3" Intermediate Metal Conduit (IMC) Expansion Fitting.....	572.11	39.60
For Work In Restricted Working Space, Add	29.70	
For Elevated Installation >10' To 15', Add	9.90	
For Elevated Installation >15' To 20', Add	19.80	
For Elevated Installation >20' To 25', Add	24.75	
For Elevated Installation >25' To 30', Add	34.65	
For Elevated Installation >30' To 35', Add	39.60	
For Elevated Installation >35' To 40', Add	49.50	
For Elevated Installation >40', Add	54.45	
26 05 33 13-0794 EA 3-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting.....	794.70	47.53
For Work In Restricted Working Space, Add	35.65	
For Elevated Installation >10' To 15', Add	11.88	
For Elevated Installation >15' To 20', Add	23.76	
For Elevated Installation >20' To 25', Add	29.71	
For Elevated Installation >25' To 30', Add	41.59	
For Elevated Installation >30' To 35', Add	47.53	
For Elevated Installation >35' To 40', Add	59.41	
For Elevated Installation >40', Add	65.35	
26 05 33 13-0795 EA 4" Intermediate Metal Conduit (IMC) Expansion Fitting.....	917.82	51.49
For Work In Restricted Working Space, Add	38.61	
For Elevated Installation >10' To 15', Add	12.87	
For Elevated Installation >15' To 20', Add	25.74	
For Elevated Installation >20' To 25', Add	32.18	
For Elevated Installation >25' To 30', Add	45.05	
For Elevated Installation >30' To 35', Add	51.48	
For Elevated Installation >35' To 40', Add	64.35	
For Elevated Installation >40', Add	70.79	
26 05 33 13-0796 Intermediate Metal Conduit (IMC) Sealing Fittings, Vertical/Horizontal <small>(26 05 33 13-0718)</small>		
26 05 33 13-0797 EA 1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	85.89	24.75
For Work In Restricted Working Space, Add	14.85	
For Elevated Installation >10' To 15', Add	4.95	
For Elevated Installation >15' To 20', Add	9.90	
For Elevated Installation >20' To 25', Add	12.38	
For Elevated Installation >25' To 30', Add	17.33	
For Elevated Installation >30' To 35', Add	19.80	
For Elevated Installation >35' To 40', Add	24.75	
For Elevated Installation >40', Add	27.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.85	
26 05 33 13-0798 EA 3/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	102.13	29.70
For Work In Restricted Working Space, Add	17.82	
For Elevated Installation >10' To 15', Add	5.94	
For Elevated Installation >15' To 20', Add	11.88	
For Elevated Installation >20' To 25', Add	14.85	
For Elevated Installation >25' To 30', Add	20.79	
For Elevated Installation >30' To 35', Add	23.76	
For Elevated Installation >35' To 40', Add	29.70	
For Elevated Installation >40', Add	32.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.82	
26 05 33 13-0799 EA 1" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	124.23	34.65
For Work In Restricted Working Space, Add	20.79	
For Elevated Installation >10' To 15', Add	6.93	
For Elevated Installation >15' To 20', Add	13.86	
For Elevated Installation >20' To 25', Add	17.33	
For Elevated Installation >25' To 30', Add	24.26	
For Elevated Installation >30' To 35', Add	27.72	
For Elevated Installation >35' To 40', Add	34.66	
For Elevated Installation >40', Add	38.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.79	
26 05 33 13-0800 EA 1-1/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	145.90	39.60
For Work In Restricted Working Space, Add	23.76	
For Elevated Installation >10' To 15', Add	7.92	
For Elevated Installation >15' To 20', Add	15.84	
For Elevated Installation >20' To 25', Add	19.80	
For Elevated Installation >25' To 30', Add	27.72	
For Elevated Installation >30' To 35', Add	31.68	
For Elevated Installation >35' To 40', Add	39.60	
For Elevated Installation >40', Add	43.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0801 EA 1-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	189.52	44.56
For Work In Restricted Working Space, Add	26.73	
For Elevated Installation >10' To 15', Add	8.91	
For Elevated Installation >15' To 20', Add	17.82	
For Elevated Installation >20' To 25', Add	22.28	
For Elevated Installation >25' To 30', Add	31.19	
For Elevated Installation >30' To 35', Add	35.64	
For Elevated Installation >35' To 40', Add	44.55	
For Elevated Installation >40', Add	49.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.73	
26 05 33 13-0802 EA 2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	229.10	49.50
For Work In Restricted Working Space, Add	29.70	
For Elevated Installation >10' To 15', Add	9.90	
For Elevated Installation >15' To 20', Add	19.80	
For Elevated Installation >20' To 25', Add	24.75	
For Elevated Installation >25' To 30', Add	34.65	
For Elevated Installation >30' To 35', Add	39.60	
For Elevated Installation >35' To 40', Add	49.50	
For Elevated Installation >40', Add	54.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.70	
26 05 33 13-0803 EA 2-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	320.95	59.40
For Work In Restricted Working Space, Add	35.64	
For Elevated Installation >10' To 15', Add	11.88	
For Elevated Installation >15' To 20', Add	23.76	
For Elevated Installation >20' To 25', Add	29.70	
For Elevated Installation >25' To 30', Add	41.58	
For Elevated Installation >30' To 35', Add	47.52	
For Elevated Installation >35' To 40', Add	59.41	
For Elevated Installation >40', Add	65.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.64	
26 05 33 13-0804 EA 3" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	385.52	69.31
For Work In Restricted Working Space, Add	41.58	
For Elevated Installation >10' To 15', Add	13.86	
For Elevated Installation >15' To 20', Add	27.72	
For Elevated Installation >20' To 25', Add	34.65	
For Elevated Installation >25' To 30', Add	48.51	
For Elevated Installation >30' To 35', Add	55.44	
For Elevated Installation >35' To 40', Add	69.30	
For Elevated Installation >40', Add	76.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.58	
26 05 33 13-0805 EA 3-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	870.53	79.20
For Work In Restricted Working Space, Add	47.52	
For Elevated Installation >10' To 15', Add	15.84	
For Elevated Installation >15' To 20', Add	31.68	
For Elevated Installation >20' To 25', Add	39.60	
For Elevated Installation >25' To 30', Add	55.44	
For Elevated Installation >30' To 35', Add	63.36	
For Elevated Installation >35' To 40', Add	79.21	
For Elevated Installation >40', Add	87.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.52	
26 05 33 13-0806 EA 4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	1,002.39	89.10
For Work In Restricted Working Space, Add	53.46	
For Elevated Installation >10' To 15', Add	17.82	
For Elevated Installation >15' To 20', Add	35.64	
For Elevated Installation >20' To 25', Add	44.55	
For Elevated Installation >25' To 30', Add	62.37	
For Elevated Installation >30' To 35', Add	71.28	
For Elevated Installation >35' To 40', Add	89.11	
For Elevated Installation >40', Add	98.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.46	
26 05 33 13-0807 Intermediate Metal Conduit (IMC) Threaded Couplings (26 05 33 13-0718)		
26 05 33 13-0808 EA 1/2" Intermediate Metal Conduit (IMC) Threaded Coupling.....	13.11	4.75
For Work In Restricted Working Space, Add	3.56	
For Elevated Installation >10' To 15', Add	1.19	
For Elevated Installation >15' To 20', Add	2.37	
For Elevated Installation >20' To 25', Add	2.97	
For Elevated Installation >25' To 30', Add	4.15	
For Elevated Installation >30' To 35', Add	4.75	
For Elevated Installation >35' To 40', Add	5.94	
For Elevated Installation >40', Add	6.53	
26 05 33 13-0809 EA 3/4" Intermediate Metal Conduit (IMC) Threaded Coupling.....	18.35	6.73
For Work In Restricted Working Space, Add	5.05	
For Elevated Installation >10' To 15', Add	1.68	
For Elevated Installation >15' To 20', Add	3.37	
For Elevated Installation >20' To 25', Add	4.21	
For Elevated Installation >25' To 30', Add	5.89	
For Elevated Installation >30' To 35', Add	6.74	
For Elevated Installation >35' To 40', Add	8.42	
For Elevated Installation >40', Add	9.26	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0810	EA		1" Intermediate Metal Conduit (IMC) Threaded Coupling	24.01	8.71
			<i>For Work In Restricted Working Space, Add</i>	6.53	
			<i>For Elevated Installation >10' To 15', Add</i>	2.18	
			<i>For Elevated Installation >15' To 20', Add</i>	4.35	
			<i>For Elevated Installation >20' To 25', Add</i>	5.44	
			<i>For Elevated Installation >25' To 30', Add</i>	7.62	
			<i>For Elevated Installation >30' To 35', Add</i>	8.70	
			<i>For Elevated Installation >35' To 40', Add</i>	10.88	
			<i>For Elevated Installation >40', Add</i>	11.97	
26 05 33 13-0811	EA		1-1/4" Intermediate Metal Conduit (IMC) Threaded Coupling	27.57	9.90
			<i>For Work In Restricted Working Space, Add</i>	7.43	
			<i>For Elevated Installation >10' To 15', Add</i>	2.48	
			<i>For Elevated Installation >15' To 20', Add</i>	4.95	
			<i>For Elevated Installation >20' To 25', Add</i>	6.19	
			<i>For Elevated Installation >25' To 30', Add</i>	8.67	
			<i>For Elevated Installation >30' To 35', Add</i>	9.90	
			<i>For Elevated Installation >35' To 40', Add</i>	12.38	
			<i>For Elevated Installation >40', Add</i>	13.62	
26 05 33 13-0812	EA		1-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	33.23	11.88
			<i>For Work In Restricted Working Space, Add</i>	8.90	
			<i>For Elevated Installation >10' To 15', Add</i>	2.97	
			<i>For Elevated Installation >15' To 20', Add</i>	5.94	
			<i>For Elevated Installation >20' To 25', Add</i>	7.42	
			<i>For Elevated Installation >25' To 30', Add</i>	10.39	
			<i>For Elevated Installation >30' To 35', Add</i>	11.87	
			<i>For Elevated Installation >35' To 40', Add</i>	14.84	
			<i>For Elevated Installation >40', Add</i>	16.32	
26 05 33 13-0813	EA		2" Intermediate Metal Conduit (IMC) Threaded Coupling	38.35	13.47
			<i>For Work In Restricted Working Space, Add</i>	10.10	
			<i>For Elevated Installation >10' To 15', Add</i>	3.37	
			<i>For Elevated Installation >15' To 20', Add</i>	6.74	
			<i>For Elevated Installation >20' To 25', Add</i>	8.42	
			<i>For Elevated Installation >25' To 30', Add</i>	11.79	
			<i>For Elevated Installation >30' To 35', Add</i>	13.47	
			<i>For Elevated Installation >35' To 40', Add</i>	16.84	
			<i>For Elevated Installation >40', Add</i>	18.52	
26 05 33 13-0814	EA		2-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	47.96	15.05
			<i>For Work In Restricted Working Space, Add</i>	11.29	
			<i>For Elevated Installation >10' To 15', Add</i>	3.76	
			<i>For Elevated Installation >15' To 20', Add</i>	7.52	
			<i>For Elevated Installation >20' To 25', Add</i>	9.41	
			<i>For Elevated Installation >25' To 30', Add</i>	13.17	
			<i>For Elevated Installation >30' To 35', Add</i>	15.05	
			<i>For Elevated Installation >35' To 40', Add</i>	18.81	
			<i>For Elevated Installation >40', Add</i>	20.69	
26 05 33 13-0815	EA		3" Intermediate Metal Conduit (IMC) Threaded Coupling	56.71	17.03
			<i>For Work In Restricted Working Space, Add</i>	12.77	
			<i>For Elevated Installation >10' To 15', Add</i>	4.26	
			<i>For Elevated Installation >15' To 20', Add</i>	8.52	
			<i>For Elevated Installation >20' To 25', Add</i>	10.65	
			<i>For Elevated Installation >25' To 30', Add</i>	14.90	
			<i>For Elevated Installation >30' To 35', Add</i>	17.03	
			<i>For Elevated Installation >35' To 40', Add</i>	21.29	
			<i>For Elevated Installation >40', Add</i>	23.42	
26 05 33 13-0816	EA		3-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	65.42	18.61
			<i>For Work In Restricted Working Space, Add</i>	13.96	
			<i>For Elevated Installation >10' To 15', Add</i>	4.65	
			<i>For Elevated Installation >15' To 20', Add</i>	9.31	
			<i>For Elevated Installation >20' To 25', Add</i>	11.64	
			<i>For Elevated Installation >25' To 30', Add</i>	16.29	
			<i>For Elevated Installation >30' To 35', Add</i>	18.62	
			<i>For Elevated Installation >35' To 40', Add</i>	23.27	
			<i>For Elevated Installation >40', Add</i>	25.60	
26 05 33 13-0817	EA		4" Intermediate Metal Conduit (IMC) Threaded Coupling	68.52	19.80
			<i>For Work In Restricted Working Space, Add</i>	14.85	
			<i>For Elevated Installation >10' To 15', Add</i>	4.95	
			<i>For Elevated Installation >15' To 20', Add</i>	9.90	
			<i>For Elevated Installation >20' To 25', Add</i>	12.37	
			<i>For Elevated Installation >25' To 30', Add</i>	17.32	
			<i>For Elevated Installation >30' To 35', Add</i>	19.80	
			<i>For Elevated Installation >35' To 40', Add</i>	24.75	
			<i>For Elevated Installation >40', Add</i>	27.22	
26 05 33 13-0818			Intermediate Metal Conduit (IMC) Reducer Bushings <small>(26 05 33 13-0718)</small>		
26 05 33 13-0819	EA		1/2" To 3/4" Intermediate Metal Conduit (IMC) Reducing Bushing	6.34	1.98
			<i>For Work In Restricted Working Space, Add</i>	1.49	
			<i>For Elevated Installation >10' To 15', Add</i>	0.50	
			<i>For Elevated Installation >15' To 20', Add</i>	0.99	
			<i>For Elevated Installation >20' To 25', Add</i>	1.24	
			<i>For Elevated Installation >25' To 30', Add</i>	1.73	
			<i>For Elevated Installation >30' To 35', Add</i>	1.98	
			<i>For Elevated Installation >35' To 40', Add</i>	2.48	
			<i>For Elevated Installation >40', Add</i>	2.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0820 EA 3/4" To 1" Intermediate Metal Conduit (IMC) Reducing Bushing	7.14	1.98
<i>For Work In Restricted Working Space, Add</i>	1.49	
<i>For Elevated Installation >10' To 15', Add</i>	0.50	
<i>For Elevated Installation >15' To 20', Add</i>	0.99	
<i>For Elevated Installation >20' To 25', Add</i>	1.24	
<i>For Elevated Installation >25' To 30', Add</i>	1.73	
<i>For Elevated Installation >30' To 35', Add</i>	1.98	
<i>For Elevated Installation >35' To 40', Add</i>	2.48	
<i>For Elevated Installation >40', Add</i>	2.72	
 26 05 33 13-0821 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit <small>(26 05 33 13-0058)</small>		
<small>Note: 40 mil polyvinyl chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney). Used in hazardous locations. Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.</small>		
 26 05 33 13-0822 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit <small>(26 05 33 13-0821)</small>		
<small>Note: Includes field bending for conduit up to 1".</small>		
26 05 33 13-0823 LF 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	12.55	2.77
<i>For >250 To 500, Deduct</i>	-0.45	
<i>For >500 To 1,000, Deduct</i>	-0.77	
<i>For >1,000, Deduct</i>	-1.08	
<i>For Elevated Installation >10' To 15', Add</i>	0.69	
<i>For Elevated Installation >15' To 20', Add</i>	1.39	
<i>For Elevated Installation >20' To 25', Add</i>	1.73	
<i>For Elevated Installation >25' To 30', Add</i>	2.43	
<i>For Elevated Installation >30' To 35', Add</i>	2.77	
<i>For Elevated Installation >35' To 40', Add</i>	3.47	
<i>For Elevated Installation >40', Add</i>	3.81	
<i>For Work In Restricted Working Space, Add</i>	2.08	
26 05 33 13-0824 LF 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	14.43	3.17
<i>For >250 To 500, Deduct</i>	-0.52	
<i>For >500 To 1,000, Deduct</i>	-0.88	
<i>For >1,000, Deduct</i>	-1.25	
<i>For Elevated Installation >10' To 15', Add</i>	0.79	
<i>For Elevated Installation >15' To 20', Add</i>	1.58	
<i>For Elevated Installation >20' To 25', Add</i>	1.98	
<i>For Elevated Installation >25' To 30', Add</i>	2.77	
<i>For Elevated Installation >30' To 35', Add</i>	3.17	
<i>For Elevated Installation >35' To 40', Add</i>	3.96	
<i>For Elevated Installation >40', Add</i>	4.36	
<i>For Work In Restricted Working Space, Add</i>	2.38	
26 05 33 13-0825 LF 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	18.34	3.96
<i>For >250 To 500, Deduct</i>	-0.67	
<i>For >500 To 1,000, Deduct</i>	-1.13	
<i>For >1,000, Deduct</i>	-1.59	
<i>For Elevated Installation >10' To 15', Add</i>	0.99	
<i>For Elevated Installation >15' To 20', Add</i>	1.98	
<i>For Elevated Installation >20' To 25', Add</i>	2.48	
<i>For Elevated Installation >25' To 30', Add</i>	3.47	
<i>For Elevated Installation >30' To 35', Add</i>	3.96	
<i>For Elevated Installation >35' To 40', Add</i>	4.95	
<i>For Elevated Installation >40', Add</i>	5.45	
<i>For Work In Restricted Working Space, Add</i>	2.97	
26 05 33 13-0826 LF 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	22.58	4.75
<i>For >250 To 500, Deduct</i>	-0.83	
<i>For >500 To 1,000, Deduct</i>	-1.40	
<i>For >1,000, Deduct</i>	-1.96	
<i>For Elevated Installation >10' To 15', Add</i>	1.19	
<i>For Elevated Installation >15' To 20', Add</i>	2.38	
<i>For Elevated Installation >20' To 25', Add</i>	2.97	
<i>For Elevated Installation >25' To 30', Add</i>	4.16	
<i>For Elevated Installation >30' To 35', Add</i>	4.75	
<i>For Elevated Installation >35' To 40', Add</i>	5.94	
<i>For Elevated Installation >40', Add</i>	6.53	
<i>For Work In Restricted Working Space, Add</i>	3.56	
26 05 33 13-0827 LF 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	27.85	5.94
<i>For >250 To 500, Deduct</i>	-1.02	
<i>For >500 To 1,000, Deduct</i>	-1.72	
<i>For >1,000, Deduct</i>	-2.41	
<i>For Elevated Installation >10' To 15', Add</i>	1.49	
<i>For Elevated Installation >15' To 20', Add</i>	2.97	
<i>For Elevated Installation >20' To 25', Add</i>	3.71	
<i>For Elevated Installation >25' To 30', Add</i>	5.20	
<i>For Elevated Installation >30' To 35', Add</i>	5.94	
<i>For Elevated Installation >35' To 40', Add</i>	7.43	
<i>For Elevated Installation >40', Add</i>	8.17	
<i>For Work In Restricted Working Space, Add</i>	4.46	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0828	LF		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	34.76	7.13
			<i>For >250 To 500, Deduct</i>	-1.29	
			<i>For >500 To 1,000, Deduct</i>	-2.16	
			<i>For >1,000, Deduct</i>	-3.03	
			<i>For Elevated Installation >10' To 15', Add</i>	1.78	
			<i>For Elevated Installation >15' To 20', Add</i>	3.56	
			<i>For Elevated Installation >20' To 25', Add</i>	4.46	
			<i>For Elevated Installation >25' To 30', Add</i>	6.24	
			<i>For Elevated Installation >30' To 35', Add</i>	7.13	
			<i>For Elevated Installation >35' To 40', Add</i>	8.91	
			<i>For Elevated Installation >40', Add</i>	9.80	
			<i>For Work In Restricted Working Space, Add</i>	5.35	
26 05 33 13-0829	LF		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	46.48	8.31
			<i>For >250 To 500, Deduct</i>	-1.80	
			<i>For >500 To 1,000, Deduct</i>	-2.97	
			<i>For >1,000, Deduct</i>	-4.13	
			<i>For Elevated Installation >10' To 15', Add</i>	2.08	
			<i>For Elevated Installation >15' To 20', Add</i>	4.16	
			<i>For Elevated Installation >20' To 25', Add</i>	5.20	
			<i>For Elevated Installation >25' To 30', Add</i>	7.28	
			<i>For Elevated Installation >30' To 35', Add</i>	8.32	
			<i>For Elevated Installation >35' To 40', Add</i>	10.40	
			<i>For Elevated Installation >40', Add</i>	11.43	
			<i>For Work In Restricted Working Space, Add</i>	6.24	
26 05 33 13-0830	LF		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	58.14	10.30
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500 To 1,000, Deduct</i>	-3.72	
			<i>For >1,000, Deduct</i>	-5.17	
			<i>For Elevated Installation >10' To 15', Add</i>	2.57	
			<i>For Elevated Installation >15' To 20', Add</i>	5.15	
			<i>For Elevated Installation >20' To 25', Add</i>	6.44	
			<i>For Elevated Installation >25' To 30', Add</i>	9.01	
			<i>For Elevated Installation >30' To 35', Add</i>	10.30	
			<i>For Elevated Installation >35' To 40', Add</i>	12.87	
			<i>For Elevated Installation >40', Add</i>	14.16	
			<i>For Work In Restricted Working Space, Add</i>	7.72	
26 05 33 13-0831	LF		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	71.31	12.68
			<i>For >250 To 500, Deduct</i>	-2.77	
			<i>For >500 To 1,000, Deduct</i>	-4.56	
			<i>For >1,000, Deduct</i>	-6.34	
			<i>For Elevated Installation >10' To 15', Add</i>	3.17	
			<i>For Elevated Installation >15' To 20', Add</i>	6.34	
			<i>For Elevated Installation >20' To 25', Add</i>	7.92	
			<i>For Elevated Installation >25' To 30', Add</i>	11.09	
			<i>For Elevated Installation >30' To 35', Add</i>	12.67	
			<i>For Elevated Installation >35' To 40', Add</i>	15.84	
			<i>For Elevated Installation >40', Add</i>	17.42	
			<i>For Work In Restricted Working Space, Add</i>	9.50	
26 05 33 13-0832	LF		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	84.35	15.05
			<i>For >250 To 500, Deduct</i>	-3.28	
			<i>For >500 To 1,000, Deduct</i>	-5.39	
			<i>For >1,000, Deduct</i>	-7.49	
			<i>For Elevated Installation >10' To 15', Add</i>	3.76	
			<i>For Elevated Installation >15' To 20', Add</i>	7.53	
			<i>For Elevated Installation >20' To 25', Add</i>	9.41	
			<i>For Elevated Installation >25' To 30', Add</i>	13.17	
			<i>For Elevated Installation >30' To 35', Add</i>	15.05	
			<i>For Elevated Installation >35' To 40', Add</i>	18.82	
			<i>For Elevated Installation >40', Add</i>	20.70	
			<i>For Work In Restricted Working Space, Add</i>	11.29	
26 05 33 13-0833	LF		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	127.36	17.82
			<i>For >250 To 500, Deduct</i>	-5.25	
			<i>For >500 To 1,000, Deduct</i>	-8.44	
			<i>For >1,000, Deduct</i>	-11.62	
			<i>For Elevated Installation >10' To 15', Add</i>	4.46	
			<i>For Elevated Installation >15' To 20', Add</i>	8.91	
			<i>For Elevated Installation >20' To 25', Add</i>	11.14	
			<i>For Elevated Installation >25' To 30', Add</i>	15.60	
			<i>For Elevated Installation >30' To 35', Add</i>	17.82	
			<i>For Elevated Installation >35' To 40', Add</i>	22.28	
			<i>For Elevated Installation >40', Add</i>	24.51	
			<i>For Work In Restricted Working Space, Add</i>	13.37	
26 05 33 13-0834	LF		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	172.86	23.76
			<i>For >250 To 500, Deduct</i>	-7.16	
			<i>For >500 To 1,000, Deduct</i>	-11.48	
			<i>For >1,000, Deduct</i>	-15.80	
			<i>For Elevated Installation >10' To 15', Add</i>	5.94	
			<i>For Elevated Installation >15' To 20', Add</i>	11.88	
			<i>For Elevated Installation >20' To 25', Add</i>	14.85	
			<i>For Elevated Installation >25' To 30', Add</i>	20.79	
			<i>For Elevated Installation >30' To 35', Add</i>	23.76	
			<i>For Elevated Installation >35' To 40', Add</i>	29.70	
			<i>For Elevated Installation >40', Add</i>	32.67	
			<i>For Work In Restricted Working Space, Add</i>	17.82	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 05 33 13-0835			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings <small>(26 05 33 13-0821)</small>		
26 05 33 13-0836	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	17.82	5.94
			<i>For Elevated Installation >10' To 15', Add</i>	1.19	
			<i>For Elevated Installation >15' To 20', Add</i>	2.38	
			<i>For Elevated Installation >20' To 25', Add</i>	2.97	
			<i>For Elevated Installation >25' To 30', Add</i>	4.16	
			<i>For Elevated Installation >30' To 35', Add</i>	4.75	
			<i>For Elevated Installation >35' To 40', Add</i>	5.94	
			<i>For Elevated Installation >40', Add</i>	6.53	
			<i>For Work In Restricted Working Space, Add</i>	3.56	
26 05 33 13-0837	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	23.05	8.41
			<i>For Elevated Installation >10' To 15', Add</i>	1.68	
			<i>For Elevated Installation >15' To 20', Add</i>	3.37	
			<i>For Elevated Installation >20' To 25', Add</i>	4.21	
			<i>For Elevated Installation >25' To 30', Add</i>	5.89	
			<i>For Elevated Installation >30' To 35', Add</i>	6.73	
			<i>For Elevated Installation >35' To 40', Add</i>	8.42	
			<i>For Elevated Installation >40', Add</i>	9.26	
			<i>For Work In Restricted Working Space, Add</i>	5.05	
26 05 33 13-0838	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	29.86	10.89
			<i>For Elevated Installation >10' To 15', Add</i>	2.18	
			<i>For Elevated Installation >15' To 20', Add</i>	4.36	
			<i>For Elevated Installation >20' To 25', Add</i>	5.45	
			<i>For Elevated Installation >25' To 30', Add</i>	7.62	
			<i>For Elevated Installation >30' To 35', Add</i>	8.71	
			<i>For Elevated Installation >35' To 40', Add</i>	10.89	
			<i>For Elevated Installation >40', Add</i>	11.98	
			<i>For Work In Restricted Working Space, Add</i>	6.53	
26 05 33 13-0839	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	34.17	12.38
			<i>For Elevated Installation >10' To 15', Add</i>	2.48	
			<i>For Elevated Installation >15' To 20', Add</i>	4.95	
			<i>For Elevated Installation >20' To 25', Add</i>	6.19	
			<i>For Elevated Installation >25' To 30', Add</i>	8.66	
			<i>For Elevated Installation >30' To 35', Add</i>	9.90	
			<i>For Elevated Installation >35' To 40', Add</i>	12.38	
			<i>For Elevated Installation >40', Add</i>	13.61	
			<i>For Work In Restricted Working Space, Add</i>	7.43	
26 05 33 13-0840	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	40.90	14.85
			<i>For Elevated Installation >10' To 15', Add</i>	2.97	
			<i>For Elevated Installation >15' To 20', Add</i>	5.94	
			<i>For Elevated Installation >20' To 25', Add</i>	7.43	
			<i>For Elevated Installation >25' To 30', Add</i>	10.40	
			<i>For Elevated Installation >30' To 35', Add</i>	11.88	
			<i>For Elevated Installation >35' To 40', Add</i>	14.85	
			<i>For Elevated Installation >40', Add</i>	16.34	
			<i>For Work In Restricted Working Space, Add</i>	8.91	
26 05 33 13-0841	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	50.06	16.83
			<i>For Elevated Installation >10' To 15', Add</i>	3.37	
			<i>For Elevated Installation >15' To 20', Add</i>	6.73	
			<i>For Elevated Installation >20' To 25', Add</i>	8.42	
			<i>For Elevated Installation >25' To 30', Add</i>	11.78	
			<i>For Elevated Installation >30' To 35', Add</i>	13.47	
			<i>For Elevated Installation >35' To 40', Add</i>	16.84	
			<i>For Elevated Installation >40', Add</i>	18.52	
			<i>For Work In Restricted Working Space, Add</i>	10.10	
26 05 33 13-0842	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	78.20	16.83
			<i>For Elevated Installation >10' To 15', Add</i>	3.76	
			<i>For Elevated Installation >15' To 20', Add</i>	7.53	
			<i>For Elevated Installation >20' To 25', Add</i>	9.41	
			<i>For Elevated Installation >25' To 30', Add</i>	13.17	
			<i>For Elevated Installation >30' To 35', Add</i>	15.05	
			<i>For Elevated Installation >35' To 40', Add</i>	18.82	
			<i>For Elevated Installation >40', Add</i>	20.70	
			<i>For Work In Restricted Working Space, Add</i>	11.29	
26 05 33 13-0843	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	91.84	23.27
			<i>For Elevated Installation >10' To 15', Add</i>	4.26	
			<i>For Elevated Installation >15' To 20', Add</i>	8.51	
			<i>For Elevated Installation >20' To 25', Add</i>	10.64	
			<i>For Elevated Installation >25' To 30', Add</i>	14.90	
			<i>For Elevated Installation >30' To 35', Add</i>	17.03	
			<i>For Elevated Installation >35' To 40', Add</i>	21.29	
			<i>For Elevated Installation >40', Add</i>	23.41	
			<i>For Work In Restricted Working Space, Add</i>	12.77	
26 05 33 13-0844	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	109.74	23.27
			<i>For Elevated Installation >10' To 15', Add</i>	4.65	
			<i>For Elevated Installation >15' To 20', Add</i>	9.31	
			<i>For Elevated Installation >20' To 25', Add</i>	11.63	
			<i>For Elevated Installation >25' To 30', Add</i>	16.29	
			<i>For Elevated Installation >30' To 35', Add</i>	18.61	
			<i>For Elevated Installation >35' To 40', Add</i>	23.27	
			<i>For Elevated Installation >40', Add</i>	25.59	
			<i>For Work In Restricted Working Space, Add</i>	13.96	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0845	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	123.40	24.75
			<i>For Elevated Installation >10' To 15', Add</i>	4.95	
			<i>For Elevated Installation >15' To 20', Add</i>	9.90	
			<i>For Elevated Installation >20' To 25', Add</i>	12.38	
			<i>For Elevated Installation >25' To 30', Add</i>	17.33	
			<i>For Elevated Installation >30' To 35', Add</i>	19.80	
			<i>For Elevated Installation >35' To 40', Add</i>	24.75	
			<i>For Elevated Installation >40', Add</i>	27.23	
			<i>For Work In Restricted Working Space, Add</i>	14.85	
26 05 33 13-0846	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	300.22	29.70
			<i>For Elevated Installation >10' To 15', Add</i>	5.94	
			<i>For Elevated Installation >15' To 20', Add</i>	11.88	
			<i>For Elevated Installation >20' To 25', Add</i>	14.85	
			<i>For Elevated Installation >25' To 30', Add</i>	20.79	
			<i>For Elevated Installation >30' To 35', Add</i>	23.76	
			<i>For Elevated Installation >35' To 40', Add</i>	29.70	
			<i>For Elevated Installation >40', Add</i>	32.67	
			<i>For Work In Restricted Working Space, Add</i>	17.82	
26 05 33 13-0847	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	338.32	34.65
			<i>For Elevated Installation >10' To 15', Add</i>	6.93	
			<i>For Elevated Installation >15' To 20', Add</i>	13.86	
			<i>For Elevated Installation >20' To 25', Add</i>	17.33	
			<i>For Elevated Installation >25' To 30', Add</i>	24.26	
			<i>For Elevated Installation >30' To 35', Add</i>	27.72	
			<i>For Elevated Installation >35' To 40', Add</i>	34.66	
			<i>For Elevated Installation >40', Add</i>	38.12	
			<i>For Work In Restricted Working Space, Add</i>	20.79	
26 05 33 13-0848 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows <small>(26 05 33 13-0821)</small>					
Note: 90, 45, or 30 degree.					
26 05 33 13-0849	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	52.99	16.09
			<i>For Elevated Installation >10' To 15', Add</i>	3.22	
			<i>For Elevated Installation >15' To 20', Add</i>	6.44	
			<i>For Elevated Installation >20' To 25', Add</i>	8.05	
			<i>For Elevated Installation >25' To 30', Add</i>	11.26	
			<i>For Elevated Installation >30' To 35', Add</i>	12.87	
			<i>For Elevated Installation >35' To 40', Add</i>	16.09	
			<i>For Elevated Installation >40', Add</i>	17.70	
			<i>For Work In Restricted Working Space, Add</i>	9.65	
26 05 33 13-0850	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	61.51	19.95
			<i>For Elevated Installation >10' To 15', Add</i>	3.99	
			<i>For Elevated Installation >15' To 20', Add</i>	7.98	
			<i>For Elevated Installation >20' To 25', Add</i>	9.98	
			<i>For Elevated Installation >25' To 30', Add</i>	13.97	
			<i>For Elevated Installation >30' To 35', Add</i>	15.96	
			<i>For Elevated Installation >35' To 40', Add</i>	19.95	
			<i>For Elevated Installation >40', Add</i>	21.95	
			<i>For Work In Restricted Working Space, Add</i>	11.97	
26 05 33 13-0851	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	73.69	24.45
			<i>For Elevated Installation >10' To 15', Add</i>	4.89	
			<i>For Elevated Installation >15' To 20', Add</i>	9.78	
			<i>For Elevated Installation >20' To 25', Add</i>	12.23	
			<i>For Elevated Installation >25' To 30', Add</i>	17.12	
			<i>For Elevated Installation >30' To 35', Add</i>	19.56	
			<i>For Elevated Installation >35' To 40', Add</i>	24.46	
			<i>For Elevated Installation >40', Add</i>	26.90	
			<i>For Work In Restricted Working Space, Add</i>	14.67	
26 05 33 13-0852	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	87.08	28.32
			<i>For Elevated Installation >10' To 15', Add</i>	5.66	
			<i>For Elevated Installation >15' To 20', Add</i>	11.33	
			<i>For Elevated Installation >20' To 25', Add</i>	14.16	
			<i>For Elevated Installation >25' To 30', Add</i>	19.82	
			<i>For Elevated Installation >30' To 35', Add</i>	22.65	
			<i>For Elevated Installation >35' To 40', Add</i>	28.32	
			<i>For Elevated Installation >40', Add</i>	31.15	
			<i>For Work In Restricted Working Space, Add</i>	16.99	
26 05 33 13-0853	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	101.77	32.18
			<i>For Elevated Installation >10' To 15', Add</i>	6.44	
			<i>For Elevated Installation >15' To 20', Add</i>	12.87	
			<i>For Elevated Installation >20' To 25', Add</i>	16.09	
			<i>For Elevated Installation >25' To 30', Add</i>	22.52	
			<i>For Elevated Installation >30' To 35', Add</i>	25.74	
			<i>For Elevated Installation >35' To 40', Add</i>	32.18	
			<i>For Elevated Installation >40', Add</i>	35.39	
			<i>For Work In Restricted Working Space, Add</i>	19.31	
26 05 33 13-0854	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	123.02	35.39
			<i>For Elevated Installation >10' To 15', Add</i>	7.08	
			<i>For Elevated Installation >15' To 20', Add</i>	14.16	
			<i>For Elevated Installation >20' To 25', Add</i>	17.70	
			<i>For Elevated Installation >25' To 30', Add</i>	24.78	
			<i>For Elevated Installation >30' To 35', Add</i>	28.32	
			<i>For Elevated Installation >35' To 40', Add</i>	35.40	
			<i>For Elevated Installation >40', Add</i>	38.93	
			<i>For Work In Restricted Working Space, Add</i>	21.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0855 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	187.21	44.41
For Elevated Installation >10' To 15', Add	8.88	
For Elevated Installation >15' To 20', Add	17.76	
For Elevated Installation >20' To 25', Add	22.20	
For Elevated Installation >25' To 30', Add	31.08	
For Elevated Installation >30' To 35', Add	35.52	
For Elevated Installation >35' To 40', Add	44.41	
For Elevated Installation >40', Add	48.85	
For Work In Restricted Working Space, Add	26.64	
26 05 33 13-0856 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	278.21	60.49
For Elevated Installation >10' To 15', Add	12.10	
For Elevated Installation >15' To 20', Add	24.20	
For Elevated Installation >20' To 25', Add	30.25	
For Elevated Installation >25' To 30', Add	42.34	
For Elevated Installation >30' To 35', Add	48.39	
For Elevated Installation >35' To 40', Add	60.49	
For Elevated Installation >40', Add	66.54	
For Work In Restricted Working Space, Add	36.29	
26 05 33 13-0857 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	342.74	68.21
For Elevated Installation >10' To 15', Add	13.64	
For Elevated Installation >15' To 20', Add	27.29	
For Elevated Installation >20' To 25', Add	34.11	
For Elevated Installation >25' To 30', Add	47.75	
For Elevated Installation >30' To 35', Add	54.57	
For Elevated Installation >35' To 40', Add	68.22	
For Elevated Installation >40', Add	75.04	
For Work In Restricted Working Space, Add	40.93	
26 05 33 13-0858 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	395.70	88.81
For Elevated Installation >10' To 15', Add	17.76	
For Elevated Installation >15' To 20', Add	35.52	
For Elevated Installation >20' To 25', Add	44.40	
For Elevated Installation >25' To 30', Add	62.16	
For Elevated Installation >30' To 35', Add	71.04	
For Elevated Installation >35' To 40', Add	88.81	
For Elevated Installation >40', Add	97.69	
For Work In Restricted Working Space, Add	53.28	
26 05 33 13-0859 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	815.14	144.79
For Elevated Installation >10' To 15', Add	28.96	
For Elevated Installation >15' To 20', Add	57.92	
For Elevated Installation >20' To 25', Add	72.40	
For Elevated Installation >25' To 30', Add	101.36	
For Elevated Installation >30' To 35', Add	115.84	
For Elevated Installation >35' To 40', Add	144.80	
For Elevated Installation >40', Add	159.27	
For Work In Restricted Working Space, Add	86.88	
26 05 33 13-0860 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	1,279.80	217.52
For Elevated Installation >10' To 15', Add	43.50	
For Elevated Installation >15' To 20', Add	87.01	
For Elevated Installation >20' To 25', Add	108.76	
For Elevated Installation >25' To 30', Add	152.26	
For Elevated Installation >30' To 35', Add	174.01	
For Elevated Installation >35' To 40', Add	217.52	
For Elevated Installation >40', Add	239.27	
For Work In Restricted Working Space, Add	130.51	
26 05 33 13-0861 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows <small>(26 05 33 13-0861)</small>		
26 05 33 13-0862 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	122.74	24.45
For Elevated Installation >10' To 15', Add	4.89	
For Elevated Installation >15' To 20', Add	9.78	
For Elevated Installation >20' To 25', Add	12.23	
For Elevated Installation >25' To 30', Add	17.12	
For Elevated Installation >30' To 35', Add	19.56	
For Elevated Installation >35' To 40', Add	24.46	
For Elevated Installation >40', Add	26.90	
For Work In Restricted Working Space, Add	14.67	
26 05 33 13-0863 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	138.30	28.32
For Elevated Installation >10' To 15', Add	5.66	
For Elevated Installation >15' To 20', Add	11.33	
For Elevated Installation >20' To 25', Add	14.16	
For Elevated Installation >25' To 30', Add	19.82	
For Elevated Installation >30' To 35', Add	22.65	
For Elevated Installation >35' To 40', Add	28.32	
For Elevated Installation >40', Add	31.15	
For Work In Restricted Working Space, Add	16.99	
26 05 33 13-0864 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	157.84	32.18
For Elevated Installation >10' To 15', Add	6.44	
For Elevated Installation >15' To 20', Add	12.87	
For Elevated Installation >20' To 25', Add	16.09	
For Elevated Installation >25' To 30', Add	22.52	
For Elevated Installation >30' To 35', Add	25.74	
For Elevated Installation >35' To 40', Add	32.18	
For Elevated Installation >40', Add	35.39	
For Work In Restricted Working Space, Add	19.31	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0865 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	187.72	35.39
For Elevated Installation >10' To 15', Add	7.08	
For Elevated Installation >15' To 20', Add	14.16	
For Elevated Installation >20' To 25', Add	17.70	
For Elevated Installation >25' To 30', Add	24.78	
For Elevated Installation >30' To 35', Add	28.32	
For Elevated Installation >35' To 40', Add	35.40	
For Elevated Installation >40', Add	38.93	
For Work In Restricted Working Space, Add	21.24	
26 05 33 13-0866 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	260.44	44.41
For Elevated Installation >10' To 15', Add	8.88	
For Elevated Installation >15' To 20', Add	17.76	
For Elevated Installation >20' To 25', Add	22.20	
For Elevated Installation >25' To 30', Add	31.08	
For Elevated Installation >30' To 35', Add	35.52	
For Elevated Installation >35' To 40', Add	44.41	
For Elevated Installation >40', Add	48.85	
For Work In Restricted Working Space, Add	26.64	
26 05 33 13-0867 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows (26 05 33 13-0821)		
26 05 33 13-0868 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	136.01	24.45
For Elevated Installation >10' To 15', Add	4.89	
For Elevated Installation >15' To 20', Add	9.78	
For Elevated Installation >20' To 25', Add	12.23	
For Elevated Installation >25' To 30', Add	17.12	
For Elevated Installation >30' To 35', Add	19.56	
For Elevated Installation >35' To 40', Add	24.46	
For Elevated Installation >40', Add	26.90	
For Work In Restricted Working Space, Add	14.67	
26 05 33 13-0869 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	160.22	28.32
For Elevated Installation >10' To 15', Add	5.66	
For Elevated Installation >15' To 20', Add	11.33	
For Elevated Installation >20' To 25', Add	14.16	
For Elevated Installation >25' To 30', Add	19.82	
For Elevated Installation >30' To 35', Add	22.65	
For Elevated Installation >35' To 40', Add	28.32	
For Elevated Installation >40', Add	31.15	
For Work In Restricted Working Space, Add	16.99	
26 05 33 13-0870 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	173.56	32.18
For Elevated Installation >10' To 15', Add	6.44	
For Elevated Installation >15' To 20', Add	12.87	
For Elevated Installation >20' To 25', Add	16.09	
For Elevated Installation >25' To 30', Add	22.52	
For Elevated Installation >30' To 35', Add	25.74	
For Elevated Installation >35' To 40', Add	32.18	
For Elevated Installation >40', Add	35.39	
For Work In Restricted Working Space, Add	19.31	
26 05 33 13-0871 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	221.99	35.39
For Elevated Installation >10' To 15', Add	7.08	
For Elevated Installation >15' To 20', Add	14.16	
For Elevated Installation >20' To 25', Add	17.70	
For Elevated Installation >25' To 30', Add	24.78	
For Elevated Installation >30' To 35', Add	28.32	
For Elevated Installation >35' To 40', Add	35.40	
For Elevated Installation >40', Add	38.93	
For Work In Restricted Working Space, Add	21.24	
26 05 33 13-0872 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	293.48	44.41
For Elevated Installation >10' To 15', Add	8.88	
For Elevated Installation >15' To 20', Add	17.76	
For Elevated Installation >20' To 25', Add	22.20	
For Elevated Installation >25' To 30', Add	31.08	
For Elevated Installation >30' To 35', Add	35.52	
For Elevated Installation >35' To 40', Add	44.41	
For Elevated Installation >40', Add	48.85	
For Work In Restricted Working Space, Add	26.64	
26 05 33 13-0873 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	376.22	60.49
For Elevated Installation >10' To 15', Add	12.10	
For Elevated Installation >15' To 20', Add	24.20	
For Elevated Installation >20' To 25', Add	30.25	
For Elevated Installation >25' To 30', Add	42.34	
For Elevated Installation >30' To 35', Add	48.39	
For Elevated Installation >35' To 40', Add	60.49	
For Elevated Installation >40', Add	66.54	
For Work In Restricted Working Space, Add	36.29	

26 05 33 13-0874 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows (26 05 33 13-0821)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0875 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	151.87	24.45
<i>For Elevated Installation >10' To 15', Add</i>	4.89	
<i>For Elevated Installation >15' To 20', Add</i>	9.78	
<i>For Elevated Installation >20' To 25', Add</i>	12.23	
<i>For Elevated Installation >25' To 30', Add</i>	17.12	
<i>For Elevated Installation >30' To 35', Add</i>	19.56	
<i>For Elevated Installation >35' To 40', Add</i>	24.46	
<i>For Elevated Installation >40', Add</i>	26.90	
<i>For Work In Restricted Working Space, Add</i>	14.67	
26 05 33 13-0876 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	171.63	28.32
<i>For Elevated Installation >10' To 15', Add</i>	5.66	
<i>For Elevated Installation >15' To 20', Add</i>	11.33	
<i>For Elevated Installation >20' To 25', Add</i>	14.16	
<i>For Elevated Installation >25' To 30', Add</i>	19.82	
<i>For Elevated Installation >30' To 35', Add</i>	22.65	
<i>For Elevated Installation >35' To 40', Add</i>	28.32	
<i>For Elevated Installation >40', Add</i>	31.15	
<i>For Work In Restricted Working Space, Add</i>	16.99	
26 05 33 13-0877 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	193.73	32.18
<i>For Elevated Installation >10' To 15', Add</i>	6.44	
<i>For Elevated Installation >15' To 20', Add</i>	12.87	
<i>For Elevated Installation >20' To 25', Add</i>	16.09	
<i>For Elevated Installation >25' To 30', Add</i>	22.52	
<i>For Elevated Installation >30' To 35', Add</i>	25.74	
<i>For Elevated Installation >35' To 40', Add</i>	32.18	
<i>For Elevated Installation >40', Add</i>	35.39	
<i>For Work In Restricted Working Space, Add</i>	19.31	
26 05 33 13-0878 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	233.36	35.39
<i>For Elevated Installation >10' To 15', Add</i>	7.08	
<i>For Elevated Installation >15' To 20', Add</i>	14.16	
<i>For Elevated Installation >20' To 25', Add</i>	17.70	
<i>For Elevated Installation >25' To 30', Add</i>	24.78	
<i>For Elevated Installation >30' To 35', Add</i>	28.32	
<i>For Elevated Installation >35' To 40', Add</i>	35.40	
<i>For Elevated Installation >40', Add</i>	38.93	
<i>For Work In Restricted Working Space, Add</i>	21.24	
26 05 33 13-0879 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	331.46	44.41
<i>For Elevated Installation >10' To 15', Add</i>	8.88	
<i>For Elevated Installation >15' To 20', Add</i>	17.76	
<i>For Elevated Installation >20' To 25', Add</i>	22.20	
<i>For Elevated Installation >25' To 30', Add</i>	31.08	
<i>For Elevated Installation >30' To 35', Add</i>	35.52	
<i>For Elevated Installation >35' To 40', Add</i>	44.41	
<i>For Elevated Installation >40', Add</i>	48.85	
<i>For Work In Restricted Working Space, Add</i>	26.64	
26 05 33 13-0880 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	420.81	60.49
<i>For Elevated Installation >10' To 15', Add</i>	12.10	
<i>For Elevated Installation >15' To 20', Add</i>	24.20	
<i>For Elevated Installation >20' To 25', Add</i>	30.25	
<i>For Elevated Installation >25' To 30', Add</i>	42.34	
<i>For Elevated Installation >30' To 35', Add</i>	48.39	
<i>For Elevated Installation >35' To 40', Add</i>	60.49	
<i>For Elevated Installation >40', Add</i>	66.54	
<i>For Work In Restricted Working Space, Add</i>	36.29	
26 05 33 13-0881 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	529.46	68.21
<i>For Elevated Installation >10' To 15', Add</i>	13.64	
<i>For Elevated Installation >15' To 20', Add</i>	27.29	
<i>For Elevated Installation >20' To 25', Add</i>	34.11	
<i>For Elevated Installation >25' To 30', Add</i>	47.75	
<i>For Elevated Installation >30' To 35', Add</i>	54.57	
<i>For Elevated Installation >35' To 40', Add</i>	68.22	
<i>For Elevated Installation >40', Add</i>	75.04	
<i>For Work In Restricted Working Space, Add</i>	40.93	
26 05 33 13-0882 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	599.12	88.81
<i>For Elevated Installation >10' To 15', Add</i>	17.76	
<i>For Elevated Installation >15' To 20', Add</i>	35.52	
<i>For Elevated Installation >20' To 25', Add</i>	44.40	
<i>For Elevated Installation >25' To 30', Add</i>	62.16	
<i>For Elevated Installation >30' To 35', Add</i>	71.04	
<i>For Elevated Installation >35' To 40', Add</i>	88.81	
<i>For Elevated Installation >40', Add</i>	97.69	
<i>For Work In Restricted Working Space, Add</i>	53.28	
26 05 33 13-0883 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows <small>(26 05 33 13-0821)</small>		
26 05 33 13-0884 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	179.27	24.45
<i>For Elevated Installation >10' To 15', Add</i>	4.89	
<i>For Elevated Installation >15' To 20', Add</i>	9.78	
<i>For Elevated Installation >20' To 25', Add</i>	12.23	
<i>For Elevated Installation >25' To 30', Add</i>	17.12	
<i>For Elevated Installation >30' To 35', Add</i>	19.56	
<i>For Elevated Installation >35' To 40', Add</i>	24.46	
<i>For Elevated Installation >40', Add</i>	26.90	
<i>For Work In Restricted Working Space, Add</i>	14.67	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0885	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	198.43	28.32
			<i>For Elevated Installation >10' To 15', Add</i>	5.66	
			<i>For Elevated Installation >15' To 20', Add</i>	11.33	
			<i>For Elevated Installation >20' To 25', Add</i>	14.16	
			<i>For Elevated Installation >25' To 30', Add</i>	19.82	
			<i>For Elevated Installation >30' To 35', Add</i>	22.65	
			<i>For Elevated Installation >35' To 40', Add</i>	28.32	
			<i>For Elevated Installation >40', Add</i>	31.15	
			<i>For Work In Restricted Working Space, Add</i>	16.99	
26 05 33 13-0886	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	224.15	32.18
			<i>For Elevated Installation >10' To 15', Add</i>	6.44	
			<i>For Elevated Installation >15' To 20', Add</i>	12.87	
			<i>For Elevated Installation >20' To 25', Add</i>	16.09	
			<i>For Elevated Installation >25' To 30', Add</i>	22.52	
			<i>For Elevated Installation >30' To 35', Add</i>	25.74	
			<i>For Elevated Installation >35' To 40', Add</i>	32.18	
			<i>For Elevated Installation >40', Add</i>	35.39	
			<i>For Work In Restricted Working Space, Add</i>	19.31	
26 05 33 13-0887	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	277.17	35.39
			<i>For Elevated Installation >10' To 15', Add</i>	7.08	
			<i>For Elevated Installation >15' To 20', Add</i>	14.16	
			<i>For Elevated Installation >20' To 25', Add</i>	17.70	
			<i>For Elevated Installation >25' To 30', Add</i>	24.78	
			<i>For Elevated Installation >30' To 35', Add</i>	28.32	
			<i>For Elevated Installation >35' To 40', Add</i>	35.40	
			<i>For Elevated Installation >40', Add</i>	38.93	
			<i>For Work In Restricted Working Space, Add</i>	21.24	
26 05 33 13-0888	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	399.43	44.41
			<i>For Elevated Installation >10' To 15', Add</i>	8.88	
			<i>For Elevated Installation >15' To 20', Add</i>	17.76	
			<i>For Elevated Installation >20' To 25', Add</i>	22.20	
			<i>For Elevated Installation >25' To 30', Add</i>	31.08	
			<i>For Elevated Installation >30' To 35', Add</i>	35.52	
			<i>For Elevated Installation >35' To 40', Add</i>	44.41	
			<i>For Elevated Installation >40', Add</i>	48.85	
			<i>For Work In Restricted Working Space, Add</i>	26.64	
26 05 33 13-0889	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	496.34	60.49
			<i>For Elevated Installation >10' To 15', Add</i>	12.10	
			<i>For Elevated Installation >15' To 20', Add</i>	24.20	
			<i>For Elevated Installation >20' To 25', Add</i>	30.25	
			<i>For Elevated Installation >25' To 30', Add</i>	42.34	
			<i>For Elevated Installation >30' To 35', Add</i>	48.39	
			<i>For Elevated Installation >35' To 40', Add</i>	60.49	
			<i>For Elevated Installation >40', Add</i>	66.54	
			<i>For Work In Restricted Working Space, Add</i>	36.29	
26 05 33 13-0890	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	575.58	68.21
			<i>For Elevated Installation >10' To 15', Add</i>	13.64	
			<i>For Elevated Installation >15' To 20', Add</i>	27.29	
			<i>For Elevated Installation >20' To 25', Add</i>	34.11	
			<i>For Elevated Installation >25' To 30', Add</i>	47.75	
			<i>For Elevated Installation >30' To 35', Add</i>	54.57	
			<i>For Elevated Installation >35' To 40', Add</i>	68.22	
			<i>For Elevated Installation >40', Add</i>	75.04	
			<i>For Work In Restricted Working Space, Add</i>	40.93	
26 05 33 13-0891	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	683.79	88.81
			<i>For Elevated Installation >10' To 15', Add</i>	17.76	
			<i>For Elevated Installation >15' To 20', Add</i>	35.52	
			<i>For Elevated Installation >20' To 25', Add</i>	44.40	
			<i>For Elevated Installation >25' To 30', Add</i>	62.16	
			<i>For Elevated Installation >30' To 35', Add</i>	71.04	
			<i>For Elevated Installation >35' To 40', Add</i>	88.81	
			<i>For Elevated Installation >40', Add</i>	97.69	
			<i>For Work In Restricted Working Space, Add</i>	53.28	
26 05 33 13-0892			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows <small>(26 05 33 13-0821)</small>		
26 05 33 13-0893	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	200.59	24.45
			<i>For Elevated Installation >10' To 15', Add</i>	4.89	
			<i>For Elevated Installation >15' To 20', Add</i>	9.78	
			<i>For Elevated Installation >20' To 25', Add</i>	12.23	
			<i>For Elevated Installation >25' To 30', Add</i>	17.12	
			<i>For Elevated Installation >30' To 35', Add</i>	19.56	
			<i>For Elevated Installation >35' To 40', Add</i>	24.46	
			<i>For Elevated Installation >40', Add</i>	26.90	
			<i>For Work In Restricted Working Space, Add</i>	14.67	
26 05 33 13-0894	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	223.38	28.32
			<i>For Elevated Installation >10' To 15', Add</i>	5.66	
			<i>For Elevated Installation >15' To 20', Add</i>	11.33	
			<i>For Elevated Installation >20' To 25', Add</i>	14.16	
			<i>For Elevated Installation >25' To 30', Add</i>	19.82	
			<i>For Elevated Installation >30' To 35', Add</i>	22.65	
			<i>For Elevated Installation >35' To 40', Add</i>	28.32	
			<i>For Elevated Installation >40', Add</i>	31.15	
			<i>For Work In Restricted Working Space, Add</i>	16.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0895 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	254.10	32.18
<i>For Elevated Installation >10' To 15', Add</i>	6.44	
<i>For Elevated Installation >15' To 20', Add</i>	12.87	
<i>For Elevated Installation >20' To 25', Add</i>	16.09	
<i>For Elevated Installation >25' To 30', Add</i>	22.52	
<i>For Elevated Installation >30' To 35', Add</i>	25.74	
<i>For Elevated Installation >35' To 40', Add</i>	32.18	
<i>For Elevated Installation >40', Add</i>	35.39	
<i>For Work In Restricted Working Space, Add</i>	19.31	
26 05 33 13-0896 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	315.31	35.39
<i>For Elevated Installation >10' To 15', Add</i>	7.08	
<i>For Elevated Installation >15' To 20', Add</i>	14.16	
<i>For Elevated Installation >20' To 25', Add</i>	17.70	
<i>For Elevated Installation >25' To 30', Add</i>	24.78	
<i>For Elevated Installation >30' To 35', Add</i>	28.32	
<i>For Elevated Installation >35' To 40', Add</i>	35.40	
<i>For Elevated Installation >40', Add</i>	38.93	
<i>For Work In Restricted Working Space, Add</i>	21.24	
26 05 33 13-0897 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	436.51	44.41
<i>For Elevated Installation >10' To 15', Add</i>	8.88	
<i>For Elevated Installation >15' To 20', Add</i>	17.76	
<i>For Elevated Installation >20' To 25', Add</i>	22.20	
<i>For Elevated Installation >25' To 30', Add</i>	31.08	
<i>For Elevated Installation >30' To 35', Add</i>	35.52	
<i>For Elevated Installation >35' To 40', Add</i>	44.41	
<i>For Elevated Installation >40', Add</i>	48.85	
<i>For Work In Restricted Working Space, Add</i>	26.64	
26 05 33 13-0898 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	556.77	60.49
<i>For Elevated Installation >10' To 15', Add</i>	12.10	
<i>For Elevated Installation >15' To 20', Add</i>	24.20	
<i>For Elevated Installation >20' To 25', Add</i>	30.25	
<i>For Elevated Installation >25' To 30', Add</i>	42.34	
<i>For Elevated Installation >30' To 35', Add</i>	48.39	
<i>For Elevated Installation >35' To 40', Add</i>	60.49	
<i>For Elevated Installation >40', Add</i>	66.54	
<i>For Work In Restricted Working Space, Add</i>	36.29	
26 05 33 13-0899 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	687.72	68.21
<i>For Elevated Installation >10' To 15', Add</i>	13.64	
<i>For Elevated Installation >15' To 20', Add</i>	27.29	
<i>For Elevated Installation >20' To 25', Add</i>	34.11	
<i>For Elevated Installation >25' To 30', Add</i>	47.75	
<i>For Elevated Installation >30' To 35', Add</i>	54.57	
<i>For Elevated Installation >35' To 40', Add</i>	68.22	
<i>For Elevated Installation >40', Add</i>	75.04	
<i>For Work In Restricted Working Space, Add</i>	40.93	
26 05 33 13-0900 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	761.52	88.81
<i>For Elevated Installation >10' To 15', Add</i>	17.76	
<i>For Elevated Installation >15' To 20', Add</i>	35.52	
<i>For Elevated Installation >20' To 25', Add</i>	44.40	
<i>For Elevated Installation >25' To 30', Add</i>	62.16	
<i>For Elevated Installation >30' To 35', Add</i>	71.04	
<i>For Elevated Installation >35' To 40', Add</i>	88.81	
<i>For Elevated Installation >40', Add</i>	97.69	
<i>For Work In Restricted Working Space, Add</i>	53.28	
26 05 33 13-0901 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	1,268.91	144.79
<i>For Elevated Installation >10' To 15', Add</i>	28.96	
<i>For Elevated Installation >15' To 20', Add</i>	57.92	
<i>For Elevated Installation >20' To 25', Add</i>	72.40	
<i>For Elevated Installation >25' To 30', Add</i>	101.36	
<i>For Elevated Installation >30' To 35', Add</i>	115.84	
<i>For Elevated Installation >35' To 40', Add</i>	144.80	
<i>For Elevated Installation >40', Add</i>	159.27	
<i>For Work In Restricted Working Space, Add</i>	86.88	
26 05 33 13-0902 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows <small>(26 05 33 13-0821)</small>		
26 05 33 13-0903 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	228.47	24.45
<i>For Elevated Installation >10' To 15', Add</i>	4.89	
<i>For Elevated Installation >15' To 20', Add</i>	9.78	
<i>For Elevated Installation >20' To 25', Add</i>	12.23	
<i>For Elevated Installation >25' To 30', Add</i>	17.12	
<i>For Elevated Installation >30' To 35', Add</i>	19.56	
<i>For Elevated Installation >35' To 40', Add</i>	24.46	
<i>For Elevated Installation >40', Add</i>	26.90	
<i>For Work In Restricted Working Space, Add</i>	14.67	
26 05 33 13-0904 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	253.52	28.32
<i>For Elevated Installation >10' To 15', Add</i>	5.66	
<i>For Elevated Installation >15' To 20', Add</i>	11.33	
<i>For Elevated Installation >20' To 25', Add</i>	14.16	
<i>For Elevated Installation >25' To 30', Add</i>	19.82	
<i>For Elevated Installation >30' To 35', Add</i>	22.65	
<i>For Elevated Installation >35' To 40', Add</i>	28.32	
<i>For Elevated Installation >40', Add</i>	31.15	
<i>For Work In Restricted Working Space, Add</i>	16.99	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0905 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	286.93	32.18
For Elevated Installation >10' To 15', Add	6.44	
For Elevated Installation >15' To 20', Add	12.87	
For Elevated Installation >20' To 25', Add	16.09	
For Elevated Installation >25' To 30', Add	22.52	
For Elevated Installation >30' To 35', Add	25.74	
For Elevated Installation >35' To 40', Add	32.18	
For Elevated Installation >40', Add	35.39	
For Work In Restricted Working Space, Add	19.31	
26 05 33 13-0906 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	357.61	35.39
For Elevated Installation >10' To 15', Add	7.08	
For Elevated Installation >15' To 20', Add	14.16	
For Elevated Installation >20' To 25', Add	17.70	
For Elevated Installation >25' To 30', Add	24.78	
For Elevated Installation >30' To 35', Add	28.32	
For Elevated Installation >35' To 40', Add	35.40	
For Elevated Installation >40', Add	38.93	
For Work In Restricted Working Space, Add	21.24	
26 05 33 13-0907 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	498.30	44.41
For Elevated Installation >10' To 15', Add	8.88	
For Elevated Installation >15' To 20', Add	17.76	
For Elevated Installation >20' To 25', Add	22.20	
For Elevated Installation >25' To 30', Add	31.08	
For Elevated Installation >30' To 35', Add	35.52	
For Elevated Installation >35' To 40', Add	44.41	
For Elevated Installation >40', Add	48.85	
For Work In Restricted Working Space, Add	26.64	
26 05 33 13-0908 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	633.75	60.49
For Elevated Installation >10' To 15', Add	12.10	
For Elevated Installation >15' To 20', Add	24.20	
For Elevated Installation >20' To 25', Add	30.25	
For Elevated Installation >25' To 30', Add	42.34	
For Elevated Installation >30' To 35', Add	48.39	
For Elevated Installation >35' To 40', Add	60.49	
For Elevated Installation >40', Add	66.54	
For Work In Restricted Working Space, Add	36.29	
26 05 33 13-0909 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	743.92	68.21
For Elevated Installation >10' To 15', Add	13.64	
For Elevated Installation >15' To 20', Add	27.29	
For Elevated Installation >20' To 25', Add	34.11	
For Elevated Installation >25' To 30', Add	47.75	
For Elevated Installation >30' To 35', Add	54.57	
For Elevated Installation >35' To 40', Add	68.22	
For Elevated Installation >40', Add	75.04	
For Work In Restricted Working Space, Add	40.93	
26 05 33 13-0910 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	861.86	88.81
For Elevated Installation >10' To 15', Add	17.76	
For Elevated Installation >15' To 20', Add	35.52	
For Elevated Installation >20' To 25', Add	44.40	
For Elevated Installation >25' To 30', Add	62.16	
For Elevated Installation >30' To 35', Add	71.04	
For Elevated Installation >35' To 40', Add	88.81	
For Elevated Installation >40', Add	97.69	
For Work In Restricted Working Space, Add	53.28	
26 05 33 13-0911 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	1,339.23	144.79
For Elevated Installation >10' To 15', Add	28.96	
For Elevated Installation >15' To 20', Add	57.92	
For Elevated Installation >20' To 25', Add	72.40	
For Elevated Installation >25' To 30', Add	101.36	
For Elevated Installation >30' To 35', Add	115.84	
For Elevated Installation >35' To 40', Add	144.80	
For Elevated Installation >40', Add	159.27	
For Work In Restricted Working Space, Add	86.88	
26 05 33 13-0912 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	1,835.47	217.52
For Elevated Installation >10' To 15', Add	43.50	
For Elevated Installation >15' To 20', Add	87.01	
For Elevated Installation >20' To 25', Add	108.76	
For Elevated Installation >25' To 30', Add	152.26	
For Elevated Installation >30' To 35', Add	174.01	
For Elevated Installation >35' To 40', Add	217.52	
For Elevated Installation >40', Add	239.27	
For Work In Restricted Working Space, Add	130.51	
26 05 33 13-0913 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows		
(26 05 33 13-0821)		
26 05 33 13-0914 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	267.28	24.45
For Elevated Installation >10' To 15', Add	4.89	
For Elevated Installation >15' To 20', Add	9.78	
For Elevated Installation >20' To 25', Add	12.23	
For Elevated Installation >25' To 30', Add	17.12	
For Elevated Installation >30' To 35', Add	19.56	
For Elevated Installation >35' To 40', Add	24.46	
For Elevated Installation >40', Add	26.90	
For Work In Restricted Working Space, Add	14.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0915 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	280.39	28.32
For Elevated Installation >10' To 15', Add	5.66	
For Elevated Installation >15' To 20', Add	11.33	
For Elevated Installation >20' To 25', Add	14.16	
For Elevated Installation >25' To 30', Add	19.82	
For Elevated Installation >30' To 35', Add	22.65	
For Elevated Installation >35' To 40', Add	28.32	
For Elevated Installation >40', Add	31.15	
For Work In Restricted Working Space, Add	16.99	
26 05 33 13-0916 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	330.86	32.18
For Elevated Installation >10' To 15', Add	6.44	
For Elevated Installation >15' To 20', Add	12.87	
For Elevated Installation >20' To 25', Add	16.09	
For Elevated Installation >25' To 30', Add	22.52	
For Elevated Installation >30' To 35', Add	25.74	
For Elevated Installation >35' To 40', Add	32.18	
For Elevated Installation >40', Add	35.39	
For Work In Restricted Working Space, Add	19.31	
26 05 33 13-0917 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	416.50	35.39
For Elevated Installation >10' To 15', Add	7.08	
For Elevated Installation >15' To 20', Add	14.16	
For Elevated Installation >20' To 25', Add	17.70	
For Elevated Installation >25' To 30', Add	24.78	
For Elevated Installation >30' To 35', Add	28.32	
For Elevated Installation >35' To 40', Add	35.40	
For Elevated Installation >40', Add	38.93	
For Work In Restricted Working Space, Add	21.24	
26 05 33 13-0918 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	581.63	44.41
For Elevated Installation >10' To 15', Add	8.88	
For Elevated Installation >15' To 20', Add	17.76	
For Elevated Installation >20' To 25', Add	22.20	
For Elevated Installation >25' To 30', Add	31.08	
For Elevated Installation >30' To 35', Add	35.52	
For Elevated Installation >35' To 40', Add	44.41	
For Elevated Installation >40', Add	48.85	
For Work In Restricted Working Space, Add	26.64	
26 05 33 13-0919 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	737.53	60.49
For Elevated Installation >10' To 15', Add	12.10	
For Elevated Installation >15' To 20', Add	24.20	
For Elevated Installation >20' To 25', Add	30.25	
For Elevated Installation >25' To 30', Add	42.34	
For Elevated Installation >30' To 35', Add	48.39	
For Elevated Installation >35' To 40', Add	60.49	
For Elevated Installation >40', Add	66.54	
For Work In Restricted Working Space, Add	36.29	
26 05 33 13-0920 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	900.14	68.21
For Elevated Installation >10' To 15', Add	13.64	
For Elevated Installation >15' To 20', Add	27.29	
For Elevated Installation >20' To 25', Add	34.11	
For Elevated Installation >25' To 30', Add	47.75	
For Elevated Installation >30' To 35', Add	54.57	
For Elevated Installation >35' To 40', Add	68.22	
For Elevated Installation >40', Add	75.04	
For Work In Restricted Working Space, Add	40.93	
26 05 33 13-0921 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	1,057.07	88.81
For Elevated Installation >10' To 15', Add	17.76	
For Elevated Installation >15' To 20', Add	35.52	
For Elevated Installation >20' To 25', Add	44.40	
For Elevated Installation >25' To 30', Add	62.16	
For Elevated Installation >30' To 35', Add	71.04	
For Elevated Installation >35' To 40', Add	88.81	
For Elevated Installation >40', Add	97.69	
For Work In Restricted Working Space, Add	53.28	
26 05 33 13-0922 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	1,568.61	144.79
For Elevated Installation >10' To 15', Add	28.96	
For Elevated Installation >15' To 20', Add	57.92	
For Elevated Installation >20' To 25', Add	72.40	
For Elevated Installation >25' To 30', Add	101.36	
For Elevated Installation >30' To 35', Add	115.84	
For Elevated Installation >35' To 40', Add	144.80	
For Elevated Installation >40', Add	159.27	
For Work In Restricted Working Space, Add	86.88	
26 05 33 13-0923 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	1,940.77	217.52
For Elevated Installation >10' To 15', Add	43.50	
For Elevated Installation >15' To 20', Add	87.01	
For Elevated Installation >20' To 25', Add	108.76	
For Elevated Installation >25' To 30', Add	152.26	
For Elevated Installation >30' To 35', Add	174.01	
For Elevated Installation >35' To 40', Add	217.52	
For Elevated Installation >40', Add	239.27	
For Work In Restricted Working Space, Add	130.51	
26 05 33 13-0924 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows (26 05 33 13-0921)		

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0925	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	276.63	24.45
			<i>For Elevated Installation >10' To 15', Add</i>	4.89	
			<i>For Elevated Installation >15' To 20', Add</i>	9.78	
			<i>For Elevated Installation >20' To 25', Add</i>	12.23	
			<i>For Elevated Installation >25' To 30', Add</i>	17.12	
			<i>For Elevated Installation >30' To 35', Add</i>	19.56	
			<i>For Elevated Installation >35' To 40', Add</i>	24.46	
			<i>For Elevated Installation >40', Add</i>	26.90	
			<i>For Work In Restricted Working Space, Add</i>	14.67	
26 05 33	13-0926	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	325.84	28.32
			<i>For Elevated Installation >10' To 15', Add</i>	5.66	
			<i>For Elevated Installation >15' To 20', Add</i>	11.33	
			<i>For Elevated Installation >20' To 25', Add</i>	14.16	
			<i>For Elevated Installation >25' To 30', Add</i>	19.82	
			<i>For Elevated Installation >30' To 35', Add</i>	22.65	
			<i>For Elevated Installation >35' To 40', Add</i>	28.32	
			<i>For Elevated Installation >40', Add</i>	31.15	
			<i>For Work In Restricted Working Space, Add</i>	16.99	
26 05 33	13-0927	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	368.86	32.18
			<i>For Elevated Installation >10' To 15', Add</i>	6.44	
			<i>For Elevated Installation >15' To 20', Add</i>	12.87	
			<i>For Elevated Installation >20' To 25', Add</i>	16.09	
			<i>For Elevated Installation >25' To 30', Add</i>	22.52	
			<i>For Elevated Installation >30' To 35', Add</i>	25.74	
			<i>For Elevated Installation >35' To 40', Add</i>	32.18	
			<i>For Elevated Installation >40', Add</i>	35.39	
			<i>For Work In Restricted Working Space, Add</i>	19.31	
26 05 33	13-0928	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	434.21	35.39
			<i>For Elevated Installation >10' To 15', Add</i>	7.08	
			<i>For Elevated Installation >15' To 20', Add</i>	14.16	
			<i>For Elevated Installation >20' To 25', Add</i>	17.70	
			<i>For Elevated Installation >25' To 30', Add</i>	24.78	
			<i>For Elevated Installation >30' To 35', Add</i>	28.32	
			<i>For Elevated Installation >35' To 40', Add</i>	35.40	
			<i>For Elevated Installation >40', Add</i>	38.93	
			<i>For Work In Restricted Working Space, Add</i>	21.24	
26 05 33	13-0929	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	602.44	44.41
			<i>For Elevated Installation >10' To 15', Add</i>	8.88	
			<i>For Elevated Installation >15' To 20', Add</i>	17.76	
			<i>For Elevated Installation >20' To 25', Add</i>	22.20	
			<i>For Elevated Installation >25' To 30', Add</i>	31.08	
			<i>For Elevated Installation >30' To 35', Add</i>	35.52	
			<i>For Elevated Installation >35' To 40', Add</i>	44.41	
			<i>For Elevated Installation >40', Add</i>	48.85	
			<i>For Work In Restricted Working Space, Add</i>	26.64	
26 05 33	13-0930	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	769.44	60.49
			<i>For Elevated Installation >10' To 15', Add</i>	12.10	
			<i>For Elevated Installation >15' To 20', Add</i>	24.20	
			<i>For Elevated Installation >20' To 25', Add</i>	30.25	
			<i>For Elevated Installation >25' To 30', Add</i>	42.34	
			<i>For Elevated Installation >30' To 35', Add</i>	48.39	
			<i>For Elevated Installation >35' To 40', Add</i>	60.49	
			<i>For Elevated Installation >40', Add</i>	66.54	
			<i>For Work In Restricted Working Space, Add</i>	36.29	
26 05 33	13-0931	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	985.22	68.21
			<i>For Elevated Installation >10' To 15', Add</i>	13.64	
			<i>For Elevated Installation >15' To 20', Add</i>	27.29	
			<i>For Elevated Installation >20' To 25', Add</i>	34.11	
			<i>For Elevated Installation >25' To 30', Add</i>	47.75	
			<i>For Elevated Installation >30' To 35', Add</i>	54.57	
			<i>For Elevated Installation >35' To 40', Add</i>	68.22	
			<i>For Elevated Installation >40', Add</i>	75.04	
			<i>For Work In Restricted Working Space, Add</i>	40.93	
26 05 33	13-0932	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	1,101.34	88.81
			<i>For Elevated Installation >10' To 15', Add</i>	17.76	
			<i>For Elevated Installation >15' To 20', Add</i>	35.52	
			<i>For Elevated Installation >20' To 25', Add</i>	44.40	
			<i>For Elevated Installation >25' To 30', Add</i>	62.16	
			<i>For Elevated Installation >30' To 35', Add</i>	71.04	
			<i>For Elevated Installation >35' To 40', Add</i>	88.81	
			<i>For Elevated Installation >40', Add</i>	97.69	
			<i>For Work In Restricted Working Space, Add</i>	53.28	
26 05 33	13-0933	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	1,630.24	144.79
			<i>For Elevated Installation >10' To 15', Add</i>	28.96	
			<i>For Elevated Installation >15' To 20', Add</i>	57.92	
			<i>For Elevated Installation >20' To 25', Add</i>	72.40	
			<i>For Elevated Installation >25' To 30', Add</i>	101.36	
			<i>For Elevated Installation >30' To 35', Add</i>	115.84	
			<i>For Elevated Installation >35' To 40', Add</i>	144.80	
			<i>For Elevated Installation >40', Add</i>	159.27	
			<i>For Work In Restricted Working Space, Add</i>	86.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0934 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,994.27	217.52
<i>For Elevated Installation >10' To 15', Add</i>	43.50	
<i>For Elevated Installation >15' To 20', Add</i>	87.01	
<i>For Elevated Installation >20' To 25', Add</i>	108.76	
<i>For Elevated Installation >25' To 30', Add</i>	152.26	
<i>For Elevated Installation >30' To 35', Add</i>	174.01	
<i>For Elevated Installation >35' To 40', Add</i>	217.52	
<i>For Elevated Installation >40', Add</i>	239.27	
<i>For Work In Restricted Working Space, Add</i>	130.51	
26 05 33 13-0935 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fittings <small>(26 05 33 13-0821)</small>		
26 05 33 13-0936 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	102.17	16.09
<i>For Elevated Installation >10' To 15', Add</i>	3.22	
<i>For Elevated Installation >15' To 20', Add</i>	6.44	
<i>For Elevated Installation >20' To 25', Add</i>	8.05	
<i>For Elevated Installation >25' To 30', Add</i>	11.26	
<i>For Elevated Installation >30' To 35', Add</i>	12.87	
<i>For Elevated Installation >35' To 40', Add</i>	16.09	
<i>For Elevated Installation >40', Add</i>	17.70	
<i>For Work In Restricted Working Space, Add</i>	9.65	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.65	
26 05 33 13-0937 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	125.00	21.24
<i>For Elevated Installation >10' To 15', Add</i>	4.25	
<i>For Elevated Installation >15' To 20', Add</i>	8.49	
<i>For Elevated Installation >20' To 25', Add</i>	10.62	
<i>For Elevated Installation >25' To 30', Add</i>	14.86	
<i>For Elevated Installation >30' To 35', Add</i>	16.99	
<i>For Elevated Installation >35' To 40', Add</i>	21.24	
<i>For Elevated Installation >40', Add</i>	23.36	
<i>For Work In Restricted Working Space, Add</i>	12.74	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.74	
26 05 33 13-0938 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	166.77	24.45
<i>For Elevated Installation >10' To 15', Add</i>	4.89	
<i>For Elevated Installation >15' To 20', Add</i>	9.78	
<i>For Elevated Installation >20' To 25', Add</i>	12.23	
<i>For Elevated Installation >25' To 30', Add</i>	17.12	
<i>For Elevated Installation >30' To 35', Add</i>	19.56	
<i>For Elevated Installation >35' To 40', Add</i>	24.46	
<i>For Elevated Installation >40', Add</i>	26.90	
<i>For Work In Restricted Working Space, Add</i>	14.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.67	
26 05 33 13-0939 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	274.26	28.32
<i>For Elevated Installation >10' To 15', Add</i>	5.66	
<i>For Elevated Installation >15' To 20', Add</i>	11.33	
<i>For Elevated Installation >20' To 25', Add</i>	14.16	
<i>For Elevated Installation >25' To 30', Add</i>	19.82	
<i>For Elevated Installation >30' To 35', Add</i>	22.65	
<i>For Elevated Installation >35' To 40', Add</i>	28.32	
<i>For Elevated Installation >40', Add</i>	31.15	
<i>For Work In Restricted Working Space, Add</i>	16.99	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.99	
26 05 33 13-0940 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	302.79	32.18
<i>For Elevated Installation >10' To 15', Add</i>	6.44	
<i>For Elevated Installation >15' To 20', Add</i>	12.87	
<i>For Elevated Installation >20' To 25', Add</i>	16.09	
<i>For Elevated Installation >25' To 30', Add</i>	22.52	
<i>For Elevated Installation >30' To 35', Add</i>	25.74	
<i>For Elevated Installation >35' To 40', Add</i>	32.18	
<i>For Elevated Installation >40', Add</i>	35.39	
<i>For Work In Restricted Working Space, Add</i>	19.31	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.31	
26 05 33 13-0941 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	382.75	35.39
<i>For Elevated Installation >10' To 15', Add</i>	7.08	
<i>For Elevated Installation >15' To 20', Add</i>	14.16	
<i>For Elevated Installation >20' To 25', Add</i>	17.70	
<i>For Elevated Installation >25' To 30', Add</i>	24.78	
<i>For Elevated Installation >30' To 35', Add</i>	28.32	
<i>For Elevated Installation >35' To 40', Add</i>	35.40	
<i>For Elevated Installation >40', Add</i>	38.93	
<i>For Work In Restricted Working Space, Add</i>	21.24	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.24	
26 05 33 13-0942 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	1,044.42	44.41
<i>For Elevated Installation >10' To 15', Add</i>	8.88	
<i>For Elevated Installation >15' To 20', Add</i>	17.76	
<i>For Elevated Installation >20' To 25', Add</i>	22.20	
<i>For Elevated Installation >25' To 30', Add</i>	31.08	
<i>For Elevated Installation >30' To 35', Add</i>	35.52	
<i>For Elevated Installation >35' To 40', Add</i>	44.40	
<i>For Elevated Installation >40', Add</i>	48.84	
<i>For Work In Restricted Working Space, Add</i>	26.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.64	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0943	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	1,246.34	60.49
			<i>For Elevated Installation >10' To 15', Add</i>	12.10	
			<i>For Elevated Installation >15' To 20', Add</i>	24.20	
			<i>For Elevated Installation >20' To 25', Add</i>	30.25	
			<i>For Elevated Installation >25' To 30', Add</i>	42.35	
			<i>For Elevated Installation >30' To 35', Add</i>	48.40	
			<i>For Elevated Installation >35' To 40', Add</i>	60.50	
			<i>For Elevated Installation >40', Add</i>	66.54	
			<i>For Work In Restricted Working Space, Add</i>	36.30	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.30	
26 05 33 13-0944	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	1,655.74	88.81
			<i>For Elevated Installation >10' To 15', Add</i>	17.76	
			<i>For Elevated Installation >15' To 20', Add</i>	35.52	
			<i>For Elevated Installation >20' To 25', Add</i>	44.40	
			<i>For Elevated Installation >25' To 30', Add</i>	62.16	
			<i>For Elevated Installation >30' To 35', Add</i>	71.04	
			<i>For Elevated Installation >35' To 40', Add</i>	88.80	
			<i>For Elevated Installation >40', Add</i>	97.68	
			<i>For Work In Restricted Working Space, Add</i>	53.28	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.28	
26 05 33 13-0945 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fittings					
26 05 33 13-0946	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	97.91	16.09
			<i>For Elevated Installation >10' To 15', Add</i>	3.22	
			<i>For Elevated Installation >15' To 20', Add</i>	6.44	
			<i>For Elevated Installation >20' To 25', Add</i>	8.05	
			<i>For Elevated Installation >25' To 30', Add</i>	11.26	
			<i>For Elevated Installation >30' To 35', Add</i>	12.87	
			<i>For Elevated Installation >35' To 40', Add</i>	16.09	
			<i>For Elevated Installation >40', Add</i>	17.70	
			<i>For Work In Restricted Working Space, Add</i>	9.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.65	
26 05 33 13-0947	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	120.20	21.24
			<i>For Elevated Installation >10' To 15', Add</i>	4.25	
			<i>For Elevated Installation >15' To 20', Add</i>	8.49	
			<i>For Elevated Installation >20' To 25', Add</i>	10.62	
			<i>For Elevated Installation >25' To 30', Add</i>	14.86	
			<i>For Elevated Installation >30' To 35', Add</i>	16.99	
			<i>For Elevated Installation >35' To 40', Add</i>	21.24	
			<i>For Elevated Installation >40', Add</i>	23.36	
			<i>For Work In Restricted Working Space, Add</i>	12.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.74	
26 05 33 13-0948	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	166.77	24.45
			<i>For Elevated Installation >10' To 15', Add</i>	4.89	
			<i>For Elevated Installation >15' To 20', Add</i>	9.78	
			<i>For Elevated Installation >20' To 25', Add</i>	12.23	
			<i>For Elevated Installation >25' To 30', Add</i>	17.12	
			<i>For Elevated Installation >30' To 35', Add</i>	19.56	
			<i>For Elevated Installation >35' To 40', Add</i>	24.46	
			<i>For Elevated Installation >40', Add</i>	26.90	
			<i>For Work In Restricted Working Space, Add</i>	14.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.67	
26 05 33 13-0949	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	271.78	28.32
			<i>For Elevated Installation >10' To 15', Add</i>	5.66	
			<i>For Elevated Installation >15' To 20', Add</i>	11.33	
			<i>For Elevated Installation >20' To 25', Add</i>	14.16	
			<i>For Elevated Installation >25' To 30', Add</i>	19.82	
			<i>For Elevated Installation >30' To 35', Add</i>	22.65	
			<i>For Elevated Installation >35' To 40', Add</i>	28.32	
			<i>For Elevated Installation >40', Add</i>	31.15	
			<i>For Work In Restricted Working Space, Add</i>	16.99	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.99	
26 05 33 13-0950	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	292.82	32.18
			<i>For Elevated Installation >10' To 15', Add</i>	6.44	
			<i>For Elevated Installation >15' To 20', Add</i>	12.87	
			<i>For Elevated Installation >20' To 25', Add</i>	16.09	
			<i>For Elevated Installation >25' To 30', Add</i>	22.52	
			<i>For Elevated Installation >30' To 35', Add</i>	25.74	
			<i>For Elevated Installation >35' To 40', Add</i>	32.18	
			<i>For Elevated Installation >40', Add</i>	35.39	
			<i>For Work In Restricted Working Space, Add</i>	19.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.31	
26 05 33 13-0951	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	382.87	35.39
			<i>For Elevated Installation >10' To 15', Add</i>	7.08	
			<i>For Elevated Installation >15' To 20', Add</i>	14.16	
			<i>For Elevated Installation >20' To 25', Add</i>	17.70	
			<i>For Elevated Installation >25' To 30', Add</i>	24.78	
			<i>For Elevated Installation >30' To 35', Add</i>	28.32	
			<i>For Elevated Installation >35' To 40', Add</i>	35.40	
			<i>For Elevated Installation >40', Add</i>	38.93	
			<i>For Work In Restricted Working Space, Add</i>	21.24	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0952 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	1,001.85	44.41
<i>For Elevated Installation >10' To 15', Add</i>	8.88	
<i>For Elevated Installation >15' To 20', Add</i>	17.76	
<i>For Elevated Installation >20' To 25', Add</i>	22.20	
<i>For Elevated Installation >25' To 30', Add</i>	31.08	
<i>For Elevated Installation >30' To 35', Add</i>	35.52	
<i>For Elevated Installation >35' To 40', Add</i>	44.40	
<i>For Elevated Installation >40', Add</i>	48.84	
<i>For Work In Restricted Working Space, Add</i>	26.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.64	
26 05 33 13-0953 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	1,215.29	60.49
<i>For Elevated Installation >10' To 15', Add</i>	12.10	
<i>For Elevated Installation >15' To 20', Add</i>	24.20	
<i>For Elevated Installation >20' To 25', Add</i>	30.25	
<i>For Elevated Installation >25' To 30', Add</i>	42.35	
<i>For Elevated Installation >30' To 35', Add</i>	48.40	
<i>For Elevated Installation >35' To 40', Add</i>	60.50	
<i>For Elevated Installation >40', Add</i>	66.54	
<i>For Work In Restricted Working Space, Add</i>	36.30	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.30	
26 05 33 13-0954 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	1,655.67	88.81
<i>For Elevated Installation >10' To 15', Add</i>	17.76	
<i>For Elevated Installation >15' To 20', Add</i>	35.52	
<i>For Elevated Installation >20' To 25', Add</i>	44.40	
<i>For Elevated Installation >25' To 30', Add</i>	62.16	
<i>For Elevated Installation >30' To 35', Add</i>	71.04	
<i>For Elevated Installation >35' To 40', Add</i>	88.80	
<i>For Elevated Installation >40', Add</i>	97.68	
<i>For Work In Restricted Working Space, Add</i>	53.28	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.28	
26 05 33 13-0955 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fittings <small>(26 05 33 13-0821)</small>		
26 05 33 13-0956 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	88.49	16.09
<i>For Elevated Installation >10' To 15', Add</i>	3.22	
<i>For Elevated Installation >15' To 20', Add</i>	6.44	
<i>For Elevated Installation >20' To 25', Add</i>	8.05	
<i>For Elevated Installation >25' To 30', Add</i>	11.26	
<i>For Elevated Installation >30' To 35', Add</i>	12.87	
<i>For Elevated Installation >35' To 40', Add</i>	16.09	
<i>For Elevated Installation >40', Add</i>	17.70	
<i>For Work In Restricted Working Space, Add</i>	9.65	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.65	
26 05 33 13-0957 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	105.90	21.24
<i>For Elevated Installation >10' To 15', Add</i>	4.25	
<i>For Elevated Installation >15' To 20', Add</i>	8.49	
<i>For Elevated Installation >20' To 25', Add</i>	10.62	
<i>For Elevated Installation >25' To 30', Add</i>	14.86	
<i>For Elevated Installation >30' To 35', Add</i>	16.99	
<i>For Elevated Installation >35' To 40', Add</i>	21.24	
<i>For Elevated Installation >40', Add</i>	23.36	
<i>For Work In Restricted Working Space, Add</i>	12.74	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.74	
26 05 33 13-0958 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	124.98	24.45
<i>For Elevated Installation >10' To 15', Add</i>	4.89	
<i>For Elevated Installation >15' To 20', Add</i>	9.78	
<i>For Elevated Installation >20' To 25', Add</i>	12.23	
<i>For Elevated Installation >25' To 30', Add</i>	17.12	
<i>For Elevated Installation >30' To 35', Add</i>	19.56	
<i>For Elevated Installation >35' To 40', Add</i>	24.46	
<i>For Elevated Installation >40', Add</i>	26.90	
<i>For Work In Restricted Working Space, Add</i>	14.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.67	
26 05 33 13-0959 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	177.74	28.32
<i>For Elevated Installation >10' To 15', Add</i>	5.66	
<i>For Elevated Installation >15' To 20', Add</i>	11.33	
<i>For Elevated Installation >20' To 25', Add</i>	14.16	
<i>For Elevated Installation >25' To 30', Add</i>	19.82	
<i>For Elevated Installation >30' To 35', Add</i>	22.65	
<i>For Elevated Installation >35' To 40', Add</i>	28.32	
<i>For Elevated Installation >40', Add</i>	31.15	
<i>For Work In Restricted Working Space, Add</i>	16.99	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.99	
26 05 33 13-0960 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	207.64	32.18
<i>For Elevated Installation >10' To 15', Add</i>	6.44	
<i>For Elevated Installation >15' To 20', Add</i>	12.87	
<i>For Elevated Installation >20' To 25', Add</i>	16.09	
<i>For Elevated Installation >25' To 30', Add</i>	22.52	
<i>For Elevated Installation >30' To 35', Add</i>	25.74	
<i>For Elevated Installation >35' To 40', Add</i>	32.18	
<i>For Elevated Installation >40', Add</i>	35.39	
<i>For Work In Restricted Working Space, Add</i>	19.31	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.31	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0961	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fitting 321.32	321.32	35.39
			<i>For Elevated Installation >10' To 15', Add</i>	7.08	
			<i>For Elevated Installation >15' To 20', Add</i>	14.16	
			<i>For Elevated Installation >20' To 25', Add</i>	17.70	
			<i>For Elevated Installation >25' To 30', Add</i>	24.78	
			<i>For Elevated Installation >30' To 35', Add</i>	28.32	
			<i>For Elevated Installation >35' To 40', Add</i>	35.40	
			<i>For Elevated Installation >40', Add</i>	38.93	
			<i>For Work In Restricted Working Space, Add</i>	21.24	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.24	
26 05 33 13-0962	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fitting 883.32	883.32	44.41
			<i>For Elevated Installation >10' To 15', Add</i>	8.88	
			<i>For Elevated Installation >15' To 20', Add</i>	17.76	
			<i>For Elevated Installation >20' To 25', Add</i>	22.20	
			<i>For Elevated Installation >25' To 30', Add</i>	31.08	
			<i>For Elevated Installation >30' To 35', Add</i>	35.52	
			<i>For Elevated Installation >35' To 40', Add</i>	44.40	
			<i>For Elevated Installation >40', Add</i>	48.84	
			<i>For Work In Restricted Working Space, Add</i>	26.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.64	
26 05 33 13-0963	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fitting 993.88	993.88	60.49
			<i>For Elevated Installation >10' To 15', Add</i>	12.10	
			<i>For Elevated Installation >15' To 20', Add</i>	24.20	
			<i>For Elevated Installation >20' To 25', Add</i>	30.25	
			<i>For Elevated Installation >25' To 30', Add</i>	42.35	
			<i>For Elevated Installation >30' To 35', Add</i>	48.40	
			<i>For Elevated Installation >35' To 40', Add</i>	60.50	
			<i>For Elevated Installation >40', Add</i>	66.54	
			<i>For Work In Restricted Working Space, Add</i>	36.30	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.30	
26 05 33 13-0964	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fitting 1,268.82	1,268.82	88.81
			<i>For Elevated Installation >10' To 15', Add</i>	17.76	
			<i>For Elevated Installation >15' To 20', Add</i>	35.52	
			<i>For Elevated Installation >20' To 25', Add</i>	44.40	
			<i>For Elevated Installation >25' To 30', Add</i>	62.16	
			<i>For Elevated Installation >30' To 35', Add</i>	71.04	
			<i>For Elevated Installation >35' To 40', Add</i>	88.80	
			<i>For Elevated Installation >40', Add</i>	97.68	
			<i>For Work In Restricted Working Space, Add</i>	53.28	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.28	
26 05 33 13-0965			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealight Fittings <small>(26 05 33 13-0961)</small>		
26 05 33 13-0966	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealight Fitting 151.51	151.51	16.09
			<i>For Elevated Installation >10' To 15', Add</i>	3.22	
			<i>For Elevated Installation >15' To 20', Add</i>	6.44	
			<i>For Elevated Installation >20' To 25', Add</i>	8.05	
			<i>For Elevated Installation >25' To 30', Add</i>	11.26	
			<i>For Elevated Installation >30' To 35', Add</i>	12.87	
			<i>For Elevated Installation >35' To 40', Add</i>	16.09	
			<i>For Elevated Installation >40', Add</i>	17.70	
			<i>For Work In Restricted Working Space, Add</i>	9.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.65	
26 05 33 13-0967	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealight Fitting 228.45	228.45	21.24
			<i>For Elevated Installation >10' To 15', Add</i>	4.25	
			<i>For Elevated Installation >15' To 20', Add</i>	8.49	
			<i>For Elevated Installation >20' To 25', Add</i>	10.62	
			<i>For Elevated Installation >25' To 30', Add</i>	14.86	
			<i>For Elevated Installation >30' To 35', Add</i>	16.99	
			<i>For Elevated Installation >35' To 40', Add</i>	21.24	
			<i>For Elevated Installation >40', Add</i>	23.36	
			<i>For Work In Restricted Working Space, Add</i>	12.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.74	
26 05 33 13-0968	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealight Fitting 287.28	287.28	24.45
			<i>For Elevated Installation >10' To 15', Add</i>	4.89	
			<i>For Elevated Installation >15' To 20', Add</i>	9.78	
			<i>For Elevated Installation >20' To 25', Add</i>	12.23	
			<i>For Elevated Installation >25' To 30', Add</i>	17.12	
			<i>For Elevated Installation >30' To 35', Add</i>	19.56	
			<i>For Elevated Installation >35' To 40', Add</i>	24.46	
			<i>For Elevated Installation >40', Add</i>	26.90	
			<i>For Work In Restricted Working Space, Add</i>	14.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0969 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealight Fitting.....	331.60	28.32
<i>For Elevated Installation >10' To 15', Add</i>	5.66	
<i>For Elevated Installation >15' To 20', Add</i>	11.33	
<i>For Elevated Installation >20' To 25', Add</i>	14.16	
<i>For Elevated Installation >25' To 30', Add</i>	19.82	
<i>For Elevated Installation >30' To 35', Add</i>	22.65	
<i>For Elevated Installation >35' To 40', Add</i>	28.32	
<i>For Elevated Installation >40', Add</i>	31.15	
<i>For Work In Restricted Working Space, Add</i>	16.99	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.99	
26 05 33 13-0970 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealight Fitting.....	376.60	32.18
<i>For Elevated Installation >10' To 15', Add</i>	6.44	
<i>For Elevated Installation >15' To 20', Add</i>	12.87	
<i>For Elevated Installation >20' To 25', Add</i>	16.09	
<i>For Elevated Installation >25' To 30', Add</i>	22.52	
<i>For Elevated Installation >30' To 35', Add</i>	25.74	
<i>For Elevated Installation >35' To 40', Add</i>	32.18	
<i>For Elevated Installation >40', Add</i>	35.39	
<i>For Work In Restricted Working Space, Add</i>	19.31	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.31	
26 05 33 13-0971 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealight Fitting.....	495.86	35.39
<i>For Elevated Installation >10' To 15', Add</i>	7.08	
<i>For Elevated Installation >15' To 20', Add</i>	14.16	
<i>For Elevated Installation >20' To 25', Add</i>	17.70	
<i>For Elevated Installation >25' To 30', Add</i>	24.78	
<i>For Elevated Installation >30' To 35', Add</i>	28.32	
<i>For Elevated Installation >35' To 40', Add</i>	35.40	
<i>For Elevated Installation >40', Add</i>	38.93	
<i>For Work In Restricted Working Space, Add</i>	21.24	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.24	
26 05 33 13-0972 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealight Fitting.....	1,562.55	44.41
<i>For Elevated Installation >10' To 15', Add</i>	8.88	
<i>For Elevated Installation >15' To 20', Add</i>	17.76	
<i>For Elevated Installation >20' To 25', Add</i>	22.20	
<i>For Elevated Installation >25' To 30', Add</i>	31.08	
<i>For Elevated Installation >30' To 35', Add</i>	35.52	
<i>For Elevated Installation >35' To 40', Add</i>	44.40	
<i>For Elevated Installation >40', Add</i>	48.84	
<i>For Work In Restricted Working Space, Add</i>	26.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.64	
26 05 33 13-0973 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealight Fitting.....	1,824.19	60.49
<i>For Elevated Installation >10' To 15', Add</i>	12.10	
<i>For Elevated Installation >15' To 20', Add</i>	24.20	
<i>For Elevated Installation >20' To 25', Add</i>	30.25	
<i>For Elevated Installation >25' To 30', Add</i>	42.35	
<i>For Elevated Installation >30' To 35', Add</i>	48.40	
<i>For Elevated Installation >35' To 40', Add</i>	60.50	
<i>For Elevated Installation >40', Add</i>	66.54	
<i>For Work In Restricted Working Space, Add</i>	36.30	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.30	
26 05 33 13-0974 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealight Fitting.....	2,242.39	88.81
<i>For Elevated Installation >10' To 15', Add</i>	17.76	
<i>For Elevated Installation >15' To 20', Add</i>	35.52	
<i>For Elevated Installation >20' To 25', Add</i>	44.40	
<i>For Elevated Installation >25' To 30', Add</i>	62.16	
<i>For Elevated Installation >30' To 35', Add</i>	71.04	
<i>For Elevated Installation >35' To 40', Add</i>	88.80	
<i>For Elevated Installation >40', Add</i>	97.68	
<i>For Work In Restricted Working Space, Add</i>	53.28	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.28	
26 05 33 13-0975 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fittings <small>(26 05 33 13-0921)</small>		
26 05 33 13-0976 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting.....	168.24	16.09
<i>For Elevated Installation >10' To 15', Add</i>	3.22	
<i>For Elevated Installation >15' To 20', Add</i>	6.44	
<i>For Elevated Installation >20' To 25', Add</i>	8.05	
<i>For Elevated Installation >25' To 30', Add</i>	11.26	
<i>For Elevated Installation >30' To 35', Add</i>	12.87	
<i>For Elevated Installation >35' To 40', Add</i>	16.09	
<i>For Elevated Installation >40', Add</i>	17.70	
<i>For Work In Restricted Working Space, Add</i>	9.65	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.65	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0977	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	244.24	21.24
			<i>For Elevated Installation >10' To 15', Add</i>	4.25	
			<i>For Elevated Installation >15' To 20', Add</i>	8.49	
			<i>For Elevated Installation >20' To 25', Add</i>	10.62	
			<i>For Elevated Installation >25' To 30', Add</i>	14.86	
			<i>For Elevated Installation >30' To 35', Add</i>	16.99	
			<i>For Elevated Installation >35' To 40', Add</i>	21.24	
			<i>For Elevated Installation >40', Add</i>	23.36	
			<i>For Work In Restricted Working Space, Add</i>	12.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.74	
26 05 33 13-0978	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	290.28	24.45
			<i>For Elevated Installation >10' To 15', Add</i>	4.89	
			<i>For Elevated Installation >15' To 20', Add</i>	9.78	
			<i>For Elevated Installation >20' To 25', Add</i>	12.23	
			<i>For Elevated Installation >25' To 30', Add</i>	17.12	
			<i>For Elevated Installation >30' To 35', Add</i>	19.56	
			<i>For Elevated Installation >35' To 40', Add</i>	24.46	
			<i>For Elevated Installation >40', Add</i>	26.90	
			<i>For Work In Restricted Working Space, Add</i>	14.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.67	
26 05 33 13-0979	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	336.55	28.32
			<i>For Elevated Installation >10' To 15', Add</i>	5.66	
			<i>For Elevated Installation >15' To 20', Add</i>	11.33	
			<i>For Elevated Installation >20' To 25', Add</i>	14.16	
			<i>For Elevated Installation >25' To 30', Add</i>	19.82	
			<i>For Elevated Installation >30' To 35', Add</i>	22.65	
			<i>For Elevated Installation >35' To 40', Add</i>	28.32	
			<i>For Elevated Installation >40', Add</i>	31.15	
			<i>For Work In Restricted Working Space, Add</i>	16.99	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.99	
26 05 33 13-0980	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	390.18	32.18
			<i>For Elevated Installation >10' To 15', Add</i>	6.44	
			<i>For Elevated Installation >15' To 20', Add</i>	12.87	
			<i>For Elevated Installation >20' To 25', Add</i>	16.09	
			<i>For Elevated Installation >25' To 30', Add</i>	22.52	
			<i>For Elevated Installation >30' To 35', Add</i>	25.74	
			<i>For Elevated Installation >35' To 40', Add</i>	32.18	
			<i>For Elevated Installation >40', Add</i>	35.39	
			<i>For Work In Restricted Working Space, Add</i>	19.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.31	
26 05 33 13-0981	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	615.21	35.39
			<i>For Elevated Installation >10' To 15', Add</i>	7.08	
			<i>For Elevated Installation >15' To 20', Add</i>	14.16	
			<i>For Elevated Installation >20' To 25', Add</i>	17.70	
			<i>For Elevated Installation >25' To 30', Add</i>	24.78	
			<i>For Elevated Installation >30' To 35', Add</i>	28.32	
			<i>For Elevated Installation >35' To 40', Add</i>	35.40	
			<i>For Elevated Installation >40', Add</i>	38.93	
			<i>For Work In Restricted Working Space, Add</i>	21.24	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.24	
26 05 33 13-0982	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	1,742.63	44.41
			<i>For Elevated Installation >10' To 15', Add</i>	8.88	
			<i>For Elevated Installation >15' To 20', Add</i>	17.76	
			<i>For Elevated Installation >20' To 25', Add</i>	22.20	
			<i>For Elevated Installation >25' To 30', Add</i>	31.08	
			<i>For Elevated Installation >30' To 35', Add</i>	35.52	
			<i>For Elevated Installation >35' To 40', Add</i>	44.40	
			<i>For Elevated Installation >40', Add</i>	48.84	
			<i>For Work In Restricted Working Space, Add</i>	26.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.64	
26 05 33 13-0983	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	2,452.92	60.49
			<i>For Elevated Installation >10' To 15', Add</i>	12.10	
			<i>For Elevated Installation >15' To 20', Add</i>	24.20	
			<i>For Elevated Installation >20' To 25', Add</i>	30.25	
			<i>For Elevated Installation >25' To 30', Add</i>	42.35	
			<i>For Elevated Installation >30' To 35', Add</i>	48.40	
			<i>For Elevated Installation >35' To 40', Add</i>	60.50	
			<i>For Elevated Installation >40', Add</i>	66.54	
			<i>For Work In Restricted Working Space, Add</i>	36.30	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0984 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting.....	2,560.68	88.81
<i>For Elevated Installation >10' To 15', Add</i>	17.76	
<i>For Elevated Installation >15' To 20', Add</i>	35.52	
<i>For Elevated Installation >20' To 25', Add</i>	44.40	
<i>For Elevated Installation >25' To 30', Add</i>	62.16	
<i>For Elevated Installation >30' To 35', Add</i>	71.04	
<i>For Elevated Installation >35' To 40', Add</i>	88.80	
<i>For Elevated Installation >40', Add</i>	97.68	
<i>For Work In Restricted Working Space, Add</i>	53.28	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.28	
 26 05 33 13-0985 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fittings <small>(26 05 33 13-0821)</small>		
26 05 33 13-0986 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	133.08	16.09
<i>For Elevated Installation >10' To 15', Add</i>	3.22	
<i>For Elevated Installation >15' To 20', Add</i>	6.44	
<i>For Elevated Installation >20' To 25', Add</i>	8.05	
<i>For Elevated Installation >25' To 30', Add</i>	11.26	
<i>For Elevated Installation >30' To 35', Add</i>	12.87	
<i>For Elevated Installation >35' To 40', Add</i>	16.09	
<i>For Elevated Installation >40', Add</i>	17.70	
<i>For Work In Restricted Working Space, Add</i>	9.65	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.65	
26 05 33 13-0987 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	167.88	21.24
<i>For Elevated Installation >10' To 15', Add</i>	4.25	
<i>For Elevated Installation >15' To 20', Add</i>	8.49	
<i>For Elevated Installation >20' To 25', Add</i>	10.62	
<i>For Elevated Installation >25' To 30', Add</i>	14.86	
<i>For Elevated Installation >30' To 35', Add</i>	16.99	
<i>For Elevated Installation >35' To 40', Add</i>	21.24	
<i>For Elevated Installation >40', Add</i>	23.36	
<i>For Work In Restricted Working Space, Add</i>	12.74	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.74	
26 05 33 13-0988 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	201.17	24.45
<i>For Elevated Installation >10' To 15', Add</i>	4.89	
<i>For Elevated Installation >15' To 20', Add</i>	9.78	
<i>For Elevated Installation >20' To 25', Add</i>	12.23	
<i>For Elevated Installation >25' To 30', Add</i>	17.12	
<i>For Elevated Installation >30' To 35', Add</i>	19.56	
<i>For Elevated Installation >35' To 40', Add</i>	24.46	
<i>For Elevated Installation >40', Add</i>	26.90	
<i>For Work In Restricted Working Space, Add</i>	14.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.67	
26 05 33 13-0989 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	222.87	28.32
<i>For Elevated Installation >10' To 15', Add</i>	5.66	
<i>For Elevated Installation >15' To 20', Add</i>	11.33	
<i>For Elevated Installation >20' To 25', Add</i>	14.16	
<i>For Elevated Installation >25' To 30', Add</i>	19.82	
<i>For Elevated Installation >30' To 35', Add</i>	22.65	
<i>For Elevated Installation >35' To 40', Add</i>	28.32	
<i>For Elevated Installation >40', Add</i>	31.15	
<i>For Work In Restricted Working Space, Add</i>	16.99	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.99	
26 05 33 13-0990 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	300.29	32.18
<i>For Elevated Installation >10' To 15', Add</i>	6.44	
<i>For Elevated Installation >15' To 20', Add</i>	12.87	
<i>For Elevated Installation >20' To 25', Add</i>	16.09	
<i>For Elevated Installation >25' To 30', Add</i>	22.52	
<i>For Elevated Installation >30' To 35', Add</i>	25.74	
<i>For Elevated Installation >35' To 40', Add</i>	32.18	
<i>For Elevated Installation >40', Add</i>	35.39	
<i>For Work In Restricted Working Space, Add</i>	19.31	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.31	
26 05 33 13-0991 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	424.72	35.39
<i>For Elevated Installation >10' To 15', Add</i>	7.08	
<i>For Elevated Installation >15' To 20', Add</i>	14.16	
<i>For Elevated Installation >20' To 25', Add</i>	17.70	
<i>For Elevated Installation >25' To 30', Add</i>	24.78	
<i>For Elevated Installation >30' To 35', Add</i>	28.32	
<i>For Elevated Installation >35' To 40', Add</i>	35.40	
<i>For Elevated Installation >40', Add</i>	38.93	
<i>For Work In Restricted Working Space, Add</i>	21.24	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.24	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0992	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	1,413.39	44.41
			<i>For Elevated Installation >10' To 15', Add</i>	8.88	
			<i>For Elevated Installation >15' To 20', Add</i>	17.76	
			<i>For Elevated Installation >20' To 25', Add</i>	22.20	
			<i>For Elevated Installation >25' To 30', Add</i>	31.08	
			<i>For Elevated Installation >30' To 35', Add</i>	35.52	
			<i>For Elevated Installation >35' To 40', Add</i>	44.40	
			<i>For Elevated Installation >40', Add</i>	48.84	
			<i>For Work In Restricted Working Space, Add</i>	26.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.64	
26 05 33 13-0993	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	1,590.96	60.49
			<i>For Elevated Installation >10' To 15', Add</i>	12.10	
			<i>For Elevated Installation >15' To 20', Add</i>	24.20	
			<i>For Elevated Installation >20' To 25', Add</i>	30.25	
			<i>For Elevated Installation >25' To 30', Add</i>	42.35	
			<i>For Elevated Installation >30' To 35', Add</i>	48.40	
			<i>For Elevated Installation >35' To 40', Add</i>	60.50	
			<i>For Elevated Installation >40', Add</i>	66.54	
			<i>For Work In Restricted Working Space, Add</i>	36.30	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.30	
26 05 33 13-0994	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	1,890.24	88.81
			<i>For Elevated Installation >10' To 15', Add</i>	17.76	
			<i>For Elevated Installation >15' To 20', Add</i>	35.52	
			<i>For Elevated Installation >20' To 25', Add</i>	44.40	
			<i>For Elevated Installation >25' To 30', Add</i>	62.16	
			<i>For Elevated Installation >30' To 35', Add</i>	71.04	
			<i>For Elevated Installation >35' To 40', Add</i>	88.80	
			<i>For Elevated Installation >40', Add</i>	97.68	
			<i>For Work In Restricted Working Space, Add</i>	53.28	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.28	
26 05 33 13-0995			Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <small>(26 05 33 13-0821)</small>		
			Note: Suitable for use in hazardous locations. Class 1, Div 2.		
26 05 33 13-0996	EA		1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	120.07	30.89
			<i>For Elevated Installation >10' To 15', Add</i>	6.18	
			<i>For Elevated Installation >15' To 20', Add</i>	12.36	
			<i>For Elevated Installation >20' To 25', Add</i>	15.45	
			<i>For Elevated Installation >25' To 30', Add</i>	21.63	
			<i>For Elevated Installation >30' To 35', Add</i>	24.72	
			<i>For Elevated Installation >35' To 40', Add</i>	30.90	
			<i>For Elevated Installation >40', Add</i>	33.98	
			<i>For Work In Restricted Working Space, Add</i>	18.54	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.54	
26 05 33 13-0997	EA		3/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	135.41	35.39
			<i>For Elevated Installation >10' To 15', Add</i>	7.08	
			<i>For Elevated Installation >15' To 20', Add</i>	14.16	
			<i>For Elevated Installation >20' To 25', Add</i>	17.70	
			<i>For Elevated Installation >25' To 30', Add</i>	24.77	
			<i>For Elevated Installation >30' To 35', Add</i>	28.31	
			<i>For Elevated Installation >35' To 40', Add</i>	35.39	
			<i>For Elevated Installation >40', Add</i>	38.93	
			<i>For Work In Restricted Working Space, Add</i>	21.23	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.23	
26 05 33 13-0998	EA		1" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	167.56	40.55
			<i>For Elevated Installation >10' To 15', Add</i>	8.11	
			<i>For Elevated Installation >15' To 20', Add</i>	16.22	
			<i>For Elevated Installation >20' To 25', Add</i>	20.27	
			<i>For Elevated Installation >25' To 30', Add</i>	28.38	
			<i>For Elevated Installation >30' To 35', Add</i>	32.44	
			<i>For Elevated Installation >35' To 40', Add</i>	40.55	
			<i>For Elevated Installation >40', Add</i>	44.60	
			<i>For Work In Restricted Working Space, Add</i>	24.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.33	
26 05 33 13-0999	EA		1-1/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	219.49	46.97
			<i>For Elevated Installation >10' To 15', Add</i>	9.40	
			<i>For Elevated Installation >15' To 20', Add</i>	18.79	
			<i>For Elevated Installation >20' To 25', Add</i>	23.49	
			<i>For Elevated Installation >25' To 30', Add</i>	32.89	
			<i>For Elevated Installation >30' To 35', Add</i>	37.58	
			<i>For Elevated Installation >35' To 40', Add</i>	46.98	
			<i>For Elevated Installation >40', Add</i>	51.68	
			<i>For Work In Restricted Working Space, Add</i>	28.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1000 EA 1-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	256.25	51.49
<i>For Elevated Installation >10' To 15', Add</i>	10.30	
<i>For Elevated Installation >15' To 20', Add</i>	20.59	
<i>For Elevated Installation >20' To 25', Add</i>	25.74	
<i>For Elevated Installation >25' To 30', Add</i>	36.04	
<i>For Elevated Installation >30' To 35', Add</i>	41.18	
<i>For Elevated Installation >35' To 40', Add</i>	51.48	
<i>For Elevated Installation >40', Add</i>	56.63	
<i>For Work In Restricted Working Space, Add</i>	30.89	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.89	
26 05 33 13-1001 EA 2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	349.55	61.78
<i>For Elevated Installation >10' To 15', Add</i>	12.36	
<i>For Elevated Installation >15' To 20', Add</i>	24.71	
<i>For Elevated Installation >20' To 25', Add</i>	30.89	
<i>For Elevated Installation >25' To 30', Add</i>	43.25	
<i>For Elevated Installation >30' To 35', Add</i>	49.42	
<i>For Elevated Installation >35' To 40', Add</i>	61.78	
<i>For Elevated Installation >40', Add</i>	67.96	
<i>For Work In Restricted Working Space, Add</i>	37.07	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.07	
26 05 33 13-1002 EA 2-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	588.49	86.88
<i>For Elevated Installation >10' To 15', Add</i>	17.38	
<i>For Elevated Installation >15' To 20', Add</i>	34.75	
<i>For Elevated Installation >20' To 25', Add</i>	43.44	
<i>For Elevated Installation >25' To 30', Add</i>	60.82	
<i>For Elevated Installation >30' To 35', Add</i>	69.50	
<i>For Elevated Installation >35' To 40', Add</i>	86.88	
<i>For Elevated Installation >40', Add</i>	95.57	
<i>For Work In Restricted Working Space, Add</i>	52.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.13	
26 05 33 13-1003 EA 3" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	753.39	115.84
<i>For Elevated Installation >10' To 15', Add</i>	23.17	
<i>For Elevated Installation >15' To 20', Add</i>	46.34	
<i>For Elevated Installation >20' To 25', Add</i>	57.92	
<i>For Elevated Installation >25' To 30', Add</i>	81.09	
<i>For Elevated Installation >30' To 35', Add</i>	92.67	
<i>For Elevated Installation >35' To 40', Add</i>	115.84	
<i>For Elevated Installation >40', Add</i>	127.42	
<i>For Work In Restricted Working Space, Add</i>	69.50	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.50	
26 05 33 13-1004 EA 3-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	1,047.58	144.79
<i>For Elevated Installation >10' To 15', Add</i>	28.96	
<i>For Elevated Installation >15' To 20', Add</i>	57.92	
<i>For Elevated Installation >20' To 25', Add</i>	72.40	
<i>For Elevated Installation >25' To 30', Add</i>	101.36	
<i>For Elevated Installation >30' To 35', Add</i>	115.84	
<i>For Elevated Installation >35' To 40', Add</i>	144.80	
<i>For Elevated Installation >40', Add</i>	159.27	
<i>For Work In Restricted Working Space, Add</i>	86.88	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.88	
26 05 33 13-1005 EA 4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	1,202.31	176.33
<i>For Elevated Installation >10' To 15', Add</i>	35.27	
<i>For Elevated Installation >15' To 20', Add</i>	70.53	
<i>For Elevated Installation >20' To 25', Add</i>	88.17	
<i>For Elevated Installation >25' To 30', Add</i>	123.43	
<i>For Elevated Installation >30' To 35', Add</i>	141.06	
<i>For Elevated Installation >35' To 40', Add</i>	176.33	
<i>For Elevated Installation >40', Add</i>	193.96	
<i>For Work In Restricted Working Space, Add</i>	105.80	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	105.80	
26 05 33 13-1006 Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <small>(26 05 33 13-0821)</small>		
Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-1007 EA 1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	156.86	40.55
<i>For Elevated Installation >10' To 15', Add</i>	8.11	
<i>For Elevated Installation >15' To 20', Add</i>	16.22	
<i>For Elevated Installation >20' To 25', Add</i>	20.27	
<i>For Elevated Installation >25' To 30', Add</i>	28.38	
<i>For Elevated Installation >30' To 35', Add</i>	32.43	
<i>For Elevated Installation >35' To 40', Add</i>	40.54	
<i>For Elevated Installation >40', Add</i>	44.59	
<i>For Work In Restricted Working Space, Add</i>	24.32	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.32	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1008	EA	3/4"	Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 178.83		45.05
			<i>For Elevated Installation >10' To 15', Add</i>	9.01	
			<i>For Elevated Installation >15' To 20', Add</i>	18.02	
			<i>For Elevated Installation >20' To 25', Add</i>	22.53	
			<i>For Elevated Installation >25' To 30', Add</i>	31.54	
			<i>For Elevated Installation >30' To 35', Add</i>	36.04	
			<i>For Elevated Installation >35' To 40', Add</i>	45.05	
			<i>For Elevated Installation >40', Add</i>	49.56	
			<i>For Work In Restricted Working Space, Add</i>	27.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.03	
26 05 33 13-1009	EA	1"	Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 218.62		49.55
			<i>For Elevated Installation >10' To 15', Add</i>	9.91	
			<i>For Elevated Installation >15' To 20', Add</i>	19.82	
			<i>For Elevated Installation >20' To 25', Add</i>	24.78	
			<i>For Elevated Installation >25' To 30', Add</i>	34.69	
			<i>For Elevated Installation >30' To 35', Add</i>	39.64	
			<i>For Elevated Installation >35' To 40', Add</i>	49.55	
			<i>For Elevated Installation >40', Add</i>	54.51	
			<i>For Work In Restricted Working Space, Add</i>	29.73	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.73	
26 05 33 13-1010	EA	1-1/4"	Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 294.36		56.63
			<i>For Elevated Installation >10' To 15', Add</i>	11.33	
			<i>For Elevated Installation >15' To 20', Add</i>	22.65	
			<i>For Elevated Installation >20' To 25', Add</i>	28.32	
			<i>For Elevated Installation >25' To 30', Add</i>	39.64	
			<i>For Elevated Installation >30' To 35', Add</i>	45.30	
			<i>For Elevated Installation >35' To 40', Add</i>	56.63	
			<i>For Elevated Installation >40', Add</i>	62.29	
			<i>For Work In Restricted Working Space, Add</i>	33.98	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.98	
26 05 33 13-1011	EA	1-1/2"	Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 348.04		61.78
			<i>For Elevated Installation >10' To 15', Add</i>	12.36	
			<i>For Elevated Installation >15' To 20', Add</i>	24.71	
			<i>For Elevated Installation >20' To 25', Add</i>	30.89	
			<i>For Elevated Installation >25' To 30', Add</i>	43.25	
			<i>For Elevated Installation >30' To 35', Add</i>	49.42	
			<i>For Elevated Installation >35' To 40', Add</i>	61.78	
			<i>For Elevated Installation >40', Add</i>	67.96	
			<i>For Work In Restricted Working Space, Add</i>	37.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.07	
26 05 33 13-1012	EA	2"	Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 474.31		75.94
			<i>For Elevated Installation >10' To 15', Add</i>	15.19	
			<i>For Elevated Installation >15' To 20', Add</i>	30.37	
			<i>For Elevated Installation >20' To 25', Add</i>	37.97	
			<i>For Elevated Installation >25' To 30', Add</i>	53.15	
			<i>For Elevated Installation >30' To 35', Add</i>	60.75	
			<i>For Elevated Installation >35' To 40', Add</i>	75.94	
			<i>For Elevated Installation >40', Add</i>	83.53	
			<i>For Work In Restricted Working Space, Add</i>	45.56	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.56	
26 05 33 13-1013			Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <small>(26 05 33 13-0821)</small>		
			Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-1014	EA	1/2"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 138.06		35.39
			<i>For Elevated Installation >10' To 15', Add</i>	7.08	
			<i>For Elevated Installation >15' To 20', Add</i>	14.16	
			<i>For Elevated Installation >20' To 25', Add</i>	17.70	
			<i>For Elevated Installation >25' To 30', Add</i>	24.78	
			<i>For Elevated Installation >30' To 35', Add</i>	28.32	
			<i>For Elevated Installation >35' To 40', Add</i>	35.40	
			<i>For Elevated Installation >40', Add</i>	38.93	
			<i>For Work In Restricted Working Space, Add</i>	21.24	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.24	
26 05 33 13-1015	EA	3/4"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 157.50		41.19
			<i>For Elevated Installation >10' To 15', Add</i>	8.24	
			<i>For Elevated Installation >15' To 20', Add</i>	16.47	
			<i>For Elevated Installation >20' To 25', Add</i>	20.59	
			<i>For Elevated Installation >25' To 30', Add</i>	28.83	
			<i>For Elevated Installation >30' To 35', Add</i>	32.95	
			<i>For Elevated Installation >35' To 40', Add</i>	41.19	
			<i>For Elevated Installation >40', Add</i>	45.30	
			<i>For Work In Restricted Working Space, Add</i>	24.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.71	
26 05 33 13-1016	EA	1"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 190.75		45.05
			<i>For Elevated Installation >10' To 15', Add</i>	9.01	
			<i>For Elevated Installation >15' To 20', Add</i>	18.02	
			<i>For Elevated Installation >20' To 25', Add</i>	22.53	
			<i>For Elevated Installation >25' To 30', Add</i>	31.54	
			<i>For Elevated Installation >30' To 35', Add</i>	36.04	
			<i>For Elevated Installation >35' To 40', Add</i>	45.05	
			<i>For Elevated Installation >40', Add</i>	49.56	
			<i>For Work In Restricted Working Space, Add</i>	27.03	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.03	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1017	EA			1-1/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 244.66		51.49
				<i>For Elevated Installation >10' To 15', Add</i> 10.30		
				<i>For Elevated Installation >15' To 20', Add</i> 20.59		
				<i>For Elevated Installation >20' To 25', Add</i> 25.74		
				<i>For Elevated Installation >25' To 30', Add</i> 36.04		
				<i>For Elevated Installation >30' To 35', Add</i> 41.18		
				<i>For Elevated Installation >35' To 40', Add</i> 51.48		
				<i>For Elevated Installation >40', Add</i> 56.63		
				<i>For Work In Restricted Working Space, Add</i> 30.89		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 30.89		
26 05 33 13-1018	EA			1-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 290.22		56.63
				<i>For Elevated Installation >10' To 15', Add</i> 11.33		
				<i>For Elevated Installation >15' To 20', Add</i> 22.65		
				<i>For Elevated Installation >20' To 25', Add</i> 28.32		
				<i>For Elevated Installation >25' To 30', Add</i> 39.64		
				<i>For Elevated Installation >30' To 35', Add</i> 45.30		
				<i>For Elevated Installation >35' To 40', Add</i> 56.63		
				<i>For Elevated Installation >40', Add</i> 62.29		
				<i>For Work In Restricted Working Space, Add</i> 33.98		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 33.98		
26 05 33 13-1019	EA			2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 389.54		66.29
				<i>For Elevated Installation >10' To 15', Add</i> 13.26		
				<i>For Elevated Installation >15' To 20', Add</i> 26.51		
				<i>For Elevated Installation >20' To 25', Add</i> 33.14		
				<i>For Elevated Installation >25' To 30', Add</i> 46.40		
				<i>For Elevated Installation >30' To 35', Add</i> 53.03		
				<i>For Elevated Installation >35' To 40', Add</i> 66.29		
				<i>For Elevated Installation >40', Add</i> 72.91		
				<i>For Work In Restricted Working Space, Add</i> 39.77		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 39.77		
26 05 33 13-1020	EA			2-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 627.15		96.53
				<i>For Elevated Installation >10' To 15', Add</i> 19.31		
				<i>For Elevated Installation >15' To 20', Add</i> 38.61		
				<i>For Elevated Installation >20' To 25', Add</i> 48.27		
				<i>For Elevated Installation >25' To 30', Add</i> 67.57		
				<i>For Elevated Installation >30' To 35', Add</i> 77.23		
				<i>For Elevated Installation >35' To 40', Add</i> 96.54		
				<i>For Elevated Installation >40', Add</i> 106.19		
				<i>For Work In Restricted Working Space, Add</i> 57.92		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 57.92		
26 05 33 13-1021	EA			3" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 830.22		125.49
				<i>For Elevated Installation >10' To 15', Add</i> 25.10		
				<i>For Elevated Installation >15' To 20', Add</i> 50.19		
				<i>For Elevated Installation >20' To 25', Add</i> 62.74		
				<i>For Elevated Installation >25' To 30', Add</i> 87.84		
				<i>For Elevated Installation >30' To 35', Add</i> 100.39		
				<i>For Elevated Installation >35' To 40', Add</i> 125.49		
				<i>For Elevated Installation >40', Add</i> 138.03		
				<i>For Work In Restricted Working Space, Add</i> 75.29		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 75.29		
26 05 33 13-1022	EA			3-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 1,141.45		154.45
				<i>For Elevated Installation >10' To 15', Add</i> 30.89		
				<i>For Elevated Installation >15' To 20', Add</i> 61.78		
				<i>For Elevated Installation >20' To 25', Add</i> 77.22		
				<i>For Elevated Installation >25' To 30', Add</i> 108.11		
				<i>For Elevated Installation >30' To 35', Add</i> 123.56		
				<i>For Elevated Installation >35' To 40', Add</i> 154.45		
				<i>For Elevated Installation >40', Add</i> 169.89		
				<i>For Work In Restricted Working Space, Add</i> 92.67		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 92.67		
26 05 33 13-1023	EA			4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 1,275.20		185.98
				<i>For Elevated Installation >10' To 15', Add</i> 37.20		
				<i>For Elevated Installation >15' To 20', Add</i> 74.40		
				<i>For Elevated Installation >20' To 25', Add</i> 93.00		
				<i>For Elevated Installation >25' To 30', Add</i> 130.19		
				<i>For Elevated Installation >30' To 35', Add</i> 148.79		
				<i>For Elevated Installation >35' To 40', Add</i> 185.99		
				<i>For Elevated Installation >40', Add</i> 204.59		
				<i>For Work In Restricted Working Space, Add</i> 111.59		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 111.59		
26 05 33 13-1024				Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined <small>(26 05 33 13-0821)</small>		
26 05 33 13-1025	EA			1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined 28.39		3.86
				<i>For Elevated Installation >10' To 15', Add</i> 0.77		
				<i>For Elevated Installation >15' To 20', Add</i> 1.54		
				<i>For Elevated Installation >20' To 25', Add</i> 1.93		
				<i>For Elevated Installation >25' To 30', Add</i> 2.70		
				<i>For Elevated Installation >30' To 35', Add</i> 3.09		
				<i>For Elevated Installation >35' To 40', Add</i> 3.86		
				<i>For Elevated Installation >40', Add</i> 4.25		
				<i>For Work In Restricted Working Space, Add</i> 2.32		

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1026 EA 3/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	31.84	4.50
For Elevated Installation >10' To 15', Add	0.90	
For Elevated Installation >15' To 20', Add	1.80	
For Elevated Installation >20' To 25', Add	2.25	
For Elevated Installation >25' To 30', Add	3.15	
For Elevated Installation >30' To 35', Add	3.60	
For Elevated Installation >35' To 40', Add	4.51	
For Elevated Installation >40', Add	4.96	
For Work In Restricted Working Space, Add	2.70	
26 05 33 13-1027 EA 1" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	41.53	5.80
For Elevated Installation >10' To 15', Add	1.16	
For Elevated Installation >15' To 20', Add	2.32	
For Elevated Installation >20' To 25', Add	2.90	
For Elevated Installation >25' To 30', Add	4.05	
For Elevated Installation >30' To 35', Add	4.63	
For Elevated Installation >35' To 40', Add	5.79	
For Elevated Installation >40', Add	6.37	
For Work In Restricted Working Space, Add	3.47	
26 05 33 13-1028 EA 1-1/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	53.43	7.08
For Elevated Installation >10' To 15', Add	1.42	
For Elevated Installation >15' To 20', Add	2.83	
For Elevated Installation >20' To 25', Add	3.54	
For Elevated Installation >25' To 30', Add	4.96	
For Elevated Installation >30' To 35', Add	5.66	
For Elevated Installation >35' To 40', Add	7.08	
For Elevated Installation >40', Add	7.79	
For Work In Restricted Working Space, Add	4.25	
26 05 33 13-1029 EA 1-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	59.80	8.36
For Elevated Installation >10' To 15', Add	1.67	
For Elevated Installation >15' To 20', Add	3.35	
For Elevated Installation >20' To 25', Add	4.18	
For Elevated Installation >25' To 30', Add	5.86	
For Elevated Installation >30' To 35', Add	6.69	
For Elevated Installation >35' To 40', Add	8.37	
For Elevated Installation >40', Add	9.20	
For Work In Restricted Working Space, Add	5.02	
26 05 33 13-1030 EA 2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	74.05	9.66
For Elevated Installation >10' To 15', Add	1.93	
For Elevated Installation >15' To 20', Add	3.86	
For Elevated Installation >20' To 25', Add	4.83	
For Elevated Installation >25' To 30', Add	6.76	
For Elevated Installation >30' To 35', Add	7.72	
For Elevated Installation >35' To 40', Add	9.65	
For Elevated Installation >40', Add	10.62	
For Work In Restricted Working Space, Add	5.79	
26 05 33 13-1031 EA 2-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	95.90	10.94
For Elevated Installation >10' To 15', Add	2.19	
For Elevated Installation >15' To 20', Add	4.38	
For Elevated Installation >20' To 25', Add	5.47	
For Elevated Installation >25' To 30', Add	7.66	
For Elevated Installation >30' To 35', Add	8.75	
For Elevated Installation >35' To 40', Add	10.94	
For Elevated Installation >40', Add	12.03	
For Work In Restricted Working Space, Add	6.56	
26 05 33 13-1032 EA 3" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	104.91	15.44
For Elevated Installation >10' To 15', Add	3.09	
For Elevated Installation >15' To 20', Add	6.18	
For Elevated Installation >20' To 25', Add	7.72	
For Elevated Installation >25' To 30', Add	10.81	
For Elevated Installation >30' To 35', Add	12.36	
For Elevated Installation >35' To 40', Add	15.45	
For Elevated Installation >40', Add	16.99	
For Work In Restricted Working Space, Add	9.27	
26 05 33 13-1033 EA 3-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	127.57	17.38
For Elevated Installation >10' To 15', Add	3.48	
For Elevated Installation >15' To 20', Add	6.95	
For Elevated Installation >20' To 25', Add	8.69	
For Elevated Installation >25' To 30', Add	12.16	
For Elevated Installation >30' To 35', Add	13.90	
For Elevated Installation >35' To 40', Add	17.38	
For Elevated Installation >40', Add	19.11	
For Work In Restricted Working Space, Add	10.43	
26 05 33 13-1034 EA 4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	136.58	21.88
For Elevated Installation >10' To 15', Add	4.38	
For Elevated Installation >15' To 20', Add	8.75	
For Elevated Installation >20' To 25', Add	10.94	
For Elevated Installation >25' To 30', Add	15.32	
For Elevated Installation >30' To 35', Add	17.50	
For Elevated Installation >35' To 40', Add	21.88	
For Elevated Installation >40', Add	24.07	
For Work In Restricted Working Space, Add	13.13	

26 05 33 13-1035 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel
(RGS) EYS Sealing Conduit Bodies (26 05 33 13-082.1)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1036 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	135.73	30.89
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.36	
For Elevated Installation >20' To 25', Add	15.45	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.71	
For Elevated Installation >35' To 40', Add	30.89	
For Elevated Installation >40', Add	33.98	
For Work In Restricted Working Space, Add	18.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.53	
26 05 33 13-1037 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	150.32	35.39
For Elevated Installation >10' To 15', Add	7.08	
For Elevated Installation >15' To 20', Add	14.16	
For Elevated Installation >20' To 25', Add	17.70	
For Elevated Installation >25' To 30', Add	24.78	
For Elevated Installation >30' To 35', Add	28.32	
For Elevated Installation >35' To 40', Add	35.40	
For Elevated Installation >40', Add	38.93	
For Work In Restricted Working Space, Add	21.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.24	
26 05 33 13-1038 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	175.57	40.55
For Elevated Installation >10' To 15', Add	8.11	
For Elevated Installation >15' To 20', Add	16.22	
For Elevated Installation >20' To 25', Add	20.27	
For Elevated Installation >25' To 30', Add	28.38	
For Elevated Installation >30' To 35', Add	32.44	
For Elevated Installation >35' To 40', Add	40.55	
For Elevated Installation >40', Add	44.60	
For Work In Restricted Working Space, Add	24.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.33	
26 05 33 13-1039 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	208.39	46.97
For Elevated Installation >10' To 15', Add	9.40	
For Elevated Installation >15' To 20', Add	18.79	
For Elevated Installation >20' To 25', Add	23.49	
For Elevated Installation >25' To 30', Add	32.89	
For Elevated Installation >30' To 35', Add	37.58	
For Elevated Installation >35' To 40', Add	46.98	
For Elevated Installation >40', Add	51.68	
For Work In Restricted Working Space, Add	28.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.19	
26 05 33 13-1040 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	259.37	51.49
For Elevated Installation >10' To 15', Add	10.30	
For Elevated Installation >15' To 20', Add	20.59	
For Elevated Installation >20' To 25', Add	25.74	
For Elevated Installation >25' To 30', Add	36.04	
For Elevated Installation >30' To 35', Add	41.18	
For Elevated Installation >35' To 40', Add	51.48	
For Elevated Installation >40', Add	56.63	
For Work In Restricted Working Space, Add	30.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.89	
26 05 33 13-1041 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	314.34	61.78
For Elevated Installation >10' To 15', Add	12.36	
For Elevated Installation >15' To 20', Add	24.71	
For Elevated Installation >20' To 25', Add	30.89	
For Elevated Installation >25' To 30', Add	43.25	
For Elevated Installation >30' To 35', Add	49.42	
For Elevated Installation >35' To 40', Add	61.78	
For Elevated Installation >40', Add	67.96	
For Work In Restricted Working Space, Add	37.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.07	
26 05 33 13-1042 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	455.21	86.88
For Elevated Installation >10' To 15', Add	17.38	
For Elevated Installation >15' To 20', Add	34.75	
For Elevated Installation >20' To 25', Add	43.44	
For Elevated Installation >25' To 30', Add	60.81	
For Elevated Installation >30' To 35', Add	69.50	
For Elevated Installation >35' To 40', Add	86.88	
For Elevated Installation >40', Add	95.56	
For Work In Restricted Working Space, Add	52.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.13	
26 05 33 13-1043 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	583.70	115.84
For Elevated Installation >10' To 15', Add	23.17	
For Elevated Installation >15' To 20', Add	46.33	
For Elevated Installation >20' To 25', Add	57.92	
For Elevated Installation >25' To 30', Add	81.08	
For Elevated Installation >30' To 35', Add	92.67	
For Elevated Installation >35' To 40', Add	115.84	
For Elevated Installation >40', Add	127.42	
For Work In Restricted Working Space, Add	69.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.50	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1044	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	1,167.75	144.79
			<i>For Elevated Installation >10' To 15', Add</i>	28.96	
			<i>For Elevated Installation >15' To 20', Add</i>	57.92	
			<i>For Elevated Installation >20' To 25', Add</i>	72.40	
			<i>For Elevated Installation >25' To 30', Add</i>	101.36	
			<i>For Elevated Installation >30' To 35', Add</i>	115.84	
			<i>For Elevated Installation >35' To 40', Add</i>	144.80	
			<i>For Elevated Installation >40', Add</i>	159.27	
			<i>For Work In Restricted Working Space, Add</i>	86.88	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.88	
26 05 33 13-1045	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	1,710.10	176.33
			<i>For Elevated Installation >10' To 15', Add</i>	35.27	
			<i>For Elevated Installation >15' To 20', Add</i>	70.53	
			<i>For Elevated Installation >20' To 25', Add</i>	88.17	
			<i>For Elevated Installation >25' To 30', Add</i>	123.43	
			<i>For Elevated Installation >30' To 35', Add</i>	141.06	
			<i>For Elevated Installation >35' To 40', Add</i>	176.33	
			<i>For Elevated Installation >40', Add</i>	193.96	
			<i>For Work In Restricted Working Space, Add</i>	105.80	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	105.80	
26 05 33 13-1046			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Bodies <small>(26 05 33 13-0821)</small>		
26 05 33 13-1047	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	231.99	30.89
			<i>For Elevated Installation >10' To 15', Add</i>	6.18	
			<i>For Elevated Installation >15' To 20', Add</i>	12.36	
			<i>For Elevated Installation >20' To 25', Add</i>	15.45	
			<i>For Elevated Installation >25' To 30', Add</i>	21.62	
			<i>For Elevated Installation >30' To 35', Add</i>	24.71	
			<i>For Elevated Installation >35' To 40', Add</i>	30.89	
			<i>For Elevated Installation >40', Add</i>	33.98	
			<i>For Work In Restricted Working Space, Add</i>	18.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.53	
26 05 33 13-1048	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	249.84	35.39
			<i>For Elevated Installation >10' To 15', Add</i>	7.08	
			<i>For Elevated Installation >15' To 20', Add</i>	14.16	
			<i>For Elevated Installation >20' To 25', Add</i>	17.70	
			<i>For Elevated Installation >25' To 30', Add</i>	24.78	
			<i>For Elevated Installation >30' To 35', Add</i>	28.32	
			<i>For Elevated Installation >35' To 40', Add</i>	35.40	
			<i>For Elevated Installation >40', Add</i>	38.93	
			<i>For Work In Restricted Working Space, Add</i>	21.24	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.24	
26 05 33 13-1049	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	285.31	40.55
			<i>For Elevated Installation >10' To 15', Add</i>	8.11	
			<i>For Elevated Installation >15' To 20', Add</i>	16.22	
			<i>For Elevated Installation >20' To 25', Add</i>	20.27	
			<i>For Elevated Installation >25' To 30', Add</i>	28.38	
			<i>For Elevated Installation >30' To 35', Add</i>	32.44	
			<i>For Elevated Installation >35' To 40', Add</i>	40.55	
			<i>For Elevated Installation >40', Add</i>	44.60	
			<i>For Work In Restricted Working Space, Add</i>	24.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.33	
26 05 33 13-1050	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	319.38	46.97
			<i>For Elevated Installation >10' To 15', Add</i>	9.40	
			<i>For Elevated Installation >15' To 20', Add</i>	18.79	
			<i>For Elevated Installation >20' To 25', Add</i>	23.49	
			<i>For Elevated Installation >25' To 30', Add</i>	32.89	
			<i>For Elevated Installation >30' To 35', Add</i>	37.58	
			<i>For Elevated Installation >35' To 40', Add</i>	46.98	
			<i>For Elevated Installation >40', Add</i>	51.68	
			<i>For Work In Restricted Working Space, Add</i>	28.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.19	
26 05 33 13-1051	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	387.14	51.49
			<i>For Elevated Installation >10' To 15', Add</i>	10.30	
			<i>For Elevated Installation >15' To 20', Add</i>	20.59	
			<i>For Elevated Installation >20' To 25', Add</i>	25.74	
			<i>For Elevated Installation >25' To 30', Add</i>	36.04	
			<i>For Elevated Installation >30' To 35', Add</i>	41.18	
			<i>For Elevated Installation >35' To 40', Add</i>	51.48	
			<i>For Elevated Installation >40', Add</i>	56.63	
			<i>For Work In Restricted Working Space, Add</i>	30.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.89	
26 05 33 13-1052	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	435.88	61.78
			<i>For Elevated Installation >10' To 15', Add</i>	12.36	
			<i>For Elevated Installation >15' To 20', Add</i>	24.71	
			<i>For Elevated Installation >20' To 25', Add</i>	30.89	
			<i>For Elevated Installation >25' To 30', Add</i>	43.25	
			<i>For Elevated Installation >30' To 35', Add</i>	49.42	
			<i>For Elevated Installation >35' To 40', Add</i>	61.78	
			<i>For Elevated Installation >40', Add</i>	67.96	
			<i>For Work In Restricted Working Space, Add</i>	37.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1053 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	613.24	86.88
<i>For Elevated Installation >10' To 15', Add</i>	17.38	
<i>For Elevated Installation >15' To 20', Add</i>	34.75	
<i>For Elevated Installation >20' To 25', Add</i>	43.44	
<i>For Elevated Installation >25' To 30', Add</i>	60.81	
<i>For Elevated Installation >30' To 35', Add</i>	69.50	
<i>For Elevated Installation >35' To 40', Add</i>	86.88	
<i>For Elevated Installation >40', Add</i>	95.56	
<i>For Work In Restricted Working Space, Add</i>	52.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.13	
26 05 33 13-1054 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	854.32	115.84
<i>For Elevated Installation >10' To 15', Add</i>	23.17	
<i>For Elevated Installation >15' To 20', Add</i>	46.33	
<i>For Elevated Installation >20' To 25', Add</i>	57.92	
<i>For Elevated Installation >25' To 30', Add</i>	81.08	
<i>For Elevated Installation >30' To 35', Add</i>	92.67	
<i>For Elevated Installation >35' To 40', Add</i>	115.84	
<i>For Elevated Installation >40', Add</i>	127.42	
<i>For Work In Restricted Working Space, Add</i>	69.50	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.50	
26 05 33 13-1055 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	1,246.34	144.79
<i>For Elevated Installation >10' To 15', Add</i>	28.96	
<i>For Elevated Installation >15' To 20', Add</i>	57.92	
<i>For Elevated Installation >20' To 25', Add</i>	72.40	
<i>For Elevated Installation >25' To 30', Add</i>	101.36	
<i>For Elevated Installation >30' To 35', Add</i>	115.84	
<i>For Elevated Installation >35' To 40', Add</i>	144.80	
<i>For Elevated Installation >40', Add</i>	159.27	
<i>For Work In Restricted Working Space, Add</i>	86.88	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.88	
26 05 33 13-1056 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	1,812.95	176.33
<i>For Elevated Installation >10' To 15', Add</i>	35.27	
<i>For Elevated Installation >15' To 20', Add</i>	70.53	
<i>For Elevated Installation >20' To 25', Add</i>	88.17	
<i>For Elevated Installation >25' To 30', Add</i>	123.43	
<i>For Elevated Installation >30' To 35', Add</i>	141.06	
<i>For Elevated Installation >35' To 40', Add</i>	176.33	
<i>For Elevated Installation >40', Add</i>	193.96	
<i>For Work In Restricted Working Space, Add</i>	105.80	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	105.80	
26 05 33 13-1057 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Bodies <small>(26 05 33 13-0821)</small>		
26 05 33 13-1058 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	185.65	30.89
<i>For Elevated Installation >10' To 15', Add</i>	6.18	
<i>For Elevated Installation >15' To 20', Add</i>	12.36	
<i>For Elevated Installation >20' To 25', Add</i>	15.45	
<i>For Elevated Installation >25' To 30', Add</i>	21.62	
<i>For Elevated Installation >30' To 35', Add</i>	24.71	
<i>For Elevated Installation >35' To 40', Add</i>	30.89	
<i>For Elevated Installation >40', Add</i>	33.98	
<i>For Work In Restricted Working Space, Add</i>	18.53	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.53	
26 05 33 13-1059 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	197.95	35.39
<i>For Elevated Installation >10' To 15', Add</i>	7.08	
<i>For Elevated Installation >15' To 20', Add</i>	14.16	
<i>For Elevated Installation >20' To 25', Add</i>	17.70	
<i>For Elevated Installation >25' To 30', Add</i>	24.78	
<i>For Elevated Installation >30' To 35', Add</i>	28.32	
<i>For Elevated Installation >35' To 40', Add</i>	35.40	
<i>For Elevated Installation >40', Add</i>	38.93	
<i>For Work In Restricted Working Space, Add</i>	21.24	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.24	
26 05 33 13-1060 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	227.43	40.55
<i>For Elevated Installation >10' To 15', Add</i>	8.11	
<i>For Elevated Installation >15' To 20', Add</i>	16.22	
<i>For Elevated Installation >20' To 25', Add</i>	20.27	
<i>For Elevated Installation >25' To 30', Add</i>	28.38	
<i>For Elevated Installation >30' To 35', Add</i>	32.44	
<i>For Elevated Installation >35' To 40', Add</i>	40.55	
<i>For Elevated Installation >40', Add</i>	44.60	
<i>For Work In Restricted Working Space, Add</i>	24.33	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.33	
26 05 33 13-1061 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	253.74	46.97
<i>For Elevated Installation >10' To 15', Add</i>	9.40	
<i>For Elevated Installation >15' To 20', Add</i>	18.79	
<i>For Elevated Installation >20' To 25', Add</i>	23.49	
<i>For Elevated Installation >25' To 30', Add</i>	32.89	
<i>For Elevated Installation >30' To 35', Add</i>	37.58	
<i>For Elevated Installation >35' To 40', Add</i>	46.98	
<i>For Elevated Installation >40', Add</i>	51.68	
<i>For Work In Restricted Working Space, Add</i>	28.19	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.19	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1062	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	348.92	51.49
			<i>For Elevated Installation >10' To 15', Add</i>	10.30	
			<i>For Elevated Installation >15' To 20', Add</i>	20.59	
			<i>For Elevated Installation >20' To 25', Add</i>	25.74	
			<i>For Elevated Installation >25' To 30', Add</i>	36.04	
			<i>For Elevated Installation >30' To 35', Add</i>	41.18	
			<i>For Elevated Installation >35' To 40', Add</i>	51.48	
			<i>For Elevated Installation >40', Add</i>	56.63	
			<i>For Work In Restricted Working Space, Add</i>	30.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.89	
26 05 33 13-1063	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	438.19	61.78
			<i>For Elevated Installation >10' To 15', Add</i>	12.36	
			<i>For Elevated Installation >15' To 20', Add</i>	24.71	
			<i>For Elevated Installation >20' To 25', Add</i>	30.89	
			<i>For Elevated Installation >25' To 30', Add</i>	43.25	
			<i>For Elevated Installation >30' To 35', Add</i>	49.42	
			<i>For Elevated Installation >35' To 40', Add</i>	61.78	
			<i>For Elevated Installation >40', Add</i>	67.96	
			<i>For Work In Restricted Working Space, Add</i>	37.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.07	
26 05 33 13-1064	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	680.44	86.88
			<i>For Elevated Installation >10' To 15', Add</i>	17.38	
			<i>For Elevated Installation >15' To 20', Add</i>	34.75	
			<i>For Elevated Installation >20' To 25', Add</i>	43.44	
			<i>For Elevated Installation >25' To 30', Add</i>	60.81	
			<i>For Elevated Installation >30' To 35', Add</i>	69.50	
			<i>For Elevated Installation >35' To 40', Add</i>	86.88	
			<i>For Elevated Installation >40', Add</i>	95.56	
			<i>For Work In Restricted Working Space, Add</i>	52.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.13	
26 05 33 13-1065	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	991.05	115.84
			<i>For Elevated Installation >10' To 15', Add</i>	23.17	
			<i>For Elevated Installation >15' To 20', Add</i>	46.33	
			<i>For Elevated Installation >20' To 25', Add</i>	57.92	
			<i>For Elevated Installation >25' To 30', Add</i>	81.08	
			<i>For Elevated Installation >30' To 35', Add</i>	92.67	
			<i>For Elevated Installation >35' To 40', Add</i>	115.84	
			<i>For Elevated Installation >40', Add</i>	127.42	
			<i>For Work In Restricted Working Space, Add</i>	69.50	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.50	
26 05 33 13-1066	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	1,246.34	144.79
			<i>For Elevated Installation >10' To 15', Add</i>	28.96	
			<i>For Elevated Installation >15' To 20', Add</i>	57.92	
			<i>For Elevated Installation >20' To 25', Add</i>	72.40	
			<i>For Elevated Installation >25' To 30', Add</i>	101.36	
			<i>For Elevated Installation >30' To 35', Add</i>	115.84	
			<i>For Elevated Installation >35' To 40', Add</i>	144.80	
			<i>For Elevated Installation >40', Add</i>	159.27	
			<i>For Work In Restricted Working Space, Add</i>	86.88	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.88	
26 05 33 13-1067			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Bodies <small>(26 05 33 13-062.1)</small>		
26 05 33 13-1068	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	245.59	30.89
			<i>For Elevated Installation >10' To 15', Add</i>	6.18	
			<i>For Elevated Installation >15' To 20', Add</i>	12.36	
			<i>For Elevated Installation >20' To 25', Add</i>	15.45	
			<i>For Elevated Installation >25' To 30', Add</i>	21.62	
			<i>For Elevated Installation >30' To 35', Add</i>	24.71	
			<i>For Elevated Installation >35' To 40', Add</i>	30.89	
			<i>For Elevated Installation >40', Add</i>	33.98	
			<i>For Work In Restricted Working Space, Add</i>	18.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.53	
26 05 33 13-1069	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	272.53	35.39
			<i>For Elevated Installation >10' To 15', Add</i>	7.08	
			<i>For Elevated Installation >15' To 20', Add</i>	14.16	
			<i>For Elevated Installation >20' To 25', Add</i>	17.70	
			<i>For Elevated Installation >25' To 30', Add</i>	24.78	
			<i>For Elevated Installation >30' To 35', Add</i>	28.32	
			<i>For Elevated Installation >35' To 40', Add</i>	35.40	
			<i>For Elevated Installation >40', Add</i>	38.93	
			<i>For Work In Restricted Working Space, Add</i>	21.24	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.24	
26 05 33 13-1070	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	337.80	40.55
			<i>For Elevated Installation >10' To 15', Add</i>	8.11	
			<i>For Elevated Installation >15' To 20', Add</i>	16.22	
			<i>For Elevated Installation >20' To 25', Add</i>	20.27	
			<i>For Elevated Installation >25' To 30', Add</i>	28.38	
			<i>For Elevated Installation >30' To 35', Add</i>	32.44	
			<i>For Elevated Installation >35' To 40', Add</i>	40.55	
			<i>For Elevated Installation >40', Add</i>	44.60	
			<i>For Work In Restricted Working Space, Add</i>	24.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1071 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit		
Body	416.45	46.97
For Elevated Installation >10' To 15', Add	9.40	
For Elevated Installation >15' To 20', Add	18.79	
For Elevated Installation >20' To 25', Add	23.49	
For Elevated Installation >25' To 30', Add	32.89	
For Elevated Installation >30' To 35', Add	37.58	
For Elevated Installation >35' To 40', Add	46.98	
For Elevated Installation >40', Add	51.68	
For Work In Restricted Working Space, Add	28.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.19	
26 05 33 13-1072 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit		
Body	578.81	51.49
For Elevated Installation >10' To 15', Add	10.30	
For Elevated Installation >15' To 20', Add	20.59	
For Elevated Installation >20' To 25', Add	25.74	
For Elevated Installation >25' To 30', Add	36.04	
For Elevated Installation >30' To 35', Add	41.18	
For Elevated Installation >35' To 40', Add	51.48	
For Elevated Installation >40', Add	56.63	
For Work In Restricted Working Space, Add	30.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.89	
26 05 33 13-1073 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	62.70	61.78
For Elevated Installation >10' To 15', Add	12.36	
For Elevated Installation >15' To 20', Add	24.71	
For Elevated Installation >20' To 25', Add	30.89	
For Elevated Installation >25' To 30', Add	43.25	
For Elevated Installation >30' To 35', Add	49.42	
For Elevated Installation >35' To 40', Add	61.78	
For Elevated Installation >40', Add	67.96	
For Work In Restricted Working Space, Add	37.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.07	
26 05 33 13-1074 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Couplings <small>(26 05 33 13-0821)</small>		
26 05 33 13-1075 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	47.27	12.38
For Elevated Installation >10' To 15', Add	2.48	
For Elevated Installation >15' To 20', Add	4.95	
For Elevated Installation >20' To 25', Add	6.19	
For Elevated Installation >25' To 30', Add	8.66	
For Elevated Installation >30' To 35', Add	9.90	
For Elevated Installation >35' To 40', Add	12.38	
For Elevated Installation >40', Add	13.61	
For Work In Restricted Working Space, Add	7.43	
26 05 33 13-1076 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	62.70	14.85
For Elevated Installation >10' To 15', Add	2.97	
For Elevated Installation >15' To 20', Add	5.94	
For Elevated Installation >20' To 25', Add	7.43	
For Elevated Installation >25' To 30', Add	10.40	
For Elevated Installation >30' To 35', Add	11.88	
For Elevated Installation >35' To 40', Add	14.85	
For Elevated Installation >40', Add	16.34	
For Work In Restricted Working Space, Add	8.91	
26 05 33 13-1077 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	79.66	19.80
For Elevated Installation >10' To 15', Add	3.96	
For Elevated Installation >15' To 20', Add	7.92	
For Elevated Installation >20' To 25', Add	9.90	
For Elevated Installation >25' To 30', Add	13.86	
For Elevated Installation >30' To 35', Add	15.84	
For Elevated Installation >35' To 40', Add	19.80	
For Elevated Installation >40', Add	21.78	
For Work In Restricted Working Space, Add	11.88	
26 05 33 13-1078 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	109.63	24.75
For Elevated Installation >10' To 15', Add	4.95	
For Elevated Installation >15' To 20', Add	9.90	
For Elevated Installation >20' To 25', Add	12.38	
For Elevated Installation >25' To 30', Add	17.33	
For Elevated Installation >30' To 35', Add	19.80	
For Elevated Installation >35' To 40', Add	24.75	
For Elevated Installation >40', Add	27.23	
For Work In Restricted Working Space, Add	14.85	
26 05 33 13-1079 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	143.88	29.70
For Elevated Installation >10' To 15', Add	5.94	
For Elevated Installation >15' To 20', Add	11.88	
For Elevated Installation >20' To 25', Add	14.85	
For Elevated Installation >25' To 30', Add	20.79	
For Elevated Installation >30' To 35', Add	23.76	
For Elevated Installation >35' To 40', Add	29.70	
For Elevated Installation >40', Add	32.67	
For Work In Restricted Working Space, Add	17.82	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1080	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....247.93		34.65
			<i>For Elevated Installation >10' To 15', Add</i>	6.93	
			<i>For Elevated Installation >15' To 20', Add</i>	13.86	
			<i>For Elevated Installation >20' To 25', Add</i>	17.33	
			<i>For Elevated Installation >25' To 30', Add</i>	24.26	
			<i>For Elevated Installation >30' To 35', Add</i>	27.72	
			<i>For Elevated Installation >35' To 40', Add</i>	34.66	
			<i>For Elevated Installation >40', Add</i>	38.12	
			<i>For Work In Restricted Working Space, Add</i>	20.79	
26 05 33 13-1081	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....360.42		39.60
			<i>For Elevated Installation >10' To 15', Add</i>	7.92	
			<i>For Elevated Installation >15' To 20', Add</i>	15.84	
			<i>For Elevated Installation >20' To 25', Add</i>	19.80	
			<i>For Elevated Installation >25' To 30', Add</i>	27.72	
			<i>For Elevated Installation >30' To 35', Add</i>	31.68	
			<i>For Elevated Installation >35' To 40', Add</i>	39.60	
			<i>For Elevated Installation >40', Add</i>	43.56	
			<i>For Work In Restricted Working Space, Add</i>	23.76	
26 05 33 13-1082	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....449.73		44.56
			<i>For Elevated Installation >10' To 15', Add</i>	8.91	
			<i>For Elevated Installation >15' To 20', Add</i>	17.82	
			<i>For Elevated Installation >20' To 25', Add</i>	22.28	
			<i>For Elevated Installation >25' To 30', Add</i>	31.19	
			<i>For Elevated Installation >30' To 35', Add</i>	35.64	
			<i>For Elevated Installation >35' To 40', Add</i>	44.55	
			<i>For Elevated Installation >40', Add</i>	49.01	
			<i>For Work In Restricted Working Space, Add</i>	26.73	
26 05 33 13-1083	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....626.15		51.98
			<i>For Elevated Installation >10' To 15', Add</i>	10.40	
			<i>For Elevated Installation >15' To 20', Add</i>	20.79	
			<i>For Elevated Installation >20' To 25', Add</i>	25.99	
			<i>For Elevated Installation >25' To 30', Add</i>	36.39	
			<i>For Elevated Installation >30' To 35', Add</i>	41.58	
			<i>For Elevated Installation >35' To 40', Add</i>	51.98	
			<i>For Elevated Installation >40', Add</i>	57.18	
			<i>For Work In Restricted Working Space, Add</i>	31.19	
26 05 33 13-1084	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....760.30		59.40
			<i>For Elevated Installation >10' To 15', Add</i>	11.88	
			<i>For Elevated Installation >15' To 20', Add</i>	23.76	
			<i>For Elevated Installation >20' To 25', Add</i>	29.70	
			<i>For Elevated Installation >25' To 30', Add</i>	41.58	
			<i>For Elevated Installation >30' To 35', Add</i>	47.52	
			<i>For Elevated Installation >35' To 40', Add</i>	59.41	
			<i>For Elevated Installation >40', Add</i>	65.35	
			<i>For Work In Restricted Working Space, Add</i>	35.64	
26 05 33 13-1085	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....1,216.89		94.06
			<i>For Elevated Installation >10' To 15', Add</i>	18.81	
			<i>For Elevated Installation >15' To 20', Add</i>	37.62	
			<i>For Elevated Installation >20' To 25', Add</i>	47.03	
			<i>For Elevated Installation >25' To 30', Add</i>	65.84	
			<i>For Elevated Installation >30' To 35', Add</i>	75.24	
			<i>For Elevated Installation >35' To 40', Add</i>	94.06	
			<i>For Elevated Installation >40', Add</i>	103.46	
			<i>For Work In Restricted Working Space, Add</i>	56.43	
26 05 33 13-1086	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....1,663.26		143.56
			<i>For Elevated Installation >10' To 15', Add</i>	28.71	
			<i>For Elevated Installation >15' To 20', Add</i>	57.42	
			<i>For Elevated Installation >20' To 25', Add</i>	71.78	
			<i>For Elevated Installation >25' To 30', Add</i>	100.49	
			<i>For Elevated Installation >30' To 35', Add</i>	114.85	
			<i>For Elevated Installation >35' To 40', Add</i>	143.56	
			<i>For Elevated Installation >40', Add</i>	157.92	
			<i>For Work In Restricted Working Space, Add</i>	86.14	
26 05 33 13-1087			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbows <small>(26 05 33 13-0821)</small>		
26 05 33 13-1088	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....175.08		30.89
			<i>For Elevated Installation >10' To 15', Add</i>	6.18	
			<i>For Elevated Installation >15' To 20', Add</i>	12.36	
			<i>For Elevated Installation >20' To 25', Add</i>	15.45	
			<i>For Elevated Installation >25' To 30', Add</i>	21.62	
			<i>For Elevated Installation >30' To 35', Add</i>	24.71	
			<i>For Elevated Installation >35' To 40', Add</i>	30.89	
			<i>For Elevated Installation >40', Add</i>	33.98	
			<i>For Work In Restricted Working Space, Add</i>	18.53	
26 05 33 13-1089	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....207.01		34.11
			<i>For Elevated Installation >10' To 15', Add</i>	6.82	
			<i>For Elevated Installation >15' To 20', Add</i>	13.64	
			<i>For Elevated Installation >20' To 25', Add</i>	17.05	
			<i>For Elevated Installation >25' To 30', Add</i>	23.87	
			<i>For Elevated Installation >30' To 35', Add</i>	27.28	
			<i>For Elevated Installation >35' To 40', Add</i>	34.11	
			<i>For Elevated Installation >40', Add</i>	37.52	
			<i>For Work In Restricted Working Space, Add</i>	20.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1090 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	228.39	40.55
For Elevated Installation >10' To 15', Add	8.11	
For Elevated Installation >15' To 20', Add	16.22	
For Elevated Installation >20' To 25', Add	20.27	
For Elevated Installation >25' To 30', Add	28.38	
For Elevated Installation >30' To 35', Add	32.44	
For Elevated Installation >35' To 40', Add	40.55	
For Elevated Installation >40', Add	44.60	
For Work In Restricted Working Space, Add	24.33	
26 05 33 13-1091 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	328.36	46.97
For Elevated Installation >10' To 15', Add	9.40	
For Elevated Installation >15' To 20', Add	18.79	
For Elevated Installation >20' To 25', Add	23.49	
For Elevated Installation >25' To 30', Add	32.89	
For Elevated Installation >30' To 35', Add	37.58	
For Elevated Installation >35' To 40', Add	46.98	
For Elevated Installation >40', Add	51.68	
For Work In Restricted Working Space, Add	28.19	
26 05 33 13-1092 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	433.26	51.49
For Elevated Installation >10' To 15', Add	10.30	
For Elevated Installation >15' To 20', Add	20.59	
For Elevated Installation >20' To 25', Add	25.74	
For Elevated Installation >25' To 30', Add	36.04	
For Elevated Installation >30' To 35', Add	41.18	
For Elevated Installation >35' To 40', Add	51.48	
For Elevated Installation >40', Add	56.63	
For Work In Restricted Working Space, Add	30.89	
26 05 33 13-1093 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	467.58	61.78
For Elevated Installation >10' To 15', Add	12.36	
For Elevated Installation >15' To 20', Add	24.71	
For Elevated Installation >20' To 25', Add	30.89	
For Elevated Installation >25' To 30', Add	43.25	
For Elevated Installation >30' To 35', Add	49.42	
For Elevated Installation >35' To 40', Add	61.78	
For Elevated Installation >40', Add	67.96	
For Work In Restricted Working Space, Add	37.07	
26 05 33 13-1094 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,105.20	85.59
For Elevated Installation >10' To 15', Add	17.12	
For Elevated Installation >15' To 20', Add	34.24	
For Elevated Installation >20' To 25', Add	42.80	
For Elevated Installation >25' To 30', Add	59.92	
For Elevated Installation >30' To 35', Add	68.48	
For Elevated Installation >35' To 40', Add	85.60	
For Elevated Installation >40', Add	94.15	
For Work In Restricted Working Space, Add	51.36	
26 05 33 13-1095 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,165.91	115.84
For Elevated Installation >10' To 15', Add	23.17	
For Elevated Installation >15' To 20', Add	46.34	
For Elevated Installation >20' To 25', Add	57.92	
For Elevated Installation >25' To 30', Add	81.09	
For Elevated Installation >30' To 35', Add	92.67	
For Elevated Installation >35' To 40', Add	115.84	
For Elevated Installation >40', Add	127.42	
For Work In Restricted Working Space, Add	69.50	
26 05 33 13-1096 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,907.84	144.79
For Elevated Installation >10' To 15', Add	28.96	
For Elevated Installation >15' To 20', Add	57.92	
For Elevated Installation >20' To 25', Add	72.40	
For Elevated Installation >25' To 30', Add	101.36	
For Elevated Installation >30' To 35', Add	115.84	
For Elevated Installation >35' To 40', Add	144.80	
For Elevated Installation >40', Add	159.28	
For Work In Restricted Working Space, Add	86.88	
26 05 33 13-1097 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,986.61	176.33
For Elevated Installation >10' To 15', Add	35.27	
For Elevated Installation >15' To 20', Add	70.54	
For Elevated Installation >20' To 25', Add	88.17	
For Elevated Installation >25' To 30', Add	123.44	
For Elevated Installation >30' To 35', Add	141.07	
For Elevated Installation >35' To 40', Add	176.34	
For Elevated Installation >40', Add	193.97	
For Work In Restricted Working Space, Add	105.80	
26 05 33 13-1098 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbows		
<small>(26 05 33 13-0821)</small>		
26 05 33 13-1099 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	255.71	30.89
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.36	
For Elevated Installation >20' To 25', Add	15.45	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.71	
For Elevated Installation >35' To 40', Add	30.89	
For Elevated Installation >40', Add	33.98	
For Work In Restricted Working Space, Add	18.53	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1100	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	291.30	35.39
			<i>For Elevated Installation >10' To 15', Add</i>	7.08	
			<i>For Elevated Installation >15' To 20', Add</i>	14.16	
			<i>For Elevated Installation >20' To 25', Add</i>	17.70	
			<i>For Elevated Installation >25' To 30', Add</i>	24.78	
			<i>For Elevated Installation >30' To 35', Add</i>	28.32	
			<i>For Elevated Installation >35' To 40', Add</i>	35.40	
			<i>For Elevated Installation >40', Add</i>	38.93	
			<i>For Work In Restricted Working Space, Add</i>	21.24	
26 05 33 13-1101	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	575.28	40.55
			<i>For Elevated Installation >10' To 15', Add</i>	8.11	
			<i>For Elevated Installation >15' To 20', Add</i>	16.22	
			<i>For Elevated Installation >20' To 25', Add</i>	20.27	
			<i>For Elevated Installation >25' To 30', Add</i>	28.38	
			<i>For Elevated Installation >30' To 35', Add</i>	32.44	
			<i>For Elevated Installation >35' To 40', Add</i>	40.55	
			<i>For Elevated Installation >40', Add</i>	44.60	
			<i>For Work In Restricted Working Space, Add</i>	24.33	
26 05 33 13-1102	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	603.41	46.97
			<i>For Elevated Installation >10' To 15', Add</i>	9.40	
			<i>For Elevated Installation >15' To 20', Add</i>	18.79	
			<i>For Elevated Installation >20' To 25', Add</i>	23.49	
			<i>For Elevated Installation >25' To 30', Add</i>	32.89	
			<i>For Elevated Installation >30' To 35', Add</i>	37.58	
			<i>For Elevated Installation >35' To 40', Add</i>	46.98	
			<i>For Elevated Installation >40', Add</i>	51.68	
			<i>For Work In Restricted Working Space, Add</i>	28.19	
26 05 33 13-1103	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	825.06	51.49
			<i>For Elevated Installation >10' To 15', Add</i>	10.30	
			<i>For Elevated Installation >15' To 20', Add</i>	20.59	
			<i>For Elevated Installation >20' To 25', Add</i>	25.74	
			<i>For Elevated Installation >25' To 30', Add</i>	36.04	
			<i>For Elevated Installation >30' To 35', Add</i>	41.18	
			<i>For Elevated Installation >35' To 40', Add</i>	51.48	
			<i>For Elevated Installation >40', Add</i>	56.63	
			<i>For Work In Restricted Working Space, Add</i>	30.89	
26 05 33 13-1104	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	879.91	61.78
			<i>For Elevated Installation >10' To 15', Add</i>	12.36	
			<i>For Elevated Installation >15' To 20', Add</i>	24.71	
			<i>For Elevated Installation >20' To 25', Add</i>	30.89	
			<i>For Elevated Installation >25' To 30', Add</i>	43.25	
			<i>For Elevated Installation >30' To 35', Add</i>	49.42	
			<i>For Elevated Installation >35' To 40', Add</i>	61.78	
			<i>For Elevated Installation >40', Add</i>	67.96	
			<i>For Work In Restricted Working Space, Add</i>	37.07	
26 05 33 13-1105	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	1,692.49	86.88
			<i>For Elevated Installation >10' To 15', Add</i>	17.38	
			<i>For Elevated Installation >15' To 20', Add</i>	34.75	
			<i>For Elevated Installation >20' To 25', Add</i>	43.44	
			<i>For Elevated Installation >25' To 30', Add</i>	60.81	
			<i>For Elevated Installation >30' To 35', Add</i>	69.50	
			<i>For Elevated Installation >35' To 40', Add</i>	86.88	
			<i>For Elevated Installation >40', Add</i>	95.56	
			<i>For Work In Restricted Working Space, Add</i>	52.13	
26 05 33 13-1106	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	1,780.43	115.84
			<i>For Elevated Installation >10' To 15', Add</i>	23.17	
			<i>For Elevated Installation >15' To 20', Add</i>	46.33	
			<i>For Elevated Installation >20' To 25', Add</i>	57.92	
			<i>For Elevated Installation >25' To 30', Add</i>	81.08	
			<i>For Elevated Installation >30' To 35', Add</i>	92.67	
			<i>For Elevated Installation >35' To 40', Add</i>	115.84	
			<i>For Elevated Installation >40', Add</i>	127.42	
			<i>For Work In Restricted Working Space, Add</i>	69.50	
26 05 33 13-1107	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	2,608.81	144.79
			<i>For Elevated Installation >10' To 15', Add</i>	28.96	
			<i>For Elevated Installation >15' To 20', Add</i>	57.92	
			<i>For Elevated Installation >20' To 25', Add</i>	72.40	
			<i>For Elevated Installation >25' To 30', Add</i>	101.36	
			<i>For Elevated Installation >30' To 35', Add</i>	115.84	
			<i>For Elevated Installation >35' To 40', Add</i>	144.80	
			<i>For Elevated Installation >40', Add</i>	159.27	
			<i>For Work In Restricted Working Space, Add</i>	86.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1108 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	2,953.80	176.33
<i>For Elevated Installation >10' To 15', Add</i>	35.27	
<i>For Elevated Installation >15' To 20', Add</i>	70.53	
<i>For Elevated Installation >20' To 25', Add</i>	88.17	
<i>For Elevated Installation >25' To 30', Add</i>	123.43	
<i>For Elevated Installation >30' To 35', Add</i>	141.06	
<i>For Elevated Installation >35' To 40', Add</i>	176.33	
<i>For Elevated Installation >40', Add</i>	193.96	
<i>For Work In Restricted Working Space, Add</i>	105.80	
26 05 33 13-1109 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbows <small>(26 05 33 13-0821)</small>		
26 05 33 13-1110 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	98.01	16.09
<i>For Elevated Installation >10' To 15', Add</i>	3.22	
<i>For Elevated Installation >15' To 20', Add</i>	6.44	
<i>For Elevated Installation >20' To 25', Add</i>	8.05	
<i>For Elevated Installation >25' To 30', Add</i>	11.26	
<i>For Elevated Installation >30' To 35', Add</i>	12.87	
<i>For Elevated Installation >35' To 40', Add</i>	16.09	
<i>For Elevated Installation >40', Add</i>	17.70	
<i>For Work In Restricted Working Space, Add</i>	9.65	
26 05 33 13-1111 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	114.02	19.95
<i>For Elevated Installation >10' To 15', Add</i>	3.99	
<i>For Elevated Installation >15' To 20', Add</i>	7.98	
<i>For Elevated Installation >20' To 25', Add</i>	9.98	
<i>For Elevated Installation >25' To 30', Add</i>	13.97	
<i>For Elevated Installation >30' To 35', Add</i>	15.96	
<i>For Elevated Installation >35' To 40', Add</i>	19.95	
<i>For Elevated Installation >40', Add</i>	21.95	
<i>For Work In Restricted Working Space, Add</i>	11.97	
26 05 33 13-1112 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	135.82	24.45
<i>For Elevated Installation >10' To 15', Add</i>	4.89	
<i>For Elevated Installation >15' To 20', Add</i>	9.78	
<i>For Elevated Installation >20' To 25', Add</i>	12.23	
<i>For Elevated Installation >25' To 30', Add</i>	17.12	
<i>For Elevated Installation >30' To 35', Add</i>	19.56	
<i>For Elevated Installation >35' To 40', Add</i>	24.46	
<i>For Elevated Installation >40', Add</i>	26.90	
<i>For Work In Restricted Working Space, Add</i>	14.67	
26 05 33 13-1113 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	160.34	28.32
<i>For Elevated Installation >10' To 15', Add</i>	5.66	
<i>For Elevated Installation >15' To 20', Add</i>	11.33	
<i>For Elevated Installation >20' To 25', Add</i>	14.16	
<i>For Elevated Installation >25' To 30', Add</i>	19.82	
<i>For Elevated Installation >30' To 35', Add</i>	22.65	
<i>For Elevated Installation >35' To 40', Add</i>	28.32	
<i>For Elevated Installation >40', Add</i>	31.15	
<i>For Work In Restricted Working Space, Add</i>	16.99	
26 05 33 13-1114 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbows <small>(26 05 33 13-0821)</small>		
26 05 33 13-1115 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	77.00	16.09
<i>For Elevated Installation >10' To 15', Add</i>	3.22	
<i>For Elevated Installation >15' To 20', Add</i>	6.44	
<i>For Elevated Installation >20' To 25', Add</i>	8.05	
<i>For Elevated Installation >25' To 30', Add</i>	11.26	
<i>For Elevated Installation >30' To 35', Add</i>	12.87	
<i>For Elevated Installation >35' To 40', Add</i>	16.09	
<i>For Elevated Installation >40', Add</i>	17.70	
<i>For Work In Restricted Working Space, Add</i>	9.65	
26 05 33 13-1116 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	88.81	19.95
<i>For Elevated Installation >10' To 15', Add</i>	3.99	
<i>For Elevated Installation >15' To 20', Add</i>	7.98	
<i>For Elevated Installation >20' To 25', Add</i>	9.98	
<i>For Elevated Installation >25' To 30', Add</i>	13.97	
<i>For Elevated Installation >30' To 35', Add</i>	15.96	
<i>For Elevated Installation >35' To 40', Add</i>	19.95	
<i>For Elevated Installation >40', Add</i>	21.95	
<i>For Work In Restricted Working Space, Add</i>	11.97	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1117	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	123.54	24.45
			<i>For Elevated Installation >10' To 15', Add</i>	4.89	
			<i>For Elevated Installation >15' To 20', Add</i>	9.78	
			<i>For Elevated Installation >20' To 25', Add</i>	12.23	
			<i>For Elevated Installation >25' To 30', Add</i>	17.12	
			<i>For Elevated Installation >30' To 35', Add</i>	19.56	
			<i>For Elevated Installation >35' To 40', Add</i>	24.46	
			<i>For Elevated Installation >40', Add</i>	26.90	
			<i>For Work In Restricted Working Space, Add</i>	14.67	
26 05 33 13-1118	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	160.43	28.32
			<i>For Elevated Installation >10' To 15', Add</i>	5.66	
			<i>For Elevated Installation >15' To 20', Add</i>	11.33	
			<i>For Elevated Installation >20' To 25', Add</i>	14.16	
			<i>For Elevated Installation >25' To 30', Add</i>	19.82	
			<i>For Elevated Installation >30' To 35', Add</i>	22.65	
			<i>For Elevated Installation >35' To 40', Add</i>	28.32	
			<i>For Elevated Installation >40', Add</i>	31.15	
			<i>For Work In Restricted Working Space, Add</i>	16.99	
26 05 33 13-1119	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	195.62	32.18
			<i>For Elevated Installation >10' To 15', Add</i>	6.44	
			<i>For Elevated Installation >15' To 20', Add</i>	12.87	
			<i>For Elevated Installation >20' To 25', Add</i>	16.09	
			<i>For Elevated Installation >25' To 30', Add</i>	22.52	
			<i>For Elevated Installation >30' To 35', Add</i>	25.74	
			<i>For Elevated Installation >35' To 40', Add</i>	32.18	
			<i>For Elevated Installation >40', Add</i>	35.39	
			<i>For Work In Restricted Working Space, Add</i>	19.31	
26 05 33 13-1120	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	281.86	35.39
			<i>For Elevated Installation >10' To 15', Add</i>	7.08	
			<i>For Elevated Installation >15' To 20', Add</i>	14.16	
			<i>For Elevated Installation >20' To 25', Add</i>	17.70	
			<i>For Elevated Installation >25' To 30', Add</i>	24.78	
			<i>For Elevated Installation >30' To 35', Add</i>	28.32	
			<i>For Elevated Installation >35' To 40', Add</i>	35.40	
			<i>For Elevated Installation >40', Add</i>	38.93	
			<i>For Work In Restricted Working Space, Add</i>	21.24	
26 05 33 13-1121	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	385.39	44.41
			<i>For Elevated Installation >10' To 15', Add</i>	8.88	
			<i>For Elevated Installation >15' To 20', Add</i>	17.76	
			<i>For Elevated Installation >20' To 25', Add</i>	22.20	
			<i>For Elevated Installation >25' To 30', Add</i>	31.08	
			<i>For Elevated Installation >30' To 35', Add</i>	35.52	
			<i>For Elevated Installation >35' To 40', Add</i>	44.41	
			<i>For Elevated Installation >40', Add</i>	48.85	
			<i>For Work In Restricted Working Space, Add</i>	26.64	
26 05 33 13-1122			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbows <small>(26 05 33 13-0821)</small>		
26 05 33 13-1123	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	98.06	16.09
			<i>For Elevated Installation >10' To 15', Add</i>	3.22	
			<i>For Elevated Installation >15' To 20', Add</i>	6.44	
			<i>For Elevated Installation >20' To 25', Add</i>	8.05	
			<i>For Elevated Installation >25' To 30', Add</i>	11.26	
			<i>For Elevated Installation >30' To 35', Add</i>	12.87	
			<i>For Elevated Installation >35' To 40', Add</i>	16.09	
			<i>For Elevated Installation >40', Add</i>	17.70	
			<i>For Work In Restricted Working Space, Add</i>	9.65	
26 05 33 13-1124	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	116.93	19.95
			<i>For Elevated Installation >10' To 15', Add</i>	3.99	
			<i>For Elevated Installation >15' To 20', Add</i>	7.98	
			<i>For Elevated Installation >20' To 25', Add</i>	9.98	
			<i>For Elevated Installation >25' To 30', Add</i>	13.97	
			<i>For Elevated Installation >30' To 35', Add</i>	15.96	
			<i>For Elevated Installation >35' To 40', Add</i>	19.95	
			<i>For Elevated Installation >40', Add</i>	21.95	
			<i>For Work In Restricted Working Space, Add</i>	11.97	
26 05 33 13-1125	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	135.84	24.45
			<i>For Elevated Installation >10' To 15', Add</i>	4.89	
			<i>For Elevated Installation >15' To 20', Add</i>	9.78	
			<i>For Elevated Installation >20' To 25', Add</i>	12.23	
			<i>For Elevated Installation >25' To 30', Add</i>	17.12	
			<i>For Elevated Installation >30' To 35', Add</i>	19.56	
			<i>For Elevated Installation >35' To 40', Add</i>	24.46	
			<i>For Elevated Installation >40', Add</i>	26.90	
			<i>For Work In Restricted Working Space, Add</i>	14.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1126 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	160.39	28.32
<i>For Elevated Installation >10' To 15', Add</i>	5.66	
<i>For Elevated Installation >15' To 20', Add</i>	11.33	
<i>For Elevated Installation >20' To 25', Add</i>	14.16	
<i>For Elevated Installation >25' To 30', Add</i>	19.82	
<i>For Elevated Installation >30' To 35', Add</i>	22.65	
<i>For Elevated Installation >35' To 40', Add</i>	28.32	
<i>For Elevated Installation >40', Add</i>	31.15	
<i>For Work In Restricted Working Space, Add</i>	16.99	
26 05 33 13-1127 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbows <small>(26 05 33 13-0821)</small>		
26 05 33 13-1128 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	77.08	16.09
<i>For Elevated Installation >10' To 15', Add</i>	3.22	
<i>For Elevated Installation >15' To 20', Add</i>	6.44	
<i>For Elevated Installation >20' To 25', Add</i>	8.05	
<i>For Elevated Installation >25' To 30', Add</i>	11.26	
<i>For Elevated Installation >30' To 35', Add</i>	12.87	
<i>For Elevated Installation >35' To 40', Add</i>	16.09	
<i>For Elevated Installation >40', Add</i>	17.70	
<i>For Work In Restricted Working Space, Add</i>	9.65	
26 05 33 13-1129 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	88.81	19.95
<i>For Elevated Installation >10' To 15', Add</i>	3.99	
<i>For Elevated Installation >15' To 20', Add</i>	7.98	
<i>For Elevated Installation >20' To 25', Add</i>	9.98	
<i>For Elevated Installation >25' To 30', Add</i>	13.97	
<i>For Elevated Installation >30' To 35', Add</i>	15.96	
<i>For Elevated Installation >35' To 40', Add</i>	19.95	
<i>For Elevated Installation >40', Add</i>	21.95	
<i>For Work In Restricted Working Space, Add</i>	11.97	
26 05 33 13-1130 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	114.84	24.45
<i>For Elevated Installation >10' To 15', Add</i>	4.89	
<i>For Elevated Installation >15' To 20', Add</i>	9.78	
<i>For Elevated Installation >20' To 25', Add</i>	12.23	
<i>For Elevated Installation >25' To 30', Add</i>	17.12	
<i>For Elevated Installation >30' To 35', Add</i>	19.56	
<i>For Elevated Installation >35' To 40', Add</i>	24.46	
<i>For Elevated Installation >40', Add</i>	26.90	
<i>For Work In Restricted Working Space, Add</i>	14.67	
26 05 33 13-1131 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	143.54	28.32
<i>For Elevated Installation >10' To 15', Add</i>	5.66	
<i>For Elevated Installation >15' To 20', Add</i>	11.33	
<i>For Elevated Installation >20' To 25', Add</i>	14.16	
<i>For Elevated Installation >25' To 30', Add</i>	19.82	
<i>For Elevated Installation >30' To 35', Add</i>	22.65	
<i>For Elevated Installation >35' To 40', Add</i>	28.32	
<i>For Elevated Installation >40', Add</i>	31.15	
<i>For Work In Restricted Working Space, Add</i>	16.99	
26 05 33 13-1132 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	168.11	32.18
<i>For Elevated Installation >10' To 15', Add</i>	6.44	
<i>For Elevated Installation >15' To 20', Add</i>	12.87	
<i>For Elevated Installation >20' To 25', Add</i>	16.09	
<i>For Elevated Installation >25' To 30', Add</i>	22.52	
<i>For Elevated Installation >30' To 35', Add</i>	25.74	
<i>For Elevated Installation >35' To 40', Add</i>	32.18	
<i>For Elevated Installation >40', Add</i>	35.39	
<i>For Work In Restricted Working Space, Add</i>	19.31	
26 05 33 13-1133 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	193.72	35.39
<i>For Elevated Installation >10' To 15', Add</i>	7.08	
<i>For Elevated Installation >15' To 20', Add</i>	14.16	
<i>For Elevated Installation >20' To 25', Add</i>	17.70	
<i>For Elevated Installation >25' To 30', Add</i>	24.78	
<i>For Elevated Installation >30' To 35', Add</i>	28.32	
<i>For Elevated Installation >35' To 40', Add</i>	35.40	
<i>For Elevated Installation >40', Add</i>	38.93	
<i>For Work In Restricted Working Space, Add</i>	21.24	
26 05 33 13-1134 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	362.92	44.41
<i>For Elevated Installation >10' To 15', Add</i>	8.88	
<i>For Elevated Installation >15' To 20', Add</i>	17.76	
<i>For Elevated Installation >20' To 25', Add</i>	22.20	
<i>For Elevated Installation >25' To 30', Add</i>	31.08	
<i>For Elevated Installation >30' To 35', Add</i>	35.52	
<i>For Elevated Installation >35' To 40', Add</i>	44.41	
<i>For Elevated Installation >40', Add</i>	48.85	
<i>For Work In Restricted Working Space, Add</i>	26.64	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1135	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	415.45	60.49
			<i>For Elevated Installation >10' To 15', Add</i>	12.10	
			<i>For Elevated Installation >15' To 20', Add</i>	24.20	
			<i>For Elevated Installation >20' To 25', Add</i>	30.25	
			<i>For Elevated Installation >25' To 30', Add</i>	42.34	
			<i>For Elevated Installation >30' To 35', Add</i>	48.39	
			<i>For Elevated Installation >35' To 40', Add</i>	60.49	
			<i>For Elevated Installation >40', Add</i>	66.54	
			<i>For Work In Restricted Working Space, Add</i>	36.29	
26 05 33 13-1136	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	448.08	68.21
			<i>For Elevated Installation >10' To 15', Add</i>	13.64	
			<i>For Elevated Installation >15' To 20', Add</i>	27.29	
			<i>For Elevated Installation >20' To 25', Add</i>	34.11	
			<i>For Elevated Installation >25' To 30', Add</i>	47.75	
			<i>For Elevated Installation >30' To 35', Add</i>	54.57	
			<i>For Elevated Installation >35' To 40', Add</i>	68.22	
			<i>For Elevated Installation >40', Add</i>	75.04	
			<i>For Work In Restricted Working Space, Add</i>	40.93	
26 05 33 13-1137	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	552.57	88.81
			<i>For Elevated Installation >10' To 15', Add</i>	17.76	
			<i>For Elevated Installation >15' To 20', Add</i>	35.52	
			<i>For Elevated Installation >20' To 25', Add</i>	44.40	
			<i>For Elevated Installation >25' To 30', Add</i>	62.16	
			<i>For Elevated Installation >30' To 35', Add</i>	71.04	
			<i>For Elevated Installation >35' To 40', Add</i>	88.81	
			<i>For Elevated Installation >40', Add</i>	97.69	
			<i>For Work In Restricted Working Space, Add</i>	53.28	
26 05 33 13-1138 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbows <small>(26 05 33 13-0821)</small>					
26 05 33 13-1139	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	161.47	30.89
			<i>For Elevated Installation >10' To 15', Add</i>	6.18	
			<i>For Elevated Installation >15' To 20', Add</i>	12.36	
			<i>For Elevated Installation >20' To 25', Add</i>	15.45	
			<i>For Elevated Installation >25' To 30', Add</i>	21.62	
			<i>For Elevated Installation >30' To 35', Add</i>	24.71	
			<i>For Elevated Installation >35' To 40', Add</i>	30.89	
			<i>For Elevated Installation >40', Add</i>	33.98	
			<i>For Work In Restricted Working Space, Add</i>	18.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.53	
26 05 33 13-1140	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	174.40	35.39
			<i>For Elevated Installation >10' To 15', Add</i>	7.08	
			<i>For Elevated Installation >15' To 20', Add</i>	14.16	
			<i>For Elevated Installation >20' To 25', Add</i>	17.70	
			<i>For Elevated Installation >25' To 30', Add</i>	24.78	
			<i>For Elevated Installation >30' To 35', Add</i>	28.32	
			<i>For Elevated Installation >35' To 40', Add</i>	35.40	
			<i>For Elevated Installation >40', Add</i>	38.93	
			<i>For Work In Restricted Working Space, Add</i>	21.24	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.24	
26 05 33 13-1141	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	190.83	40.55
			<i>For Elevated Installation >10' To 15', Add</i>	8.11	
			<i>For Elevated Installation >15' To 20', Add</i>	16.22	
			<i>For Elevated Installation >20' To 25', Add</i>	20.27	
			<i>For Elevated Installation >25' To 30', Add</i>	28.38	
			<i>For Elevated Installation >30' To 35', Add</i>	32.44	
			<i>For Elevated Installation >35' To 40', Add</i>	40.55	
			<i>For Elevated Installation >40', Add</i>	44.60	
			<i>For Work In Restricted Working Space, Add</i>	24.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.33	
26 05 33 13-1142	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	256.67	46.97
			<i>For Elevated Installation >10' To 15', Add</i>	9.40	
			<i>For Elevated Installation >15' To 20', Add</i>	18.79	
			<i>For Elevated Installation >20' To 25', Add</i>	23.49	
			<i>For Elevated Installation >25' To 30', Add</i>	32.89	
			<i>For Elevated Installation >30' To 35', Add</i>	37.58	
			<i>For Elevated Installation >35' To 40', Add</i>	46.98	
			<i>For Elevated Installation >40', Add</i>	51.68	
			<i>For Work In Restricted Working Space, Add</i>	28.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.19	
26 05 33 13-1143	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	326.98	51.49
			<i>For Elevated Installation >10' To 15', Add</i>	10.30	
			<i>For Elevated Installation >15' To 20', Add</i>	20.59	
			<i>For Elevated Installation >20' To 25', Add</i>	25.74	
			<i>For Elevated Installation >25' To 30', Add</i>	36.04	
			<i>For Elevated Installation >30' To 35', Add</i>	41.18	
			<i>For Elevated Installation >35' To 40', Add</i>	51.48	
			<i>For Elevated Installation >40', Add</i>	56.63	
			<i>For Work In Restricted Working Space, Add</i>	30.89	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.89	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1144 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Boxes With Cast Iron Cover <small>(26 05 33 13-0821)</small>		
26 05 33 13-1145 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	194.76	30.89
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.36	
For Elevated Installation >20' To 25', Add	15.45	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.71	
For Elevated Installation >35' To 40', Add	30.89	
For Elevated Installation >40', Add	33.98	
For Work In Restricted Working Space, Add	18.53	
26 05 33 13-1146 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	209.73	35.39
For Elevated Installation >10' To 15', Add	7.08	
For Elevated Installation >15' To 20', Add	14.16	
For Elevated Installation >20' To 25', Add	17.70	
For Elevated Installation >25' To 30', Add	24.78	
For Elevated Installation >30' To 35', Add	28.32	
For Elevated Installation >35' To 40', Add	35.40	
For Elevated Installation >40', Add	38.93	
For Work In Restricted Working Space, Add	21.24	
26 05 33 13-1147 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	245.19	40.55
For Elevated Installation >10' To 15', Add	8.11	
For Elevated Installation >15' To 20', Add	16.22	
For Elevated Installation >20' To 25', Add	20.27	
For Elevated Installation >25' To 30', Add	28.38	
For Elevated Installation >30' To 35', Add	32.44	
For Elevated Installation >35' To 40', Add	40.55	
For Elevated Installation >40', Add	44.60	
For Work In Restricted Working Space, Add	24.33	
26 05 33 13-1148 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	351.03	46.97
For Elevated Installation >10' To 15', Add	9.40	
For Elevated Installation >15' To 20', Add	18.79	
For Elevated Installation >20' To 25', Add	23.49	
For Elevated Installation >25' To 30', Add	32.89	
For Elevated Installation >30' To 35', Add	37.58	
For Elevated Installation >35' To 40', Add	46.98	
For Elevated Installation >40', Add	51.68	
For Work In Restricted Working Space, Add	28.19	
26 05 33 13-1149 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	571.48	51.49
For Elevated Installation >10' To 15', Add	10.30	
For Elevated Installation >15' To 20', Add	20.59	
For Elevated Installation >20' To 25', Add	25.74	
For Elevated Installation >25' To 30', Add	36.04	
For Elevated Installation >30' To 35', Add	41.18	
For Elevated Installation >35' To 40', Add	51.48	
For Elevated Installation >40', Add	56.63	
For Work In Restricted Working Space, Add	30.89	
26 05 33 13-1150 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	617.20	61.78
For Elevated Installation >10' To 15', Add	12.36	
For Elevated Installation >15' To 20', Add	24.71	
For Elevated Installation >20' To 25', Add	30.89	
For Elevated Installation >25' To 30', Add	43.25	
For Elevated Installation >30' To 35', Add	49.42	
For Elevated Installation >35' To 40', Add	61.78	
For Elevated Installation >40', Add	67.96	
For Work In Restricted Working Space, Add	37.07	
26 05 33 13-1151 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Boxes With Cast Iron Cover <small>(26 05 33 13-0821)</small>		
26 05 33 13-1152 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	213.65	30.89
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.36	
For Elevated Installation >20' To 25', Add	15.45	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.71	
For Elevated Installation >35' To 40', Add	30.89	
For Elevated Installation >40', Add	33.98	
For Work In Restricted Working Space, Add	18.53	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1153	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	241.24	35.39
			<i>For Elevated Installation >10' To 15', Add</i>	7.08	
			<i>For Elevated Installation >15' To 20', Add</i>	14.16	
			<i>For Elevated Installation >20' To 25', Add</i>	17.70	
			<i>For Elevated Installation >25' To 30', Add</i>	24.78	
			<i>For Elevated Installation >30' To 35', Add</i>	28.32	
			<i>For Elevated Installation >35' To 40', Add</i>	35.40	
			<i>For Elevated Installation >40', Add</i>	38.93	
			<i>For Work In Restricted Working Space, Add</i>	21.24	
26 05 33 13-1154	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	263.17	40.55
			<i>For Elevated Installation >10' To 15', Add</i>	8.11	
			<i>For Elevated Installation >15' To 20', Add</i>	16.22	
			<i>For Elevated Installation >20' To 25', Add</i>	20.27	
			<i>For Elevated Installation >25' To 30', Add</i>	28.38	
			<i>For Elevated Installation >30' To 35', Add</i>	32.44	
			<i>For Elevated Installation >35' To 40', Add</i>	40.55	
			<i>For Elevated Installation >40', Add</i>	44.60	
			<i>For Work In Restricted Working Space, Add</i>	24.33	
26 05 33 13-1155	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	369.29	46.97
			<i>For Elevated Installation >10' To 15', Add</i>	9.40	
			<i>For Elevated Installation >15' To 20', Add</i>	18.79	
			<i>For Elevated Installation >20' To 25', Add</i>	23.49	
			<i>For Elevated Installation >25' To 30', Add</i>	32.89	
			<i>For Elevated Installation >30' To 35', Add</i>	37.58	
			<i>For Elevated Installation >35' To 40', Add</i>	46.98	
			<i>For Elevated Installation >40', Add</i>	51.68	
			<i>For Work In Restricted Working Space, Add</i>	28.19	
26 05 33 13-1156	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	615.05	51.49
			<i>For Elevated Installation >10' To 15', Add</i>	10.30	
			<i>For Elevated Installation >15' To 20', Add</i>	20.59	
			<i>For Elevated Installation >20' To 25', Add</i>	25.74	
			<i>For Elevated Installation >25' To 30', Add</i>	36.04	
			<i>For Elevated Installation >30' To 35', Add</i>	41.18	
			<i>For Elevated Installation >35' To 40', Add</i>	51.48	
			<i>For Elevated Installation >40', Add</i>	56.63	
			<i>For Work In Restricted Working Space, Add</i>	30.89	
26 05 33 13-1157	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	657.19	61.78
			<i>For Elevated Installation >10' To 15', Add</i>	12.36	
			<i>For Elevated Installation >15' To 20', Add</i>	24.71	
			<i>For Elevated Installation >20' To 25', Add</i>	30.89	
			<i>For Elevated Installation >25' To 30', Add</i>	43.25	
			<i>For Elevated Installation >30' To 35', Add</i>	49.42	
			<i>For Elevated Installation >35' To 40', Add</i>	61.78	
			<i>For Elevated Installation >40', Add</i>	67.96	
			<i>For Work In Restricted Working Space, Add</i>	37.07	
26 05 33 13-1158			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Boxes With Cast Iron Cover <small>(26 05 33 13-0821)</small>		
26 05 33 13-1159	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover.....	213.80	30.89
			<i>For Elevated Installation >10' To 15', Add</i>	6.18	
			<i>For Elevated Installation >15' To 20', Add</i>	12.36	
			<i>For Elevated Installation >20' To 25', Add</i>	15.45	
			<i>For Elevated Installation >25' To 30', Add</i>	21.62	
			<i>For Elevated Installation >30' To 35', Add</i>	24.71	
			<i>For Elevated Installation >35' To 40', Add</i>	30.89	
			<i>For Elevated Installation >40', Add</i>	33.98	
			<i>For Work In Restricted Working Space, Add</i>	18.53	
26 05 33 13-1160	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover.....	235.66	35.39
			<i>For Elevated Installation >10' To 15', Add</i>	7.08	
			<i>For Elevated Installation >15' To 20', Add</i>	14.16	
			<i>For Elevated Installation >20' To 25', Add</i>	17.70	
			<i>For Elevated Installation >25' To 30', Add</i>	24.78	
			<i>For Elevated Installation >30' To 35', Add</i>	28.32	
			<i>For Elevated Installation >35' To 40', Add</i>	35.40	
			<i>For Elevated Installation >40', Add</i>	38.93	
			<i>For Work In Restricted Working Space, Add</i>	21.24	
26 05 33 13-1161	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover.....	280.52	40.55
			<i>For Elevated Installation >10' To 15', Add</i>	8.11	
			<i>For Elevated Installation >15' To 20', Add</i>	16.22	
			<i>For Elevated Installation >20' To 25', Add</i>	20.27	
			<i>For Elevated Installation >25' To 30', Add</i>	28.38	
			<i>For Elevated Installation >30' To 35', Add</i>	32.44	
			<i>For Elevated Installation >35' To 40', Add</i>	40.55	
			<i>For Elevated Installation >40', Add</i>	44.60	
			<i>For Work In Restricted Working Space, Add</i>	24.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1162 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	383.21	46.97
<i>For Elevated Installation >10' To 15', Add</i>	9.40	
<i>For Elevated Installation >15' To 20', Add</i>	18.79	
<i>For Elevated Installation >20' To 25', Add</i>	23.49	
<i>For Elevated Installation >25' To 30', Add</i>	32.89	
<i>For Elevated Installation >30' To 35', Add</i>	37.58	
<i>For Elevated Installation >35' To 40', Add</i>	46.98	
<i>For Elevated Installation >40', Add</i>	51.68	
<i>For Work In Restricted Working Space, Add</i>	28.19	
26 05 33 13-1163 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	635.82	51.49
<i>For Elevated Installation >10' To 15', Add</i>	10.30	
<i>For Elevated Installation >15' To 20', Add</i>	20.59	
<i>For Elevated Installation >20' To 25', Add</i>	25.74	
<i>For Elevated Installation >25' To 30', Add</i>	36.04	
<i>For Elevated Installation >30' To 35', Add</i>	41.18	
<i>For Elevated Installation >35' To 40', Add</i>	51.48	
<i>For Elevated Installation >40', Add</i>	56.63	
<i>For Work In Restricted Working Space, Add</i>	30.89	
26 05 33 13-1164 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	682.78	61.78
<i>For Elevated Installation >10' To 15', Add</i>	12.36	
<i>For Elevated Installation >15' To 20', Add</i>	24.71	
<i>For Elevated Installation >20' To 25', Add</i>	30.89	
<i>For Elevated Installation >25' To 30', Add</i>	43.25	
<i>For Elevated Installation >30' To 35', Add</i>	49.42	
<i>For Elevated Installation >35' To 40', Add</i>	61.78	
<i>For Elevated Installation >40', Add</i>	67.96	
<i>For Work In Restricted Working Space, Add</i>	37.07	
26 05 33 13-1165 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Boxes With Cast Iron Cover <small>(26 05 33 13-082 1)</small>		
26 05 33 13-1166 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	266.09	30.89
<i>For Elevated Installation >10' To 15', Add</i>	6.18	
<i>For Elevated Installation >15' To 20', Add</i>	12.36	
<i>For Elevated Installation >20' To 25', Add</i>	15.45	
<i>For Elevated Installation >25' To 30', Add</i>	21.62	
<i>For Elevated Installation >30' To 35', Add</i>	24.71	
<i>For Elevated Installation >35' To 40', Add</i>	30.89	
<i>For Elevated Installation >40', Add</i>	33.98	
<i>For Work In Restricted Working Space, Add</i>	18.53	
26 05 33 13-1167 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	293.80	35.39
<i>For Elevated Installation >10' To 15', Add</i>	7.08	
<i>For Elevated Installation >15' To 20', Add</i>	14.16	
<i>For Elevated Installation >20' To 25', Add</i>	17.70	
<i>For Elevated Installation >25' To 30', Add</i>	24.78	
<i>For Elevated Installation >30' To 35', Add</i>	28.32	
<i>For Elevated Installation >35' To 40', Add</i>	35.40	
<i>For Elevated Installation >40', Add</i>	38.93	
<i>For Work In Restricted Working Space, Add</i>	21.24	
26 05 33 13-1168 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	318.33	40.55
<i>For Elevated Installation >10' To 15', Add</i>	8.11	
<i>For Elevated Installation >15' To 20', Add</i>	16.22	
<i>For Elevated Installation >20' To 25', Add</i>	20.27	
<i>For Elevated Installation >25' To 30', Add</i>	28.38	
<i>For Elevated Installation >30' To 35', Add</i>	32.44	
<i>For Elevated Installation >35' To 40', Add</i>	40.55	
<i>For Elevated Installation >40', Add</i>	44.60	
<i>For Work In Restricted Working Space, Add</i>	24.33	
26 05 33 13-1169 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	805.87	46.97
<i>For Elevated Installation >10' To 15', Add</i>	9.40	
<i>For Elevated Installation >15' To 20', Add</i>	18.79	
<i>For Elevated Installation >20' To 25', Add</i>	23.49	
<i>For Elevated Installation >25' To 30', Add</i>	32.89	
<i>For Elevated Installation >30' To 35', Add</i>	37.58	
<i>For Elevated Installation >35' To 40', Add</i>	46.98	
<i>For Elevated Installation >40', Add</i>	51.68	
<i>For Work In Restricted Working Space, Add</i>	28.19	

26 05 33 13-1170 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Boxes (26 05 33 13-082 1)
 Note: Excludes cover.

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1171	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 126.65		30.89
			<i>For Elevated Installation >10' To 15', Add</i>	6.18	
			<i>For Elevated Installation >15' To 20', Add</i>	12.36	
			<i>For Elevated Installation >20' To 25', Add</i>	15.45	
			<i>For Elevated Installation >25' To 30', Add</i>	21.62	
			<i>For Elevated Installation >30' To 35', Add</i>	24.71	
			<i>For Elevated Installation >35' To 40', Add</i>	30.89	
			<i>For Elevated Installation >40', Add</i>	33.98	
			<i>For Work In Restricted Working Space, Add</i>	18.53	
26 05 33 13-1172	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 139.17		35.39
			<i>For Elevated Installation >10' To 15', Add</i>	7.08	
			<i>For Elevated Installation >15' To 20', Add</i>	14.16	
			<i>For Elevated Installation >20' To 25', Add</i>	17.70	
			<i>For Elevated Installation >25' To 30', Add</i>	24.78	
			<i>For Elevated Installation >30' To 35', Add</i>	28.32	
			<i>For Elevated Installation >35' To 40', Add</i>	35.40	
			<i>For Elevated Installation >40', Add</i>	38.93	
			<i>For Work In Restricted Working Space, Add</i>	21.24	
26 05 33 13-1173	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 155.33		40.55
			<i>For Elevated Installation >10' To 15', Add</i>	8.11	
			<i>For Elevated Installation >15' To 20', Add</i>	16.22	
			<i>For Elevated Installation >20' To 25', Add</i>	20.27	
			<i>For Elevated Installation >25' To 30', Add</i>	28.38	
			<i>For Elevated Installation >30' To 35', Add</i>	32.44	
			<i>For Elevated Installation >35' To 40', Add</i>	40.55	
			<i>For Elevated Installation >40', Add</i>	44.60	
			<i>For Work In Restricted Working Space, Add</i>	24.33	
26 05 33 13-1174	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 140.83		30.89
			<i>For Elevated Installation >10' To 15', Add</i>	6.18	
			<i>For Elevated Installation >15' To 20', Add</i>	12.36	
			<i>For Elevated Installation >20' To 25', Add</i>	15.45	
			<i>For Elevated Installation >25' To 30', Add</i>	21.62	
			<i>For Elevated Installation >30' To 35', Add</i>	24.71	
			<i>For Elevated Installation >35' To 40', Add</i>	30.89	
			<i>For Elevated Installation >40', Add</i>	33.98	
			<i>For Work In Restricted Working Space, Add</i>	18.53	
26 05 33 13-1175	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 151.57		35.39
			<i>For Elevated Installation >10' To 15', Add</i>	7.08	
			<i>For Elevated Installation >15' To 20', Add</i>	14.16	
			<i>For Elevated Installation >20' To 25', Add</i>	17.70	
			<i>For Elevated Installation >25' To 30', Add</i>	24.78	
			<i>For Elevated Installation >30' To 35', Add</i>	28.32	
			<i>For Elevated Installation >35' To 40', Add</i>	35.40	
			<i>For Elevated Installation >40', Add</i>	38.93	
			<i>For Work In Restricted Working Space, Add</i>	21.24	
26 05 33 13-1176	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 172.56		40.55
			<i>For Elevated Installation >10' To 15', Add</i>	8.11	
			<i>For Elevated Installation >15' To 20', Add</i>	16.22	
			<i>For Elevated Installation >20' To 25', Add</i>	20.27	
			<i>For Elevated Installation >25' To 30', Add</i>	28.38	
			<i>For Elevated Installation >30' To 35', Add</i>	32.44	
			<i>For Elevated Installation >35' To 40', Add</i>	40.55	
			<i>For Elevated Installation >40', Add</i>	44.60	
			<i>For Work In Restricted Working Space, Add</i>	24.33	
26 05 33 13-1177			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Boxes <small>(26 05 33 13-021)</small>		
			Note: Excludes cover.		
26 05 33 13-1178	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box 133.35		30.89
			<i>For Elevated Installation >10' To 15', Add</i>	6.18	
			<i>For Elevated Installation >15' To 20', Add</i>	12.36	
			<i>For Elevated Installation >20' To 25', Add</i>	15.45	
			<i>For Elevated Installation >25' To 30', Add</i>	21.62	
			<i>For Elevated Installation >30' To 35', Add</i>	24.71	
			<i>For Elevated Installation >35' To 40', Add</i>	30.89	
			<i>For Elevated Installation >40', Add</i>	33.98	
			<i>For Work In Restricted Working Space, Add</i>	18.53	
26 05 33 13-1179	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box 146.71		35.39
			<i>For Elevated Installation >10' To 15', Add</i>	7.08	
			<i>For Elevated Installation >15' To 20', Add</i>	14.16	
			<i>For Elevated Installation >20' To 25', Add</i>	17.70	
			<i>For Elevated Installation >25' To 30', Add</i>	24.78	
			<i>For Elevated Installation >30' To 35', Add</i>	28.32	
			<i>For Elevated Installation >35' To 40', Add</i>	35.40	
			<i>For Elevated Installation >40', Add</i>	38.93	
			<i>For Work In Restricted Working Space, Add</i>	21.24	
26 05 33 13-1180	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box 160.55		40.55
			<i>For Elevated Installation >10' To 15', Add</i>	8.11	
			<i>For Elevated Installation >15' To 20', Add</i>	16.22	
			<i>For Elevated Installation >20' To 25', Add</i>	20.27	
			<i>For Elevated Installation >25' To 30', Add</i>	28.38	
			<i>For Elevated Installation >30' To 35', Add</i>	32.44	
			<i>For Elevated Installation >35' To 40', Add</i>	40.55	
			<i>For Elevated Installation >40', Add</i>	44.60	
			<i>For Work In Restricted Working Space, Add</i>	24.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1181 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	150.42	30.89
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.36	
For Elevated Installation >20' To 25', Add	15.45	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.71	
For Elevated Installation >35' To 40', Add	30.89	
For Elevated Installation >40', Add	33.98	
For Work In Restricted Working Space, Add	18.53	
26 05 33 13-1182 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	163.95	35.39
For Elevated Installation >10' To 15', Add	7.08	
For Elevated Installation >15' To 20', Add	14.16	
For Elevated Installation >20' To 25', Add	17.70	
For Elevated Installation >25' To 30', Add	24.78	
For Elevated Installation >30' To 35', Add	28.32	
For Elevated Installation >35' To 40', Add	35.40	
For Elevated Installation >40', Add	38.93	
For Work In Restricted Working Space, Add	21.24	
26 05 33 13-1183 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	185.30	40.55
For Elevated Installation >10' To 15', Add	8.11	
For Elevated Installation >15' To 20', Add	16.22	
For Elevated Installation >20' To 25', Add	20.27	
For Elevated Installation >25' To 30', Add	28.38	
For Elevated Installation >30' To 35', Add	32.44	
For Elevated Installation >35' To 40', Add	40.55	
For Elevated Installation >40', Add	44.60	
For Work In Restricted Working Space, Add	24.33	
 26 05 33 13-1184 Polyvinyl Chloride (PVC) Coated, Urethane Lined, FS And FD Series Covers		
<small>(26 05 33 13-0821)</small>		
26 05 33 13-1185 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS23, FS And FD Series Cover	47.86	3.86
For Elevated Installation >10' To 15', Add	0.77	
For Elevated Installation >15' To 20', Add	1.54	
For Elevated Installation >20' To 25', Add	1.93	
For Elevated Installation >25' To 30', Add	2.70	
For Elevated Installation >30' To 35', Add	3.09	
For Elevated Installation >35' To 40', Add	3.86	
For Elevated Installation >40', Add	4.25	
For Work In Restricted Working Space, Add	2.32	
26 05 33 13-1186 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS21G, FS And FD Series Cover.....	65.15	4.50
For Elevated Installation >10' To 15', Add	0.90	
For Elevated Installation >15' To 20', Add	1.80	
For Elevated Installation >20' To 25', Add	2.25	
For Elevated Installation >25' To 30', Add	3.15	
For Elevated Installation >30' To 35', Add	3.60	
For Elevated Installation >35' To 40', Add	4.51	
For Elevated Installation >40', Add	4.96	
For Work In Restricted Working Space, Add	2.70	
26 05 33 13-1187 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS32G, FS And FD Series Cover.....	61.48	4.50
For Elevated Installation >10' To 15', Add	0.90	
For Elevated Installation >15' To 20', Add	1.80	
For Elevated Installation >20' To 25', Add	2.25	
For Elevated Installation >25' To 30', Add	3.15	
For Elevated Installation >30' To 35', Add	3.60	
For Elevated Installation >35' To 40', Add	4.51	
For Elevated Installation >40', Add	4.96	
For Work In Restricted Working Space, Add	2.70	
26 05 33 13-1188 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS100G, FS And FD Series Cover.....	54.60	4.50
For Elevated Installation >10' To 15', Add	0.90	
For Elevated Installation >15' To 20', Add	1.80	
For Elevated Installation >20' To 25', Add	2.25	
For Elevated Installation >25' To 30', Add	3.15	
For Elevated Installation >30' To 35', Add	3.60	
For Elevated Installation >35' To 40', Add	4.51	
For Elevated Installation >40', Add	4.96	
For Work In Restricted Working Space, Add	2.70	
26 05 33 13-1189 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRD1, FS And FD Series Cover.....	267.63	6.44
For Elevated Installation >10' To 15', Add	1.29	
For Elevated Installation >15' To 20', Add	2.57	
For Elevated Installation >20' To 25', Add	3.22	
For Elevated Installation >25' To 30', Add	4.50	
For Elevated Installation >30' To 35', Add	5.15	
For Elevated Installation >35' To 40', Add	6.44	
For Elevated Installation >40', Add	7.08	
For Work In Restricted Working Space, Add	3.86	
26 05 33 13-1190 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRS1, FS And FD Series Cover.....	237.83	6.44
For Elevated Installation >10' To 15', Add	1.29	
For Elevated Installation >15' To 20', Add	2.57	
For Elevated Installation >20' To 25', Add	3.22	
For Elevated Installation >25' To 30', Add	4.50	
For Elevated Installation >30' To 35', Add	5.15	
For Elevated Installation >35' To 40', Add	6.44	
For Elevated Installation >40', Add	7.08	
For Work In Restricted Working Space, Add	3.86	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1191			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Mogul Conduit Bodies <small>(26 05 33 13-0821)</small> Note: Includes covers.		
26 05 33 13-1192	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....276.68	40.55	
			For Elevated Installation >10' To 15', Add	8.11	
			For Elevated Installation >15' To 20', Add	16.22	
			For Elevated Installation >20' To 25', Add	20.27	
			For Elevated Installation >25' To 30', Add	28.38	
			For Elevated Installation >30' To 35', Add	32.44	
			For Elevated Installation >35' To 40', Add	40.55	
			For Elevated Installation >40', Add	44.60	
			For Work In Restricted Working Space, Add	24.33	
26 05 33 13-1193	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....310.65	46.97	
			For Elevated Installation >10' To 15', Add	9.40	
			For Elevated Installation >15' To 20', Add	18.79	
			For Elevated Installation >20' To 25', Add	23.49	
			For Elevated Installation >25' To 30', Add	32.89	
			For Elevated Installation >30' To 35', Add	37.58	
			For Elevated Installation >35' To 40', Add	46.98	
			For Elevated Installation >40', Add	51.68	
			For Work In Restricted Working Space, Add	28.19	
26 05 33 13-1194	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....430.09	51.49	
			For Elevated Installation >10' To 15', Add	10.30	
			For Elevated Installation >15' To 20', Add	20.59	
			For Elevated Installation >20' To 25', Add	25.74	
			For Elevated Installation >25' To 30', Add	36.04	
			For Elevated Installation >30' To 35', Add	41.18	
			For Elevated Installation >35' To 40', Add	51.48	
			For Elevated Installation >40', Add	56.63	
			For Work In Restricted Working Space, Add	30.89	
26 05 33 13-1195	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....512.46	61.78	
			For Elevated Installation >10' To 15', Add	12.36	
			For Elevated Installation >15' To 20', Add	24.71	
			For Elevated Installation >20' To 25', Add	30.89	
			For Elevated Installation >25' To 30', Add	43.25	
			For Elevated Installation >30' To 35', Add	49.42	
			For Elevated Installation >35' To 40', Add	61.78	
			For Elevated Installation >40', Add	67.96	
			For Work In Restricted Working Space, Add	37.07	
26 05 33 13-1196	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....740.52	86.88	
			For Elevated Installation >10' To 15', Add	17.38	
			For Elevated Installation >15' To 20', Add	34.75	
			For Elevated Installation >20' To 25', Add	43.44	
			For Elevated Installation >25' To 30', Add	60.81	
			For Elevated Installation >30' To 35', Add	69.50	
			For Elevated Installation >35' To 40', Add	86.88	
			For Elevated Installation >40', Add	95.56	
			For Work In Restricted Working Space, Add	52.13	
26 05 33 13-1197	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....933.85	115.84	
			For Elevated Installation >10' To 15', Add	23.17	
			For Elevated Installation >15' To 20', Add	46.33	
			For Elevated Installation >20' To 25', Add	57.92	
			For Elevated Installation >25' To 30', Add	81.08	
			For Elevated Installation >30' To 35', Add	92.67	
			For Elevated Installation >35' To 40', Add	115.84	
			For Elevated Installation >40', Add	127.42	
			For Work In Restricted Working Space, Add	69.50	
26 05 33 13-1198	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....1,371.03	144.79	
			For Elevated Installation >10' To 15', Add	28.96	
			For Elevated Installation >15' To 20', Add	57.92	
			For Elevated Installation >20' To 25', Add	72.40	
			For Elevated Installation >25' To 30', Add	101.36	
			For Elevated Installation >30' To 35', Add	115.84	
			For Elevated Installation >35' To 40', Add	144.80	
			For Elevated Installation >40', Add	159.27	
			For Work In Restricted Working Space, Add	86.88	
26 05 33 13-1199	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....1,701.48	176.33	
			For Elevated Installation >10' To 15', Add	35.27	
			For Elevated Installation >15' To 20', Add	70.53	
			For Elevated Installation >20' To 25', Add	88.17	
			For Elevated Installation >25' To 30', Add	123.43	
			For Elevated Installation >30' To 35', Add	141.06	
			For Elevated Installation >35' To 40', Add	176.33	
			For Elevated Installation >40', Add	193.96	
			For Work In Restricted Working Space, Add	105.80	
26 05 33 13-1200	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....276.68	40.55	
			For Elevated Installation >10' To 15', Add	8.11	
			For Elevated Installation >15' To 20', Add	16.22	
			For Elevated Installation >20' To 25', Add	20.27	
			For Elevated Installation >25' To 30', Add	28.38	
			For Elevated Installation >30' To 35', Add	32.44	
			For Elevated Installation >35' To 40', Add	40.55	
			For Elevated Installation >40', Add	44.60	
			For Work In Restricted Working Space, Add	24.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1201 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	310.65	46.97
For Elevated Installation >10' To 15', Add	9.40	
For Elevated Installation >15' To 20', Add	18.79	
For Elevated Installation >20' To 25', Add	23.49	
For Elevated Installation >25' To 30', Add	32.89	
For Elevated Installation >30' To 35', Add	37.58	
For Elevated Installation >35' To 40', Add	46.98	
For Elevated Installation >40', Add	51.68	
For Work In Restricted Working Space, Add	28.19	
26 05 33 13-1202 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	428.89	51.49
For Elevated Installation >10' To 15', Add	10.30	
For Elevated Installation >15' To 20', Add	20.59	
For Elevated Installation >20' To 25', Add	25.74	
For Elevated Installation >25' To 30', Add	36.04	
For Elevated Installation >30' To 35', Add	41.18	
For Elevated Installation >35' To 40', Add	51.48	
For Elevated Installation >40', Add	56.63	
For Work In Restricted Working Space, Add	30.89	
26 05 33 13-1203 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	500.32	61.78
For Elevated Installation >10' To 15', Add	12.36	
For Elevated Installation >15' To 20', Add	24.71	
For Elevated Installation >20' To 25', Add	30.89	
For Elevated Installation >25' To 30', Add	43.25	
For Elevated Installation >30' To 35', Add	49.42	
For Elevated Installation >35' To 40', Add	61.78	
For Elevated Installation >40', Add	67.96	
For Work In Restricted Working Space, Add	37.07	
26 05 33 13-1204 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	751.70	86.88
For Elevated Installation >10' To 15', Add	17.38	
For Elevated Installation >15' To 20', Add	34.75	
For Elevated Installation >20' To 25', Add	43.44	
For Elevated Installation >25' To 30', Add	60.81	
For Elevated Installation >30' To 35', Add	69.50	
For Elevated Installation >35' To 40', Add	86.88	
For Elevated Installation >40', Add	95.56	
For Work In Restricted Working Space, Add	52.13	
26 05 33 13-1205 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	983.98	115.84
For Elevated Installation >10' To 15', Add	23.17	
For Elevated Installation >15' To 20', Add	46.33	
For Elevated Installation >20' To 25', Add	57.92	
For Elevated Installation >25' To 30', Add	81.08	
For Elevated Installation >30' To 35', Add	92.67	
For Elevated Installation >35' To 40', Add	115.84	
For Elevated Installation >40', Add	127.42	
For Work In Restricted Working Space, Add	69.50	
26 05 33 13-1206 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	1,431.55	144.79
For Elevated Installation >10' To 15', Add	28.96	
For Elevated Installation >15' To 20', Add	57.92	
For Elevated Installation >20' To 25', Add	72.40	
For Elevated Installation >25' To 30', Add	101.36	
For Elevated Installation >30' To 35', Add	115.84	
For Elevated Installation >35' To 40', Add	144.80	
For Elevated Installation >40', Add	159.27	
For Work In Restricted Working Space, Add	86.88	
26 05 33 13-1207 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	1,739.16	176.33
For Elevated Installation >10' To 15', Add	35.27	
For Elevated Installation >15' To 20', Add	70.53	
For Elevated Installation >20' To 25', Add	88.17	
For Elevated Installation >25' To 30', Add	123.43	
For Elevated Installation >30' To 35', Add	141.06	
For Elevated Installation >35' To 40', Add	176.33	
For Elevated Installation >40', Add	193.96	
For Work In Restricted Working Space, Add	105.80	
26 05 33 13-1208 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	276.68	40.55
For Elevated Installation >10' To 15', Add	8.11	
For Elevated Installation >15' To 20', Add	16.22	
For Elevated Installation >20' To 25', Add	20.27	
For Elevated Installation >25' To 30', Add	28.38	
For Elevated Installation >30' To 35', Add	32.44	
For Elevated Installation >35' To 40', Add	40.55	
For Elevated Installation >40', Add	44.60	
For Work In Restricted Working Space, Add	24.33	
26 05 33 13-1209 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	310.65	46.97
For Elevated Installation >10' To 15', Add	9.40	
For Elevated Installation >15' To 20', Add	18.79	
For Elevated Installation >20' To 25', Add	23.49	
For Elevated Installation >25' To 30', Add	32.89	
For Elevated Installation >30' To 35', Add	37.58	
For Elevated Installation >35' To 40', Add	46.98	
For Elevated Installation >40', Add	51.68	
For Work In Restricted Working Space, Add	28.19	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1210	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body .....428.89		51.49
			<i>For Elevated Installation >10' To 15', Add</i>	10.30	
			<i>For Elevated Installation >15' To 20', Add</i>	20.59	
			<i>For Elevated Installation >20' To 25', Add</i>	25.74	
			<i>For Elevated Installation >25' To 30', Add</i>	36.04	
			<i>For Elevated Installation >30' To 35', Add</i>	41.18	
			<i>For Elevated Installation >35' To 40', Add</i>	51.48	
			<i>For Elevated Installation >40', Add</i>	56.63	
			<i>For Work In Restricted Working Space, Add</i>	30.89	
26 05 33 13-1211	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....500.32		61.78
			<i>For Elevated Installation >10' To 15', Add</i>	12.36	
			<i>For Elevated Installation >15' To 20', Add</i>	24.71	
			<i>For Elevated Installation >20' To 25', Add</i>	30.89	
			<i>For Elevated Installation >25' To 30', Add</i>	43.25	
			<i>For Elevated Installation >30' To 35', Add</i>	49.42	
			<i>For Elevated Installation >35' To 40', Add</i>	61.78	
			<i>For Elevated Installation >40', Add</i>	67.96	
			<i>For Work In Restricted Working Space, Add</i>	37.07	
26 05 33 13-1212	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body .....751.70		86.88
			<i>For Elevated Installation >10' To 15', Add</i>	17.38	
			<i>For Elevated Installation >15' To 20', Add</i>	34.75	
			<i>For Elevated Installation >20' To 25', Add</i>	43.44	
			<i>For Elevated Installation >25' To 30', Add</i>	60.81	
			<i>For Elevated Installation >30' To 35', Add</i>	69.50	
			<i>For Elevated Installation >35' To 40', Add</i>	86.88	
			<i>For Elevated Installation >40', Add</i>	95.56	
			<i>For Work In Restricted Working Space, Add</i>	52.13	
26 05 33 13-1213	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....983.98		115.84
			<i>For Elevated Installation >10' To 15', Add</i>	23.17	
			<i>For Elevated Installation >15' To 20', Add</i>	46.33	
			<i>For Elevated Installation >20' To 25', Add</i>	57.92	
			<i>For Elevated Installation >25' To 30', Add</i>	81.08	
			<i>For Elevated Installation >30' To 35', Add</i>	92.67	
			<i>For Elevated Installation >35' To 40', Add</i>	115.84	
			<i>For Elevated Installation >40', Add</i>	127.42	
			<i>For Work In Restricted Working Space, Add</i>	69.50	
26 05 33 13-1214	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body .....1,431.55		144.79
			<i>For Elevated Installation >10' To 15', Add</i>	28.96	
			<i>For Elevated Installation >15' To 20', Add</i>	57.92	
			<i>For Elevated Installation >20' To 25', Add</i>	72.40	
			<i>For Elevated Installation >25' To 30', Add</i>	101.36	
			<i>For Elevated Installation >30' To 35', Add</i>	115.84	
			<i>For Elevated Installation >35' To 40', Add</i>	144.80	
			<i>For Elevated Installation >40', Add</i>	159.27	
			<i>For Work In Restricted Working Space, Add</i>	86.88	
26 05 33 13-1215	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....1,739.16		176.33
			<i>For Elevated Installation >10' To 15', Add</i>	35.27	
			<i>For Elevated Installation >15' To 20', Add</i>	70.53	
			<i>For Elevated Installation >20' To 25', Add</i>	88.17	
			<i>For Elevated Installation >25' To 30', Add</i>	123.43	
			<i>For Elevated Installation >30' To 35', Add</i>	141.06	
			<i>For Elevated Installation >35' To 40', Add</i>	176.33	
			<i>For Elevated Installation >40', Add</i>	193.96	
			<i>For Work In Restricted Working Space, Add</i>	105.80	
26 05 33 13-1216	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....276.68		40.55
			<i>For Elevated Installation >10' To 15', Add</i>	8.11	
			<i>For Elevated Installation >15' To 20', Add</i>	16.22	
			<i>For Elevated Installation >20' To 25', Add</i>	20.27	
			<i>For Elevated Installation >25' To 30', Add</i>	28.38	
			<i>For Elevated Installation >30' To 35', Add</i>	32.44	
			<i>For Elevated Installation >35' To 40', Add</i>	40.55	
			<i>For Elevated Installation >40', Add</i>	44.60	
			<i>For Work In Restricted Working Space, Add</i>	24.33	
26 05 33 13-1217	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....310.65		46.97
			<i>For Elevated Installation >10' To 15', Add</i>	9.40	
			<i>For Elevated Installation >15' To 20', Add</i>	18.79	
			<i>For Elevated Installation >20' To 25', Add</i>	23.49	
			<i>For Elevated Installation >25' To 30', Add</i>	32.89	
			<i>For Elevated Installation >30' To 35', Add</i>	37.58	
			<i>For Elevated Installation >35' To 40', Add</i>	46.98	
			<i>For Elevated Installation >40', Add</i>	51.68	
			<i>For Work In Restricted Working Space, Add</i>	28.19	
26 05 33 13-1218	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....430.09		51.49
			<i>For Elevated Installation >10' To 15', Add</i>	10.30	
			<i>For Elevated Installation >15' To 20', Add</i>	20.59	
			<i>For Elevated Installation >20' To 25', Add</i>	25.74	
			<i>For Elevated Installation >25' To 30', Add</i>	36.04	
			<i>For Elevated Installation >30' To 35', Add</i>	41.18	
			<i>For Elevated Installation >35' To 40', Add</i>	51.48	
			<i>For Elevated Installation >40', Add</i>	56.63	
			<i>For Work In Restricted Working Space, Add</i>	30.89	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1219 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	506.86	61.78
For Elevated Installation >10' To 15', Add	12.36	
For Elevated Installation >15' To 20', Add	24.71	
For Elevated Installation >20' To 25', Add	30.89	
For Elevated Installation >25' To 30', Add	43.25	
For Elevated Installation >30' To 35', Add	49.42	
For Elevated Installation >35' To 40', Add	61.78	
For Elevated Installation >40', Add	67.96	
For Work In Restricted Working Space, Add	37.07	
26 05 33 13-1220 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	740.52	86.88
For Elevated Installation >10' To 15', Add	17.38	
For Elevated Installation >15' To 20', Add	34.75	
For Elevated Installation >20' To 25', Add	43.44	
For Elevated Installation >25' To 30', Add	60.81	
For Elevated Installation >30' To 35', Add	69.50	
For Elevated Installation >35' To 40', Add	86.88	
For Elevated Installation >40', Add	95.56	
For Work In Restricted Working Space, Add	52.13	
26 05 33 13-1221 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	933.85	115.84
For Elevated Installation >10' To 15', Add	23.17	
For Elevated Installation >15' To 20', Add	46.33	
For Elevated Installation >20' To 25', Add	57.92	
For Elevated Installation >25' To 30', Add	81.08	
For Elevated Installation >30' To 35', Add	92.67	
For Elevated Installation >35' To 40', Add	115.84	
For Elevated Installation >40', Add	127.42	
For Work In Restricted Working Space, Add	69.50	
26 05 33 13-1222 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	1,371.03	144.79
For Elevated Installation >10' To 15', Add	28.96	
For Elevated Installation >15' To 20', Add	57.92	
For Elevated Installation >20' To 25', Add	72.40	
For Elevated Installation >25' To 30', Add	101.36	
For Elevated Installation >30' To 35', Add	115.84	
For Elevated Installation >35' To 40', Add	144.80	
For Elevated Installation >40', Add	159.27	
For Work In Restricted Working Space, Add	86.88	
26 05 33 13-1223 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	1,717.17	176.33
For Elevated Installation >10' To 15', Add	35.27	
For Elevated Installation >15' To 20', Add	70.53	
For Elevated Installation >20' To 25', Add	88.17	
For Elevated Installation >25' To 30', Add	123.43	
For Elevated Installation >30' To 35', Add	141.06	
For Elevated Installation >35' To 40', Add	176.33	
For Elevated Installation >40', Add	193.96	
For Work In Restricted Working Space, Add	105.80	
26 05 33 13-1224 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Covers <small>(26 05 33 13-0821)</small>		
26 05 33 13-1225 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	139.01	5.80
For Elevated Installation >10' To 15', Add	1.16	
For Elevated Installation >15' To 20', Add	2.32	
For Elevated Installation >20' To 25', Add	2.90	
For Elevated Installation >25' To 30', Add	4.05	
For Elevated Installation >30' To 35', Add	4.63	
For Elevated Installation >35' To 40', Add	5.79	
For Elevated Installation >40', Add	6.37	
For Work In Restricted Working Space, Add	3.47	
26 05 33 13-1226 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover	140.30	6.44
For Elevated Installation >10' To 15', Add	1.29	
For Elevated Installation >15' To 20', Add	2.57	
For Elevated Installation >20' To 25', Add	3.22	
For Elevated Installation >25' To 30', Add	4.50	
For Elevated Installation >30' To 35', Add	5.15	
For Elevated Installation >35' To 40', Add	6.44	
For Elevated Installation >40', Add	7.08	
For Work In Restricted Working Space, Add	3.86	
26 05 33 13-1227 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover	198.35	9.01
For Elevated Installation >10' To 15', Add	1.80	
For Elevated Installation >15' To 20', Add	3.60	
For Elevated Installation >20' To 25', Add	4.51	
For Elevated Installation >25' To 30', Add	6.31	
For Elevated Installation >30' To 35', Add	7.21	
For Elevated Installation >35' To 40', Add	9.01	
For Elevated Installation >40', Add	9.91	
For Work In Restricted Working Space, Add	5.41	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1228	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	200.92	10.30
			<i>For Elevated Installation >10' To 15', Add</i>	2.06	
			<i>For Elevated Installation >15' To 20', Add</i>	4.12	
			<i>For Elevated Installation >20' To 25', Add</i>	5.15	
			<i>For Elevated Installation >25' To 30', Add</i>	7.21	
			<i>For Elevated Installation >30' To 35', Add</i>	8.24	
			<i>For Elevated Installation >35' To 40', Add</i>	10.30	
			<i>For Elevated Installation >40', Add</i>	11.32	
			<i>For Work In Restricted Working Space, Add</i>	6.18	
26 05 33 13-1229	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	351.67	12.22
			<i>For Elevated Installation >10' To 15', Add</i>	2.45	
			<i>For Elevated Installation >15' To 20', Add</i>	4.89	
			<i>For Elevated Installation >20' To 25', Add</i>	6.11	
			<i>For Elevated Installation >25' To 30', Add</i>	8.56	
			<i>For Elevated Installation >30' To 35', Add</i>	9.78	
			<i>For Elevated Installation >35' To 40', Add</i>	12.23	
			<i>For Elevated Installation >40', Add</i>	13.45	
			<i>For Work In Restricted Working Space, Add</i>	7.34	
26 05 33 13-1230	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	358.11	15.44
			<i>For Elevated Installation >10' To 15', Add</i>	3.09	
			<i>For Elevated Installation >15' To 20', Add</i>	6.18	
			<i>For Elevated Installation >20' To 25', Add</i>	7.72	
			<i>For Elevated Installation >25' To 30', Add</i>	10.81	
			<i>For Elevated Installation >30' To 35', Add</i>	12.36	
			<i>For Elevated Installation >35' To 40', Add</i>	15.45	
			<i>For Elevated Installation >40', Add</i>	16.99	
			<i>For Work In Restricted Working Space, Add</i>	9.27	
26 05 33 13-1231	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	539.97	17.38
			<i>For Elevated Installation >10' To 15', Add</i>	3.48	
			<i>For Elevated Installation >15' To 20', Add</i>	6.95	
			<i>For Elevated Installation >20' To 25', Add</i>	8.69	
			<i>For Elevated Installation >25' To 30', Add</i>	12.16	
			<i>For Elevated Installation >30' To 35', Add</i>	13.90	
			<i>For Elevated Installation >35' To 40', Add</i>	17.38	
			<i>For Elevated Installation >40', Add</i>	19.11	
			<i>For Work In Restricted Working Space, Add</i>	10.43	
26 05 33 13-1232	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	550.27	22.52
			<i>For Elevated Installation >10' To 15', Add</i>	4.51	
			<i>For Elevated Installation >15' To 20', Add</i>	9.01	
			<i>For Elevated Installation >20' To 25', Add</i>	11.26	
			<i>For Elevated Installation >25' To 30', Add</i>	15.77	
			<i>For Elevated Installation >30' To 35', Add</i>	18.02	
			<i>For Elevated Installation >35' To 40', Add</i>	22.53	
			<i>For Elevated Installation >40', Add</i>	24.78	
			<i>For Work In Restricted Working Space, Add</i>	13.52	
26 05 33 13-1233 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings <small>(26 05 33 13-0821)</small>					
26 05 33 13-1234	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	238.78	16.09
			<i>For Elevated Installation >10' To 15', Add</i>	3.22	
			<i>For Elevated Installation >15' To 20', Add</i>	6.44	
			<i>For Elevated Installation >20' To 25', Add</i>	8.05	
			<i>For Elevated Installation >25' To 30', Add</i>	11.26	
			<i>For Elevated Installation >30' To 35', Add</i>	12.87	
			<i>For Elevated Installation >35' To 40', Add</i>	16.09	
			<i>For Elevated Installation >40', Add</i>	17.70	
			<i>For Work In Restricted Working Space, Add</i>	9.65	
26 05 33 13-1235	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	282.02	19.95
			<i>For Elevated Installation >10' To 15', Add</i>	3.99	
			<i>For Elevated Installation >15' To 20', Add</i>	7.98	
			<i>For Elevated Installation >20' To 25', Add</i>	9.98	
			<i>For Elevated Installation >25' To 30', Add</i>	13.97	
			<i>For Elevated Installation >30' To 35', Add</i>	15.96	
			<i>For Elevated Installation >35' To 40', Add</i>	19.95	
			<i>For Elevated Installation >40', Add</i>	21.95	
			<i>For Work In Restricted Working Space, Add</i>	11.97	
26 05 33 13-1236	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	333.74	24.45
			<i>For Elevated Installation >10' To 15', Add</i>	4.89	
			<i>For Elevated Installation >15' To 20', Add</i>	9.78	
			<i>For Elevated Installation >20' To 25', Add</i>	12.23	
			<i>For Elevated Installation >25' To 30', Add</i>	17.12	
			<i>For Elevated Installation >30' To 35', Add</i>	19.56	
			<i>For Elevated Installation >35' To 40', Add</i>	24.46	
			<i>For Elevated Installation >40', Add</i>	26.90	
			<i>For Work In Restricted Working Space, Add</i>	14.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1237 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	411.33	28.32
For Elevated Installation >10' To 15', Add	5.66	
For Elevated Installation >15' To 20', Add	11.33	
For Elevated Installation >20' To 25', Add	14.16	
For Elevated Installation >25' To 30', Add	19.82	
For Elevated Installation >30' To 35', Add	22.65	
For Elevated Installation >35' To 40', Add	28.32	
For Elevated Installation >40', Add	31.15	
For Work In Restricted Working Space, Add	16.99	
26 05 33 13-1238 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	550.44	32.18
For Elevated Installation >10' To 15', Add	6.44	
For Elevated Installation >15' To 20', Add	12.87	
For Elevated Installation >20' To 25', Add	16.09	
For Elevated Installation >25' To 30', Add	22.52	
For Elevated Installation >30' To 35', Add	25.74	
For Elevated Installation >35' To 40', Add	32.18	
For Elevated Installation >40', Add	35.39	
For Work In Restricted Working Space, Add	19.31	
26 05 33 13-1239 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	763.04	35.39
For Elevated Installation >10' To 15', Add	7.08	
For Elevated Installation >15' To 20', Add	14.16	
For Elevated Installation >20' To 25', Add	17.70	
For Elevated Installation >25' To 30', Add	24.78	
For Elevated Installation >30' To 35', Add	28.32	
For Elevated Installation >35' To 40', Add	35.40	
For Elevated Installation >40', Add	38.93	
For Work In Restricted Working Space, Add	21.24	
26 05 33 13-1240 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,090.38	44.41
For Elevated Installation >10' To 15', Add	8.88	
For Elevated Installation >15' To 20', Add	17.76	
For Elevated Installation >20' To 25', Add	22.20	
For Elevated Installation >25' To 30', Add	31.08	
For Elevated Installation >30' To 35', Add	35.52	
For Elevated Installation >35' To 40', Add	44.41	
For Elevated Installation >40', Add	48.85	
For Work In Restricted Working Space, Add	26.64	
26 05 33 13-1241 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,355.27	60.49
For Elevated Installation >10' To 15', Add	12.10	
For Elevated Installation >15' To 20', Add	24.20	
For Elevated Installation >20' To 25', Add	30.25	
For Elevated Installation >25' To 30', Add	42.34	
For Elevated Installation >30' To 35', Add	48.39	
For Elevated Installation >35' To 40', Add	60.49	
For Elevated Installation >40', Add	66.54	
For Work In Restricted Working Space, Add	36.29	
26 05 33 13-1242 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,903.22	68.21
For Elevated Installation >10' To 15', Add	13.64	
For Elevated Installation >15' To 20', Add	27.29	
For Elevated Installation >20' To 25', Add	34.11	
For Elevated Installation >25' To 30', Add	47.75	
For Elevated Installation >30' To 35', Add	54.57	
For Elevated Installation >35' To 40', Add	68.22	
For Elevated Installation >40', Add	75.04	
For Work In Restricted Working Space, Add	40.93	
26 05 33 13-1243 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	2,192.48	88.81
For Elevated Installation >10' To 15', Add	17.76	
For Elevated Installation >15' To 20', Add	35.52	
For Elevated Installation >20' To 25', Add	44.40	
For Elevated Installation >25' To 30', Add	62.16	
For Elevated Installation >30' To 35', Add	71.04	
For Elevated Installation >35' To 40', Add	88.81	
For Elevated Installation >40', Add	97.69	
For Work In Restricted Working Space, Add	53.28	
26 05 33 13-1244 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings With Bonding Jumper <small>(26 05 33 13-0821)</small>		
26 05 33 13-1245 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	380.31	16.09
For Elevated Installation >10' To 15', Add	3.22	
For Elevated Installation >15' To 20', Add	6.44	
For Elevated Installation >20' To 25', Add	8.05	
For Elevated Installation >25' To 30', Add	11.26	
For Elevated Installation >30' To 35', Add	12.87	
For Elevated Installation >35' To 40', Add	16.09	
For Elevated Installation >40', Add	17.70	
For Work In Restricted Working Space, Add	9.65	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1246	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	394.60	19.95
			<i>For Elevated Installation >10' To 15', Add</i>	3.99	
			<i>For Elevated Installation >15' To 20', Add</i>	7.98	
			<i>For Elevated Installation >20' To 25', Add</i>	9.98	
			<i>For Elevated Installation >25' To 30', Add</i>	13.97	
			<i>For Elevated Installation >30' To 35', Add</i>	15.96	
			<i>For Elevated Installation >35' To 40', Add</i>	19.95	
			<i>For Elevated Installation >40', Add</i>	21.95	
			<i>For Work In Restricted Working Space, Add</i>	11.97	
26 05 33 13-1247	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	442.97	24.45
			<i>For Elevated Installation >10' To 15', Add</i>	4.89	
			<i>For Elevated Installation >15' To 20', Add</i>	9.78	
			<i>For Elevated Installation >20' To 25', Add</i>	12.23	
			<i>For Elevated Installation >25' To 30', Add</i>	17.12	
			<i>For Elevated Installation >30' To 35', Add</i>	19.56	
			<i>For Elevated Installation >35' To 40', Add</i>	24.46	
			<i>For Elevated Installation >40', Add</i>	26.90	
			<i>For Work In Restricted Working Space, Add</i>	14.67	
26 05 33 13-1248	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	536.16	28.32
			<i>For Elevated Installation >10' To 15', Add</i>	5.66	
			<i>For Elevated Installation >15' To 20', Add</i>	11.33	
			<i>For Elevated Installation >20' To 25', Add</i>	14.16	
			<i>For Elevated Installation >25' To 30', Add</i>	19.82	
			<i>For Elevated Installation >30' To 35', Add</i>	22.65	
			<i>For Elevated Installation >35' To 40', Add</i>	28.32	
			<i>For Elevated Installation >40', Add</i>	31.15	
			<i>For Work In Restricted Working Space, Add</i>	16.99	
26 05 33 13-1249	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	650.11	32.18
			<i>For Elevated Installation >10' To 15', Add</i>	6.44	
			<i>For Elevated Installation >15' To 20', Add</i>	12.87	
			<i>For Elevated Installation >20' To 25', Add</i>	16.09	
			<i>For Elevated Installation >25' To 30', Add</i>	22.52	
			<i>For Elevated Installation >30' To 35', Add</i>	25.74	
			<i>For Elevated Installation >35' To 40', Add</i>	32.18	
			<i>For Elevated Installation >40', Add</i>	35.39	
			<i>For Work In Restricted Working Space, Add</i>	19.31	
26 05 33 13-1250	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	831.66	35.39
			<i>For Elevated Installation >10' To 15', Add</i>	7.08	
			<i>For Elevated Installation >15' To 20', Add</i>	14.16	
			<i>For Elevated Installation >20' To 25', Add</i>	17.70	
			<i>For Elevated Installation >25' To 30', Add</i>	24.78	
			<i>For Elevated Installation >30' To 35', Add</i>	28.32	
			<i>For Elevated Installation >35' To 40', Add</i>	35.40	
			<i>For Elevated Installation >40', Add</i>	38.93	
			<i>For Work In Restricted Working Space, Add</i>	21.24	
26 05 33 13-1251	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	1,228.60	44.41
			<i>For Elevated Installation >10' To 15', Add</i>	8.88	
			<i>For Elevated Installation >15' To 20', Add</i>	17.76	
			<i>For Elevated Installation >20' To 25', Add</i>	22.20	
			<i>For Elevated Installation >25' To 30', Add</i>	31.08	
			<i>For Elevated Installation >30' To 35', Add</i>	35.52	
			<i>For Elevated Installation >35' To 40', Add</i>	44.41	
			<i>For Elevated Installation >40', Add</i>	48.85	
			<i>For Work In Restricted Working Space, Add</i>	26.64	
26 05 33 13-1252	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	1,539.98	60.49
			<i>For Elevated Installation >10' To 15', Add</i>	12.10	
			<i>For Elevated Installation >15' To 20', Add</i>	24.20	
			<i>For Elevated Installation >20' To 25', Add</i>	30.25	
			<i>For Elevated Installation >25' To 30', Add</i>	42.34	
			<i>For Elevated Installation >30' To 35', Add</i>	48.39	
			<i>For Elevated Installation >35' To 40', Add</i>	60.49	
			<i>For Elevated Installation >40', Add</i>	66.54	
			<i>For Work In Restricted Working Space, Add</i>	36.29	
26 05 33 13-1253	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	1,962.85	68.21
			<i>For Elevated Installation >10' To 15', Add</i>	13.64	
			<i>For Elevated Installation >15' To 20', Add</i>	27.29	
			<i>For Elevated Installation >20' To 25', Add</i>	34.11	
			<i>For Elevated Installation >25' To 30', Add</i>	47.75	
			<i>For Elevated Installation >30' To 35', Add</i>	54.57	
			<i>For Elevated Installation >35' To 40', Add</i>	68.22	
			<i>For Elevated Installation >40', Add</i>	75.04	
			<i>For Work In Restricted Working Space, Add</i>	40.93	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1254 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	2,456.57	88.81
<i>For Elevated Installation >10' To 15', Add</i>	17.76	
<i>For Elevated Installation >15' To 20', Add</i>	35.52	
<i>For Elevated Installation >20' To 25', Add</i>	44.40	
<i>For Elevated Installation >25' To 30', Add</i>	62.16	
<i>For Elevated Installation >30' To 35', Add</i>	71.04	
<i>For Elevated Installation >35' To 40', Add</i>	88.81	
<i>For Elevated Installation >40', Add</i>	97.69	
<i>For Work In Restricted Working Space, Add</i>	53.28	
26 05 33 13-1255 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STG Knockout Hubs <small>(26 05 33 13-0821)</small>		
26 05 33 13-1256 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	78.65	7.72
<i>For Elevated Installation >10' To 15', Add</i>	1.54	
<i>For Elevated Installation >15' To 20', Add</i>	3.09	
<i>For Elevated Installation >20' To 25', Add</i>	3.86	
<i>For Elevated Installation >25' To 30', Add</i>	5.40	
<i>For Elevated Installation >30' To 35', Add</i>	6.18	
<i>For Elevated Installation >35' To 40', Add</i>	7.72	
<i>For Elevated Installation >40', Add</i>	8.49	
<i>For Work In Restricted Working Space, Add</i>	4.63	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.63	
26 05 33 13-1257 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	85.18	9.66
<i>For Elevated Installation >10' To 15', Add</i>	1.93	
<i>For Elevated Installation >15' To 20', Add</i>	3.86	
<i>For Elevated Installation >20' To 25', Add</i>	4.83	
<i>For Elevated Installation >25' To 30', Add</i>	6.76	
<i>For Elevated Installation >30' To 35', Add</i>	7.72	
<i>For Elevated Installation >35' To 40', Add</i>	9.65	
<i>For Elevated Installation >40', Add</i>	10.62	
<i>For Work In Restricted Working Space, Add</i>	5.79	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.79	
26 05 33 13-1258 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	93.64	11.58
<i>For Elevated Installation >10' To 15', Add</i>	2.32	
<i>For Elevated Installation >15' To 20', Add</i>	4.63	
<i>For Elevated Installation >20' To 25', Add</i>	5.79	
<i>For Elevated Installation >25' To 30', Add</i>	8.11	
<i>For Elevated Installation >30' To 35', Add</i>	9.27	
<i>For Elevated Installation >35' To 40', Add</i>	11.59	
<i>For Elevated Installation >40', Add</i>	12.74	
<i>For Work In Restricted Working Space, Add</i>	6.95	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.95	
26 05 33 13-1259 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	105.85	14.16
<i>For Elevated Installation >10' To 15', Add</i>	2.83	
<i>For Elevated Installation >15' To 20', Add</i>	5.66	
<i>For Elevated Installation >20' To 25', Add</i>	7.08	
<i>For Elevated Installation >25' To 30', Add</i>	9.91	
<i>For Elevated Installation >30' To 35', Add</i>	11.33	
<i>For Elevated Installation >35' To 40', Add</i>	14.16	
<i>For Elevated Installation >40', Add</i>	15.58	
<i>For Work In Restricted Working Space, Add</i>	8.50	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.50	
26 05 33 13-1260 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	142.62	16.09
<i>For Elevated Installation >10' To 15', Add</i>	3.22	
<i>For Elevated Installation >15' To 20', Add</i>	6.44	
<i>For Elevated Installation >20' To 25', Add</i>	8.05	
<i>For Elevated Installation >25' To 30', Add</i>	11.26	
<i>For Elevated Installation >30' To 35', Add</i>	12.87	
<i>For Elevated Installation >35' To 40', Add</i>	16.09	
<i>For Elevated Installation >40', Add</i>	17.70	
<i>For Work In Restricted Working Space, Add</i>	9.65	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.65	
26 05 33 13-1261 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	174.40	18.02
<i>For Elevated Installation >10' To 15', Add</i>	3.60	
<i>For Elevated Installation >15' To 20', Add</i>	7.21	
<i>For Elevated Installation >20' To 25', Add</i>	9.01	
<i>For Elevated Installation >25' To 30', Add</i>	12.61	
<i>For Elevated Installation >30' To 35', Add</i>	14.42	
<i>For Elevated Installation >35' To 40', Add</i>	18.02	
<i>For Elevated Installation >40', Add</i>	19.82	
<i>For Work In Restricted Working Space, Add</i>	10.81	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.81	
26 05 33 13-1262 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	249.92	22.52
<i>For Elevated Installation >10' To 15', Add</i>	4.51	
<i>For Elevated Installation >15' To 20', Add</i>	9.01	
<i>For Elevated Installation >20' To 25', Add</i>	11.26	
<i>For Elevated Installation >25' To 30', Add</i>	15.77	
<i>For Elevated Installation >30' To 35', Add</i>	18.02	
<i>For Elevated Installation >35' To 40', Add</i>	22.53	
<i>For Elevated Installation >40', Add</i>	24.78	
<i>For Work In Restricted Working Space, Add</i>	13.52	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.52	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1263	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub 326.19		30.25
			<i>For Elevated Installation >10' To 15', Add</i>	6.05	
			<i>For Elevated Installation >15' To 20', Add</i>	12.10	
			<i>For Elevated Installation >20' To 25', Add</i>	15.12	
			<i>For Elevated Installation >25' To 30', Add</i>	21.17	
			<i>For Elevated Installation >30' To 35', Add</i>	24.20	
			<i>For Elevated Installation >35' To 40', Add</i>	30.25	
			<i>For Elevated Installation >40', Add</i>	33.27	
			<i>For Work In Restricted Working Space, Add</i>	18.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.15	
26 05 33 13-1264	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub 416.85		34.11
			<i>For Elevated Installation >10' To 15', Add</i>	6.82	
			<i>For Elevated Installation >15' To 20', Add</i>	13.64	
			<i>For Elevated Installation >20' To 25', Add</i>	17.05	
			<i>For Elevated Installation >25' To 30', Add</i>	23.87	
			<i>For Elevated Installation >30' To 35', Add</i>	27.28	
			<i>For Elevated Installation >35' To 40', Add</i>	34.11	
			<i>For Elevated Installation >40', Add</i>	37.52	
			<i>For Work In Restricted Working Space, Add</i>	20.46	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.46	
26 05 33 13-1265	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub 524.16		44.41
			<i>For Elevated Installation >10' To 15', Add</i>	8.88	
			<i>For Elevated Installation >15' To 20', Add</i>	17.76	
			<i>For Elevated Installation >20' To 25', Add</i>	22.20	
			<i>For Elevated Installation >25' To 30', Add</i>	31.08	
			<i>For Elevated Installation >30' To 35', Add</i>	35.52	
			<i>For Elevated Installation >35' To 40', Add</i>	44.41	
			<i>For Elevated Installation >40', Add</i>	48.85	
			<i>For Work In Restricted Working Space, Add</i>	26.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.64	
26 05 33 13-1266	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub 650.45		72.07
			<i>For Elevated Installation >10' To 15', Add</i>	14.42	
			<i>For Elevated Installation >15' To 20', Add</i>	28.83	
			<i>For Elevated Installation >20' To 25', Add</i>	36.04	
			<i>For Elevated Installation >25' To 30', Add</i>	50.45	
			<i>For Elevated Installation >30' To 35', Add</i>	57.66	
			<i>For Elevated Installation >35' To 40', Add</i>	72.08	
			<i>For Elevated Installation >40', Add</i>	79.28	
			<i>For Work In Restricted Working Space, Add</i>	43.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.25	
26 05 33 13-1267	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub 980.99		108.76
			<i>For Elevated Installation >10' To 15', Add</i>	21.75	
			<i>For Elevated Installation >15' To 20', Add</i>	43.50	
			<i>For Elevated Installation >20' To 25', Add</i>	54.38	
			<i>For Elevated Installation >25' To 30', Add</i>	76.13	
			<i>For Elevated Installation >30' To 35', Add</i>	87.01	
			<i>For Elevated Installation >35' To 40', Add</i>	108.76	
			<i>For Elevated Installation >40', Add</i>	119.64	
			<i>For Work In Restricted Working Space, Add</i>	65.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.26	
26 05 33 13-1268			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs <small>(26 05 33 13-0821)</small>		
26 05 33 13-1269	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub 118.86		7.72
			<i>For Elevated Installation >10' To 15', Add</i>	1.54	
			<i>For Elevated Installation >15' To 20', Add</i>	3.09	
			<i>For Elevated Installation >20' To 25', Add</i>	3.86	
			<i>For Elevated Installation >25' To 30', Add</i>	5.40	
			<i>For Elevated Installation >30' To 35', Add</i>	6.18	
			<i>For Elevated Installation >35' To 40', Add</i>	7.72	
			<i>For Elevated Installation >40', Add</i>	8.49	
			<i>For Work In Restricted Working Space, Add</i>	4.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.63	
26 05 33 13-1270	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub 125.67		9.66
			<i>For Elevated Installation >10' To 15', Add</i>	1.93	
			<i>For Elevated Installation >15' To 20', Add</i>	3.86	
			<i>For Elevated Installation >20' To 25', Add</i>	4.83	
			<i>For Elevated Installation >25' To 30', Add</i>	6.76	
			<i>For Elevated Installation >30' To 35', Add</i>	7.72	
			<i>For Elevated Installation >35' To 40', Add</i>	9.65	
			<i>For Elevated Installation >40', Add</i>	10.62	
			<i>For Work In Restricted Working Space, Add</i>	5.79	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.79	
26 05 33 13-1271	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub 135.02		11.58
			<i>For Elevated Installation >10' To 15', Add</i>	2.32	
			<i>For Elevated Installation >15' To 20', Add</i>	4.63	
			<i>For Elevated Installation >20' To 25', Add</i>	5.79	
			<i>For Elevated Installation >25' To 30', Add</i>	8.11	
			<i>For Elevated Installation >30' To 35', Add</i>	9.27	
			<i>For Elevated Installation >35' To 40', Add</i>	11.59	
			<i>For Elevated Installation >40', Add</i>	12.74	
			<i>For Work In Restricted Working Space, Add</i>	6.95	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1272 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	154.11	14.16
<i>For Elevated Installation >10' To 15', Add</i>	2.83	
<i>For Elevated Installation >15' To 20', Add</i>	5.66	
<i>For Elevated Installation >20' To 25', Add</i>	7.08	
<i>For Elevated Installation >25' To 30', Add</i>	9.91	
<i>For Elevated Installation >30' To 35', Add</i>	11.33	
<i>For Elevated Installation >35' To 40', Add</i>	14.16	
<i>For Elevated Installation >40', Add</i>	15.58	
<i>For Work In Restricted Working Space, Add</i>	8.50	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.50	
26 05 33 13-1273 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	165.40	16.09
<i>For Elevated Installation >10' To 15', Add</i>	3.22	
<i>For Elevated Installation >15' To 20', Add</i>	6.44	
<i>For Elevated Installation >20' To 25', Add</i>	8.05	
<i>For Elevated Installation >25' To 30', Add</i>	11.26	
<i>For Elevated Installation >30' To 35', Add</i>	12.87	
<i>For Elevated Installation >35' To 40', Add</i>	16.09	
<i>For Elevated Installation >40', Add</i>	17.70	
<i>For Work In Restricted Working Space, Add</i>	9.65	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.65	
26 05 33 13-1274 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	187.09	18.02
<i>For Elevated Installation >10' To 15', Add</i>	3.60	
<i>For Elevated Installation >15' To 20', Add</i>	7.21	
<i>For Elevated Installation >20' To 25', Add</i>	9.01	
<i>For Elevated Installation >25' To 30', Add</i>	12.61	
<i>For Elevated Installation >30' To 35', Add</i>	14.42	
<i>For Elevated Installation >35' To 40', Add</i>	18.02	
<i>For Elevated Installation >40', Add</i>	19.82	
<i>For Work In Restricted Working Space, Add</i>	10.81	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.81	
26 05 33 13-1275 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	285.54	22.52
<i>For Elevated Installation >10' To 15', Add</i>	4.51	
<i>For Elevated Installation >15' To 20', Add</i>	9.01	
<i>For Elevated Installation >20' To 25', Add</i>	11.26	
<i>For Elevated Installation >25' To 30', Add</i>	15.77	
<i>For Elevated Installation >30' To 35', Add</i>	18.02	
<i>For Elevated Installation >35' To 40', Add</i>	22.53	
<i>For Elevated Installation >40', Add</i>	24.78	
<i>For Work In Restricted Working Space, Add</i>	13.52	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.52	
26 05 33 13-1276 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	341.54	30.25
<i>For Elevated Installation >10' To 15', Add</i>	6.05	
<i>For Elevated Installation >15' To 20', Add</i>	12.10	
<i>For Elevated Installation >20' To 25', Add</i>	15.12	
<i>For Elevated Installation >25' To 30', Add</i>	21.17	
<i>For Elevated Installation >30' To 35', Add</i>	24.20	
<i>For Elevated Installation >35' To 40', Add</i>	30.25	
<i>For Elevated Installation >40', Add</i>	33.27	
<i>For Work In Restricted Working Space, Add</i>	18.15	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.15	
26 05 33 13-1277 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	420.17	34.11
<i>For Elevated Installation >10' To 15', Add</i>	6.82	
<i>For Elevated Installation >15' To 20', Add</i>	13.64	
<i>For Elevated Installation >20' To 25', Add</i>	17.05	
<i>For Elevated Installation >25' To 30', Add</i>	23.87	
<i>For Elevated Installation >30' To 35', Add</i>	27.28	
<i>For Elevated Installation >35' To 40', Add</i>	34.11	
<i>For Elevated Installation >40', Add</i>	37.52	
<i>For Work In Restricted Working Space, Add</i>	20.46	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.46	
26 05 33 13-1278 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	545.58	44.41
<i>For Elevated Installation >10' To 15', Add</i>	8.88	
<i>For Elevated Installation >15' To 20', Add</i>	17.76	
<i>For Elevated Installation >20' To 25', Add</i>	22.20	
<i>For Elevated Installation >25' To 30', Add</i>	31.08	
<i>For Elevated Installation >30' To 35', Add</i>	35.52	
<i>For Elevated Installation >35' To 40', Add</i>	44.41	
<i>For Elevated Installation >40', Add</i>	48.85	
<i>For Work In Restricted Working Space, Add</i>	26.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.64	
26 05 33 13-1279 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	848.49	72.07
<i>For Elevated Installation >10' To 15', Add</i>	14.42	
<i>For Elevated Installation >15' To 20', Add</i>	28.83	
<i>For Elevated Installation >20' To 25', Add</i>	36.04	
<i>For Elevated Installation >25' To 30', Add</i>	50.45	
<i>For Elevated Installation >30' To 35', Add</i>	57.66	
<i>For Elevated Installation >35' To 40', Add</i>	72.08	
<i>For Elevated Installation >40', Add</i>	79.28	
<i>For Work In Restricted Working Space, Add</i>	43.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.25	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1280	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	1,389.11	108.76
			<i>For Elevated Installation >10' To 15', Add</i>	21.75	
			<i>For Elevated Installation >15' To 20', Add</i>	43.50	
			<i>For Elevated Installation >20' To 25', Add</i>	54.38	
			<i>For Elevated Installation >25' To 30', Add</i>	76.13	
			<i>For Elevated Installation >30' To 35', Add</i>	87.01	
			<i>For Elevated Installation >35' To 40', Add</i>	108.76	
			<i>For Elevated Installation >40', Add</i>	119.64	
			<i>For Work In Restricted Working Space, Add</i>	65.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.26	
26 05 33 13-1281			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs <small>(26 05 33 13-0821)</small>		
26 05 33 13-1282	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	127.80	7.72
			<i>For Elevated Installation >10' To 15', Add</i>	1.54	
			<i>For Elevated Installation >15' To 20', Add</i>	3.09	
			<i>For Elevated Installation >20' To 25', Add</i>	3.86	
			<i>For Elevated Installation >25' To 30', Add</i>	5.40	
			<i>For Elevated Installation >30' To 35', Add</i>	6.18	
			<i>For Elevated Installation >35' To 40', Add</i>	7.72	
			<i>For Elevated Installation >40', Add</i>	8.49	
			<i>For Work In Restricted Working Space, Add</i>	4.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.63	
26 05 33 13-1283	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	134.16	9.66
			<i>For Elevated Installation >10' To 15', Add</i>	1.93	
			<i>For Elevated Installation >15' To 20', Add</i>	3.86	
			<i>For Elevated Installation >20' To 25', Add</i>	4.83	
			<i>For Elevated Installation >25' To 30', Add</i>	6.76	
			<i>For Elevated Installation >30' To 35', Add</i>	7.72	
			<i>For Elevated Installation >35' To 40', Add</i>	9.65	
			<i>For Elevated Installation >40', Add</i>	10.62	
			<i>For Work In Restricted Working Space, Add</i>	5.79	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.79	
26 05 33 13-1284	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	143.89	11.58
			<i>For Elevated Installation >10' To 15', Add</i>	2.32	
			<i>For Elevated Installation >15' To 20', Add</i>	4.63	
			<i>For Elevated Installation >20' To 25', Add</i>	5.79	
			<i>For Elevated Installation >25' To 30', Add</i>	8.11	
			<i>For Elevated Installation >30' To 35', Add</i>	9.27	
			<i>For Elevated Installation >35' To 40', Add</i>	11.59	
			<i>For Elevated Installation >40', Add</i>	12.74	
			<i>For Work In Restricted Working Space, Add</i>	6.95	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.95	
26 05 33 13-1285	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	181.03	14.16
			<i>For Elevated Installation >10' To 15', Add</i>	2.83	
			<i>For Elevated Installation >15' To 20', Add</i>	5.66	
			<i>For Elevated Installation >20' To 25', Add</i>	7.08	
			<i>For Elevated Installation >25' To 30', Add</i>	9.91	
			<i>For Elevated Installation >30' To 35', Add</i>	11.33	
			<i>For Elevated Installation >35' To 40', Add</i>	14.16	
			<i>For Elevated Installation >40', Add</i>	15.58	
			<i>For Work In Restricted Working Space, Add</i>	8.50	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.50	
26 05 33 13-1286	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	197.90	16.09
			<i>For Elevated Installation >10' To 15', Add</i>	3.22	
			<i>For Elevated Installation >15' To 20', Add</i>	6.44	
			<i>For Elevated Installation >20' To 25', Add</i>	8.05	
			<i>For Elevated Installation >25' To 30', Add</i>	11.26	
			<i>For Elevated Installation >30' To 35', Add</i>	12.87	
			<i>For Elevated Installation >35' To 40', Add</i>	16.09	
			<i>For Elevated Installation >40', Add</i>	17.70	
			<i>For Work In Restricted Working Space, Add</i>	9.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.65	
26 05 33 13-1287	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	209.52	18.02
			<i>For Elevated Installation >10' To 15', Add</i>	3.60	
			<i>For Elevated Installation >15' To 20', Add</i>	7.21	
			<i>For Elevated Installation >20' To 25', Add</i>	9.01	
			<i>For Elevated Installation >25' To 30', Add</i>	12.61	
			<i>For Elevated Installation >30' To 35', Add</i>	14.42	
			<i>For Elevated Installation >35' To 40', Add</i>	18.02	
			<i>For Elevated Installation >40', Add</i>	19.82	
			<i>For Work In Restricted Working Space, Add</i>	10.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.81	
26 05 33 13-1288			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions <small>(26 05 33 13-0821)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1289 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	94.21	16.09
<i>For Elevated Installation >10' To 15', Add</i>	3.22	
<i>For Elevated Installation >15' To 20', Add</i>	6.44	
<i>For Elevated Installation >20' To 25', Add</i>	8.05	
<i>For Elevated Installation >25' To 30', Add</i>	11.26	
<i>For Elevated Installation >30' To 35', Add</i>	12.87	
<i>For Elevated Installation >35' To 40', Add</i>	16.09	
<i>For Elevated Installation >40', Add</i>	17.70	
<i>For Work In Restricted Working Space, Add</i>	9.65	
26 05 33 13-1290 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	103.06	19.95
<i>For Elevated Installation >10' To 15', Add</i>	3.99	
<i>For Elevated Installation >15' To 20', Add</i>	7.98	
<i>For Elevated Installation >20' To 25', Add</i>	9.98	
<i>For Elevated Installation >25' To 30', Add</i>	13.97	
<i>For Elevated Installation >30' To 35', Add</i>	15.96	
<i>For Elevated Installation >35' To 40', Add</i>	19.95	
<i>For Elevated Installation >40', Add</i>	21.95	
<i>For Work In Restricted Working Space, Add</i>	11.97	
26 05 33 13-1291 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	133.58	24.45
<i>For Elevated Installation >10' To 15', Add</i>	4.89	
<i>For Elevated Installation >15' To 20', Add</i>	9.78	
<i>For Elevated Installation >20' To 25', Add</i>	12.23	
<i>For Elevated Installation >25' To 30', Add</i>	17.12	
<i>For Elevated Installation >30' To 35', Add</i>	19.56	
<i>For Elevated Installation >35' To 40', Add</i>	24.46	
<i>For Elevated Installation >40', Add</i>	26.90	
<i>For Work In Restricted Working Space, Add</i>	14.67	
26 05 33 13-1292 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	192.90	28.32
<i>For Elevated Installation >10' To 15', Add</i>	5.66	
<i>For Elevated Installation >15' To 20', Add</i>	11.33	
<i>For Elevated Installation >20' To 25', Add</i>	14.16	
<i>For Elevated Installation >25' To 30', Add</i>	19.82	
<i>For Elevated Installation >30' To 35', Add</i>	22.65	
<i>For Elevated Installation >35' To 40', Add</i>	28.32	
<i>For Elevated Installation >40', Add</i>	31.15	
<i>For Work In Restricted Working Space, Add</i>	16.99	
26 05 33 13-1293 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	228.72	32.18
<i>For Elevated Installation >10' To 15', Add</i>	6.44	
<i>For Elevated Installation >15' To 20', Add</i>	12.87	
<i>For Elevated Installation >20' To 25', Add</i>	16.09	
<i>For Elevated Installation >25' To 30', Add</i>	22.52	
<i>For Elevated Installation >30' To 35', Add</i>	25.74	
<i>For Elevated Installation >35' To 40', Add</i>	32.18	
<i>For Elevated Installation >40', Add</i>	35.39	
<i>For Work In Restricted Working Space, Add</i>	19.31	
26 05 33 13-1294 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	289.84	35.39
<i>For Elevated Installation >10' To 15', Add</i>	7.08	
<i>For Elevated Installation >15' To 20', Add</i>	14.16	
<i>For Elevated Installation >20' To 25', Add</i>	17.70	
<i>For Elevated Installation >25' To 30', Add</i>	24.78	
<i>For Elevated Installation >30' To 35', Add</i>	28.32	
<i>For Elevated Installation >35' To 40', Add</i>	35.40	
<i>For Elevated Installation >40', Add</i>	38.93	
<i>For Work In Restricted Working Space, Add</i>	21.24	
26 05 33 13-1295 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	385.37	44.41
<i>For Elevated Installation >10' To 15', Add</i>	8.88	
<i>For Elevated Installation >15' To 20', Add</i>	17.76	
<i>For Elevated Installation >20' To 25', Add</i>	22.20	
<i>For Elevated Installation >25' To 30', Add</i>	31.08	
<i>For Elevated Installation >30' To 35', Add</i>	35.52	
<i>For Elevated Installation >35' To 40', Add</i>	44.41	
<i>For Elevated Installation >40', Add</i>	48.85	
<i>For Work In Restricted Working Space, Add</i>	26.64	
26 05 33 13-1296 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	497.65	44.41
<i>For Elevated Installation >10' To 15', Add</i>	8.88	
<i>For Elevated Installation >15' To 20', Add</i>	17.76	
<i>For Elevated Installation >20' To 25', Add</i>	22.20	
<i>For Elevated Installation >25' To 30', Add</i>	31.08	
<i>For Elevated Installation >30' To 35', Add</i>	35.52	
<i>For Elevated Installation >35' To 40', Add</i>	44.41	
<i>For Elevated Installation >40', Add</i>	48.85	
<i>For Work In Restricted Working Space, Add</i>	26.64	
26 05 33 13-1297 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	643.57	68.21
<i>For Elevated Installation >10' To 15', Add</i>	13.64	
<i>For Elevated Installation >15' To 20', Add</i>	27.29	
<i>For Elevated Installation >20' To 25', Add</i>	34.11	
<i>For Elevated Installation >25' To 30', Add</i>	47.75	
<i>For Elevated Installation >30' To 35', Add</i>	54.57	
<i>For Elevated Installation >35' To 40', Add</i>	68.22	
<i>For Elevated Installation >40', Add</i>	75.04	
<i>For Work In Restricted Working Space, Add</i>	40.93	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1298	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union 828.79		88.81
			<i>For Elevated Installation >10' To 15', Add</i>	17.76	
			<i>For Elevated Installation >15' To 20', Add</i>	35.52	
			<i>For Elevated Installation >20' To 25', Add</i>	44.40	
			<i>For Elevated Installation >25' To 30', Add</i>	62.16	
			<i>For Elevated Installation >30' To 35', Add</i>	71.04	
			<i>For Elevated Installation >35' To 40', Add</i>	88.81	
			<i>For Elevated Installation >40', Add</i>	97.69	
			<i>For Work In Restricted Working Space, Add</i>	53.28	
26 05 33 13-1299	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union 1,506.72		144.79
			<i>For Elevated Installation >10' To 15', Add</i>	28.96	
			<i>For Elevated Installation >15' To 20', Add</i>	57.92	
			<i>For Elevated Installation >20' To 25', Add</i>	72.40	
			<i>For Elevated Installation >25' To 30', Add</i>	101.36	
			<i>For Elevated Installation >30' To 35', Add</i>	115.84	
			<i>For Elevated Installation >35' To 40', Add</i>	144.80	
			<i>For Elevated Installation >40', Add</i>	159.27	
			<i>For Work In Restricted Working Space, Add</i>	86.88	
26 05 33 13-1300	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union 1,884.62		217.52
			<i>For Elevated Installation >10' To 15', Add</i>	43.50	
			<i>For Elevated Installation >15' To 20', Add</i>	87.01	
			<i>For Elevated Installation >20' To 25', Add</i>	108.76	
			<i>For Elevated Installation >25' To 30', Add</i>	152.26	
			<i>For Elevated Installation >30' To 35', Add</i>	174.01	
			<i>For Elevated Installation >35' To 40', Add</i>	217.52	
			<i>For Elevated Installation >40', Add</i>	239.27	
			<i>For Work In Restricted Working Space, Add</i>	130.51	
26 05 33 13-1301 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions <small>(26 05 33 13-0821)</small>					
26 05 33 13-1302	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union 96.30		16.09
			<i>For Elevated Installation >10' To 15', Add</i>	3.22	
			<i>For Elevated Installation >15' To 20', Add</i>	6.44	
			<i>For Elevated Installation >20' To 25', Add</i>	8.05	
			<i>For Elevated Installation >25' To 30', Add</i>	11.26	
			<i>For Elevated Installation >30' To 35', Add</i>	12.87	
			<i>For Elevated Installation >35' To 40', Add</i>	16.09	
			<i>For Elevated Installation >40', Add</i>	17.70	
			<i>For Work In Restricted Working Space, Add</i>	9.65	
26 05 33 13-1303	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union 111.04		19.95
			<i>For Elevated Installation >10' To 15', Add</i>	3.99	
			<i>For Elevated Installation >15' To 20', Add</i>	7.98	
			<i>For Elevated Installation >20' To 25', Add</i>	9.98	
			<i>For Elevated Installation >25' To 30', Add</i>	13.97	
			<i>For Elevated Installation >30' To 35', Add</i>	15.96	
			<i>For Elevated Installation >35' To 40', Add</i>	19.95	
			<i>For Elevated Installation >40', Add</i>	21.95	
			<i>For Work In Restricted Working Space, Add</i>	11.97	
26 05 33 13-1304	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union 137.84		24.45
			<i>For Elevated Installation >10' To 15', Add</i>	4.89	
			<i>For Elevated Installation >15' To 20', Add</i>	9.78	
			<i>For Elevated Installation >20' To 25', Add</i>	12.23	
			<i>For Elevated Installation >25' To 30', Add</i>	17.12	
			<i>For Elevated Installation >30' To 35', Add</i>	19.56	
			<i>For Elevated Installation >35' To 40', Add</i>	24.46	
			<i>For Elevated Installation >40', Add</i>	26.90	
			<i>For Work In Restricted Working Space, Add</i>	14.67	
26 05 33 13-1305	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union 200.71		28.32
			<i>For Elevated Installation >10' To 15', Add</i>	5.66	
			<i>For Elevated Installation >15' To 20', Add</i>	11.33	
			<i>For Elevated Installation >20' To 25', Add</i>	14.16	
			<i>For Elevated Installation >25' To 30', Add</i>	19.82	
			<i>For Elevated Installation >30' To 35', Add</i>	22.65	
			<i>For Elevated Installation >35' To 40', Add</i>	28.32	
			<i>For Elevated Installation >40', Add</i>	31.15	
			<i>For Work In Restricted Working Space, Add</i>	16.99	
26 05 33 13-1306	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union 239.56		32.18
			<i>For Elevated Installation >10' To 15', Add</i>	6.44	
			<i>For Elevated Installation >15' To 20', Add</i>	12.87	
			<i>For Elevated Installation >20' To 25', Add</i>	16.09	
			<i>For Elevated Installation >25' To 30', Add</i>	22.52	
			<i>For Elevated Installation >30' To 35', Add</i>	25.74	
			<i>For Elevated Installation >35' To 40', Add</i>	32.18	
			<i>For Elevated Installation >40', Add</i>	35.39	
			<i>For Work In Restricted Working Space, Add</i>	19.31	
26 05 33 13-1307	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union 313.25		35.39
			<i>For Elevated Installation >10' To 15', Add</i>	7.08	
			<i>For Elevated Installation >15' To 20', Add</i>	14.16	
			<i>For Elevated Installation >20' To 25', Add</i>	17.70	
			<i>For Elevated Installation >25' To 30', Add</i>	24.78	
			<i>For Elevated Installation >30' To 35', Add</i>	28.32	
			<i>For Elevated Installation >35' To 40', Add</i>	35.40	
			<i>For Elevated Installation >40', Add</i>	38.93	
			<i>For Work In Restricted Working Space, Add</i>	21.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1308 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	435.45	44.41
For Elevated Installation >10' To 15', Add	8.88	
For Elevated Installation >15' To 20', Add	17.76	
For Elevated Installation >20' To 25', Add	22.20	
For Elevated Installation >25' To 30', Add	31.08	
For Elevated Installation >30' To 35', Add	35.52	
For Elevated Installation >35' To 40', Add	44.41	
For Elevated Installation >40', Add	48.85	
For Work In Restricted Working Space, Add	26.64	
26 05 33 13-1309 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	548.58	44.41
For Elevated Installation >10' To 15', Add	8.88	
For Elevated Installation >15' To 20', Add	17.76	
For Elevated Installation >20' To 25', Add	22.20	
For Elevated Installation >25' To 30', Add	31.08	
For Elevated Installation >30' To 35', Add	35.52	
For Elevated Installation >35' To 40', Add	44.41	
For Elevated Installation >40', Add	48.85	
For Work In Restricted Working Space, Add	26.64	
26 05 33 13-1310 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	735.65	68.21
For Elevated Installation >10' To 15', Add	13.64	
For Elevated Installation >15' To 20', Add	27.29	
For Elevated Installation >20' To 25', Add	34.11	
For Elevated Installation >25' To 30', Add	47.75	
For Elevated Installation >30' To 35', Add	54.57	
For Elevated Installation >35' To 40', Add	68.22	
For Elevated Installation >40', Add	75.04	
For Work In Restricted Working Space, Add	40.93	
26 05 33 13-1311 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	920.53	88.81
For Elevated Installation >10' To 15', Add	17.76	
For Elevated Installation >15' To 20', Add	35.52	
For Elevated Installation >20' To 25', Add	44.40	
For Elevated Installation >25' To 30', Add	62.16	
For Elevated Installation >30' To 35', Add	71.04	
For Elevated Installation >35' To 40', Add	88.81	
For Elevated Installation >40', Add	97.69	
For Work In Restricted Working Space, Add	53.28	
26 05 33 13-1312 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	1,674.89	144.79
For Elevated Installation >10' To 15', Add	28.96	
For Elevated Installation >15' To 20', Add	57.92	
For Elevated Installation >20' To 25', Add	72.40	
For Elevated Installation >25' To 30', Add	101.36	
For Elevated Installation >30' To 35', Add	115.84	
For Elevated Installation >35' To 40', Add	144.80	
For Elevated Installation >40', Add	159.27	
For Work In Restricted Working Space, Add	86.88	
26 05 33 13-1313 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	2,156.16	217.52
For Elevated Installation >10' To 15', Add	43.50	
For Elevated Installation >15' To 20', Add	87.01	
For Elevated Installation >20' To 25', Add	108.76	
For Elevated Installation >25' To 30', Add	152.26	
For Elevated Installation >30' To 35', Add	174.01	
For Elevated Installation >35' To 40', Add	217.52	
For Elevated Installation >40', Add	239.27	
For Work In Restricted Working Space, Add	130.51	
26 05 33 13-1314 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Reducing Couplings <small>(26 05 33 13-0821)</small>		
26 05 33 13-1315 EA 3/4" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	52.25	5.14
For Elevated Installation >10' To 15', Add	1.03	
For Elevated Installation >15' To 20', Add	2.06	
For Elevated Installation >20' To 25', Add	2.57	
For Elevated Installation >25' To 30', Add	3.60	
For Elevated Installation >30' To 35', Add	4.12	
For Elevated Installation >35' To 40', Add	5.15	
For Elevated Installation >40', Add	5.66	
For Work In Restricted Working Space, Add	3.09	
26 05 33 13-1316 EA 1" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	57.37	6.44
For Elevated Installation >10' To 15', Add	1.29	
For Elevated Installation >15' To 20', Add	2.58	
For Elevated Installation >20' To 25', Add	3.22	
For Elevated Installation >25' To 30', Add	4.51	
For Elevated Installation >30' To 35', Add	5.15	
For Elevated Installation >35' To 40', Add	6.44	
For Elevated Installation >40', Add	7.08	
For Work In Restricted Working Space, Add	3.86	
26 05 33 13-1317 EA 1" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	65.20	6.44
For Elevated Installation >10' To 15', Add	1.29	
For Elevated Installation >15' To 20', Add	2.58	
For Elevated Installation >20' To 25', Add	3.22	
For Elevated Installation >25' To 30', Add	4.51	
For Elevated Installation >30' To 35', Add	5.15	
For Elevated Installation >35' To 40', Add	6.44	
For Elevated Installation >40', Add	7.08	
For Work In Restricted Working Space, Add	3.86	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1318	EA		1-1/4" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	80.54	7.08
			<i>For Elevated Installation >10' To 15', Add</i>	1.42	
			<i>For Elevated Installation >15' To 20', Add</i>	2.83	
			<i>For Elevated Installation >20' To 25', Add</i>	3.54	
			<i>For Elevated Installation >25' To 30', Add</i>	4.96	
			<i>For Elevated Installation >30' To 35', Add</i>	5.66	
			<i>For Elevated Installation >35' To 40', Add</i>	7.08	
			<i>For Elevated Installation >40', Add</i>	7.79	
			<i>For Work In Restricted Working Space, Add</i>	4.25	
26 05 33 13-1319	EA		1-1/4" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	85.06	7.08
			<i>For Elevated Installation >10' To 15', Add</i>	1.42	
			<i>For Elevated Installation >15' To 20', Add</i>	2.83	
			<i>For Elevated Installation >20' To 25', Add</i>	3.54	
			<i>For Elevated Installation >25' To 30', Add</i>	4.96	
			<i>For Elevated Installation >30' To 35', Add</i>	5.66	
			<i>For Elevated Installation >35' To 40', Add</i>	7.08	
			<i>For Elevated Installation >40', Add</i>	7.79	
			<i>For Work In Restricted Working Space, Add</i>	4.25	
26 05 33 13-1320	EA		1-1/2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	73.15	8.36
			<i>For Elevated Installation >10' To 15', Add</i>	1.67	
			<i>For Elevated Installation >15' To 20', Add</i>	3.35	
			<i>For Elevated Installation >20' To 25', Add</i>	4.19	
			<i>For Elevated Installation >25' To 30', Add</i>	5.86	
			<i>For Elevated Installation >30' To 35', Add</i>	6.70	
			<i>For Elevated Installation >35' To 40', Add</i>	8.37	
			<i>For Elevated Installation >40', Add</i>	9.21	
			<i>For Work In Restricted Working Space, Add</i>	5.02	
26 05 33 13-1321	EA		1-1/2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	83.24	8.36
			<i>For Elevated Installation >10' To 15', Add</i>	1.67	
			<i>For Elevated Installation >15' To 20', Add</i>	3.35	
			<i>For Elevated Installation >20' To 25', Add</i>	4.19	
			<i>For Elevated Installation >25' To 30', Add</i>	5.86	
			<i>For Elevated Installation >30' To 35', Add</i>	6.70	
			<i>For Elevated Installation >35' To 40', Add</i>	8.37	
			<i>For Elevated Installation >40', Add</i>	9.21	
			<i>For Work In Restricted Working Space, Add</i>	5.02	
26 05 33 13-1322	EA		1-1/2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	128.64	8.36
			<i>For Elevated Installation >10' To 15', Add</i>	1.67	
			<i>For Elevated Installation >15' To 20', Add</i>	3.35	
			<i>For Elevated Installation >20' To 25', Add</i>	4.19	
			<i>For Elevated Installation >25' To 30', Add</i>	5.86	
			<i>For Elevated Installation >30' To 35', Add</i>	6.70	
			<i>For Elevated Installation >35' To 40', Add</i>	8.37	
			<i>For Elevated Installation >40', Add</i>	9.21	
			<i>For Work In Restricted Working Space, Add</i>	5.02	
26 05 33 13-1323	EA		2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	143.00	9.66
			<i>For Elevated Installation >10' To 15', Add</i>	1.93	
			<i>For Elevated Installation >15' To 20', Add</i>	3.86	
			<i>For Elevated Installation >20' To 25', Add</i>	4.83	
			<i>For Elevated Installation >25' To 30', Add</i>	6.76	
			<i>For Elevated Installation >30' To 35', Add</i>	7.72	
			<i>For Elevated Installation >35' To 40', Add</i>	9.65	
			<i>For Elevated Installation >40', Add</i>	10.62	
			<i>For Work In Restricted Working Space, Add</i>	5.79	
26 05 33 13-1324	EA		2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	139.09	9.66
			<i>For Elevated Installation >10' To 15', Add</i>	1.93	
			<i>For Elevated Installation >15' To 20', Add</i>	3.86	
			<i>For Elevated Installation >20' To 25', Add</i>	4.83	
			<i>For Elevated Installation >25' To 30', Add</i>	6.76	
			<i>For Elevated Installation >30' To 35', Add</i>	7.72	
			<i>For Elevated Installation >35' To 40', Add</i>	9.65	
			<i>For Elevated Installation >40', Add</i>	10.62	
			<i>For Work In Restricted Working Space, Add</i>	5.79	
26 05 33 13-1325	EA		2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	146.37	9.66
			<i>For Elevated Installation >10' To 15', Add</i>	1.93	
			<i>For Elevated Installation >15' To 20', Add</i>	3.86	
			<i>For Elevated Installation >20' To 25', Add</i>	4.83	
			<i>For Elevated Installation >25' To 30', Add</i>	6.76	
			<i>For Elevated Installation >30' To 35', Add</i>	7.72	
			<i>For Elevated Installation >35' To 40', Add</i>	9.65	
			<i>For Elevated Installation >40', Add</i>	10.62	
			<i>For Work In Restricted Working Space, Add</i>	5.79	
26 05 33 13-1326	EA		2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	164.68	9.66
			<i>For Elevated Installation >10' To 15', Add</i>	1.93	
			<i>For Elevated Installation >15' To 20', Add</i>	3.86	
			<i>For Elevated Installation >20' To 25', Add</i>	4.83	
			<i>For Elevated Installation >25' To 30', Add</i>	6.76	
			<i>For Elevated Installation >30' To 35', Add</i>	7.72	
			<i>For Elevated Installation >35' To 40', Add</i>	9.65	
			<i>For Elevated Installation >40', Add</i>	10.62	
			<i>For Work In Restricted Working Space, Add</i>	5.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1327 EA 2-1/2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	163.63	11.58
<i>For Elevated Installation >10' To 15', Add</i>	2.32	
<i>For Elevated Installation >15' To 20', Add</i>	4.63	
<i>For Elevated Installation >20' To 25', Add</i>	5.79	
<i>For Elevated Installation >25' To 30', Add</i>	8.11	
<i>For Elevated Installation >30' To 35', Add</i>	9.27	
<i>For Elevated Installation >35' To 40', Add</i>	11.59	
<i>For Elevated Installation >40', Add</i>	12.74	
<i>For Work In Restricted Working Space, Add</i>	6.95	
26 05 33 13-1328 EA 3" x 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	208.69	16.09
<i>For Elevated Installation >10' To 15', Add</i>	3.22	
<i>For Elevated Installation >15' To 20', Add</i>	6.44	
<i>For Elevated Installation >20' To 25', Add</i>	8.05	
<i>For Elevated Installation >25' To 30', Add</i>	11.26	
<i>For Elevated Installation >30' To 35', Add</i>	12.87	
<i>For Elevated Installation >35' To 40', Add</i>	16.09	
<i>For Elevated Installation >40', Add</i>	17.70	
<i>For Work In Restricted Working Space, Add</i>	9.65	
26 05 33 13-1329 EA 3-1/2" x 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	307.11	18.66
<i>For Elevated Installation >10' To 15', Add</i>	3.73	
<i>For Elevated Installation >15' To 20', Add</i>	7.47	
<i>For Elevated Installation >20' To 25', Add</i>	9.33	
<i>For Elevated Installation >25' To 30', Add</i>	13.07	
<i>For Elevated Installation >30' To 35', Add</i>	14.93	
<i>For Elevated Installation >35' To 40', Add</i>	18.67	
<i>For Elevated Installation >40', Add</i>	20.53	
<i>For Work In Restricted Working Space, Add</i>	11.20	
26 05 33 13-1330 EA 4" x 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	410.92	25.74
<i>For Elevated Installation >10' To 15', Add</i>	5.15	
<i>For Elevated Installation >15' To 20', Add</i>	10.30	
<i>For Elevated Installation >20' To 25', Add</i>	12.87	
<i>For Elevated Installation >25' To 30', Add</i>	18.02	
<i>For Elevated Installation >30' To 35', Add</i>	20.60	
<i>For Elevated Installation >35' To 40', Add</i>	25.75	
<i>For Elevated Installation >40', Add</i>	28.32	
<i>For Work In Restricted Working Space, Add</i>	15.45	
26 05 33 13-1331 EA 5" x 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	513.95	35.39
<i>For Elevated Installation >10' To 15', Add</i>	7.08	
<i>For Elevated Installation >15' To 20', Add</i>	14.16	
<i>For Elevated Installation >20' To 25', Add</i>	17.70	
<i>For Elevated Installation >25' To 30', Add</i>	24.78	
<i>For Elevated Installation >30' To 35', Add</i>	28.32	
<i>For Elevated Installation >35' To 40', Add</i>	35.40	
<i>For Elevated Installation >40', Add</i>	38.93	
<i>For Work In Restricted Working Space, Add</i>	21.24	
26 05 33 13-1332 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples <small>(26 05 33 13-082.1)</small>		
26 05 33 13-1333 EA 1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	33.03	7.72
<i>For Elevated Installation >10' To 15', Add</i>	1.54	
<i>For Elevated Installation >15' To 20', Add</i>	3.09	
<i>For Elevated Installation >20' To 25', Add</i>	3.86	
<i>For Elevated Installation >25' To 30', Add</i>	5.40	
<i>For Elevated Installation >30' To 35', Add</i>	6.18	
<i>For Elevated Installation >35' To 40', Add</i>	7.72	
<i>For Elevated Installation >40', Add</i>	8.49	
<i>For Work In Restricted Working Space, Add</i>	4.63	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.63	
26 05 33 13-1334 EA 3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	37.23	9.66
<i>For Elevated Installation >10' To 15', Add</i>	1.93	
<i>For Elevated Installation >15' To 20', Add</i>	3.86	
<i>For Elevated Installation >20' To 25', Add</i>	4.83	
<i>For Elevated Installation >25' To 30', Add</i>	6.76	
<i>For Elevated Installation >30' To 35', Add</i>	7.72	
<i>For Elevated Installation >35' To 40', Add</i>	9.65	
<i>For Elevated Installation >40', Add</i>	10.62	
<i>For Work In Restricted Working Space, Add</i>	5.79	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.79	
26 05 33 13-1335 EA 1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	43.36	12.22
<i>For Elevated Installation >10' To 15', Add</i>	2.45	
<i>For Elevated Installation >15' To 20', Add</i>	4.89	
<i>For Elevated Installation >20' To 25', Add</i>	6.11	
<i>For Elevated Installation >25' To 30', Add</i>	8.56	
<i>For Elevated Installation >30' To 35', Add</i>	9.78	
<i>For Elevated Installation >35' To 40', Add</i>	12.23	
<i>For Elevated Installation >40', Add</i>	13.45	
<i>For Work In Restricted Working Space, Add</i>	7.34	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.34	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1336	EA		1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	51.58	14.16
			<i>For Elevated Installation >10' To 15', Add</i>	2.83	
			<i>For Elevated Installation >15' To 20', Add</i>	5.66	
			<i>For Elevated Installation >20' To 25', Add</i>	7.08	
			<i>For Elevated Installation >25' To 30', Add</i>	9.91	
			<i>For Elevated Installation >30' To 35', Add</i>	11.33	
			<i>For Elevated Installation >35' To 40', Add</i>	14.16	
			<i>For Elevated Installation >40', Add</i>	15.58	
			<i>For Work In Restricted Working Space, Add</i>	8.50	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.50	
26 05 33 13-1337	EA		1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	56.21	16.09
			<i>For Elevated Installation >10' To 15', Add</i>	3.22	
			<i>For Elevated Installation >15' To 20', Add</i>	6.44	
			<i>For Elevated Installation >20' To 25', Add</i>	8.05	
			<i>For Elevated Installation >25' To 30', Add</i>	11.26	
			<i>For Elevated Installation >30' To 35', Add</i>	12.87	
			<i>For Elevated Installation >35' To 40', Add</i>	16.09	
			<i>For Elevated Installation >40', Add</i>	17.70	
			<i>For Work In Restricted Working Space, Add</i>	9.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.65	
26 05 33 13-1338	EA		1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	36.58	8.36
			<i>For Elevated Installation >10' To 15', Add</i>	1.67	
			<i>For Elevated Installation >15' To 20', Add</i>	3.35	
			<i>For Elevated Installation >20' To 25', Add</i>	4.18	
			<i>For Elevated Installation >25' To 30', Add</i>	5.86	
			<i>For Elevated Installation >30' To 35', Add</i>	6.69	
			<i>For Elevated Installation >35' To 40', Add</i>	8.37	
			<i>For Elevated Installation >40', Add</i>	9.20	
			<i>For Work In Restricted Working Space, Add</i>	5.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.02	
26 05 33 13-1339	EA		3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	39.63	9.66
			<i>For Elevated Installation >10' To 15', Add</i>	1.93	
			<i>For Elevated Installation >15' To 20', Add</i>	3.86	
			<i>For Elevated Installation >20' To 25', Add</i>	4.83	
			<i>For Elevated Installation >25' To 30', Add</i>	6.76	
			<i>For Elevated Installation >30' To 35', Add</i>	7.72	
			<i>For Elevated Installation >35' To 40', Add</i>	9.65	
			<i>For Elevated Installation >40', Add</i>	10.62	
			<i>For Work In Restricted Working Space, Add</i>	5.79	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.79	
26 05 33 13-1340	EA		1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	45.79	12.22
			<i>For Elevated Installation >10' To 15', Add</i>	2.45	
			<i>For Elevated Installation >15' To 20', Add</i>	4.89	
			<i>For Elevated Installation >20' To 25', Add</i>	6.11	
			<i>For Elevated Installation >25' To 30', Add</i>	8.56	
			<i>For Elevated Installation >30' To 35', Add</i>	9.78	
			<i>For Elevated Installation >35' To 40', Add</i>	12.23	
			<i>For Elevated Installation >40', Add</i>	13.45	
			<i>For Work In Restricted Working Space, Add</i>	7.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.34	
26 05 33 13-1341	EA		1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	54.16	14.16
			<i>For Elevated Installation >10' To 15', Add</i>	2.83	
			<i>For Elevated Installation >15' To 20', Add</i>	5.66	
			<i>For Elevated Installation >20' To 25', Add</i>	7.08	
			<i>For Elevated Installation >25' To 30', Add</i>	9.91	
			<i>For Elevated Installation >30' To 35', Add</i>	11.33	
			<i>For Elevated Installation >35' To 40', Add</i>	14.16	
			<i>For Elevated Installation >40', Add</i>	15.58	
			<i>For Work In Restricted Working Space, Add</i>	8.50	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.50	
26 05 33 13-1342	EA		1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	58.98	16.09
			<i>For Elevated Installation >10' To 15', Add</i>	3.22	
			<i>For Elevated Installation >15' To 20', Add</i>	6.44	
			<i>For Elevated Installation >20' To 25', Add</i>	8.05	
			<i>For Elevated Installation >25' To 30', Add</i>	11.26	
			<i>For Elevated Installation >30' To 35', Add</i>	12.87	
			<i>For Elevated Installation >35' To 40', Add</i>	16.09	
			<i>For Elevated Installation >40', Add</i>	17.70	
			<i>For Work In Restricted Working Space, Add</i>	9.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.65	
26 05 33 13-1343	EA		2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	64.04	18.02
			<i>For Elevated Installation >10' To 15', Add</i>	3.60	
			<i>For Elevated Installation >15' To 20', Add</i>	7.21	
			<i>For Elevated Installation >20' To 25', Add</i>	9.01	
			<i>For Elevated Installation >25' To 30', Add</i>	12.61	
			<i>For Elevated Installation >30' To 35', Add</i>	14.42	
			<i>For Elevated Installation >35' To 40', Add</i>	18.02	
			<i>For Elevated Installation >40', Add</i>	19.82	
			<i>For Work In Restricted Working Space, Add</i>	10.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1344 EA 1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	36.75	8.36
For Elevated Installation >10' To 15', Add	1.67	
For Elevated Installation >15' To 20', Add	3.35	
For Elevated Installation >20' To 25', Add	4.18	
For Elevated Installation >25' To 30', Add	5.86	
For Elevated Installation >30' To 35', Add	6.69	
For Elevated Installation >35' To 40', Add	8.37	
For Elevated Installation >40', Add	9.20	
For Work In Restricted Working Space, Add	5.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.02	
26 05 33 13-1345 EA 3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	39.80	9.66
For Elevated Installation >10' To 15', Add	1.93	
For Elevated Installation >15' To 20', Add	3.86	
For Elevated Installation >20' To 25', Add	4.83	
For Elevated Installation >25' To 30', Add	6.76	
For Elevated Installation >30' To 35', Add	7.72	
For Elevated Installation >35' To 40', Add	9.65	
For Elevated Installation >40', Add	10.62	
For Work In Restricted Working Space, Add	5.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.79	
26 05 33 13-1346 EA 1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	46.10	12.22
For Elevated Installation >10' To 15', Add	2.45	
For Elevated Installation >15' To 20', Add	4.89	
For Elevated Installation >20' To 25', Add	6.11	
For Elevated Installation >25' To 30', Add	8.56	
For Elevated Installation >30' To 35', Add	9.78	
For Elevated Installation >35' To 40', Add	12.23	
For Elevated Installation >40', Add	13.45	
For Work In Restricted Working Space, Add	7.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.34	
26 05 33 13-1347 EA 1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	54.48	14.16
For Elevated Installation >10' To 15', Add	2.83	
For Elevated Installation >15' To 20', Add	5.66	
For Elevated Installation >20' To 25', Add	7.08	
For Elevated Installation >25' To 30', Add	9.91	
For Elevated Installation >30' To 35', Add	11.32	
For Elevated Installation >35' To 40', Add	14.16	
For Elevated Installation >40', Add	15.57	
For Work In Restricted Working Space, Add	8.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.49	
26 05 33 13-1348 EA 1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	59.30	16.09
For Elevated Installation >10' To 15', Add	3.22	
For Elevated Installation >15' To 20', Add	6.43	
For Elevated Installation >20' To 25', Add	8.04	
For Elevated Installation >25' To 30', Add	11.26	
For Elevated Installation >30' To 35', Add	12.87	
For Elevated Installation >35' To 40', Add	16.09	
For Elevated Installation >40', Add	17.69	
For Work In Restricted Working Space, Add	9.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.65	
26 05 33 13-1349 EA 2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	64.89	18.02
For Elevated Installation >10' To 15', Add	3.60	
For Elevated Installation >15' To 20', Add	7.21	
For Elevated Installation >20' To 25', Add	9.01	
For Elevated Installation >25' To 30', Add	12.61	
For Elevated Installation >30' To 35', Add	14.41	
For Elevated Installation >35' To 40', Add	18.02	
For Elevated Installation >40', Add	19.82	
For Work In Restricted Working Space, Add	10.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.81	
26 05 33 13-1350 EA 1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	39.03	8.36
For Elevated Installation >10' To 15', Add	1.67	
For Elevated Installation >15' To 20', Add	3.35	
For Elevated Installation >20' To 25', Add	4.18	
For Elevated Installation >25' To 30', Add	5.86	
For Elevated Installation >30' To 35', Add	6.69	
For Elevated Installation >35' To 40', Add	8.37	
For Elevated Installation >40', Add	9.20	
For Work In Restricted Working Space, Add	5.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.02	
26 05 33 13-1351 EA 3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	42.08	9.66
For Elevated Installation >10' To 15', Add	1.93	
For Elevated Installation >15' To 20', Add	3.86	
For Elevated Installation >20' To 25', Add	4.83	
For Elevated Installation >25' To 30', Add	6.76	
For Elevated Installation >30' To 35', Add	7.72	
For Elevated Installation >35' To 40', Add	9.65	
For Elevated Installation >40', Add	10.62	
For Work In Restricted Working Space, Add	5.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.79	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1352	EA		1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	48.56	12.22
			<i>For Elevated Installation >10' To 15', Add</i>	2.45	
			<i>For Elevated Installation >15' To 20', Add</i>	4.89	
			<i>For Elevated Installation >20' To 25', Add</i>	6.11	
			<i>For Elevated Installation >25' To 30', Add</i>	8.56	
			<i>For Elevated Installation >30' To 35', Add</i>	9.78	
			<i>For Elevated Installation >35' To 40', Add</i>	12.23	
			<i>For Elevated Installation >40', Add</i>	13.45	
			<i>For Work In Restricted Working Space, Add</i>	7.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.34	
26 05 33 13-1353	EA		1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	55.88	14.16
			<i>For Elevated Installation >10' To 15', Add</i>	2.83	
			<i>For Elevated Installation >15' To 20', Add</i>	5.66	
			<i>For Elevated Installation >20' To 25', Add</i>	7.08	
			<i>For Elevated Installation >25' To 30', Add</i>	9.91	
			<i>For Elevated Installation >30' To 35', Add</i>	11.32	
			<i>For Elevated Installation >35' To 40', Add</i>	14.16	
			<i>For Elevated Installation >40', Add</i>	15.57	
			<i>For Work In Restricted Working Space, Add</i>	8.49	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.49	
26 05 33 13-1354	EA		1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	60.84	16.09
			<i>For Elevated Installation >10' To 15', Add</i>	3.22	
			<i>For Elevated Installation >15' To 20', Add</i>	6.43	
			<i>For Elevated Installation >20' To 25', Add</i>	8.04	
			<i>For Elevated Installation >25' To 30', Add</i>	11.26	
			<i>For Elevated Installation >30' To 35', Add</i>	12.87	
			<i>For Elevated Installation >35' To 40', Add</i>	16.09	
			<i>For Elevated Installation >40', Add</i>	17.69	
			<i>For Work In Restricted Working Space, Add</i>	9.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.65	
26 05 33 13-1355	EA		2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	67.59	18.02
			<i>For Elevated Installation >10' To 15', Add</i>	3.60	
			<i>For Elevated Installation >15' To 20', Add</i>	7.21	
			<i>For Elevated Installation >20' To 25', Add</i>	9.01	
			<i>For Elevated Installation >25' To 30', Add</i>	12.61	
			<i>For Elevated Installation >30' To 35', Add</i>	14.41	
			<i>For Elevated Installation >35' To 40', Add</i>	18.02	
			<i>For Elevated Installation >40', Add</i>	19.82	
			<i>For Work In Restricted Working Space, Add</i>	10.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.81	
26 05 33 13-1356	EA		2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	93.84	21.88
			<i>For Elevated Installation >10' To 15', Add</i>	4.38	
			<i>For Elevated Installation >15' To 20', Add</i>	8.75	
			<i>For Elevated Installation >20' To 25', Add</i>	10.94	
			<i>For Elevated Installation >25' To 30', Add</i>	15.31	
			<i>For Elevated Installation >30' To 35', Add</i>	17.50	
			<i>For Elevated Installation >35' To 40', Add</i>	21.88	
			<i>For Elevated Installation >40', Add</i>	24.06	
			<i>For Work In Restricted Working Space, Add</i>	13.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.13	
26 05 33 13-1357	EA		3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	121.78	30.25
			<i>For Elevated Installation >10' To 15', Add</i>	6.05	
			<i>For Elevated Installation >15' To 20', Add</i>	12.10	
			<i>For Elevated Installation >20' To 25', Add</i>	15.12	
			<i>For Elevated Installation >25' To 30', Add</i>	21.17	
			<i>For Elevated Installation >30' To 35', Add</i>	24.20	
			<i>For Elevated Installation >35' To 40', Add</i>	30.25	
			<i>For Elevated Installation >40', Add</i>	33.27	
			<i>For Work In Restricted Working Space, Add</i>	18.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.15	
26 05 33 13-1358	EA		1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	39.20	8.36
			<i>For Elevated Installation >10' To 15', Add</i>	1.67	
			<i>For Elevated Installation >15' To 20', Add</i>	3.35	
			<i>For Elevated Installation >20' To 25', Add</i>	4.18	
			<i>For Elevated Installation >25' To 30', Add</i>	5.86	
			<i>For Elevated Installation >30' To 35', Add</i>	6.69	
			<i>For Elevated Installation >35' To 40', Add</i>	8.37	
			<i>For Elevated Installation >40', Add</i>	9.20	
			<i>For Work In Restricted Working Space, Add</i>	5.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.02	
26 05 33 13-1359	EA		3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	42.40	9.66
			<i>For Elevated Installation >10' To 15', Add</i>	1.93	
			<i>For Elevated Installation >15' To 20', Add</i>	3.86	
			<i>For Elevated Installation >20' To 25', Add</i>	4.83	
			<i>For Elevated Installation >25' To 30', Add</i>	6.76	
			<i>For Elevated Installation >30' To 35', Add</i>	7.72	
			<i>For Elevated Installation >35' To 40', Add</i>	9.65	
			<i>For Elevated Installation >40', Add</i>	10.62	
			<i>For Work In Restricted Working Space, Add</i>	5.79	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1360 EA 1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	48.89	12.22
For Elevated Installation >10' To 15', Add	2.45	
For Elevated Installation >15' To 20', Add	4.89	
For Elevated Installation >20' To 25', Add	6.11	
For Elevated Installation >25' To 30', Add	8.56	
For Elevated Installation >30' To 35', Add	9.78	
For Elevated Installation >35' To 40', Add	12.23	
For Elevated Installation >40', Add	13.45	
For Work In Restricted Working Space, Add	7.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.34	
26 05 33 13-1361 EA 1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	57.27	14.16
For Elevated Installation >10' To 15', Add	2.83	
For Elevated Installation >15' To 20', Add	5.66	
For Elevated Installation >20' To 25', Add	7.08	
For Elevated Installation >25' To 30', Add	9.91	
For Elevated Installation >30' To 35', Add	11.32	
For Elevated Installation >35' To 40', Add	14.16	
For Elevated Installation >40', Add	15.57	
For Work In Restricted Working Space, Add	8.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.49	
26 05 33 13-1362 EA 1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	62.38	16.09
For Elevated Installation >10' To 15', Add	3.22	
For Elevated Installation >15' To 20', Add	6.43	
For Elevated Installation >20' To 25', Add	8.04	
For Elevated Installation >25' To 30', Add	11.26	
For Elevated Installation >30' To 35', Add	12.87	
For Elevated Installation >35' To 40', Add	16.09	
For Elevated Installation >40', Add	17.69	
For Work In Restricted Working Space, Add	9.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.65	
26 05 33 13-1363 EA 2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	70.28	18.02
For Elevated Installation >10' To 15', Add	3.60	
For Elevated Installation >15' To 20', Add	7.21	
For Elevated Installation >20' To 25', Add	9.01	
For Elevated Installation >25' To 30', Add	12.61	
For Elevated Installation >30' To 35', Add	14.41	
For Elevated Installation >35' To 40', Add	18.02	
For Elevated Installation >40', Add	19.82	
For Work In Restricted Working Space, Add	10.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.81	
26 05 33 13-1364 EA 2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	96.22	21.88
For Elevated Installation >10' To 15', Add	4.38	
For Elevated Installation >15' To 20', Add	8.75	
For Elevated Installation >20' To 25', Add	10.94	
For Elevated Installation >25' To 30', Add	15.31	
For Elevated Installation >30' To 35', Add	17.50	
For Elevated Installation >35' To 40', Add	21.88	
For Elevated Installation >40', Add	24.06	
For Work In Restricted Working Space, Add	13.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.13	
26 05 33 13-1365 EA 3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	126.90	30.25
For Elevated Installation >10' To 15', Add	6.05	
For Elevated Installation >15' To 20', Add	12.10	
For Elevated Installation >20' To 25', Add	15.12	
For Elevated Installation >25' To 30', Add	21.17	
For Elevated Installation >30' To 35', Add	24.20	
For Elevated Installation >35' To 40', Add	30.25	
For Elevated Installation >40', Add	33.27	
For Work In Restricted Working Space, Add	18.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.15	
26 05 33 13-1366 EA 3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	151.03	34.11
For Elevated Installation >10' To 15', Add	6.82	
For Elevated Installation >15' To 20', Add	13.64	
For Elevated Installation >20' To 25', Add	17.05	
For Elevated Installation >25' To 30', Add	23.87	
For Elevated Installation >30' To 35', Add	27.28	
For Elevated Installation >35' To 40', Add	34.11	
For Elevated Installation >40', Add	37.52	
For Work In Restricted Working Space, Add	20.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.46	
26 05 33 13-1367 EA 4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	177.41	44.41
For Elevated Installation >10' To 15', Add	8.88	
For Elevated Installation >15' To 20', Add	17.76	
For Elevated Installation >20' To 25', Add	22.20	
For Elevated Installation >25' To 30', Add	31.08	
For Elevated Installation >30' To 35', Add	35.52	
For Elevated Installation >35' To 40', Add	44.40	
For Elevated Installation >40', Add	48.84	
For Work In Restricted Working Space, Add	26.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.64	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1368	EA		1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	39.51	8.36
			<i>For Elevated Installation >10' To 15', Add</i>	1.67	
			<i>For Elevated Installation >15' To 20', Add</i>	3.35	
			<i>For Elevated Installation >20' To 25', Add</i>	4.18	
			<i>For Elevated Installation >25' To 30', Add</i>	5.86	
			<i>For Elevated Installation >30' To 35', Add</i>	6.69	
			<i>For Elevated Installation >35' To 40', Add</i>	8.37	
			<i>For Elevated Installation >40', Add</i>	9.20	
			<i>For Work In Restricted Working Space, Add</i>	5.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.02	
26 05 33 13-1369	EA		3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	42.73	9.66
			<i>For Elevated Installation >10' To 15', Add</i>	1.93	
			<i>For Elevated Installation >15' To 20', Add</i>	3.86	
			<i>For Elevated Installation >20' To 25', Add</i>	4.83	
			<i>For Elevated Installation >25' To 30', Add</i>	6.76	
			<i>For Elevated Installation >30' To 35', Add</i>	7.72	
			<i>For Elevated Installation >35' To 40', Add</i>	9.65	
			<i>For Elevated Installation >40', Add</i>	10.62	
			<i>For Work In Restricted Working Space, Add</i>	5.79	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.79	
26 05 33 13-1370	EA		1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	49.25	12.22
			<i>For Elevated Installation >10' To 15', Add</i>	2.45	
			<i>For Elevated Installation >15' To 20', Add</i>	4.89	
			<i>For Elevated Installation >20' To 25', Add</i>	6.11	
			<i>For Elevated Installation >25' To 30', Add</i>	8.56	
			<i>For Elevated Installation >30' To 35', Add</i>	9.78	
			<i>For Elevated Installation >35' To 40', Add</i>	12.23	
			<i>For Elevated Installation >40', Add</i>	13.45	
			<i>For Work In Restricted Working Space, Add</i>	7.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.34	
26 05 33 13-1371	EA		1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	57.92	14.16
			<i>For Elevated Installation >10' To 15', Add</i>	2.83	
			<i>For Elevated Installation >15' To 20', Add</i>	5.66	
			<i>For Elevated Installation >20' To 25', Add</i>	7.08	
			<i>For Elevated Installation >25' To 30', Add</i>	9.91	
			<i>For Elevated Installation >30' To 35', Add</i>	11.32	
			<i>For Elevated Installation >35' To 40', Add</i>	14.16	
			<i>For Elevated Installation >40', Add</i>	15.57	
			<i>For Work In Restricted Working Space, Add</i>	8.49	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.49	
26 05 33 13-1372	EA		1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	63.05	16.09
			<i>For Elevated Installation >10' To 15', Add</i>	3.22	
			<i>For Elevated Installation >15' To 20', Add</i>	6.43	
			<i>For Elevated Installation >20' To 25', Add</i>	8.04	
			<i>For Elevated Installation >25' To 30', Add</i>	11.26	
			<i>For Elevated Installation >30' To 35', Add</i>	12.87	
			<i>For Elevated Installation >35' To 40', Add</i>	16.09	
			<i>For Elevated Installation >40', Add</i>	17.69	
			<i>For Work In Restricted Working Space, Add</i>	9.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.65	
26 05 33 13-1373	EA		2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	71.74	18.02
			<i>For Elevated Installation >10' To 15', Add</i>	3.60	
			<i>For Elevated Installation >15' To 20', Add</i>	7.21	
			<i>For Elevated Installation >20' To 25', Add</i>	9.01	
			<i>For Elevated Installation >25' To 30', Add</i>	12.61	
			<i>For Elevated Installation >30' To 35', Add</i>	14.41	
			<i>For Elevated Installation >35' To 40', Add</i>	18.02	
			<i>For Elevated Installation >40', Add</i>	19.82	
			<i>For Work In Restricted Working Space, Add</i>	10.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.81	
26 05 33 13-1374	EA		2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	105.69	21.88
			<i>For Elevated Installation >10' To 15', Add</i>	4.38	
			<i>For Elevated Installation >15' To 20', Add</i>	8.75	
			<i>For Elevated Installation >20' To 25', Add</i>	10.94	
			<i>For Elevated Installation >25' To 30', Add</i>	15.31	
			<i>For Elevated Installation >30' To 35', Add</i>	17.50	
			<i>For Elevated Installation >35' To 40', Add</i>	21.88	
			<i>For Elevated Installation >40', Add</i>	24.06	
			<i>For Work In Restricted Working Space, Add</i>	13.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.13	
26 05 33 13-1375	EA		3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	134.56	30.25
			<i>For Elevated Installation >10' To 15', Add</i>	6.05	
			<i>For Elevated Installation >15' To 20', Add</i>	12.10	
			<i>For Elevated Installation >20' To 25', Add</i>	15.12	
			<i>For Elevated Installation >25' To 30', Add</i>	21.17	
			<i>For Elevated Installation >30' To 35', Add</i>	24.20	
			<i>For Elevated Installation >35' To 40', Add</i>	30.25	
			<i>For Elevated Installation >40', Add</i>	33.27	
			<i>For Work In Restricted Working Space, Add</i>	18.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1376 EA 3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	152.67	34.11
For Elevated Installation >10' To 15', Add	6.82	
For Elevated Installation >15' To 20', Add	13.64	
For Elevated Installation >20' To 25', Add	17.05	
For Elevated Installation >25' To 30', Add	23.87	
For Elevated Installation >30' To 35', Add	27.28	
For Elevated Installation >35' To 40', Add	34.11	
For Elevated Installation >40', Add	37.52	
For Work In Restricted Working Space, Add	20.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.46	
26 05 33 13-1377 EA 4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	181.79	44.41
For Elevated Installation >10' To 15', Add	8.88	
For Elevated Installation >15' To 20', Add	17.76	
For Elevated Installation >20' To 25', Add	22.20	
For Elevated Installation >25' To 30', Add	31.08	
For Elevated Installation >30' To 35', Add	35.52	
For Elevated Installation >35' To 40', Add	44.40	
For Elevated Installation >40', Add	48.84	
For Work In Restricted Working Space, Add	26.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.64	
26 05 33 13-1378 EA 5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	266.91	61.13
For Elevated Installation >10' To 15', Add	12.23	
For Elevated Installation >15' To 20', Add	24.45	
For Elevated Installation >20' To 25', Add	30.57	
For Elevated Installation >25' To 30', Add	42.79	
For Elevated Installation >30' To 35', Add	48.91	
For Elevated Installation >35' To 40', Add	61.14	
For Elevated Installation >40', Add	67.25	
For Work In Restricted Working Space, Add	36.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.68	
26 05 33 13-1379 EA 1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	40.12	8.36
For Elevated Installation >10' To 15', Add	1.67	
For Elevated Installation >15' To 20', Add	3.35	
For Elevated Installation >20' To 25', Add	4.18	
For Elevated Installation >25' To 30', Add	5.86	
For Elevated Installation >30' To 35', Add	6.69	
For Elevated Installation >35' To 40', Add	8.37	
For Elevated Installation >40', Add	9.20	
For Work In Restricted Working Space, Add	5.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.02	
26 05 33 13-1380 EA 3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	43.33	9.66
For Elevated Installation >10' To 15', Add	1.93	
For Elevated Installation >15' To 20', Add	3.86	
For Elevated Installation >20' To 25', Add	4.83	
For Elevated Installation >25' To 30', Add	6.76	
For Elevated Installation >30' To 35', Add	7.72	
For Elevated Installation >35' To 40', Add	9.65	
For Elevated Installation >40', Add	10.62	
For Work In Restricted Working Space, Add	5.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.79	
26 05 33 13-1381 EA 1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	49.90	12.22
For Elevated Installation >10' To 15', Add	2.45	
For Elevated Installation >15' To 20', Add	4.89	
For Elevated Installation >20' To 25', Add	6.11	
For Elevated Installation >25' To 30', Add	8.56	
For Elevated Installation >30' To 35', Add	9.78	
For Elevated Installation >35' To 40', Add	12.23	
For Elevated Installation >40', Add	13.45	
For Work In Restricted Working Space, Add	7.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.34	
26 05 33 13-1382 EA 1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	59.12	14.16
For Elevated Installation >10' To 15', Add	2.83	
For Elevated Installation >15' To 20', Add	5.66	
For Elevated Installation >20' To 25', Add	7.08	
For Elevated Installation >25' To 30', Add	9.91	
For Elevated Installation >30' To 35', Add	11.32	
For Elevated Installation >35' To 40', Add	14.16	
For Elevated Installation >40', Add	15.57	
For Work In Restricted Working Space, Add	8.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.49	
26 05 33 13-1383 EA 1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	64.50	16.09
For Elevated Installation >10' To 15', Add	3.22	
For Elevated Installation >15' To 20', Add	6.43	
For Elevated Installation >20' To 25', Add	8.04	
For Elevated Installation >25' To 30', Add	11.26	
For Elevated Installation >30' To 35', Add	12.87	
For Elevated Installation >35' To 40', Add	16.09	
For Elevated Installation >40', Add	17.69	
For Work In Restricted Working Space, Add	9.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.65	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1384	EA		2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	73.21	18.02
			<i>For Elevated Installation >10' To 15', Add</i>	3.60	
			<i>For Elevated Installation >15' To 20', Add</i>	7.21	
			<i>For Elevated Installation >20' To 25', Add</i>	9.01	
			<i>For Elevated Installation >25' To 30', Add</i>	12.61	
			<i>For Elevated Installation >30' To 35', Add</i>	14.41	
			<i>For Elevated Installation >35' To 40', Add</i>	18.02	
			<i>For Elevated Installation >40', Add</i>	19.82	
			<i>For Work In Restricted Working Space, Add</i>	10.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.81	
26 05 33 13-1385	EA		2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	115.30	21.88
			<i>For Elevated Installation >10' To 15', Add</i>	4.38	
			<i>For Elevated Installation >15' To 20', Add</i>	8.75	
			<i>For Elevated Installation >20' To 25', Add</i>	10.94	
			<i>For Elevated Installation >25' To 30', Add</i>	15.31	
			<i>For Elevated Installation >30' To 35', Add</i>	17.50	
			<i>For Elevated Installation >35' To 40', Add</i>	21.88	
			<i>For Elevated Installation >40', Add</i>	24.06	
			<i>For Work In Restricted Working Space, Add</i>	13.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.13	
26 05 33 13-1386	EA		3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	144.75	30.25
			<i>For Elevated Installation >10' To 15', Add</i>	6.05	
			<i>For Elevated Installation >15' To 20', Add</i>	12.10	
			<i>For Elevated Installation >20' To 25', Add</i>	15.12	
			<i>For Elevated Installation >25' To 30', Add</i>	21.17	
			<i>For Elevated Installation >30' To 35', Add</i>	24.20	
			<i>For Elevated Installation >35' To 40', Add</i>	30.25	
			<i>For Elevated Installation >40', Add</i>	33.27	
			<i>For Work In Restricted Working Space, Add</i>	18.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.15	
26 05 33 13-1387	EA		3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	161.85	34.11
			<i>For Elevated Installation >10' To 15', Add</i>	6.82	
			<i>For Elevated Installation >15' To 20', Add</i>	13.64	
			<i>For Elevated Installation >20' To 25', Add</i>	17.05	
			<i>For Elevated Installation >25' To 30', Add</i>	23.87	
			<i>For Elevated Installation >30' To 35', Add</i>	27.28	
			<i>For Elevated Installation >35' To 40', Add</i>	34.11	
			<i>For Elevated Installation >40', Add</i>	37.52	
			<i>For Work In Restricted Working Space, Add</i>	20.46	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.46	
26 05 33 13-1388	EA		4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	197.27	44.41
			<i>For Elevated Installation >10' To 15', Add</i>	8.88	
			<i>For Elevated Installation >15' To 20', Add</i>	17.76	
			<i>For Elevated Installation >20' To 25', Add</i>	22.20	
			<i>For Elevated Installation >25' To 30', Add</i>	31.08	
			<i>For Elevated Installation >30' To 35', Add</i>	35.52	
			<i>For Elevated Installation >35' To 40', Add</i>	44.40	
			<i>For Elevated Installation >40', Add</i>	48.84	
			<i>For Work In Restricted Working Space, Add</i>	26.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.64	
26 05 33 13-1389	EA		5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	290.05	61.13
			<i>For Elevated Installation >10' To 15', Add</i>	12.23	
			<i>For Elevated Installation >15' To 20', Add</i>	24.45	
			<i>For Elevated Installation >20' To 25', Add</i>	30.57	
			<i>For Elevated Installation >25' To 30', Add</i>	42.79	
			<i>For Elevated Installation >30' To 35', Add</i>	48.91	
			<i>For Elevated Installation >35' To 40', Add</i>	61.14	
			<i>For Elevated Installation >40', Add</i>	67.25	
			<i>For Work In Restricted Working Space, Add</i>	36.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.68	
26 05 33 13-1390	EA		1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	41.05	8.36
			<i>For Elevated Installation >10' To 15', Add</i>	1.67	
			<i>For Elevated Installation >15' To 20', Add</i>	3.35	
			<i>For Elevated Installation >20' To 25', Add</i>	4.18	
			<i>For Elevated Installation >25' To 30', Add</i>	5.86	
			<i>For Elevated Installation >30' To 35', Add</i>	6.69	
			<i>For Elevated Installation >35' To 40', Add</i>	8.37	
			<i>For Elevated Installation >40', Add</i>	9.20	
			<i>For Work In Restricted Working Space, Add</i>	5.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.02	
26 05 33 13-1391	EA		3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	44.25	9.66
			<i>For Elevated Installation >10' To 15', Add</i>	1.93	
			<i>For Elevated Installation >15' To 20', Add</i>	3.86	
			<i>For Elevated Installation >20' To 25', Add</i>	4.83	
			<i>For Elevated Installation >25' To 30', Add</i>	6.76	
			<i>For Elevated Installation >30' To 35', Add</i>	7.72	
			<i>For Elevated Installation >35' To 40', Add</i>	9.65	
			<i>For Elevated Installation >40', Add</i>	10.62	
			<i>For Work In Restricted Working Space, Add</i>	5.79	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1392 EA 1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	51.34	12.22
For Elevated Installation >10' To 15', Add	2.45	
For Elevated Installation >15' To 20', Add	4.89	
For Elevated Installation >20' To 25', Add	6.11	
For Elevated Installation >25' To 30', Add	8.56	
For Elevated Installation >30' To 35', Add	9.78	
For Elevated Installation >35' To 40', Add	12.23	
For Elevated Installation >40', Add	13.45	
For Work In Restricted Working Space, Add	7.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.34	
26 05 33 13-1393 EA 1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	59.43	14.16
For Elevated Installation >10' To 15', Add	2.83	
For Elevated Installation >15' To 20', Add	5.66	
For Elevated Installation >20' To 25', Add	7.08	
For Elevated Installation >25' To 30', Add	9.91	
For Elevated Installation >30' To 35', Add	11.32	
For Elevated Installation >35' To 40', Add	14.16	
For Elevated Installation >40', Add	15.57	
For Work In Restricted Working Space, Add	8.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.49	
26 05 33 13-1394 EA 1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	67.43	16.09
For Elevated Installation >10' To 15', Add	3.22	
For Elevated Installation >15' To 20', Add	6.43	
For Elevated Installation >20' To 25', Add	8.04	
For Elevated Installation >25' To 30', Add	11.26	
For Elevated Installation >30' To 35', Add	12.87	
For Elevated Installation >35' To 40', Add	16.09	
For Elevated Installation >40', Add	17.69	
For Work In Restricted Working Space, Add	9.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.65	
26 05 33 13-1395 EA 2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	80.37	18.02
For Elevated Installation >10' To 15', Add	3.60	
For Elevated Installation >15' To 20', Add	7.21	
For Elevated Installation >20' To 25', Add	9.01	
For Elevated Installation >25' To 30', Add	12.61	
For Elevated Installation >30' To 35', Add	14.41	
For Elevated Installation >35' To 40', Add	18.02	
For Elevated Installation >40', Add	19.82	
For Work In Restricted Working Space, Add	10.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.81	
26 05 33 13-1396 EA 2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	127.12	21.88
For Elevated Installation >10' To 15', Add	4.38	
For Elevated Installation >15' To 20', Add	8.75	
For Elevated Installation >20' To 25', Add	10.94	
For Elevated Installation >25' To 30', Add	15.31	
For Elevated Installation >30' To 35', Add	17.50	
For Elevated Installation >35' To 40', Add	21.88	
For Elevated Installation >40', Add	24.06	
For Work In Restricted Working Space, Add	13.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.13	
26 05 33 13-1397 EA 3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	158.69	30.25
For Elevated Installation >10' To 15', Add	6.05	
For Elevated Installation >15' To 20', Add	12.10	
For Elevated Installation >20' To 25', Add	15.12	
For Elevated Installation >25' To 30', Add	21.17	
For Elevated Installation >30' To 35', Add	24.20	
For Elevated Installation >35' To 40', Add	30.25	
For Elevated Installation >40', Add	33.27	
For Work In Restricted Working Space, Add	18.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.15	
26 05 33 13-1398 EA 3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	184.82	34.11
For Elevated Installation >10' To 15', Add	6.82	
For Elevated Installation >15' To 20', Add	13.64	
For Elevated Installation >20' To 25', Add	17.05	
For Elevated Installation >25' To 30', Add	23.87	
For Elevated Installation >30' To 35', Add	27.28	
For Elevated Installation >35' To 40', Add	34.11	
For Elevated Installation >40', Add	37.52	
For Work In Restricted Working Space, Add	20.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.46	
26 05 33 13-1399 EA 4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	220.51	44.41
For Elevated Installation >10' To 15', Add	8.88	
For Elevated Installation >15' To 20', Add	17.76	
For Elevated Installation >20' To 25', Add	22.20	
For Elevated Installation >25' To 30', Add	31.08	
For Elevated Installation >30' To 35', Add	35.52	
For Elevated Installation >35' To 40', Add	44.40	
For Elevated Installation >40', Add	48.84	
For Work In Restricted Working Space, Add	26.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.64	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1400	EA		5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	305.91	61.13
			<i>For Elevated Installation >10' To 15', Add</i>	12.23	
			<i>For Elevated Installation >15' To 20', Add</i>	24.45	
			<i>For Elevated Installation >20' To 25', Add</i>	30.57	
			<i>For Elevated Installation >25' To 30', Add</i>	42.79	
			<i>For Elevated Installation >30' To 35', Add</i>	48.91	
			<i>For Elevated Installation >35' To 40', Add</i>	61.14	
			<i>For Elevated Installation >40', Add</i>	67.25	
			<i>For Work In Restricted Working Space, Add</i>	36.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.68	
26 05 33 13-1401	EA		1 1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	42.04	8.36
			<i>For Elevated Installation >10' To 15', Add</i>	1.67	
			<i>For Elevated Installation >15' To 20', Add</i>	3.35	
			<i>For Elevated Installation >20' To 25', Add</i>	4.18	
			<i>For Elevated Installation >25' To 30', Add</i>	5.86	
			<i>For Elevated Installation >30' To 35', Add</i>	6.69	
			<i>For Elevated Installation >35' To 40', Add</i>	8.37	
			<i>For Elevated Installation >40', Add</i>	9.20	
			<i>For Work In Restricted Working Space, Add</i>	5.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.02	
26 05 33 13-1402	EA		3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	45.21	9.66
			<i>For Elevated Installation >10' To 15', Add</i>	1.93	
			<i>For Elevated Installation >15' To 20', Add</i>	3.86	
			<i>For Elevated Installation >20' To 25', Add</i>	4.83	
			<i>For Elevated Installation >25' To 30', Add</i>	6.76	
			<i>For Elevated Installation >30' To 35', Add</i>	7.72	
			<i>For Elevated Installation >35' To 40', Add</i>	9.65	
			<i>For Elevated Installation >40', Add</i>	10.62	
			<i>For Work In Restricted Working Space, Add</i>	5.79	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.79	
26 05 33 13-1403	EA		1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	52.76	12.22
			<i>For Elevated Installation >10' To 15', Add</i>	2.45	
			<i>For Elevated Installation >15' To 20', Add</i>	4.89	
			<i>For Elevated Installation >20' To 25', Add</i>	6.11	
			<i>For Elevated Installation >25' To 30', Add</i>	8.56	
			<i>For Elevated Installation >30' To 35', Add</i>	9.78	
			<i>For Elevated Installation >35' To 40', Add</i>	12.23	
			<i>For Elevated Installation >40', Add</i>	13.45	
			<i>For Work In Restricted Working Space, Add</i>	7.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.34	
26 05 33 13-1404	EA		1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	63.76	14.16
			<i>For Elevated Installation >10' To 15', Add</i>	2.83	
			<i>For Elevated Installation >15' To 20', Add</i>	5.66	
			<i>For Elevated Installation >20' To 25', Add</i>	7.08	
			<i>For Elevated Installation >25' To 30', Add</i>	9.91	
			<i>For Elevated Installation >30' To 35', Add</i>	11.32	
			<i>For Elevated Installation >35' To 40', Add</i>	14.16	
			<i>For Elevated Installation >40', Add</i>	15.57	
			<i>For Work In Restricted Working Space, Add</i>	8.49	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.49	
26 05 33 13-1405	EA		1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	74.40	16.09
			<i>For Elevated Installation >10' To 15', Add</i>	3.22	
			<i>For Elevated Installation >15' To 20', Add</i>	6.43	
			<i>For Elevated Installation >20' To 25', Add</i>	8.04	
			<i>For Elevated Installation >25' To 30', Add</i>	11.26	
			<i>For Elevated Installation >30' To 35', Add</i>	12.87	
			<i>For Elevated Installation >35' To 40', Add</i>	16.09	
			<i>For Elevated Installation >40', Add</i>	17.69	
			<i>For Work In Restricted Working Space, Add</i>	9.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.65	
26 05 33 13-1406	EA		2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	90.90	18.02
			<i>For Elevated Installation >10' To 15', Add</i>	3.60	
			<i>For Elevated Installation >15' To 20', Add</i>	7.21	
			<i>For Elevated Installation >20' To 25', Add</i>	9.01	
			<i>For Elevated Installation >25' To 30', Add</i>	12.61	
			<i>For Elevated Installation >30' To 35', Add</i>	14.41	
			<i>For Elevated Installation >35' To 40', Add</i>	18.02	
			<i>For Elevated Installation >40', Add</i>	19.82	
			<i>For Work In Restricted Working Space, Add</i>	10.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.81	
26 05 33 13-1407	EA		2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	139.62	21.88
			<i>For Elevated Installation >10' To 15', Add</i>	4.38	
			<i>For Elevated Installation >15' To 20', Add</i>	8.75	
			<i>For Elevated Installation >20' To 25', Add</i>	10.94	
			<i>For Elevated Installation >25' To 30', Add</i>	15.31	
			<i>For Elevated Installation >30' To 35', Add</i>	17.50	
			<i>For Elevated Installation >35' To 40', Add</i>	21.88	
			<i>For Elevated Installation >40', Add</i>	24.06	
			<i>For Work In Restricted Working Space, Add</i>	13.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1408 EA 3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	176.55	30.25
For Elevated Installation >10' To 15', Add	6.05	
For Elevated Installation >15' To 20', Add	12.10	
For Elevated Installation >20' To 25', Add	15.12	
For Elevated Installation >25' To 30', Add	21.17	
For Elevated Installation >30' To 35', Add	24.20	
For Elevated Installation >35' To 40', Add	30.25	
For Elevated Installation >40', Add	33.27	
For Work In Restricted Working Space, Add	18.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.15	
26 05 33 13-1409 EA 3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	208.95	34.11
For Elevated Installation >10' To 15', Add	6.82	
For Elevated Installation >15' To 20', Add	13.64	
For Elevated Installation >20' To 25', Add	17.05	
For Elevated Installation >25' To 30', Add	23.87	
For Elevated Installation >30' To 35', Add	27.28	
For Elevated Installation >35' To 40', Add	34.11	
For Elevated Installation >40', Add	37.52	
For Work In Restricted Working Space, Add	20.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.46	
26 05 33 13-1410 EA 4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	261.17	44.41
For Elevated Installation >10' To 15', Add	8.88	
For Elevated Installation >15' To 20', Add	17.76	
For Elevated Installation >20' To 25', Add	22.20	
For Elevated Installation >25' To 30', Add	31.08	
For Elevated Installation >30' To 35', Add	35.52	
For Elevated Installation >35' To 40', Add	44.40	
For Elevated Installation >40', Add	48.84	
For Work In Restricted Working Space, Add	26.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.64	
26 05 33 13-1411 EA 5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	337.57	61.13
For Elevated Installation >10' To 15', Add	12.23	
For Elevated Installation >15' To 20', Add	24.45	
For Elevated Installation >20' To 25', Add	30.57	
For Elevated Installation >25' To 30', Add	42.79	
For Elevated Installation >30' To 35', Add	48.91	
For Elevated Installation >35' To 40', Add	61.14	
For Elevated Installation >40', Add	67.25	
For Work In Restricted Working Space, Add	36.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.68	
26 05 33 13-1412 EA 1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	43.05	8.36
For Elevated Installation >10' To 15', Add	1.67	
For Elevated Installation >15' To 20', Add	3.35	
For Elevated Installation >20' To 25', Add	4.18	
For Elevated Installation >25' To 30', Add	5.86	
For Elevated Installation >30' To 35', Add	6.69	
For Elevated Installation >35' To 40', Add	8.37	
For Elevated Installation >40', Add	9.20	
For Work In Restricted Working Space, Add	5.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.02	
26 05 33 13-1413 EA 3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	46.34	9.66
For Elevated Installation >10' To 15', Add	1.93	
For Elevated Installation >15' To 20', Add	3.86	
For Elevated Installation >20' To 25', Add	4.83	
For Elevated Installation >25' To 30', Add	6.76	
For Elevated Installation >30' To 35', Add	7.72	
For Elevated Installation >35' To 40', Add	9.65	
For Elevated Installation >40', Add	10.62	
For Work In Restricted Working Space, Add	5.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.79	
26 05 33 13-1414 EA 1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	56.37	12.22
For Elevated Installation >10' To 15', Add	2.45	
For Elevated Installation >15' To 20', Add	4.89	
For Elevated Installation >20' To 25', Add	6.11	
For Elevated Installation >25' To 30', Add	8.56	
For Elevated Installation >30' To 35', Add	9.78	
For Elevated Installation >35' To 40', Add	12.23	
For Elevated Installation >40', Add	13.45	
For Work In Restricted Working Space, Add	7.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.34	
26 05 33 13-1415 EA 1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	70.87	14.16
For Elevated Installation >10' To 15', Add	2.83	
For Elevated Installation >15' To 20', Add	5.66	
For Elevated Installation >20' To 25', Add	7.08	
For Elevated Installation >25' To 30', Add	9.91	
For Elevated Installation >30' To 35', Add	11.32	
For Elevated Installation >35' To 40', Add	14.16	
For Elevated Installation >40', Add	15.57	
For Work In Restricted Working Space, Add	8.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.49	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1416	EA		1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	82.83	16.09
			<i>For Elevated Installation >10' To 15', Add</i>	3.22	
			<i>For Elevated Installation >15' To 20', Add</i>	6.43	
			<i>For Elevated Installation >20' To 25', Add</i>	8.04	
			<i>For Elevated Installation >25' To 30', Add</i>	11.26	
			<i>For Elevated Installation >30' To 35', Add</i>	12.87	
			<i>For Elevated Installation >35' To 40', Add</i>	16.09	
			<i>For Elevated Installation >40', Add</i>	17.69	
			<i>For Work In Restricted Working Space, Add</i>	9.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.65	
26 05 33 13-1417	EA		2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	99.36	18.02
			<i>For Elevated Installation >10' To 15', Add</i>	3.60	
			<i>For Elevated Installation >15' To 20', Add</i>	7.21	
			<i>For Elevated Installation >20' To 25', Add</i>	9.01	
			<i>For Elevated Installation >25' To 30', Add</i>	12.61	
			<i>For Elevated Installation >30' To 35', Add</i>	14.41	
			<i>For Elevated Installation >35' To 40', Add</i>	18.02	
			<i>For Elevated Installation >40', Add</i>	19.82	
			<i>For Work In Restricted Working Space, Add</i>	10.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.81	
26 05 33 13-1418	EA		2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	156.30	21.88
			<i>For Elevated Installation >10' To 15', Add</i>	4.38	
			<i>For Elevated Installation >15' To 20', Add</i>	8.75	
			<i>For Elevated Installation >20' To 25', Add</i>	10.94	
			<i>For Elevated Installation >25' To 30', Add</i>	15.31	
			<i>For Elevated Installation >30' To 35', Add</i>	17.50	
			<i>For Elevated Installation >35' To 40', Add</i>	21.88	
			<i>For Elevated Installation >40', Add</i>	24.06	
			<i>For Work In Restricted Working Space, Add</i>	13.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.13	
26 05 33 13-1419	EA		3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	203.32	30.25
			<i>For Elevated Installation >10' To 15', Add</i>	6.05	
			<i>For Elevated Installation >15' To 20', Add</i>	12.10	
			<i>For Elevated Installation >20' To 25', Add</i>	15.12	
			<i>For Elevated Installation >25' To 30', Add</i>	21.17	
			<i>For Elevated Installation >30' To 35', Add</i>	24.20	
			<i>For Elevated Installation >35' To 40', Add</i>	30.25	
			<i>For Elevated Installation >40', Add</i>	33.27	
			<i>For Work In Restricted Working Space, Add</i>	18.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.15	
26 05 33 13-1420	EA		3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	223.76	34.11
			<i>For Elevated Installation >10' To 15', Add</i>	6.82	
			<i>For Elevated Installation >15' To 20', Add</i>	13.64	
			<i>For Elevated Installation >20' To 25', Add</i>	17.05	
			<i>For Elevated Installation >25' To 30', Add</i>	23.87	
			<i>For Elevated Installation >30' To 35', Add</i>	27.28	
			<i>For Elevated Installation >35' To 40', Add</i>	34.11	
			<i>For Elevated Installation >40', Add</i>	37.52	
			<i>For Work In Restricted Working Space, Add</i>	20.46	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.46	
26 05 33 13-1421	EA		4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	273.65	44.41
			<i>For Elevated Installation >10' To 15', Add</i>	8.88	
			<i>For Elevated Installation >15' To 20', Add</i>	17.76	
			<i>For Elevated Installation >20' To 25', Add</i>	22.20	
			<i>For Elevated Installation >25' To 30', Add</i>	31.08	
			<i>For Elevated Installation >30' To 35', Add</i>	35.52	
			<i>For Elevated Installation >35' To 40', Add</i>	44.40	
			<i>For Elevated Installation >40', Add</i>	48.84	
			<i>For Work In Restricted Working Space, Add</i>	26.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.64	
26 05 33 13-1422	EA		5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	342.09	61.13
			<i>For Elevated Installation >10' To 15', Add</i>	12.23	
			<i>For Elevated Installation >15' To 20', Add</i>	24.45	
			<i>For Elevated Installation >20' To 25', Add</i>	30.57	
			<i>For Elevated Installation >25' To 30', Add</i>	42.79	
			<i>For Elevated Installation >30' To 35', Add</i>	48.91	
			<i>For Elevated Installation >35' To 40', Add</i>	61.14	
			<i>For Elevated Installation >40', Add</i>	67.25	
			<i>For Work In Restricted Working Space, Add</i>	36.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.68	
26 05 33 13-1423			Aluminum Rigid Conduit (ARC) <small>(26 05 33 13-0058)</small>		
			Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1424			Aluminum Rigid Conduit (ARC) With Threaded Coupling <small>(26 05 33 13-1423)</small>		
			Note: Includes field bend conduit up to 1".		
26 05 33 13-1425	LF		1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	5.97	1.98
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.74	
			<i>For Work In Restricted Working Space, Add</i>	1.49	
26 05 33 13-1426	LF		3/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	6.80	2.18
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.82	
			<i>For Work In Restricted Working Space, Add</i>	1.64	
26 05 33 13-1427	LF		1" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	7.86	2.38
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.89	
			<i>For Work In Restricted Working Space, Add</i>	1.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1428 LF 1-1/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	8.96 0.97 1.93	2.58
26 05 33 13-1429 LF 1-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	10.06 1.04 2.08	2.77
26 05 33 13-1430 LF 2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	12.11 1.19 2.38	3.17
26 05 33 13-1431 LF 2-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	16.52 1.49 2.97	3.96
26 05 33 13-1432 LF 3" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	20.58 1.78 3.56	4.75
26 05 33 13-1433 LF 3-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	25.29 2.23 4.46	5.94
26 05 33 13-1434 LF 4" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	31.17 2.82 5.64	7.52
26 05 33 13-1435 LF 5" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	41.45 3.56 7.13	9.51
26 05 33 13-1436 LF 6" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	52.98 4.46 8.91	11.88
26 05 33 13-1437 Aluminum 90 Degree Elbows <small>(26 05 33 13-1423)</small>		
26 05 33 13-1438 EA 1" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	36.52 7.72	10.30
26 05 33 13-1439 EA 1-1/4" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	46.32 8.76	11.68
26 05 33 13-1440 EA 1-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	56.45 10.10	13.47
26 05 33 13-1441 EA 2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	72.15 11.58	15.44
26 05 33 13-1442 EA 2-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	103.54 14.11	18.81
26 05 33 13-1443 EA 3" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	148.19 18.27	24.36
26 05 33 13-1444 EA 3-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	204.47 20.49	27.33
26 05 33 13-1445 EA 4" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	247.08 25.69	34.26
26 05 33 13-1446 EA 5" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	616.95 41.88	55.84
26 05 33 13-1447 EA 6" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	870.34 62.97	83.96
26 05 33 13-1448 Aluminum Bushing Set With Locknut <small>(26 05 33 13-1423)</small>		
26 05 33 13-1449 EA 1/2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.72 2.97 2.97	3.96
26 05 33 13-1450 EA 3/4" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.17 3.86 3.86	5.14
26 05 33 13-1451 EA 1" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.37 4.75 4.75	6.34
26 05 33 13-1452 EA 1-1/4" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.41 5.35 5.35	7.13
26 05 33 13-1453 EA 1-1/2" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.54 6.53 6.53	8.71
26 05 33 13-1454 EA 2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.48 7.87 7.87	10.49
26 05 33 13-1455 EA 2-1/2" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.74 9.36 9.36	12.48
26 05 33 13-1456 EA 3" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.42 10.69 10.69	14.26
26 05 33 13-1457 EA 3-1/2" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.63 11.58 11.58	15.44
26 05 33 13-1458 EA 4" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.41 12.47 12.47	16.64

26 Electrical
26 05 Common Work Results for Electrical
26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1459	EA		5" Aluminum Bushing Set With Locknut.....	61.50	22.17
			<i>For Work In Restricted Working Space, Add</i>	16.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.64	
26 05 33 13-1460	EA		6" Aluminum Bushing Set With Locknut.....	91.47	33.26
			<i>For Work In Restricted Working Space, Add</i>	24.95	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.95	
26 05 33 13-1461			Schedule 40 Polyvinyl Chloride (PVC) Conduit <small>(26 05 33 13-0058)</small>		
			Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1462			Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings <small>(26 05 33 13-1461)</small>		
			Note: Includes field bend conduit up to 1".		
26 05 33 13-1463	LF		1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	4.48	1.51
			<i>For Schedule 60, Add</i>	0.36	
			<i>For Schedule 80, Add</i>	0.62	
26 05 33 13-1464	LF		3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	5.08	1.66
			<i>For Schedule 60, Add</i>	0.44	
			<i>For Schedule 80, Add</i>	0.74	
26 05 33 13-1465	LF		1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	6.24	1.94
			<i>For Schedule 60, Add</i>	0.59	
			<i>For Schedule 80, Add</i>	0.97	
26 05 33 13-1466	LF		1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	7.38	2.22
			<i>For Schedule 60, Add</i>	0.74	
			<i>For Schedule 80, Add</i>	1.20	
26 05 33 13-1467	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	8.67	2.58
			<i>For Schedule 60, Add</i>	0.87	
			<i>For Schedule 80, Add</i>	1.42	
26 05 33 13-1468	LF		2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	10.29	2.96
			<i>For Schedule 60, Add</i>	1.09	
			<i>For Schedule 80, Add</i>	1.75	
26 05 33 13-1469	LF		2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	13.41	3.52
			<i>For Schedule 60, Add</i>	1.59	
			<i>For Schedule 80, Add</i>	2.50	
26 05 33 13-1470	LF		3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	15.68	4.07
			<i>For Schedule 60, Add</i>	1.89	
			<i>For Schedule 80, Add</i>	2.95	
26 05 33 13-1471	LF		3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	19.06	4.81
			<i>For Schedule 60, Add</i>	2.36	
			<i>For Schedule 80, Add</i>	3.67	
26 05 33 13-1472	LF		4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	22.54	5.92
			<i>For Schedule 60, Add</i>	2.68	
			<i>For Schedule 80, Add</i>	4.19	
26 05 33 13-1473	LF		5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	32.11	8.33
			<i>For Schedule 60, Add</i>	3.87	
			<i>For Schedule 80, Add</i>	6.04	
26 05 33 13-1474	LF		6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	42.66	11.10
			<i>For Schedule 60, Add</i>	5.12	
			<i>For Schedule 80, Add</i>	8.00	
26 05 33 13-1475			Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows <small>(26 05 33 13-1461)</small>		
			See CSI section 26 05 33 13-2447 for conduit field bending.		
26 05 33 13-1476	EA		1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	20.31	7.39
			See CSI section 26 05 33 13-2447 for conduit field bending.		
			<i>For Schedule 60, Add</i>	1.38	
			<i>For Schedule 80, Add</i>	2.48	
26 05 33 13-1477	EA		3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	22.49	8.14
			See CSI section 26 05 33 13-2447 for conduit field bending.		
			<i>For Schedule 60, Add</i>	1.55	
			<i>For Schedule 80, Add</i>	2.79	
26 05 33 13-1478	EA		1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	26.49	9.25
			See CSI section 26 05 33 13-2447 for conduit field bending.		
			<i>For Schedule 60, Add</i>	2.00	
			<i>For Schedule 80, Add</i>	3.49	
26 05 33 13-1479	EA		1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	34.48	11.83
			See CSI section 26 05 33 13-2447 for conduit field bending.		
			<i>For Schedule 60, Add</i>	2.70	
			<i>For Schedule 80, Add</i>	4.67	
26 05 33 13-1480	EA		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	43.62	14.80
			See CSI section 26 05 33 13-2447 for conduit field bending.		
			<i>For Schedule 60, Add</i>	3.51	
			<i>For Schedule 80, Add</i>	6.02	
26 05 33 13-1481	EA		2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	55.32	18.50
			See CSI section 26 05 33 13-2447 for conduit field bending.		
			<i>For Schedule 60, Add</i>	4.58	
			<i>For Schedule 80, Add</i>	7.80	
26 05 33 13-1482	EA		2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	71.78	22.19
			See CSI section 26 05 33 13-2447 for conduit field bending.		
			<i>For Schedule 60, Add</i>	6.85	
			<i>For Schedule 80, Add</i>	11.25	
26 05 33 13-1483	EA		3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	91.55	25.89
			See CSI section 26 05 33 13-2447 for conduit field bending.		
			<i>For Schedule 60, Add</i>	9.94	
			<i>For Schedule 80, Add</i>	15.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1484 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	116.00	31.44
See CSI section 26 05 33 13-2447 for conduit field bending.		
For Schedule 60, Add	13.28	
For Schedule 80, Add	20.95	
26 05 33 13-1485 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	140.61	36.99
See CSI section 26 05 33 13-2447 for conduit field bending.		
For Schedule 60, Add	16.66	
For Schedule 80, Add	26.10	
26 05 33 13-1486 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	200.01	46.24
See CSI section 26 05 33 13-2447 for conduit field bending.		
For Schedule 60, Add	26.88	
For Schedule 80, Add	41.11	
26 05 33 13-1487 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	246.37	55.49
See CSI section 26 05 33 13-2447 for conduit field bending.		
For Schedule 60, Add	33.85	
For Schedule 80, Add	51.55	
26 05 33 13-1488 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows <small>(26 05 33 13-1461)</small>		
See CSI section 26 05 33 13-2447 for conduit field bending.		
26 05 33 13-1489 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	20.31	7.39
See CSI section 26 05 33 13-2447 for conduit field bending.		
For Schedule 60, Add	1.38	
For Schedule 80, Add	2.48	
26 05 33 13-1490 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	22.35	8.14
See CSI section 26 05 33 13-2447 for conduit field bending.		
For Schedule 60, Add	1.52	
For Schedule 80, Add	2.74	
26 05 33 13-1491 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	26.31	9.25
See CSI section 26 05 33 13-2447 for conduit field bending.		
For Schedule 60, Add	1.96	
For Schedule 80, Add	3.43	
26 05 33 13-1492 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	33.94	11.83
See CSI section 26 05 33 13-2447 for conduit field bending.		
For Schedule 60, Add	2.57	
For Schedule 80, Add	4.48	
26 05 33 13-1493 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	42.40	14.80
See CSI section 26 05 33 13-2447 for conduit field bending.		
For Schedule 60, Add	3.20	
For Schedule 80, Add	5.59	
26 05 33 13-1494 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	54.67	18.50
See CSI section 26 05 33 13-2447 for conduit field bending.		
For Schedule 60, Add	4.42	
For Schedule 80, Add	7.57	
26 05 33 13-1495 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	70.57	22.19
See CSI section 26 05 33 13-2447 for conduit field bending.		
For Schedule 60, Add	6.54	
For Schedule 80, Add	10.83	
26 05 33 13-1496 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	90.02	25.89
See CSI section 26 05 33 13-2447 for conduit field bending.		
For Schedule 60, Add	9.56	
For Schedule 80, Add	15.32	
26 05 33 13-1497 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	111.69	31.44
See CSI section 26 05 33 13-2447 for conduit field bending.		
For Schedule 60, Add	12.20	
For Schedule 80, Add	19.44	
26 05 33 13-1498 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	136.90	36.99
See CSI section 26 05 33 13-2447 for conduit field bending.		
For Schedule 60, Add	15.73	
For Schedule 80, Add	24.80	
26 05 33 13-1499 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	195.21	46.24
See CSI section 26 05 33 13-2447 for conduit field bending.		
For Schedule 60, Add	25.68	
For Schedule 80, Add	39.43	
26 05 33 13-1500 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	232.07	55.49
See CSI section 26 05 33 13-2447 for conduit field bending.		
For Schedule 60, Add	30.28	
For Schedule 80, Add	46.55	
26 05 33 13-1501 Polyvinyl Chloride (PVC) Conduit Female Adapters <small>(26 05 33 13-1461)</small>		
26 05 33 13-1502 EA 1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	13.78	5.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.89	
26 05 33 13-1503 EA 3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	15.92	5.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.44	
26 05 33 13-1504 EA 1" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	18.19	6.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.99	
26 05 33 13-1505 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	20.63	7.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.55	
26 05 33 13-1506 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	25.41	9.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.93	
26 05 33 13-1507 EA 2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	30.98	11.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.32	
26 05 33 13-1508 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	43.09	14.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.10	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1509 EA 3" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	54.59	18.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.87	
26 05 33 13-1510 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	70.73	24.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.03	
26 05 33 13-1511 EA 4" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	85.02	29.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.19	
26 05 33 13-1512 EA 5" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	114.64	36.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.74	
26 05 33 13-1513 EA 6" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	142.31	46.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.68	
26 05 33 13-1514 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug (26 05 33 13-1461)		
26 05 33 13-1515 EA 1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	18.04	4.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.33	
26 05 33 13-1516 EA 3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	20.35	5.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.89	
26 05 33 13-1517 EA 1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	22.71	5.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.44	
26 05 33 13-1518 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	27.51	6.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.99	
26 05 33 13-1519 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	30.67	7.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.55	
26 05 33 13-1520 EA 2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	37.17	8.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.38	
26 05 33 13-1521 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	41.47	9.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.22	
26 05 33 13-1522 EA 3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	46.67	11.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.32	
26 05 33 13-1523 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	55.56	12.95
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.71	
26 05 33 13-1524 EA 4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	60.55	14.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.10	
26 05 33 13-1525 EA 5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	78.40	16.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.48	
26 05 33 13-1526 EA 6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug.....	88.28	18.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.87	
26 05 33 13-1527 Polyvinyl Chloride (PVC) Conduit Terminal Adapters (26 05 33 13-1461)		
26 05 33 13-1528 EA 1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	14.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-1529 EA 3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	18.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.12	
26 05 33 13-1530 EA 1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	20.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.68	
26 05 33 13-1531 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	22.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.33	
26 05 33 13-1532 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	25.11	9.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.93	
26 05 33 13-1533 EA 2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	30.57	11.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.32	
26 05 33 13-1534 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	42.27	14.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.10	
26 05 33 13-1535 EA 3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	53.44	18.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.87	
26 05 33 13-1536 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	69.27	24.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.03	
26 05 33 13-1537 EA 4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	83.52	29.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.19	
26 05 33 13-1538 EA 5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	111.68	36.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.74	
26 05 33 13-1539 EA 6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	138.76	46.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.68	
26 05 33 13-1540 Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover (26 05 33 13-1461)		
26 05 33 13-1541 EA 1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	44.93	14.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.10	
26 05 33 13-1542 EA 3/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	52.83	16.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.48	
26 05 33 13-1543 EA 1" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	58.64	18.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.87	
26 05 33 13-1544 EA 1-1/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	73.21	22.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.65	
26 05 33 13-1545 EA 1-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	90.06	27.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.81	
26 05 33 13-1546 EA 2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	119.94	33.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.97	
26 05 33 13-1547 EA 2-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	231.13	36.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1548 EA 3" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	245.17	40.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.52	
26 05 33 13-1549 EA 3-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover	263.78	46.24
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.68	
26 05 33 13-1550 EA 4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	291.85	53.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.22	
26 05 33 13-1551 Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover <small>(26 05 33 13-1461)</small>		
26 05 33 13-1552 EA 1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	60.06	19.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.85	
26 05 33 13-1553 EA 3/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	67.66	21.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.34	
26 05 33 13-1554 EA 1" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	72.86	23.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.82	
26 05 33 13-1555 EA 1-1/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	93.69	27.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 05 33 13-1556 EA 1-1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	112.91	33.67
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.25	
26 05 33 13-1557 EA 2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	140.93	39.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.70	
26 05 33 13-1558 Polyvinyl Chloride (PVC) Conduit Expansion Joint <small>(26 05 33 13-1461)</small>		
26 05 33 13-1559 EA 1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	114.42	18.50
26 05 33 13-1560 EA 3/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	125.36	22.19
26 05 33 13-1561 EA 1" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	137.32	25.89
26 05 33 13-1562 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	148.26	29.59
26 05 33 13-1563 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	158.77	33.29
26 05 33 13-1564 EA 2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	172.45	36.99
26 05 33 13-1565 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	214.58	42.53
26 05 33 13-1566 EA 3" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	260.72	48.08
26 05 33 13-1567 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	306.19	55.49
26 05 33 13-1568 EA 4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	365.85	64.73
26 05 33 13-1569 EA 5" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	493.15	77.68
26 05 33 13-1570 EA 6" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	651.45	99.87
26 05 33 13-1571 Polyvinyl Chloride (PVC) Conduit End Caps <small>(26 05 33 13-1461)</small>		
26 05 33 13-1572 EA 1/2" Polyvinyl Chloride (PVC) Conduit End Cap	12.81	3.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.78	
26 05 33 13-1573 EA 3/4" Polyvinyl Chloride (PVC) Conduit End Cap	15.05	4.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.33	
26 05 33 13-1574 EA 1" Polyvinyl Chloride (PVC) Conduit End Cap.....	17.21	5.18
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.89	
26 05 33 13-1575 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit End Cap	20.93	5.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.44	
26 05 33 13-1576 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit End Cap	24.70	6.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.99	
26 05 33 13-1577 EA 2" Polyvinyl Chloride (PVC) Conduit End Cap	29.72	7.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.55	
26 05 33 13-1578 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit End Cap	45.23	8.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.38	
26 05 33 13-1579 EA 3" Polyvinyl Chloride (PVC) Conduit End Cap.....	49.13	9.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.22	
26 05 33 13-1580 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit End Cap	64.90	10.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.04	
26 05 33 13-1581 EA 4" Polyvinyl Chloride (PVC) Conduit End Cap.....	80.54	11.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.60	
26 05 33 13-1582 EA 5" Polyvinyl Chloride (PVC) Conduit End Cap.....	93.71	12.95
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.71	
26 05 33 13-1583 EA 6" Polyvinyl Chloride (PVC) Conduit End Cap.....	120.68	14.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.10	
26 05 33 13-1584 Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) <small>(26 05 33 13-1461)</small>		
26 05 33 13-1585 EA 2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways EZLB200).....	118.15	33.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.97	
26 05 33 13-1586 EA 3/4" To 1-1/4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB121)	126.02	22.19
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.65	
26 05 33 13-1587 EA 1-1/2" To 2-1/2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB251).....	308.68	36.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.74	
26 05 33 13-1588 EA 3" To 4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB401)	604.54	53.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.22	
26 05 33 13-1589 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-0058)</small>		
Note: Exposed installation. Excludes supporting strap, hanger and fastening.		

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 33 13-1590		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-1589)</small>			
26 05 33 13-1591	LF	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	9.48	1.51	
26 05 33 13-1592	LF	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	10.58	1.66	
26 05 33 13-1593	LF	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	11.65	1.92	
26 05 33 13-1594	LF	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	12.71	2.22	
26 05 33 13-1595	LF	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	14.21	2.58	
26 05 33 13-1596	LF	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	15.34	2.96	
26 05 33 13-1597	LF	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	18.31	3.52	
26 05 33 13-1598	LF	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	21.60	4.07	
26 05 33 13-1599	LF	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	24.88	4.81	
26 05 33 13-1600	LF	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	29.08	5.92	
26 05 33 13-1601	LF	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	38.65	8.33	
26 05 33 13-1602	LF	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	50.06	11.10	

26 05 33 13-1603		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1589)</small>			
26 05 33 13-1604	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	123.93	7.39	
		<i>For 24" Radius, Add</i>	8.83		
		<i>For 36" Radius, Add</i>	12.39		
		<i>For 48" Radius, Add</i>	15.95		
26 05 33 13-1605	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	138.37	8.14	
		<i>For 24" Radius, Add</i>	9.87		
		<i>For 36" Radius, Add</i>	13.84		
		<i>For 48" Radius, Add</i>	17.80		
26 05 33 13-1606	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	142.34	9.25	
		<i>For 24" Radius, Add</i>	10.10		
		<i>For 36" Radius, Add</i>	14.23		
		<i>For 48" Radius, Add</i>	18.37		
26 05 33 13-1607	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	149.98	11.83	
		<i>For 24" Radius, Add</i>	10.51		
		<i>For 36" Radius, Add</i>	15.00		
		<i>For 48" Radius, Add</i>	19.49		
26 05 33 13-1608	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	158.58	14.80	
		<i>For 24" Radius, Add</i>	10.97		
		<i>For 36" Radius, Add</i>	15.86		
		<i>For 48" Radius, Add</i>	20.75		
26 05 33 13-1609	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	184.60	18.50	
		<i>For 24" Radius, Add</i>	12.69		
		<i>For 36" Radius, Add</i>	18.46		
		<i>For 48" Radius, Add</i>	24.23		
26 05 33 13-1610	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	221.09	22.19	
		<i>For 24" Radius, Add</i>	15.19		
		<i>For 36" Radius, Add</i>	22.11		
		<i>For 48" Radius, Add</i>	29.02		
26 05 33 13-1611	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	263.45	25.89	
		<i>For 24" Radius, Add</i>	18.14		
		<i>For 36" Radius, Add</i>	26.35		
		<i>For 48" Radius, Add</i>	34.55		
26 05 33 13-1612	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	302.16	31.44	
		<i>For 24" Radius, Add</i>	20.70		
		<i>For 36" Radius, Add</i>	30.22		
		<i>For 48" Radius, Add</i>	39.74		
26 05 33 13-1613	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	340.87	36.99	
		<i>For 24" Radius, Add</i>	23.25		
		<i>For 36" Radius, Add</i>	34.09		
		<i>For 48" Radius, Add</i>	44.92		
26 05 33 13-1614	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	426.09	46.24	
		<i>For 24" Radius, Add</i>	29.07		
		<i>For 36" Radius, Add</i>	42.61		
		<i>For 48" Radius, Add</i>	56.15		
26 05 33 13-1615	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	526.83	55.49	
		<i>For 24" Radius, Add</i>	36.04		
		<i>For 36" Radius, Add</i>	52.68		
		<i>For 48" Radius, Add</i>	69.32		

26 05 33 13-1616		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1589)</small>			
26 05 33 13-1617	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	104.95	7.39	
		<i>For 24" Radius, Add</i>	7.41		
		<i>For 36" Radius, Add</i>	10.50		
		<i>For 48" Radius, Add</i>	13.58		
26 05 33 13-1618	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows	117.13	8.14	
		<i>For 24" Radius, Add</i>	8.28		
		<i>For 36" Radius, Add</i>	11.71		
		<i>For 48" Radius, Add</i>	15.15		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1619 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	120.88	9.25
<i>For 24" Radius, Add</i>	8.49	
<i>For 36" Radius, Add</i>	12.09	
<i>For 48" Radius, Add</i>	15.69	
26 05 33 13-1620 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	128.31	11.83
<i>For 24" Radius, Add</i>	8.88	
<i>For 36" Radius, Add</i>	12.83	
<i>For 48" Radius, Add</i>	16.78	
26 05 33 13-1621 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	136.69	14.80
<i>For 24" Radius, Add</i>	9.33	
<i>For 36" Radius, Add</i>	13.67	
<i>For 48" Radius, Add</i>	18.01	
26 05 33 13-1622 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	159.69	18.50
<i>For 24" Radius, Add</i>	10.82	
<i>For 36" Radius, Add</i>	15.97	
<i>For 48" Radius, Add</i>	21.12	
26 05 33 13-1623 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	191.28	22.19
<i>For 24" Radius, Add</i>	12.96	
<i>For 36" Radius, Add</i>	19.13	
<i>For 48" Radius, Add</i>	25.30	
26 05 33 13-1624 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	227.68	25.89
<i>For 24" Radius, Add</i>	15.46	
<i>For 36" Radius, Add</i>	22.77	
<i>For 48" Radius, Add</i>	30.08	
26 05 33 13-1625 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	261.92	31.44
<i>For 24" Radius, Add</i>	17.68	
<i>For 36" Radius, Add</i>	26.19	
<i>For 48" Radius, Add</i>	34.71	
26 05 33 13-1626 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	296.16	36.99
<i>For 24" Radius, Add</i>	19.90	
<i>For 36" Radius, Add</i>	29.62	
<i>For 48" Radius, Add</i>	39.33	
26 05 33 13-1627 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	370.20	46.24
<i>For 24" Radius, Add</i>	24.88	
<i>For 36" Radius, Add</i>	37.02	
<i>For 48" Radius, Add</i>	49.16	
26 05 33 13-1628 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	456.97	55.49
<i>For 24" Radius, Add</i>	30.81	
<i>For 36" Radius, Add</i>	45.70	
<i>For 48" Radius, Add</i>	60.59	
26 05 33 13-1629 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbows, 12" Large Radius Elbows		
<small>(26 05 33 13-1589)</small>		
26 05 33 13-1630 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	97.82	6.66
<i>For 24" Radius, Add</i>	6.92	
<i>For 36" Radius, Add</i>	9.78	
<i>For 48" Radius, Add</i>	12.64	
26 05 33 13-1631 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	109.19	7.32
<i>For 24" Radius, Add</i>	7.73	
<i>For 36" Radius, Add</i>	10.92	
<i>For 48" Radius, Add</i>	14.11	
26 05 33 13-1632 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	112.62	8.33
<i>For 24" Radius, Add</i>	7.93	
<i>For 36" Radius, Add</i>	11.26	
<i>For 48" Radius, Add</i>	14.60	
26 05 33 13-1633 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	119.33	10.65
<i>For 24" Radius, Add</i>	8.28	
<i>For 36" Radius, Add</i>	11.93	
<i>For 48" Radius, Add</i>	15.58	
26 05 33 13-1634 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	126.91	13.32
<i>For 24" Radius, Add</i>	8.69	
<i>For 36" Radius, Add</i>	12.69	
<i>For 48" Radius, Add</i>	16.70	
26 05 33 13-1635 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	148.14	16.64
<i>For 24" Radius, Add</i>	10.07	
<i>For 36" Radius, Add</i>	14.81	
<i>For 48" Radius, Add</i>	19.56	
26 05 33 13-1636 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	177.45	19.98
<i>For 24" Radius, Add</i>	12.06	
<i>For 36" Radius, Add</i>	17.75	
<i>For 48" Radius, Add</i>	23.43	
26 05 33 13-1637 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	211.26	23.31
<i>For 24" Radius, Add</i>	14.39	
<i>For 36" Radius, Add</i>	21.13	
<i>For 48" Radius, Add</i>	27.86	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1638	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	242.88	28.29
			<i>For 24" Radius, Add</i>	16.45	
			<i>For 36" Radius, Add</i>	24.29	
			<i>For 48" Radius, Add</i>	32.13	
26 05 33 13-1639	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	274.49	33.29
			<i>For 24" Radius, Add</i>	18.51	
			<i>For 36" Radius, Add</i>	27.45	
			<i>For 48" Radius, Add</i>	36.39	
26 05 33 13-1640	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	343.12	41.61
			<i>For 24" Radius, Add</i>	23.13	
			<i>For 36" Radius, Add</i>	34.31	
			<i>For 48" Radius, Add</i>	45.49	
26 05 33 13-1641	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	423.69	49.94
			<i>For 24" Radius, Add</i>	28.66	
			<i>For 36" Radius, Add</i>	42.37	
			<i>For 48" Radius, Add</i>	56.08	
26 05 33 13-1642 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1589)</small>					
26 05 33 13-1643	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	92.55	6.66
			<i>For 24" Radius, Add</i>	6.53	
			<i>For 36" Radius, Add</i>	9.26	
			<i>For 48" Radius, Add</i>	11.98	
26 05 33 13-1644	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	103.29	7.32
			<i>For 24" Radius, Add</i>	7.29	
			<i>For 36" Radius, Add</i>	10.33	
			<i>For 48" Radius, Add</i>	13.37	
26 05 33 13-1645	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	106.66	8.33
			<i>For 24" Radius, Add</i>	7.48	
			<i>For 36" Radius, Add</i>	10.67	
			<i>For 48" Radius, Add</i>	13.85	
26 05 33 13-1646	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	113.31	10.65
			<i>For 24" Radius, Add</i>	7.83	
			<i>For 36" Radius, Add</i>	11.33	
			<i>For 48" Radius, Add</i>	14.83	
26 05 33 13-1647	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	120.83	13.32
			<i>For 24" Radius, Add</i>	8.23	
			<i>For 36" Radius, Add</i>	12.08	
			<i>For 48" Radius, Add</i>	15.94	
26 05 33 13-1648	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	141.23	16.64
			<i>For 24" Radius, Add</i>	9.55	
			<i>For 36" Radius, Add</i>	14.12	
			<i>For 48" Radius, Add</i>	18.69	
26 05 33 13-1649	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	169.17	19.98
			<i>For 24" Radius, Add</i>	11.44	
			<i>For 36" Radius, Add</i>	16.92	
			<i>For 48" Radius, Add</i>	22.39	
26 05 33 13-1650	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	201.33	23.31
			<i>For 24" Radius, Add</i>	13.64	
			<i>For 36" Radius, Add</i>	20.13	
			<i>For 48" Radius, Add</i>	26.62	
26 05 33 13-1651	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	231.70	28.29
			<i>For 24" Radius, Add</i>	15.61	
			<i>For 36" Radius, Add</i>	23.17	
			<i>For 48" Radius, Add</i>	30.73	
26 05 33 13-1652	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	262.07	33.29
			<i>For 24" Radius, Add</i>	17.57	
			<i>For 36" Radius, Add</i>	26.21	
			<i>For 48" Radius, Add</i>	34.84	
26 05 33 13-1653	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	327.59	41.61
			<i>For 24" Radius, Add</i>	21.97	
			<i>For 36" Radius, Add</i>	32.76	
			<i>For 48" Radius, Add</i>	43.55	
26 05 33 13-1654	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	404.28	49.94
			<i>For 24" Radius, Add</i>	27.20	
			<i>For 36" Radius, Add</i>	40.43	
			<i>For 48" Radius, Add</i>	53.66	
26 05 33 13-1655 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings <small>(26 05 33 13-1589)</small>					



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1656 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	56.60	5.18
26 05 33 13-1657 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	63.44	5.92
26 05 33 13-1658 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	65.78	6.66
26 05 33 13-1659 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	68.05	7.39
26 05 33 13-1660 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	73.66	9.25
26 05 33 13-1661 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	87.93	11.10
26 05 33 13-1662 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	109.44	14.80
26 05 33 13-1663 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	133.18	18.50
26 05 33 13-1664 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	157.92	24.05
26 05 33 13-1665 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	182.65	29.59
26 05 33 13-1666 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	228.31	36.99
26 05 33 13-1667 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	285.33	46.24
26 05 33 13-1668 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings <small>(26 05 33 13-1589)</small>		
26 05 33 13-1669 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	37.58	5.18
26 05 33 13-1670 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	42.16	5.92
26 05 33 13-1671 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	44.30	6.66
26 05 33 13-1672 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	46.45	7.39
26 05 33 13-1673 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	51.34	9.25
26 05 33 13-1674 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	56.14	11.10
26 05 33 13-1675 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	71.06	14.80
26 05 33 13-1676 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	87.15	18.50
26 05 33 13-1677 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	106.13	24.05
26 05 33 13-1678 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	125.10	29.59
26 05 33 13-1679 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	156.43	36.99
26 05 33 13-1680 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	195.49	46.24
26 05 33 13-1681 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings <small>(26 05 33 13-1589)</small>		
26 05 33 13-1682 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	43.57	4.26
26 05 33 13-1683 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	48.83	5.92
26 05 33 13-1684 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	51.04	6.66
26 05 33 13-1685 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	53.11	7.39
26 05 33 13-1686 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	58.51	9.25
26 05 33 13-1687 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	69.89	11.10
26 05 33 13-1688 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	87.54	14.80
26 05 33 13-1689 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	106.89	18.50
26 05 33 13-1690 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	128.34	24.05
26 05 33 13-1691 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	149.77	29.59
26 05 33 13-1692 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	187.19	36.99
26 05 33 13-1693 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	234.03	46.24
26 05 33 13-1694 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints <small>(26 05 33 13-1589)</small>		
26 05 33 13-1695 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	79.98	18.50
26 05 33 13-1696 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	92.92	22.19
26 05 33 13-1697 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	102.57	25.89
26 05 33 13-1698 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	112.06	29.59
26 05 33 13-1699 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	122.18	33.29
26 05 33 13-1700 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	138.84	36.99
26 05 33 13-1701 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	161.99	42.53
26 05 33 13-1702 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	186.99	48.08
26 05 33 13-1703 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	213.83	55.49
26 05 33 13-1704 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	245.28	64.73
26 05 33 13-1705 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	289.28	73.97
26 05 33 13-1706 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	338.47	83.22
26 05 33 13-1707 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints <small>(26 05 33 13-1589)</small>		
26 05 33 13-1708 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	93.68	18.50
26 05 33 13-1709 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	108.27	22.19
26 05 33 13-1710 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	118.01	25.89
26 05 33 13-1711 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	127.67	29.59
26 05 33 13-1712 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	137.91	33.29
26 05 33 13-1713 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	156.81	36.99
26 05 33 13-1714 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	183.56	42.53
26 05 33 13-1715 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	212.86	48.08
26 05 33 13-1716 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	242.96	55.49
26 05 33 13-1717 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	277.66	64.73
26 05 33 13-1718 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	329.85	73.97
26 05 33 13-1719 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	389.19	83.22
26 05 33 13-1720 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters <small>(26 05 33 13-1589)</small>		

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1721 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	125.76	5.18
26 05 33 13-1722 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	140.12	5.92
26 05 33 13-1723 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	145.81	6.66
26 05 33 13-1724 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	151.68	7.39
26 05 33 13-1725 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	158.36	9.25
26 05 33 13-1726 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	175.87	11.10
26 05 33 13-1727 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	214.76	14.80
26 05 33 13-1728 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	259.45	18.50
26 05 33 13-1729 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	299.98	24.05
26 05 33 13-1730 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	340.50	29.59
26 05 33 13-1731 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	425.74	36.99
26 05 33 13-1732 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	529.59	46.24

26 05 33 13-1733 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints (26 05 33 13-1589)

26 05 33 13-1734 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	117.51	18.50
26 05 33 13-1735 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	134.69	22.19
26 05 33 13-1736 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	162.57	25.89
26 05 33 13-1737 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	205.88	29.59
26 05 33 13-1738 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	264.05	33.29
26 05 33 13-1739 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	360.46	36.99
26 05 33 13-1740 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	528.05	42.53
26 05 33 13-1741 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	643.12	48.08
26 05 33 13-1742 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	781.81	55.49
26 05 33 13-1743 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	925.10	64.73
26 05 33 13-1744 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	1,091.61	73.97
26 05 33 13-1745 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	1,747.28	83.22

26 05 33 13-1746 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover (26 05 33 13-1589)

26 05 33 13-1747 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	100.08	14.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.10	
26 05 33 13-1748 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	116.84	16.64
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.48	
26 05 33 13-1749 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	160.94	18.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.87	
26 05 33 13-1750 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	197.18	22.19
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.65	
26 05 33 13-1751 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	251.53	27.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.81	
26 05 33 13-1752 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	353.11	33.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.97	
26 05 33 13-1753 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	603.14	38.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.13	
26 05 33 13-1754 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	785.70	44.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.29	
26 05 33 13-1755 EA 3-1/2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover	947.57	51.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.84	
26 05 33 13-1756 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	1,109.45	59.18
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.39	
26 05 33 13-1757 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	1,313.48	66.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.94	
26 05 33 13-1758 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	1,492.23	73.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.49	

26 05 33 13-1759 Explosion Proof Conduit Fittings (26 05 33 13-0058)

Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT) and Intermediate Metal Conduit (IMC) conduit.

26 05 33 13-1760 Explosion Proof Malleable Iron Conduit Unions (26 05 33 13-1759)

26 05 33 13-1761 EA 1/2" Explosion Proof Malleable Iron Conduit Union	42.16	8.26
26 05 33 13-1762 EA 3/4" Explosion Proof Malleable Iron Conduit Union	52.42	9.12
26 05 33 13-1763 EA 1" Explosion Proof Malleable Iron Conduit Union	84.18	12.16
26 05 33 13-1764 EA 1-1/4" Explosion Proof Malleable Iron Conduit Union	112.57	13.47
26 05 33 13-1765 EA 1-1/2" Explosion Proof Malleable Iron Conduit Union	141.85	16.50
26 05 33 13-1766 EA 2" Explosion Proof Malleable Iron Conduit Union	177.34	19.11
26 05 33 13-1767 EA 2-1/2" Explosion Proof Malleable Iron Conduit Union	270.64	27.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1768 EA 3" Explosion Proof Malleable Iron Conduit Union	344.93	32.51
26 05 33 13-1769 EA 3-1/2" Explosion Proof Malleable Iron Conduit Union	585.98	39.02
26 05 33 13-1770 EA 4" Explosion Proof Malleable Iron Conduit Union	617.84	49.85
26 05 33 13-1771 Explosion Proof Malleable Iron Conduit Bodies <small>(26 05 33 13-1759)</small>		
26 05 33 13-1772 EA 1/2" Explosion Proof Malleable Iron Two Hub Conduit Body	150.66	26.06
26 05 33 13-1773 EA 3/4" Explosion Proof Malleable Iron Two Hub Conduit Body	169.75	29.53
26 05 33 13-1774 EA 1" Explosion Proof Malleable Iron Two Hub Conduit Body	199.69	32.57
26 05 33 13-1775 EA 1/2" Explosion Proof Malleable Iron Three Hub Conduit Body	168.57	32.57
26 05 33 13-1776 EA 3/4" Explosion Proof Malleable Iron Three Hub Conduit Body	200.70	39.09
26 05 33 13-1777 EA 1" Explosion Proof Malleable Iron Three Hub Conduit Body	238.21	44.73
26 05 33 13-1778 Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <small>(26 05 33 13-1759)</small>		
<small>Note: Includes sealing gasket and lock nut.</small>		
26 05 33 13-1779 EA 1/2" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	124.53	21.71
<small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>		
	16.28	
26 05 33 13-1780 EA 3/4" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	126.29	24.32
<small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>		
	18.24	
26 05 33 13-1781 EA 1" x 1-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	137.87	26.49
<small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>		
	19.87	
26 05 33 13-1782 EA 1-1/4" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	177.89	32.57
<small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>		
	24.43	
26 05 33 13-1783 EA 1-1/2" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	228.63	38.21
<small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>		
	28.66	
26 05 33 13-1784 EA 2" x 2-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	296.45	43.43
<small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>		
	32.57	
26 05 33 13-1785 EA 2-1/2" x 3" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	420.57	65.02
<small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>		
	48.77	
26 05 33 13-1786 EA 3" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	531.88	81.50
<small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>		
	61.12	
26 05 33 13-1787 EA 3-1/2" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	762.85	89.73
<small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>		
	67.30	
26 05 33 13-1788 EA 4" x 5" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	992.73	97.54
<small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>		
	73.15	
26 05 33 13-1789 Explosion Proof Flexible Conduit Couplings <small>(26 05 33 13-1759)</small>		
26 05 33 13-1790 EA 1/2" x 12" Explosion Proof Flexible Conduit Coupling	356.01	9.99
26 05 33 13-1791 EA 3/4" x 15" Explosion Proof Flexible Conduit Coupling	466.62	11.29
26 05 33 13-1792 Flexible Conduit <small>(26 05 33 13-0057)</small>		
26 05 33 13-1793 Flexible Liquid Tight Metallic Conduit And Connectors <small>(26 05 33 13-1792)</small>		
<small>Note: Steel inner core with PVC cover.</small>		
26 05 33 13-1794 Flexible Liquid Tight Metallic Conduit <small>(26 05 33 13-1793)</small>		
26 05 33 13-1795 LF 3/8" Flexible Liquid Tight Metallic Conduit	3.87	1.18
<small>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</small>		
	0.45	
<small>For Work In Restricted Working Space, Add</small>		
	0.89	
26 05 33 13-1796 LF 1/2" Flexible Liquid Tight Metallic Conduit	4.00	1.18
<small>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</small>		
	0.45	
<small>For Work In Restricted Working Space, Add</small>		
	0.89	
26 05 33 13-1797 LF 3/4" Flexible Liquid Tight Metallic Conduit	5.36	1.58
<small>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</small>		
	0.59	
<small>For Work In Restricted Working Space, Add</small>		
	1.19	
26 05 33 13-1798 LF 1" Flexible Liquid Tight Metallic Conduit	6.08	1.58
<small>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</small>		
	0.59	
<small>For Work In Restricted Working Space, Add</small>		
	1.19	
26 05 33 13-1799 LF 1-1/4" Flexible Liquid Tight Metallic Conduit	7.83	1.98
<small>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</small>		
	0.74	
<small>For Work In Restricted Working Space, Add</small>		
	1.49	
26 05 33 13-1800 LF 1-1/2" Flexible Liquid Tight Metallic Conduit	9.99	2.38
<small>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</small>		
	0.89	
<small>For Work In Restricted Working Space, Add</small>		
	1.78	
26 05 33 13-1801 LF 2" Flexible Liquid Tight Metallic Conduit	13.16	3.17
<small>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</small>		
	1.19	
<small>For Work In Restricted Working Space, Add</small>		
	2.38	
26 05 33 13-1802 LF 2-1/2" Flexible Liquid Tight Metallic Conduit	17.57	3.56
<small>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</small>		
	1.34	
<small>For Work In Restricted Working Space, Add</small>		
	2.68	
26 05 33 13-1803 LF 3" Flexible Liquid Tight Metallic Conduit	25.44	4.35
<small>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</small>		
	1.63	
<small>For Work In Restricted Working Space, Add</small>		
	3.27	
26 05 33 13-1804 LF 4" Flexible Liquid Tight Metallic Conduit	34.63	5.55
<small>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</small>		
	2.08	
<small>For Work In Restricted Working Space, Add</small>		
	4.16	
26 05 33 13-1805 Straight Liquid Tight Connector <small>(26 05 33 13-1793)</small>		

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1806	EA		3/8" Straight Liquid Tight Connector	10.49	3.17
			<i>For Work In Restricted Working Space, Add</i>	2.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.38	
26 05 33 13-1807	EA		1/2" Straight Liquid Tight Connector	10.49	3.17
			<i>For Work In Restricted Working Space, Add</i>	2.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.38	
26 05 33 13-1808	EA		3/4" Straight Liquid Tight Connector	12.60	3.56
			<i>For Work In Restricted Working Space, Add</i>	2.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.68	
26 05 33 13-1809	EA		1" Straight Liquid Tight Connector	16.46	3.96
			<i>For Work In Restricted Working Space, Add</i>	2.97	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.97	
26 05 33 13-1810	EA		1-1/4" Straight Liquid Tight Connector	20.81	4.35
			<i>For Work In Restricted Working Space, Add</i>	3.27	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.27	
26 05 33 13-1811	EA		1-1/2" Straight Liquid Tight Connector	26.04	4.75
			<i>For Work In Restricted Working Space, Add</i>	3.56	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.56	
26 05 33 13-1812	EA		2" Straight Liquid Tight Connector	35.43	5.55
			<i>For Work In Restricted Working Space, Add</i>	4.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.16	
26 05 33 13-1813	EA		2-1/2" Straight Liquid Tight Connector	115.73	7.13
			<i>For Work In Restricted Working Space, Add</i>	5.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.35	
26 05 33 13-1814	EA		3" Straight Liquid Tight Connector	148.47	7.52
			<i>For Work In Restricted Working Space, Add</i>	5.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.64	
26 05 33 13-1815	EA		4" Straight Liquid Tight Connector	182.57	11.09
			<i>For Work In Restricted Working Space, Add</i>	8.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.32	
26 05 33 13-1816 90 Degree Angle Liquid Tight Connector (26 05 33 13-1793)					
26 05 33 13-1817	EA		3/8" 90 Degree Angle Liquid Tight Connector	15.18	4.35
			<i>For Work In Restricted Working Space, Add</i>	3.27	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.27	
26 05 33 13-1818	EA		1/2" 90 Degree Angle Liquid Tight Connector	15.73	4.35
			<i>For Work In Restricted Working Space, Add</i>	3.27	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.27	
26 05 33 13-1819	EA		3/4" 90 Degree Angle Liquid Tight Connector	17.70	4.75
			<i>For Work In Restricted Working Space, Add</i>	3.56	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.56	
26 05 33 13-1820	EA		1" 90 Degree Angle Liquid Tight Connector	24.44	5.55
			<i>For Work In Restricted Working Space, Add</i>	4.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.16	
26 05 33 13-1821	EA		1-1/4" 90 Degree Angle Liquid Tight Connector	30.33	5.94
			<i>For Work In Restricted Working Space, Add</i>	4.46	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	
26 05 33 13-1822	EA		1-1/2" 90 Degree Angle Liquid Tight Connector	36.40	6.34
			<i>For Work In Restricted Working Space, Add</i>	4.75	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.75	
26 05 33 13-1823	EA		2" 90 Degree Angle Liquid Tight Connector	47.59	7.13
			<i>For Work In Restricted Working Space, Add</i>	5.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.35	
26 05 33 13-1824	EA		2-1/2" 90 Degree Angle Liquid Tight Connector	160.59	7.52
			<i>For Work In Restricted Working Space, Add</i>	5.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.64	
26 05 33 13-1825	EA		3" 90 Degree Angle Liquid Tight Connector	189.68	8.71
			<i>For Work In Restricted Working Space, Add</i>	6.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.53	
26 05 33 13-1826	EA		4" 90 Degree Angle Liquid Tight Connector	263.20	13.86
			<i>For Work In Restricted Working Space, Add</i>	10.40	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.40	
26 05 33 13-1827 45 Degree Angle Connector (26 05 33 13-1793)					
26 05 33 13-1828	EA		3/8" 45 Degree Angle Liquid Tight Connector	14.99	4.35
			<i>For Work In Restricted Working Space, Add</i>	3.27	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.27	
26 05 33 13-1829	EA		1/2" 45 Degree Angle Liquid Tight Connector	15.12	4.35
			<i>For Work In Restricted Working Space, Add</i>	3.27	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.27	
26 05 33 13-1830	EA		3/4" 45 Degree Angle Liquid Tight Connector	17.70	4.75
			<i>For Work In Restricted Working Space, Add</i>	3.56	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.56	
26 05 33 13-1831	EA		1" 45 Degree Angle Liquid Tight Connector	25.95	5.55
			<i>For Work In Restricted Working Space, Add</i>	4.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.16	
26 05 33 13-1832	EA		1-1/4" 45 Degree Angle Liquid Tight Connector	29.35	5.94
			<i>For Work In Restricted Working Space, Add</i>	4.46	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	
26 05 33 13-1833	EA		1-1/2" 45 Degree Angle Liquid Tight Connector	32.75	6.34
			<i>For Work In Restricted Working Space, Add</i>	4.75	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1834 Flexible Metallic Conduit And Connectors <small>(26 05 33 13-1792)</small>		
26 05 33 13-1835 Flexible Steel Conduit <small>(26 05 33 13-1834)</small>		
26 05 33 13-1836 LF 3/8" Flexible Metallic Conduit.....	4.04	1.30
For Flexible Aluminum Conduit, Add	0.14	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.48	
For Installation In Metal Stud Wall, Add	0.32	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.80	
For Work In Restricted Working Space, Add	0.95	
26 05 33 13-1837 LF 1/2" Flexible Metallic Conduit.....	4.20	1.30
For Flexible Aluminum Conduit, Add	0.16	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.49	
For Installation In Metal Stud Wall, Add	0.33	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.81	
For Work In Restricted Working Space, Add	0.98	
26 05 33 13-1838 LF 3/4" Flexible Metallic Conduit.....	4.81	1.73
For Flexible Aluminum Conduit, Add	0.21	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.53	
For Installation In Metal Stud Wall, Add	0.35	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.88	
For Work In Restricted Working Space, Add	1.06	
26 05 33 13-1839 LF 1" Flexible Metallic Conduit.....	6.20	1.73
For Flexible Aluminum Conduit, Add	0.40	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.57	
For Installation In Metal Stud Wall, Add	0.38	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.95	
For Work In Restricted Working Space, Add	1.14	
26 05 33 13-1840 LF 1-1/4" Flexible Metallic Conduit	7.16	2.17
For Flexible Aluminum Conduit, Add	0.52	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.60	
For Installation In Metal Stud Wall, Add	0.40	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.00	
For Work In Restricted Working Space, Add	1.20	
26 05 33 13-1841 LF 1-1/2" Flexible Metallic Conduit	9.69	2.60
For Flexible Aluminum Conduit, Add	0.91	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.63	
For Installation In Metal Stud Wall, Add	0.42	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.04	
For Work In Restricted Working Space, Add	1.25	
26 05 33 13-1842 LF 2" Flexible Metallic Conduit.....	11.10	3.47
For Flexible Aluminum Conduit, Add	1.12	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.65	
For Installation In Metal Stud Wall, Add	0.43	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.08	
For Work In Restricted Working Space, Add	1.30	
26 05 33 13-1843 LF 2-1/2" Flexible Steel Conduit	13.61	3.90
For Flexible Aluminum Conduit, Add	1.35	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.81	
For Installation In Metal Stud Wall, Add	0.54	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.36	
For Work In Restricted Working Space, Add	1.63	
26 05 33 13-1844 LF 3" Flexible Metallic Conduit.....	20.74	4.77
For Flexible Aluminum Conduit, Add	2.35	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.98	
For Installation In Metal Stud Wall, Add	0.65	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.63	
For Work In Restricted Working Space, Add	1.95	
26 05 33 13-1845 LF 3-1/2" Flexible Metallic Conduit	25.53	5.20
For Flexible Aluminum Conduit, Add	2.96	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.14	
For Installation In Metal Stud Wall, Add	0.76	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.90	
For Work In Restricted Working Space, Add	2.28	
26 05 33 13-1846 LF 4" Flexible Metallic Conduit.....	29.36	6.07
For Flexible Aluminum Conduit, Add	3.41	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.30	
For Installation In Metal Stud Wall, Add	0.87	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.17	
For Work In Restricted Working Space, Add	2.60	
26 05 33 13-1847 Plain Squeeze Type Straight Connector <small>(26 05 33 13-1834)</small>		
26 05 33 13-1848 EA 3/8" Flexible Straight Connectors, Plain.....	7.05	3.47
For Work In Restricted Working Space, Add	1.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.46	
26 05 33 13-1849 EA 1/2" Flexible Straight Connectors, Plain.....	8.88	3.90
For Work In Restricted Working Space, Add	1.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.63	
26 05 33 13-1850 EA 3/4" Flexible Straight Connectors, Plain.....	10.16	4.77
For Work In Restricted Working Space, Add	1.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.95	
26 05 33 13-1851 EA 1" Flexible Straight Connectors, Plain.....	16.68	5.20
For Work In Restricted Working Space, Add	2.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.60	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1852	EA		1-1/4" Flexible Straight Connectors, Plain.....	23.96	6.07
			<i>For Work In Restricted Working Space, Add</i>	3.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.25	
26 05 33 13-1853	EA		1-1/2" Flexible Straight Connectors, Plain.....	31.75	7.37
			<i>For Work In Restricted Working Space, Add</i>	4.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.06	
26 05 33 13-1854	EA		2" Flexible Straight Connectors, Plain.....	42.16	7.37
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33 13-1855	EA		2-1/2" Flexible Straight Connectors, Plain.....	69.86	9.10
			<i>For Work In Restricted Working Space, Add</i>	5.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.69	
26 05 33 13-1856	EA		3" Flexible Straight Connectors, Plain.....	92.22	9.97
			<i>For Work In Restricted Working Space, Add</i>	6.50	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.50	
26 05 33 13-1857	EA		3-1/2" Flexible Straight Connectors, Plain.....	297.22	11.71
			<i>For Work In Restricted Working Space, Add</i>	7.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.31	
26 05 33 13-1858	EA		4" Flexible Straight Connectors, Plain.....	372.27	14.31
			<i>For Work In Restricted Working Space, Add</i>	8.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.13	
26 05 33 13-1859 Insulated Throat Squeeze Type Straight Connector (26 05 33 13-1834)					
26 05 33 13-1860	EA		1/2" Flexible Straight Connectors, Insulated.....	10.08	3.90
			<i>For Work In Restricted Working Space, Add</i>	1.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.63	
26 05 33 13-1861	EA		3/4" Flexible Straight Connectors, Insulated.....	11.73	4.77
			<i>For Work In Restricted Working Space, Add</i>	1.95	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.95	
26 05 33 13-1862	EA		1" Flexible Straight Connectors, Insulated.....	18.81	5.20
			<i>For Work In Restricted Working Space, Add</i>	2.60	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.60	
26 05 33 13-1863	EA		1-1/4" Flexible Straight Connectors, Insulated.....	27.87	6.07
			<i>For Work In Restricted Working Space, Add</i>	3.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.25	
26 05 33 13-1864	EA		1-1/2" Flexible Straight Connectors, Insulated.....	38.72	6.51
			<i>For Work In Restricted Working Space, Add</i>	4.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.06	
26 05 33 13-1865	EA		2" Flexible Straight Connectors, Insulated.....	54.46	7.37
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33 13-1866	EA		2-1/2" Flexible Straight Connectors, Insulated.....	96.17	9.10
			<i>For Work In Restricted Working Space, Add</i>	5.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.69	
26 05 33 13-1867	EA		3" Flexible Straight Connectors, Insulated.....	123.24	9.97
			<i>For Work In Restricted Working Space, Add</i>	6.50	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.50	
26 05 33 13-1868	EA		3-1/2" Flexible Straight Connectors, Insulated.....	345.03	11.71
			<i>For Work In Restricted Working Space, Add</i>	7.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.31	
26 05 33 13-1869	EA		4" Flexible Straight Connectors, Insulated.....	444.15	14.31
			<i>For Work In Restricted Working Space, Add</i>	8.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.13	
26 05 33 13-1870 Plain Squeeze Type 90 Degree Connector (26 05 33 13-1834)					
26 05 33 13-1871	EA		3/8" Flexible 90 Degree Connector, Plain.....	10.01	4.33
			<i>For Work In Restricted Working Space, Add</i>	1.95	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.95	
26 05 33 13-1872	EA		1/2" Flexible 90 Degree Connector, Plain.....	13.44	4.77
			<i>For Work In Restricted Working Space, Add</i>	2.28	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.28	
26 05 33 13-1873	EA		3/4" Flexible 90 Degree Connector, Plain.....	17.83	5.20
			<i>For Work In Restricted Working Space, Add</i>	2.60	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.60	
26 05 33 13-1874	EA		1" Flexible 90 Degree Connector, Plain.....	25.30	6.07
			<i>For Work In Restricted Working Space, Add</i>	3.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.25	
26 05 33 13-1875	EA		1-1/4" Flexible 90 Degree Connector, Plain.....	40.45	6.51
			<i>For Work In Restricted Working Space, Add</i>	3.90	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.90	
26 05 33 13-1876	EA		1-1/2" Flexible 90 Degree Connector, Plain.....	64.24	7.59
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33 13-1877	EA		2" Flexible 90 Degree Connector, Plain.....	77.77	9.32
			<i>For Work In Restricted Working Space, Add</i>	5.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.53	
26 05 33 13-1878	EA		2-1/2" Flexible 90 Degree Connector, Plain.....	176.33	9.97
			<i>For Work In Restricted Working Space, Add</i>	6.50	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.50	
26 05 33 13-1879	EA		3" Flexible 90 Degree Connector, Plain.....	227.42	11.71
			<i>For Work In Restricted Working Space, Add</i>	7.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1880 EA 3-1/2" Flexible 90 Degree Connector, Plain.....	488.85	14.31
For Work In Restricted Working Space, Add	8.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 33 13-1881 EA 4" Flexible 90 Degree Connector, Plain.....	877.45	16.26
For Work In Restricted Working Space, Add	9.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.75	
26 05 33 13-1882 Insulated Throat Squeeze Type 90 Degree Connector (26 05 33 13-1834)		
26 05 33 13-1883 EA 1/2" Flexible 90 Degree Connector, Insulated	15.10	4.77
For Work In Restricted Working Space, Add	2.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.28	
26 05 33 13-1884 EA 3/4" Flexible 90 Degree Connector, Insulated	19.87	5.20
For Work In Restricted Working Space, Add	2.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.60	
26 05 33 13-1885 EA 1" Flexible 90 Degree Connector, Insulated	25.30	6.07
For Work In Restricted Working Space, Add	3.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.25	
26 05 33 13-1886 EA 1-1/4" Flexible 90 Degree Connector, Insulated	47.71	6.51
For Work In Restricted Working Space, Add	3.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.90	
26 05 33 13-1887 EA 1-1/2" Flexible 90 Degree Connector, Insulated	77.42	7.59
For Work In Restricted Working Space, Add	4.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-1888 EA 2" Flexible 90 Degree Connector, Insulated	99.19	9.32
For Work In Restricted Working Space, Add	5.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.53	
26 05 33 13-1889 EA 2-1/2" Flexible 90 Degree Connector, Insulated	243.32	9.97
For Work In Restricted Working Space, Add	6.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 05 33 13-1890 EA 3" Flexible 90 Degree Connector, Insulated	300.00	11.71
For Work In Restricted Working Space, Add	7.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.31	
26 05 33 13-1891 EA 3-1/2" Flexible 90 Degree Connector, Insulated	817.77	14.31
For Work In Restricted Working Space, Add	8.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 33 13-1892 EA 4" Flexible 90 Degree Connector, Insulated	1,221.96	16.26
For Work In Restricted Working Space, Add	9.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.75	
26 05 33 13-1893 Plain Squeeze Type 45 Degree Connector (26 05 33 13-1834)		
26 05 33 13-1894 EA 3/8" Flexible 45 Degree Connector, Plain.....	11.34	4.33
For Work In Restricted Working Space, Add	1.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.95	
26 05 33 13-1895 EA 1/2" Flexible 45 Degree Connector, Plain.....	15.58	4.77
For Work In Restricted Working Space, Add	2.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.28	
26 05 33 13-1896 EA 3/4" Flexible 45 Degree Connector, Plain.....	20.22	5.20
For Work In Restricted Working Space, Add	2.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.60	
26 05 33 13-1897 Insulated Squeeze Type 45 Degree Connector (26 05 33 13-1834)		
26 05 33 13-1898 EA 3/8" Flexible 45 Degree Connector, Insulated	12.26	5.20
For Work In Restricted Working Space, Add	1.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.95	
26 05 33 13-1899 EA 1/2" Flexible 45 Degree Connector, Insulated	17.09	4.77
For Work In Restricted Working Space, Add	2.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.28	
26 05 33 13-1900 EA 3/4" Flexible 45 Degree Connector, Insulated	22.36	5.20
For Work In Restricted Working Space, Add	2.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.60	
26 05 33 13-1901 Plain Screw-In Connector (26 05 33 13-1834)		
26 05 33 13-1902 EA 3/8" Flexible Steel Screw-in Connector, Plain.....	5.68	3.47
For Work In Restricted Working Space, Add	1.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.46	
26 05 33 13-1903 EA 1/2" Flexible Steel Screw-in Connector, Plain.....	6.09	3.90
For Work In Restricted Working Space, Add	1.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.63	
26 05 33 13-1904 EA 3/4" Flexible Steel Screw-in Connector, Plain.....	7.87	4.77
For Work In Restricted Working Space, Add	1.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.95	
26 05 33 13-1905 EA 1" Flexible Steel Screw-in Connector, Plain.....	11.41	5.20
For Work In Restricted Working Space, Add	2.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.60	
26 05 33 13-1906 EA 1-1/4" Flexible Steel Screw-in Connector, Plain	17.24	6.07
For Work In Restricted Working Space, Add	3.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.25	
26 05 33 13-1907 EA 1-1/2" Flexible Steel Screw-in Connector, Plain	20.99	6.51
For Work In Restricted Working Space, Add	4.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.06	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1908	EA		2" Flexible Steel Screw-in Connector, Plain.....	31.73	7.37
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33 13-1909			Insulated Screw-In Connector <small>(26 05 33 13-1834)</small>		
26 05 33 13-1910	EA		3/8" Flexible Steel Screw-in Connector, Insulated.....	6.07	3.47
			<i>For Work In Restricted Working Space, Add</i>	1.46	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.46	
26 05 33 13-1911	EA		1/2" Flexible Steel Screw-in Connector, Insulated.....	6.41	3.90
			<i>For Work In Restricted Working Space, Add</i>	1.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.63	
26 05 33 13-1912	EA		3/4" Flexible Steel Screw-in Connector, Insulated.....	8.68	4.77
			<i>For Work In Restricted Working Space, Add</i>	1.95	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.95	
26 05 33 13-1913	EA		1" Flexible Steel Screw-in Connector, Insulated.....	12.64	5.20
			<i>For Work In Restricted Working Space, Add</i>	2.60	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.60	
26 05 33 13-1914	EA		1-1/4" Flexible Steel Screw-in Connector, Insulated.....	19.00	6.07
			<i>For Work In Restricted Working Space, Add</i>	3.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.25	
26 05 33 13-1915	EA		1-1/2" Flexible Steel Screw-in Connector, Insulated.....	23.10	6.51
			<i>For Work In Restricted Working Space, Add</i>	4.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.06	
26 05 33 13-1916	EA		2" Flexible Steel Screw-in Connector, Insulated.....	33.59	7.37
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33 13-1917			Screw-In Coupling <small>(26 05 33 13-1834)</small>		
26 05 33 13-1918	EA		1/2" Flexible Steel Screw-in Coupling.....	6.86	3.90
			<i>For Work In Restricted Working Space, Add</i>	1.63	
26 05 33 13-1919	EA		3/4" Flexible Steel Screw-in Coupling.....	9.15	4.77
			<i>For Work In Restricted Working Space, Add</i>	1.95	
26 05 33 13-1920			Flexible To Electrical Metallic Tubing (EMT) Coupling <small>(26 05 33 13-1834)</small>		
26 05 33 13-1921	EA		3/8" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling.....	9.79	3.47
			<i>For Work In Restricted Working Space, Add</i>	1.46	
26 05 33 13-1922	EA		1/2" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling.....	13.62	3.90
			<i>For Work In Restricted Working Space, Add</i>	1.63	
26 05 33 13-1923	EA		3/4" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling.....	18.17	4.77
			<i>For Work In Restricted Working Space, Add</i>	1.95	
26 05 33 13-1924			Die Cast Squeeze Type Straight Connector <small>(26 05 33 13-1834)</small>		
26 05 33 13-1925	EA		3/8" Flexible Straight Connector, Die Cast.....	5.92	3.47
			<i>For Work In Restricted Working Space, Add</i>	1.46	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.46	
26 05 33 13-1926	EA		1/2" Flexible Straight Connector, Die Cast.....	6.73	3.90
			<i>For Work In Restricted Working Space, Add</i>	1.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.63	
26 05 33 13-1927	EA		3/4" Flexible Straight Connector, Die Cast.....	8.41	4.77
			<i>For Work In Restricted Working Space, Add</i>	1.95	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.95	
26 05 33 13-1928	EA		1" Flexible Straight Connector, Die Cast.....	12.92	5.20
			<i>For Work In Restricted Working Space, Add</i>	2.60	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.60	
26 05 33 13-1929	EA		1-1/4" Flexible Straight Connector, Die Cast.....	17.61	6.07
			<i>For Work In Restricted Working Space, Add</i>	3.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.25	
26 05 33 13-1930	EA		1-1/2" Flexible Straight Connector, Die Cast.....	24.17	6.51
			<i>For Work In Restricted Working Space, Add</i>	4.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.06	
26 05 33 13-1931	EA		2" Flexible Straight Connector, Die Cast.....	31.56	7.37
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33 13-1932			Die Cast Squeeze Type 90 Degree Connector <small>(26 05 33 13-1834)</small>		
26 05 33 13-1933	EA		3/8" Flexible 90 Degree Connector, Die Cast.....	7.85	4.33
			<i>For Work In Restricted Working Space, Add</i>	1.95	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.95	
26 05 33 13-1934	EA		1/2" Flexible 90 Degree Connector, Die Cast.....	9.84	4.77
			<i>For Work In Restricted Working Space, Add</i>	2.28	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.28	
26 05 33 13-1935	EA		3/4" Flexible 90 Degree Connector, Die Cast.....	12.07	5.20
			<i>For Work In Restricted Working Space, Add</i>	2.60	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.60	
26 05 33 13-1936	EA		1" Flexible 90 Degree Connector, Die Cast.....	19.82	6.07
			<i>For Work In Restricted Working Space, Add</i>	3.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1937 EA 1-1/4" Flexible 90 Degree Connector, Die Cast <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.67 3.90 3.90	6.51
26 05 33 13-1938 EA 1-1/2" Flexible 90 Degree Connector, Die Cast <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.50 4.88 4.88	7.59
26 05 33 13-1939 EA 2" Flexible 90 Degree Connector, Die Cast <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.65 5.53 5.53	9.32
26 05 33 13-1940 Flexible Liquid Tight Non-Metallic Conduit And Connectors <small>(26 05 33 13-1792)</small>		
26 05 33 13-1941 Flexible Liquid Tight Non-Metallic Conduit <small>(26 05 33 13-1940)</small>		
26 05 33 13-1942 LF 3/8" Flexible Liquid Tight Non-Metallic Conduit <i>For Work In Restricted Working Space, Add</i>	3.96 0.89	1.18
26 05 33 13-1943 LF 1/2" Flexible Liquid Tight Non-Metallic Conduit <i>For Work In Restricted Working Space, Add</i>	4.05 0.89	1.18
26 05 33 13-1944 LF 3/4" Flexible Liquid Tight Non-Metallic Conduit <i>For Work In Restricted Working Space, Add</i>	5.45 1.19	1.58
26 05 33 13-1945 LF 1" Flexible Liquid Tight Non-Metallic Conduit <i>For Work In Restricted Working Space, Add</i>	6.97 1.19	1.58
26 05 33 13-1946 LF 1-1/4" Flexible Liquid Tight Non-Metallic Conduit <i>For Work In Restricted Working Space, Add</i>	8.86 1.49	1.98
26 05 33 13-1947 LF 1-1/2" Flexible Liquid Tight Non-Metallic Conduit <i>For Work In Restricted Working Space, Add</i>	11.39 1.78	2.38
26 05 33 13-1948 LF 2" Flexible Liquid Tight Non-Metallic Conduit <i>For Work In Restricted Working Space, Add</i>	14.56 2.38	3.17
26 05 33 13-1949 Liquid Tight Non-Metallic Straight Connector <small>(26 05 33 13-1940)</small>		
26 05 33 13-1950 EA 3/8" Liquid Tight Non-Metallic Straight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.58 2.38 2.38	3.17
26 05 33 13-1951 EA 1/2" Liquid Tight Non-Metallic Straight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.58 2.38 2.38	3.17
26 05 33 13-1952 EA 3/4" Liquid Tight Non-Metallic Straight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.34 2.68 2.68	3.56
26 05 33 13-1953 EA 1" Liquid Tight Non-Metallic Straight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.04 2.97 2.97	3.96
26 05 33 13-1954 EA 1-1/4" Liquid Tight Non-Metallic Straight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.50 3.27 3.27	4.35
26 05 33 13-1955 EA 1-1/2" Liquid Tight Non-Metallic Straight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.22 3.56 3.56	4.75
26 05 33 13-1956 EA 2" Liquid Tight Non-Metallic Straight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.16 4.16 4.16	5.55
26 05 33 13-1957 Liquid Tight Non-Metallic 90 Degree Angle Connector <small>(26 05 33 13-1940)</small>		
26 05 33 13-1958 EA 3/8" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.85 3.27 3.27	4.35
26 05 33 13-1959 EA 1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.85 3.27 3.27	4.35
26 05 33 13-1960 EA 3/4" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.04 3.56 3.56	4.75
26 05 33 13-1961 EA 1" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.40 4.16 4.16	5.55
26 05 33 13-1962 EA 1-1/4" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.30 4.46 4.46	5.94
26 05 33 13-1963 EA 1-1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.13 4.75 4.75	6.34
26 05 33 13-1964 EA 2" Liquid Tight Non-Metallic 90 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.45 5.35 5.35	7.13
26 05 33 13-1965 Liquid Tight Non-Metallic 45 Degree Angle Connector <small>(26 05 33 13-1940)</small>		
26 05 33 13-1966 EA 3/8" Liquid Tight Non-Metallic 45 Degree Angle Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.85 3.27 3.27	4.35

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1967	EA		1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	16.85	4.35
			<i>For Work In Restricted Working Space, Add</i>	3.27	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.27	
26 05 33 13-1968	EA		3/4" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	21.04	4.75
			<i>For Work In Restricted Working Space, Add</i>	3.56	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.56	
26 05 33 13-1969	EA		1" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	30.40	5.55
			<i>For Work In Restricted Working Space, Add</i>	4.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.16	
26 05 33 13-1970	EA		1-1/4" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	31.30	5.94
			<i>For Work In Restricted Working Space, Add</i>	4.46	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	
26 05 33 13-1971	EA		1-1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	51.13	6.34
			<i>For Work In Restricted Working Space, Add</i>	4.75	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.75	
26 05 33 13-1972	EA		2" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	69.45	7.13
			<i>For Work In Restricted Working Space, Add</i>	5.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.35	
26 05 33 13-1973			Blue ENT Electrical Non-Metallic Tubing (26 05 33 13-1972)		
			Note: Carlton - FLEX-PLUS.		
26 05 33 13-1974			Blue ENT Electrical Non-Metallic Tubing (26 05 33 13-1973)		
26 05 33 13-1975	LF		1/2" Blue ENT Electrical Non-Metallic Tubing.....	4.34	1.30
			<i>For Work In Restricted Working Space, Add</i>	0.98	
26 05 33 13-1976	LF		3/4" Blue ENT Electrical Non-Metallic Tubing.....	5.85	1.73
			<i>For Work In Restricted Working Space, Add</i>	1.30	
26 05 33 13-1977	LF		1" Blue ENT Electrical Non-Metallic Tubing.....	6.78	1.73
			<i>For Work In Restricted Working Space, Add</i>	1.30	
26 05 33 13-1978			Terminal Adapter (26 05 33 13-1973)		
26 05 33 13-1979	EA		1/2" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	10.46	3.47
			<i>For Work In Restricted Working Space, Add</i>	2.60	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.60	
26 05 33 13-1980	EA		3/4" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	13.02	3.90
			<i>For Work In Restricted Working Space, Add</i>	2.93	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.93	
26 05 33 13-1981	EA		1" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	15.04	4.33
			<i>For Work In Restricted Working Space, Add</i>	3.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.25	
26 05 33 13-1982			Coupling (26 05 33 13-1973)		
26 05 33 13-1983	EA		1/2" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	10.23	3.47
			<i>For Work In Restricted Working Space, Add</i>	2.60	
26 05 33 13-1984	EA		3/4" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	11.77	3.90
			<i>For Work In Restricted Working Space, Add</i>	2.93	
26 05 33 13-1985	EA		1" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	13.87	4.33
			<i>For Work In Restricted Working Space, Add</i>	3.25	
26 05 33 13-1986			Conduit Installed Below Grade (26 05 33 13-0057)		
			Note: By direct burial in trench or in concrete slabs or duct banks. Includes detectable warning tape for underground conduits. Excludes trenching, backfilling and concrete.		
26 05 33 13-1987			Schedule 40 Polyvinyl Chloride (PVC) Conduit, Direct Burial (26 05 33 13-1986)		
26 05 33 13-1988			Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial (26 05 33 13-1987)		
			Note: Includes field bend conduit up to 1".		
26 05 33 13-1989	LF		1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	3.70	
			<i>For Schedule 60, Add</i>	0.32	
			<i>For Schedule 80, Add</i>	0.54	
26 05 33 13-1990	LF		3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	4.16	
			<i>For Schedule 60, Add</i>	0.39	
			<i>For Schedule 80, Add</i>	0.65	
26 05 33 13-1991	LF		1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	4.85	
			<i>For Schedule 60, Add</i>	0.52	
			<i>For Schedule 80, Add</i>	0.83	
26 05 33 13-1992	LF		1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	5.53	
			<i>For Schedule 60, Add</i>	0.64	
			<i>For Schedule 80, Add</i>	1.01	
26 05 33 13-1993	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	6.13	
			<i>For Schedule 60, Add</i>	0.75	
			<i>For Schedule 80, Add</i>	1.16	
26 05 33 13-1994	LF		2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	7.06	
			<i>For Schedule 60, Add</i>	0.93	
			<i>For Schedule 80, Add</i>	1.43	
26 05 33 13-1995	LF		2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	9.01	
			<i>For Schedule 60, Add</i>	1.37	
			<i>For Schedule 80, Add</i>	2.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1996 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	10.13	
<i>For Schedule 60, Add</i>	1.61	
<i>For Schedule 80, Add</i>	2.39	
26 05 33 13-1997 LF 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	11.90	
<i>For Schedule 60, Add</i>	2.00	
<i>For Schedule 80, Add</i>	2.95	
26 05 33 13-1998 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	12.83	
<i>For Schedule 60, Add</i>	2.19	
<i>For Schedule 80, Add</i>	3.22	
26 05 33 13-1999 LF 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	16.62	
<i>For Schedule 60, Add</i>	3.09	
<i>For Schedule 80, Add</i>	4.49	
26 05 33 13-2000 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	20.47	
<i>For Schedule 60, Add</i>	4.01	
<i>For Schedule 80, Add</i>	5.78	
26 05 33 13-2001 Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows, Direct Burial		
<small>(26 05 33 13-1987)</small>		
See CSI section 26 05 33 13-2447 for conduit field bending.		
26 05 33 13-2002 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	24.92	
<i>For Schedule 60, Add</i>	1.61	
<i>For Schedule 80, Add</i>	2.94	
26 05 33 13-2003 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	29.89	
<i>For Schedule 60, Add</i>	1.92	
<i>For Schedule 80, Add</i>	3.53	
26 05 33 13-2004 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	35.74	
<i>For Schedule 60, Add</i>	2.46	
<i>For Schedule 80, Add</i>	4.42	
26 05 33 13-2005 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	41.88	
<i>For Schedule 60, Add</i>	3.07	
<i>For Schedule 80, Add</i>	5.41	
26 05 33 13-2006 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	48.24	
<i>For Schedule 60, Add</i>	3.74	
<i>For Schedule 80, Add</i>	6.48	
26 05 33 13-2007 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	55.32	
<i>For Schedule 60, Add</i>	4.58	
<i>For Schedule 80, Add</i>	7.80	
26 05 33 13-2008 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	67.15	
<i>For Schedule 60, Add</i>	6.62	
<i>For Schedule 80, Add</i>	10.79	
26 05 33 13-2009 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	82.31	
<i>For Schedule 60, Add</i>	9.48	
<i>For Schedule 80, Add</i>	14.94	
26 05 33 13-2010 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	102.13	
<i>For Schedule 60, Add</i>	12.59	
<i>For Schedule 80, Add</i>	19.56	
26 05 33 13-2011 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	122.11	
<i>For Schedule 60, Add</i>	15.73	
<i>For Schedule 80, Add</i>	24.25	
26 05 33 13-2012 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	167.64	
<i>For Schedule 60, Add</i>	25.27	
<i>For Schedule 80, Add</i>	37.87	
26 05 33 13-2013 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	200.13	
<i>For Schedule 60, Add</i>	31.54	
<i>For Schedule 80, Add</i>	46.93	
26 05 33 13-2014 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows, Direct Burial		
<small>(26 05 33 13-1987)</small>		
See CSI section 26 05 33 13-2447 for conduit field bending.		
26 05 33 13-2015 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	24.92	
<i>For Schedule 60, Add</i>	1.61	
<i>For Schedule 80, Add</i>	2.94	
26 05 33 13-2016 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	29.75	
<i>For Schedule 60, Add</i>	1.89	
<i>For Schedule 80, Add</i>	3.48	
26 05 33 13-2017 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	35.56	
<i>For Schedule 60, Add</i>	2.42	
<i>For Schedule 80, Add</i>	4.36	
26 05 33 13-2018 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	41.34	
<i>For Schedule 60, Add</i>	2.94	
<i>For Schedule 80, Add</i>	5.22	
26 05 33 13-2019 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	47.02	
<i>For Schedule 60, Add</i>	3.43	
<i>For Schedule 80, Add</i>	6.05	
26 05 33 13-2020 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	54.67	
<i>For Schedule 60, Add</i>	4.42	
<i>For Schedule 80, Add</i>	7.57	
26 05 33 13-2021 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	65.94	
<i>For Schedule 60, Add</i>	6.31	
<i>For Schedule 80, Add</i>	10.36	

26 Electrical
26 05 Common Work Results for Electrical
26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2022	EA		3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	80.78 9.10 14.40	
26 05 33 13-2023	EA		3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	97.82 11.51 18.05	
26 05 33 13-2024	EA		4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	118.40 14.81 22.95	
26 05 33 13-2025	EA		5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	162.84 24.07 36.19	
26 05 33 13-2026	EA		6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	185.83 27.96 41.92	
26 05 33 13-2027			Polyvinyl Chloride (PVC) Conduit Female Adapters, Direct Burial <small>(26 05 33 13-1987)</small>		
26 05 33 13-2028	EA		1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.78 3.89	
26 05 33 13-2029	EA		3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.92 4.44	
26 05 33 13-2030	EA		1" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.19 4.99	
26 05 33 13-2031	EA		1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.63 5.55	
26 05 33 13-2032	EA		1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.64 6.10	
26 05 33 13-2033	EA		2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.43 6.66	
26 05 33 13-2034	EA		2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.07 7.49	
26 05 33 13-2035	EA		3" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.09 8.32	
26 05 33 13-2036	EA		3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.98 9.71	
26 05 33 13-2037	EA		4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.04 11.10	
26 05 33 13-2038	EA		5" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.78 12.48	
26 05 33 13-2039	EA		6" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	72.96 13.87	
26 05 33 13-2040			Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug, Direct Burial <small>(26 05 33 13-1987)</small>		
26 05 33 13-2041	EA		1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	18.04	
26 05 33 13-2042	EA		3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	20.35	
26 05 33 13-2043	EA		1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	22.71	
26 05 33 13-2044	EA		1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	29.37	
26 05 33 13-2045	EA		1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	32.51	
26 05 33 13-2046	EA		2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	37.17	
26 05 33 13-2047	EA		2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	41.47	
26 05 33 13-2048	EA		3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	46.67	
26 05 33 13-2049	EA		3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	55.56	
26 05 33 13-2050	EA		4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	60.55	
26 05 33 13-2051	EA		5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	78.40	
26 05 33 13-2052	EA		6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	88.28	
26 05 33 13-2053			Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial <small>(26 05 33 13-1987)</small>		
26 05 33 13-2054	EA		1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	13.64	
26 05 33 13-2055	EA		3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	15.92	
26 05 33 13-2056	EA		1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	17.99	
26 05 33 13-2057	EA		1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	20.29	
26 05 33 13-2058	EA		1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	22.34	
26 05 33 13-2059	EA		2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	25.02	
26 05 33 13-2060	EA		2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	30.25	
26 05 33 13-2061	EA		3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	34.94	
26 05 33 13-2062	EA		3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	41.52	
26 05 33 13-2063	EA		4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	46.54	
26 05 33 13-2064	EA		5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	60.82	
26 05 33 13-2065	EA		6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	69.41	
26 05 33 13-2066			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <small>(26 05 33 13-1986)</small> Note: 40 mil Polyvinyl Chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney).		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2067 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <small>(26 05 33 13-2066)</small> Note: Includes field bending for conduit up to 1".		
26 05 33 13-2068 LF 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	11.07	2.08
For >250 To 500, Deduct	-0.42	
For >500 To 1,000, Deduct	-0.69	
For >1,000, Deduct	-0.97	
26 05 33 13-2069 LF 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	12.45	2.58
For >250 To 500, Deduct	-0.47	
For >500 To 1,000, Deduct	-0.79	
For >1,000, Deduct	-1.10	
26 05 33 13-2070 LF 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	15.37	2.87
For >250 To 500, Deduct	-0.60	
For >500 To 1,000, Deduct	-0.98	
For >1,000, Deduct	-1.36	
26 05 33 13-2071 LF 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	18.62	3.86
For >250 To 500, Deduct	-0.73	
For >500 To 1,000, Deduct	-1.20	
For >1,000, Deduct	-1.66	
26 05 33 13-2072 LF 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	21.92	4.35
For >250 To 500, Deduct	-0.87	
For >500 To 1,000, Deduct	-1.42	
For >1,000, Deduct	-1.97	
26 05 33 13-2073 LF 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	27.83	4.75
For >250 To 500, Deduct	-1.12	
For >500 To 1,000, Deduct	-1.82	
For >1,000, Deduct	-2.51	
26 05 33 13-2074 LF 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	40.54	7.13
For >250 To 500, Deduct	-1.66	
For >500 To 1,000, Deduct	-2.67	
For >1,000, Deduct	-3.68	
26 05 33 13-2075 LF 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	52.20	8.92
For >250 To 500, Deduct	-2.12	
For >500 To 1,000, Deduct	-3.42	
For >1,000, Deduct	-4.73	
26 05 33 13-2076 LF 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	64.38	9.41
For >250 To 500, Deduct	-2.60	
For >500 To 1,000, Deduct	-4.21	
For >1,000, Deduct	-5.82	
26 05 33 13-2077 LF 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	76.42	10.40
For >250 To 500, Deduct	-3.08	
For >500 To 1,000, Deduct	-4.99	
For >1,000, Deduct	-6.90	
26 05 33 13-2078 LF 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	120.43	14.35
For >250 To 500, Deduct	-5.08	
For >500 To 1,000, Deduct	-8.09	
For >1,000, Deduct	-11.10	
26 05 33 13-2079 LF 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	160.99	18.81
For >250 To 500, Deduct	-6.86	
For >500 To 1,000, Deduct	-10.89	
For >1,000, Deduct	-14.91	
26 05 33 13-2080 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings, Direct Burial <small>(26 05 33 13-2066)</small>		
26 05 33 13-2081 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	11.88	2.97
26 05 33 13-2082 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	14.14	3.96
26 05 33 13-2083 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	17.98	4.95
26 05 33 13-2084 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	20.31	5.45
26 05 33 13-2085 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	24.07	6.44
26 05 33 13-2086 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	31.24	7.42
26 05 33 13-2087 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	58.39	8.92
26 05 33 13-2088 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	74.02	12.38
26 05 33 13-2089 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	91.92	14.35
26 05 33 13-2090 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	113.50	19.80
26 05 33 13-2091 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	295.27	27.23
26 05 33 13-2092 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	299.71	15.34
26 05 33 13-2093 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows, Direct Burial <small>(26 05 33 13-2066)</small> Note: 90, 45, or 30 degree.		
26 05 33 13-2094 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	45.56	12.38
26 05 33 13-2095 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	52.30	15.34
26 05 33 13-2096 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	62.40	18.81
26 05 33 13-2097 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	74.01	21.78
26 05 33 13-2098 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	86.92	24.75

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2099 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	106.68	27.23
26 05 33 13-2100 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	166.71	34.16
26 05 33 13-2101 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	250.29	46.53
26 05 33 13-2102 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	311.26	52.47
26 05 33 13-2103 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	354.72	68.31
26 05 33 13-2104 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	748.31	111.38
26 05 33 13-2105 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	1,179.41	167.32
26 05 33 13-2106 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2066)</small>		
26 05 33 13-2107 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	111.45	18.81
26 05 33 13-2108 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	125.23	21.78
26 05 33 13-2109 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	142.99	24.75
26 05 33 13-2110 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	171.38	27.23
26 05 33 13-2111 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	239.94	34.16
26 05 33 13-2112 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2066)</small>		
26 05 33 13-2113 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	124.72	18.81
26 05 33 13-2114 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	147.15	21.78
26 05 33 13-2115 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	158.71	24.75
26 05 33 13-2116 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	205.65	27.23
26 05 33 13-2117 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	272.98	34.16
26 05 33 13-2118 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	348.30	46.53
26 05 33 13-2119 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2066)</small>		
26 05 33 13-2120 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	140.58	18.81
26 05 33 13-2121 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	158.56	21.78
26 05 33 13-2122 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	178.88	24.75
26 05 33 13-2123 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	217.02	27.23
26 05 33 13-2124 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	310.96	34.16
26 05 33 13-2125 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	392.89	46.53
26 05 33 13-2126 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	497.98	52.47
26 05 33 13-2127 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	558.14	68.31
26 05 33 13-2128 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2066)</small>		
26 05 33 13-2129 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	167.98	18.81
26 05 33 13-2130 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	185.36	21.78
26 05 33 13-2131 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	209.30	24.75
26 05 33 13-2132 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	260.83	27.23
26 05 33 13-2133 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	378.93	34.16
26 05 33 13-2134 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	468.42	46.53
26 05 33 13-2135 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	544.10	52.47



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2136 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	642.81	68.31
26 05 33 13-2137 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2066)</small>		
26 05 33 13-2138 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	189.31	18.81
26 05 33 13-2139 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	210.31	21.78
26 05 33 13-2140 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	239.25	24.75
26 05 33 13-2141 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	298.97	27.23
26 05 33 13-2142 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	416.01	34.16
26 05 33 13-2143 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	528.85	46.53
26 05 33 13-2144 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	656.24	52.47
26 05 33 13-2145 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	720.54	68.31
26 05 33 13-2146 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	1,202.08	111.38
26 05 33 13-2147 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2066)</small>		
26 05 33 13-2148 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	217.18	18.81
26 05 33 13-2149 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	240.45	21.78
26 05 33 13-2150 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	272.08	24.75
26 05 33 13-2151 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	341.27	27.23
26 05 33 13-2152 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	477.80	34.16
26 05 33 13-2153 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	605.83	46.53
26 05 33 13-2154 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	712.44	52.47
26 05 33 13-2155 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	820.88	68.31
26 05 33 13-2156 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	1,272.40	111.38
26 05 33 13-2157 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	1,735.08	167.32
26 05 33 13-2158 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2066)</small>		
26 05 33 13-2159 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	256.00	18.81
26 05 33 13-2160 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	267.32	21.78
26 05 33 13-2161 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	316.01	24.75
26 05 33 13-2162 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	400.16	27.23
26 05 33 13-2163 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	561.13	34.16
26 05 33 13-2164 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	709.61	46.53
26 05 33 13-2165 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	868.66	52.47
26 05 33 13-2166 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,016.09	68.31
26 05 33 13-2167 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,501.78	111.38
26 05 33 13-2168 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,840.38	167.32
26 05 33 13-2169 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows, Direct Burial <small>(26 05 33 13-2066)</small>		
26 05 33 13-2170 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	265.35	18.81
26 05 33 13-2171 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	312.77	21.78
26 05 33 13-2172 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	354.01	24.75

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2173 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	417.87	27.23
26 05 33 13-2174 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	581.94	34.16
26 05 33 13-2175 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	741.52	46.53
26 05 33 13-2176 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	953.74	52.47
26 05 33 13-2177 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,060.36	68.31
26 05 33 13-2178 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,563.41	111.38
26 05 33 13-2179 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,893.88	167.32
26 05 33 13-2180 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions, Direct Burial <small>(26 05 33 13-2066)</small>		
26 05 33 13-2181 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	86.78	12.38
26 05 33 13-2182 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	93.85	15.34
26 05 33 13-2183 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	122.29	18.81
26 05 33 13-2184 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	179.83	21.78
26 05 33 13-2185 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	213.87	24.75
26 05 33 13-2186 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	273.50	27.23
26 05 33 13-2187 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	364.87	34.16
26 05 33 13-2188 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	477.15	34.16
26 05 33 13-2189 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	612.09	52.47
26 05 33 13-2190 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	787.81	68.31
26 05 33 13-2191 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,439.89	111.38
26 05 33 13-2192 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,784.23	167.32
26 05 33 13-2193 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions, Direct Burial <small>(26 05 33 13-2066)</small>		
26 05 33 13-2194 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	88.87	12.38
26 05 33 13-2195 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	101.83	15.34
26 05 33 13-2196 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	126.55	18.81
26 05 33 13-2197 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	187.64	21.78
26 05 33 13-2198 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	224.71	24.75
26 05 33 13-2199 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	296.91	27.23
26 05 33 13-2200 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	414.95	34.16
26 05 33 13-2201 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	528.08	34.16
26 05 33 13-2202 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	704.17	52.47
26 05 33 13-2203 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	879.55	68.31
26 05 33 13-2204 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	1,608.06	111.38
26 05 33 13-2205 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	2,055.77	167.32
26 05 33 13-2206 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples, Direct Burial <small>(26 05 33 13-2066)</small>		
26 05 33 13-2207 EA 1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	29.47	5.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.56	
26 05 33 13-2208 EA 3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	32.78	7.42
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	
26 05 33 13-2209 EA 1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	37.72	9.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2210 EA 1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	45.04	10.89
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.53	
26 05 33 13-2211 EA 1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	48.78	12.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.43	
26 05 33 13-2212 EA 1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	32.72	6.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.86	
26 05 33 13-2213 EA 3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	35.18	7.42
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	
26 05 33 13-2214 EA 1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	40.15	9.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.64	
26 05 33 13-2215 EA 1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	47.62	10.89
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.53	
26 05 33 13-2216 EA 1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	51.55	12.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.43	
26 05 33 13-2217 EA 2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	55.72	13.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.32	
26 05 33 13-2218 EA 1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	32.89	6.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.86	
26 05 33 13-2219 EA 3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	35.35	7.42
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	
26 05 33 13-2220 EA 1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	40.46	9.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.64	
26 05 33 13-2221 EA 1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	47.95	10.89
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.53	
26 05 33 13-2222 EA 1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	51.88	12.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.43	
26 05 33 13-2223 EA 2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	56.58	13.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.32	
26 05 33 13-2224 EA 1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	35.17	6.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.86	
26 05 33 13-2225 EA 3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	37.63	7.42
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	
26 05 33 13-2226 EA 1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.92	9.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.64	
26 05 33 13-2227 EA 1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	49.35	10.89
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.53	
26 05 33 13-2228 EA 1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	53.42	12.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.43	
26 05 33 13-2229 EA 2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	59.28	13.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.32	
26 05 33 13-2230 EA 2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	83.75	16.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.10	
26 05 33 13-2231 EA 3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	107.82	23.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.96	
26 05 33 13-2232 EA 1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	35.34	6.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.86	
26 05 33 13-2233 EA 3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	37.95	7.42
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	
26 05 33 13-2234 EA 1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	43.25	9.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.64	
26 05 33 13-2235 EA 1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	50.74	10.89
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.53	
26 05 33 13-2236 EA 1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	54.96	12.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.43	
26 05 33 13-2237 EA 2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	61.97	13.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.32	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2238	EA	2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	86.13	16.83
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.10	
26 05 33 13-2239	EA	3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	112.94	23.27
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.96	
26 05 33 13-2240	EA	3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	135.29	26.23
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.74	
26 05 33 13-2241	EA	4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	156.91	34.16
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.49	
26 05 33 13-2242	EA	1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	35.65	6.44
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.86	
26 05 33 13-2243	EA	3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	38.28	7.42
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	
26 05 33 13-2244	EA	1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	43.61	9.41
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.64	
26 05 33 13-2245	EA	1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	51.39	10.89
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.53	
26 05 33 13-2246	EA	1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	55.63	12.38
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.43	
26 05 33 13-2247	EA	2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	63.43	13.86
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.32	
26 05 33 13-2248	EA	2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	95.60	16.83
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.10	
26 05 33 13-2249	EA	3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	120.60	23.27
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.96	
26 05 33 13-2250	EA	3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	136.93	26.23
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.74	
26 05 33 13-2251	EA	4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	161.29	34.16
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.49	
26 05 33 13-2252	EA	5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	238.69	47.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.22	
26 05 33 13-2253	EA	1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	36.26	6.44
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.86	
26 05 33 13-2254	EA	3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	38.88	7.42
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	
26 05 33 13-2255	EA	1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	44.26	9.41
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.64	
26 05 33 13-2256	EA	1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	52.59	10.89
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.53	
26 05 33 13-2257	EA	1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	57.08	12.38
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.43	
26 05 33 13-2258	EA	2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	64.90	13.86
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.32	
26 05 33 13-2259	EA	2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	105.21	16.83
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.10	
26 05 33 13-2260	EA	3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	130.79	23.27
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.96	
26 05 33 13-2261	EA	3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	146.11	26.23
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.74	
26 05 33 13-2262	EA	4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	176.77	34.16
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.49	
26 05 33 13-2263	EA	5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	261.83	47.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.22	
26 05 33 13-2264	EA	1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	37.19	6.44
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.86	
26 05 33 13-2265	EA	3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.80	7.42
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2266 EA 1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	45.70	9.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.64	
26 05 33 13-2267 EA 1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	52.90	10.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.53	
26 05 33 13-2268 EA 1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	60.01	12.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	
26 05 33 13-2269 EA 2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	72.06	13.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.32	
26 05 33 13-2270 EA 2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	117.03	16.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.10	
26 05 33 13-2271 EA 3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	144.73	23.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.96	
26 05 33 13-2272 EA 3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	169.08	26.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.74	
26 05 33 13-2273 EA 4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	200.01	34.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.49	
26 05 33 13-2274 EA 5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	277.69	47.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.22	
26 05 33 13-2275 EA 1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	38.18	6.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.86	
26 05 33 13-2276 EA 3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	40.76	7.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 05 33 13-2277 EA 1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	47.12	9.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.64	
26 05 33 13-2278 EA 1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	57.23	10.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.53	
26 05 33 13-2279 EA 1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	66.98	12.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	
26 05 33 13-2280 EA 2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	82.59	13.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.32	
26 05 33 13-2281 EA 2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	129.53	16.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.10	
26 05 33 13-2282 EA 3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	162.59	23.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.96	
26 05 33 13-2283 EA 3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	193.21	26.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.74	
26 05 33 13-2284 EA 4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	240.67	34.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.49	
26 05 33 13-2285 EA 5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	309.35	47.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.22	
26 05 33 13-2286 EA 1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.19	6.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.86	
26 05 33 13-2287 EA 3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.89	7.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 05 33 13-2288 EA 1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	50.73	9.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.64	
26 05 33 13-2289 EA 1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	64.34	10.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.53	
26 05 33 13-2290 EA 1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	75.41	12.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	
26 05 33 13-2291 EA 2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	91.05	13.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.32	
26 05 33 13-2292 EA 2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	146.21	16.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.10	
26 05 33 13-2293 EA 3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	189.36	23.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.96	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2294	EA		3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	208.02	26.23
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.74	
26 05 33 13-2295	EA		4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	253.15	34.16
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.49	
26 05 33 13-2296	EA		5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	313.87	47.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.22	
26 05 33 13-2297			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-1986)</small> Note: Direct burial or encased application.		
26 05 33 13-2298			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-2297)</small>		
26 05 33 13-2299	LF		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	8.70	1.20
			<i>For Work In Restricted Working Space, Add</i>	0.90	
26 05 33 13-2300	LF		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	9.66	1.29
			<i>For Work In Restricted Working Space, Add</i>	0.97	
26 05 33 13-2301	LF		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	10.26	1.38
			<i>For Work In Restricted Working Space, Add</i>	1.04	
26 05 33 13-2302	LF		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	10.86	1.48
			<i>For Work In Restricted Working Space, Add</i>	1.11	
26 05 33 13-2303	LF		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	11.67	1.57
			<i>For Work In Restricted Working Space, Add</i>	1.18	
26 05 33 13-2304	LF		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	12.11	1.66
			<i>For Work In Restricted Working Space, Add</i>	1.25	
26 05 33 13-2305	LF		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	13.91	1.75
			<i>For Work In Restricted Working Space, Add</i>	1.32	
26 05 33 13-2306	LF		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	16.05	1.85
			<i>For Work In Restricted Working Space, Add</i>	1.39	
26 05 33 13-2307	LF		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	17.72	1.94
			<i>For Work In Restricted Working Space, Add</i>	1.46	
26 05 33 13-2308	LF		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	19.37	2.03
			<i>For Work In Restricted Working Space, Add</i>	1.53	
26 05 33 13-2309	LF		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	23.16	2.12
			<i>For Work In Restricted Working Space, Add</i>	1.60	
26 05 33 13-2310	LF		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	27.87	2.22
			<i>For Work In Restricted Working Space, Add</i>	1.67	
26 05 33 13-2311			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-2297)</small>		
26 05 33 13-2312	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	128.54	9.25
			<i>For Work In Restricted Working Space, Add</i>	6.93	
			<i>For 24" Radius, Add</i>	9.06	
			<i>For 36" Radius, Add</i>	12.85	
			<i>For 48" Radius, Add</i>	16.65	
26 05 33 13-2313	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	145.77	11.10
			<i>For Work In Restricted Working Space, Add</i>	8.32	
			<i>For 24" Radius, Add</i>	10.24	
			<i>For 36" Radius, Add</i>	14.58	
			<i>For 48" Radius, Add</i>	18.91	
26 05 33 13-2314	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	151.59	12.95
			<i>For Work In Restricted Working Space, Add</i>	9.71	
			<i>For 24" Radius, Add</i>	10.56	
			<i>For 36" Radius, Add</i>	15.16	
			<i>For 48" Radius, Add</i>	19.76	
26 05 33 13-2315	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	157.38	14.80
			<i>For Work In Restricted Working Space, Add</i>	11.10	
			<i>For 24" Radius, Add</i>	10.88	
			<i>For 36" Radius, Add</i>	15.74	
			<i>For 48" Radius, Add</i>	20.60	
26 05 33 13-2316	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	163.20	16.64
			<i>For Work In Restricted Working Space, Add</i>	12.48	
			<i>For 24" Radius, Add</i>	11.20	
			<i>For 36" Radius, Add</i>	16.32	
			<i>For 48" Radius, Add</i>	21.44	
26 05 33 13-2317	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	184.60	18.50
			<i>For Work In Restricted Working Space, Add</i>	13.87	
			<i>For 24" Radius, Add</i>	12.69	
			<i>For 36" Radius, Add</i>	18.46	
			<i>For 48" Radius, Add</i>	24.23	
26 05 33 13-2318	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	216.46	20.34
			<i>For Work In Restricted Working Space, Add</i>	15.26	
			<i>For 24" Radius, Add</i>	14.96	
			<i>For 36" Radius, Add</i>	21.65	
			<i>For 48" Radius, Add</i>	28.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2319 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	254.21	22.19
For Work In Restricted Working Space, Add	16.65	
For 24" Radius, Add	17.68	
For 36" Radius, Add	25.42	
For 48" Radius, Add	33.16	
26 05 33 13-2320 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	288.29	25.89
For Work In Restricted Working Space, Add	19.42	
For 24" Radius, Add	20.00	
For 36" Radius, Add	28.83	
For 48" Radius, Add	37.65	
26 05 33 13-2321 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	322.37	33.29
For Work In Restricted Working Space, Add	22.19	
For 24" Radius, Add	22.33	
For 36" Radius, Add	32.24	
For 48" Radius, Add	42.15	
26 05 33 13-2322 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	393.72	33.29
For Work In Restricted Working Space, Add	24.97	
For 24" Radius, Add	27.45	
For 36" Radius, Add	39.37	
For 48" Radius, Add	51.30	
26 05 33 13-2323 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	480.59	36.99
For Work In Restricted Working Space, Add	27.74	
For 24" Radius, Add	33.73	
For 36" Radius, Add	48.06	
For 48" Radius, Add	62.39	
 26 05 33 13-2324 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings (26 05 33 13-2297)		
26 05 33 13-2325 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	56.60	5.18
For Work In Restricted Working Space, Add	3.89	
26 05 33 13-2326 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	63.44	5.92
For Work In Restricted Working Space, Add	4.44	
26 05 33 13-2327 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	65.78	6.66
For Work In Restricted Working Space, Add	4.99	
26 05 33 13-2328 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	68.05	7.39
For Work In Restricted Working Space, Add	5.55	
26 05 33 13-2329 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	70.89	8.14
For Work In Restricted Working Space, Add	6.10	
26 05 33 13-2330 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	82.38	8.88
For Work In Restricted Working Space, Add	6.66	
26 05 33 13-2331 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	97.42	9.99
For Work In Restricted Working Space, Add	7.49	
26 05 33 13-2332 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	114.68	11.10
For Work In Restricted Working Space, Add	8.32	
26 05 33 13-2333 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	130.17	12.95
For Work In Restricted Working Space, Add	9.71	
26 05 33 13-2334 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	145.67	14.80
For Work In Restricted Working Space, Add	11.10	
26 05 33 13-2335 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	177.45	16.64
For Work In Restricted Working Space, Add	12.48	
26 05 33 13-2336 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	215.98	18.50
For Work In Restricted Working Space, Add	13.87	
 26 05 33 13-2337 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings (26 05 33 13-2297)		
26 05 33 13-2338 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	37.58	5.18
For Work In Restricted Working Space, Add	3.89	
26 05 33 13-2339 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	42.16	5.92
For Work In Restricted Working Space, Add	4.44	
26 05 33 13-2340 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	44.30	6.66
For Work In Restricted Working Space, Add	4.99	
26 05 33 13-2341 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	46.45	7.39
For Work In Restricted Working Space, Add	5.55	
26 05 33 13-2342 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	48.57	8.14
For Work In Restricted Working Space, Add	6.10	
26 05 33 13-2343 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	50.59	8.88
For Work In Restricted Working Space, Add	6.66	
26 05 33 13-2344 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	59.04	9.99
For Work In Restricted Working Space, Add	7.49	
26 05 33 13-2345 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	68.65	11.10
For Work In Restricted Working Space, Add	8.32	
26 05 33 13-2346 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	78.38	12.95
For Work In Restricted Working Space, Add	9.71	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2347	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	88.12	14.80
			<i>For Work In Restricted Working Space, Add</i>	11.10	
26 05 33	13-2348	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	105.57	16.64
			<i>For Work In Restricted Working Space, Add</i>	12.48	
26 05 33	13-2349	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	126.14	18.50
			<i>For Work In Restricted Working Space, Add</i>	13.87	
26 05 33 13-2350 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings <small>(26 05 33 13-2297)</small>					
26 05 33	13-2351	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	38.01	2.96
			<i>For Work In Restricted Working Space, Add</i>	2.22	
26 05 33	13-2352	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	42.36	3.33
			<i>For Work In Restricted Working Space, Add</i>	2.50	
26 05 33	13-2353	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	43.65	3.70
			<i>For Work In Restricted Working Space, Add</i>	2.78	
26 05 33	13-2354	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	44.78	4.07
			<i>For Work In Restricted Working Space, Add</i>	3.05	
26 05 33	13-2355	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	46.50	4.44
			<i>For Work In Restricted Working Space, Add</i>	3.33	
26 05 33	13-2356	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	55.10	5.18
			<i>For Work In Restricted Working Space, Add</i>	3.89	
26 05 33	13-2357	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	66.27	6.29
			<i>For Work In Restricted Working Space, Add</i>	4.72	
26 05 33	13-2358	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	79.15	7.39
			<i>For Work In Restricted Working Space, Add</i>	5.55	
26 05 33	13-2359	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	91.34	9.25
			<i>For Work In Restricted Working Space, Add</i>	6.93	
26 05 33	13-2360	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	103.54	11.10
			<i>For Work In Restricted Working Space, Add</i>	8.32	
26 05 33	13-2361	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	127.08	12.95
			<i>For Work In Restricted Working Space, Add</i>	9.71	
26 05 33	13-2362	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	155.43	14.80
			<i>For Work In Restricted Working Space, Add</i>	11.10	
26 05 33 13-2363 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints <small>(26 05 33 13-2297)</small>					
26 05 33	13-2364	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	79.98	18.50
			<i>For Work In Restricted Working Space, Add</i>	13.87	
26 05 33	13-2365	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	92.92	22.19
			<i>For Work In Restricted Working Space, Add</i>	16.65	
26 05 33	13-2366	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	102.57	25.89
			<i>For Work In Restricted Working Space, Add</i>	19.42	
26 05 33	13-2367	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	112.06	29.59
			<i>For Work In Restricted Working Space, Add</i>	22.19	
26 05 33	13-2368	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	117.56	31.44
			<i>For Work In Restricted Working Space, Add</i>	23.58	
26 05 33	13-2369	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	129.59	33.29
			<i>For Work In Restricted Working Space, Add</i>	24.97	
26 05 33	13-2370	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	143.49	35.14
			<i>For Work In Restricted Working Space, Add</i>	26.36	
26 05 33	13-2371	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	159.25	36.99
			<i>For Work In Restricted Working Space, Add</i>	27.74	
26 05 33	13-2372	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	172.22	38.84
			<i>For Work In Restricted Working Space, Add</i>	29.13	
26 05 33	13-2373	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	185.18	40.69
			<i>For Work In Restricted Working Space, Add</i>	30.52	
26 05 33	13-2374	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	210.68	42.53
			<i>For Work In Restricted Working Space, Add</i>	31.91	
26 05 33	13-2375	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	241.38	44.39
			<i>For Work In Restricted Working Space, Add</i>	33.29	
26 05 33 13-2376 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints <small>(26 05 33 13-2297)</small>					
26 05 33	13-2377	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	93.68	18.50
			<i>For Work In Restricted Working Space, Add</i>	13.87	
26 05 33	13-2378	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	108.27	22.19
			<i>For Work In Restricted Working Space, Add</i>	16.65	
26 05 33	13-2379	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	118.01	25.89
			<i>For Work In Restricted Working Space, Add</i>	19.42	
26 05 33	13-2380	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	127.67	29.59
			<i>For Work In Restricted Working Space, Add</i>	22.19	
26 05 33	13-2381	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	133.29	31.44
			<i>For Work In Restricted Working Space, Add</i>	23.58	
26 05 33	13-2382	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	147.56	33.29
			<i>For Work In Restricted Working Space, Add</i>	24.97	
26 05 33	13-2383	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	165.06	35.14
			<i>For Work In Restricted Working Space, Add</i>	26.36	
26 05 33	13-2384	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	185.12	36.99
			<i>For Work In Restricted Working Space, Add</i>	27.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2385 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	201.35 29.13	38.84
26 05 33 13-2386 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	217.56 30.52	40.69
26 05 33 13-2387 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	251.25 31.91	42.53
26 05 33 13-2388 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	292.10 33.29	44.39
26 05 33 13-2389 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters <small>(26 05 33 13-2297)</small>		
26 05 33 13-2390 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	125.76 3.89	5.18
26 05 33 13-2391 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	140.12 4.44	5.92
26 05 33 13-2392 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	145.81 4.99	6.66
26 05 33 13-2393 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	151.68 5.55	7.39
26 05 33 13-2394 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	155.59 6.10	8.14
26 05 33 13-2395 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	170.32 6.66	8.88
26 05 33 13-2396 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	202.74 7.49	9.99
26 05 33 13-2397 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	240.95 8.32	11.10
26 05 33 13-2398 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	272.23 9.71	12.95
26 05 33 13-2399 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	303.52 11.10	14.80
26 05 33 13-2400 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	374.88 12.48	16.64
26 05 33 13-2401 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial <i>For Work In Restricted Working Space, Add</i>	460.24 13.87	18.50
26 05 33 13-2402 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints <small>(26 05 33 13-2297)</small>		
26 05 33 13-2403 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	117.51 13.87	18.50
26 05 33 13-2404 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	134.69 16.65	22.19
26 05 33 13-2405 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	162.57 19.42	25.89
26 05 33 13-2406 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	205.88 22.19	29.59
26 05 33 13-2407 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	259.43 23.58	31.44
26 05 33 13-2408 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	351.21 24.97	33.29
26 05 33 13-2409 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	509.55 26.36	35.14
26 05 33 13-2410 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	615.38 27.74	36.99
26 05 33 13-2411 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	740.20 29.13	38.84
26 05 33 13-2412 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	865.00 30.52	40.69
26 05 33 13-2413 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	1,013.01 31.91	42.53
26 05 33 13-2414 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial <i>For Work In Restricted Working Space, Add</i>	1,650.19 33.29	44.39
26 05 33 13-2415 Spacers <small>(26 05 33 13-1986)</small> Note: For concrete encasement applications. See CSI section 03 31 13 00-0039 for concrete., 26 05 33 13-1986 for conduit.		
26 05 33 13-2416 EA 1" Base Spacers, Average 4" Wide, Direct Burial	10.56	
26 05 33 13-2417 EA 1" Intermediate Spacers, Average 4" Wide, Direct Burial	11.25	
26 05 33 13-2418 EA 1-1/4" Base Spacer, Average 4" Wide, Direct Burial	12.48	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2419	EA	1-1/4" Intermediate Spacers, Average 4" Wide, Direct Burial	13.32	
26 05 33	13-2420	EA	1-1/2" Base Spacer, Average 4" Wide, Direct Burial	12.65	
26 05 33	13-2421	EA	1-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	13.44	
26 05 33	13-2422	EA	2" Base Spacer, Average 4" Wide, Direct Burial	15.49	
26 05 33	13-2423	EA	2" Intermediate Spacers, Average 4" Wide, Direct Burial	14.38	
26 05 33	13-2424	EA	2-1/2" Base Spacer, Average 4" Wide, Direct Burial	17.06	
26 05 33	13-2425	EA	2-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	16.53	
26 05 33	13-2426	EA	3" Base Spacer, Average 4" Wide, Direct Burial	19.40	
26 05 33	13-2427	EA	3" Intermediate Spacers, Average 4" Wide, Direct Burial	18.63	
26 05 33	13-2428	EA	3-1/2" Base Spacer, Average 4" Wide, Direct Burial	21.03	
26 05 33	13-2429	EA	3-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	20.17	
26 05 33	13-2430	EA	4" Base Spacer, Average 4" Wide, Direct Burial	21.73	
26 05 33	13-2431	EA	4" Intermediate Spacers, Average 4" Wide, Direct Burial	20.73	
26 05 33	13-2432	EA	5" Base Spacer, Average 4" Wide, Direct Burial	24.06	
26 05 33	13-2433	EA	5" Intermediate Spacers, Average 4" Wide, Direct Burial	22.87	
26 05 33	13-2434	EA	6" Base Spacer, Average 4" Wide, Direct Burial	27.79	
26 05 33	13-2435	EA	6" Intermediate Spacers, Average 4" Wide, Direct Burial	26.76	
26 05 33	13-2436		Conduit Field Bending (26 05 33 13-0057)		
26 05 33	13-2437		Metallic Conduit Field Bending (26 05 33 13-2436)		
			Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT), Intermediate Metal Conduit (IMC) and aluminum conduits.		
26 05 33	13-2438	EA	1-1/4" Metallic Conduit Field Bending	16.73	
26 05 33	13-2439	EA	1-1/2" Metallic Conduit Field Bending	22.31	
26 05 33	13-2440	EA	2" Metallic Conduit Field Bending	27.89	
26 05 33	13-2441	EA	2-1/2" Metallic Conduit Field Bending	39.04	
26 05 33	13-2442	EA	3" Metallic Conduit Field Bending	50.20	
26 05 33	13-2443	EA	3-1/2" Metallic Conduit Field Bending	61.35	
26 05 33	13-2444	EA	4" Metallic Conduit Field Bending	72.51	
26 05 33	13-2445	EA	5" Metallic Conduit Field Bending	89.24	
26 05 33	13-2446	EA	6" Metallic Conduit Field Bending	105.98	
26 05 33	13-2447		Plastic Conduit Field Bending (26 05 33 13-2436)		
			Note: For PVC conduits.		
26 05 33	13-2448	EA	1" Plastic Conduit Field Bending	25.65	
26 05 33	13-2449	EA	1-1/4" Plastic Conduit Field Bending	27.89	
26 05 33	13-2450	EA	1-1/2" Plastic Conduit Field Bending	33.47	
26 05 33	13-2451	EA	2" Plastic Conduit Field Bending	44.62	
26 05 33	13-2452	EA	2-1/2" Plastic Conduit Field Bending	55.78	
26 05 33	13-2453	EA	3" Plastic Conduit Field Bending	66.93	
26 05 33	13-2454	EA	3-1/2" Plastic Conduit Field Bending	78.09	
26 05 33	13-2455	EA	4" Plastic Conduit Field Bending	89.24	
26 05 33	13-2456	EA	5" Plastic Conduit Field Bending	100.40	
26 05 33	13-2457	EA	6" Plastic Conduit Field Bending	111.55	
26 05 33	13-2458		Cut And Thread Existing In-Place Threaded Conduit (26 05 33 13-0057)		
			Note: For use when connecting conduit to an existing in-place system.		
26 05 33	13-2459	EA	1/2", Cut And Thread Existing In-Place Threaded Conduit	32.57	
			<i>For Work In Restricted Working Space, Add</i>	9.77	
26 05 33	13-2460	EA	3/4", Cut And Thread Existing In-Place Threaded Conduit	35.83	
			<i>For Work In Restricted Working Space, Add</i>	10.75	
26 05 33	13-2461	EA	1", Cut And Thread Existing In-Place Threaded Conduit	39.09	
			<i>For Work In Restricted Working Space, Add</i>	11.73	
26 05 33	13-2462	EA	1-1/4", Cut And Thread Existing In-Place Threaded Conduit	42.34	
			<i>For Work In Restricted Working Space, Add</i>	12.70	
26 05 33	13-2463	EA	1-1/2", Cut And Thread Existing In-Place Threaded Conduit	44.51	
			<i>For Work In Restricted Working Space, Add</i>	13.35	
26 05 33	13-2464	EA	2", Cut And Thread Existing In-Place Threaded Conduit	46.69	
			<i>For Work In Restricted Working Space, Add</i>	14.01	
26 05 33	13-2465	EA	2-1/2", Cut And Thread Existing In-Place Threaded Conduit	48.86	
			<i>For Work In Restricted Working Space, Add</i>	14.66	
26 05 33	13-2466	EA	3", Cut And Thread Existing In-Place Threaded Conduit	51.03	
			<i>For Work In Restricted Working Space, Add</i>	15.31	
26 05 33	13-2467	EA	3-1/2", Cut And Thread Existing In-Place Threaded Conduit	52.11	
			<i>For Work In Restricted Working Space, Add</i>	15.63	
26 05 33	13-2468	EA	4", Cut And Thread Existing In-Place Threaded Conduit	53.20	
			<i>For Work In Restricted Working Space, Add</i>	15.96	
26 05 33	13-2469	EA	5", Cut And Thread Existing In-Place Threaded Conduit	55.37	
			<i>For Work In Restricted Working Space, Add</i>	16.61	
26 05 33	13-2470	EA	6", Cut And Thread Existing In-Place Threaded Conduit	57.55	
			<i>For Work In Restricted Working Space, Add</i>	17.27	
26 05 33	13-2471		Metallic Conduit Bodies (26 05 33 13-0057)		
26 05 33	13-2472		Threaded, Cast Aluminum Conduit Body (26 05 33 13-2471)		
			Note: For use with Rigid Galvanized Steel (RGS), Galvanized Rigid Steel Conduit (GRC), Intermediate Metal Conduit (IMC), or Aluminum Rigid Conduit (ARC)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2473 Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2472)</small>		
26 05 33 13-2474 EA 1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	57.43	19.01
For Mogul LB, Add	5.05	
For Work In Restricted Working Space, Add	14.26	
For Elevated Installation >10' To 15', Add	4.75	
For Elevated Installation >15' To 20', Add	9.51	
For Elevated Installation >20' To 25', Add	11.88	
For Elevated Installation >25' To 30', Add	16.64	
For Elevated Installation >30' To 35', Add	19.01	
For Elevated Installation >35' To 40', Add	23.77	
For Elevated Installation >40', Add	26.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.26	
26 05 33 13-2475 EA 3/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	67.89	21.78
For Mogul LB, Add	7.36	
For Work In Restricted Working Space, Add	16.34	
For Elevated Installation >10' To 15', Add	5.45	
For Elevated Installation >15' To 20', Add	10.89	
For Elevated Installation >20' To 25', Add	13.61	
For Elevated Installation >25' To 30', Add	19.06	
For Elevated Installation >30' To 35', Add	21.78	
For Elevated Installation >35' To 40', Add	27.23	
For Elevated Installation >40', Add	29.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.34	
26 05 33 13-2476 EA 1" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	82.50	25.34
For Mogul LB, Add	11.19	
For Work In Restricted Working Space, Add	19.01	
For Elevated Installation >10' To 15', Add	6.34	
For Elevated Installation >15' To 20', Add	12.67	
For Elevated Installation >20' To 25', Add	15.84	
For Elevated Installation >25' To 30', Add	22.18	
For Elevated Installation >30' To 35', Add	25.34	
For Elevated Installation >35' To 40', Add	31.68	
For Elevated Installation >40', Add	34.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.01	
26 05 33 13-2477 EA 1-1/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	100.86	28.91
For Mogul LB, Add	17.82	
For Work In Restricted Working Space, Add	21.68	
For Elevated Installation >10' To 15', Add	7.23	
For Elevated Installation >15' To 20', Add	14.46	
For Elevated Installation >20' To 25', Add	18.07	
For Elevated Installation >25' To 30', Add	25.30	
For Elevated Installation >30' To 35', Add	28.91	
For Elevated Installation >35' To 40', Add	36.14	
For Elevated Installation >40', Add	39.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.68	
26 05 33 13-2478 EA 1-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	116.07	31.68
For Mogul LB, Add	23.69	
For Work In Restricted Working Space, Add	23.76	
For Elevated Installation >10' To 15', Add	7.92	
For Elevated Installation >15' To 20', Add	15.84	
For Elevated Installation >20' To 25', Add	19.80	
For Elevated Installation >25' To 30', Add	27.72	
For Elevated Installation >30' To 35', Add	31.68	
For Elevated Installation >35' To 40', Add	39.60	
For Elevated Installation >40', Add	43.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.76	
26 05 33 13-2479 EA 2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	154.60	38.02
For Mogul LB, Add	39.92	
For Work In Restricted Working Space, Add	28.51	
For Elevated Installation >10' To 15', Add	9.50	
For Elevated Installation >15' To 20', Add	19.01	
For Elevated Installation >20' To 25', Add	23.76	
For Elevated Installation >25' To 30', Add	33.26	
For Elevated Installation >30' To 35', Add	38.02	
For Elevated Installation >35' To 40', Add	47.52	
For Elevated Installation >40', Add	52.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.51	
26 05 33 13-2480 EA 2-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	265.48	53.46
For Mogul LB, Add	92.18	
For Work In Restricted Working Space, Add	40.10	
For Elevated Installation >10' To 15', Add	13.37	
For Elevated Installation >15' To 20', Add	26.73	
For Elevated Installation >20' To 25', Add	33.42	
For Elevated Installation >25' To 30', Add	46.78	
For Elevated Installation >30' To 35', Add	53.46	
For Elevated Installation >35' To 40', Add	66.83	
For Elevated Installation >40', Add	73.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.10	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2481	EA		3" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	348.41	71.28
			<i>For Mogul LB, Add</i>	118.74	
			<i>For Work In Restricted Working Space, Add</i>	53.46	
			<i>For Elevated Installation >10' To 15', Add</i>	17.82	
			<i>For Elevated Installation >15' To 20', Add</i>	35.64	
			<i>For Elevated Installation >20' To 25', Add</i>	44.55	
			<i>For Elevated Installation >25' To 30', Add</i>	62.37	
			<i>For Elevated Installation >30' To 35', Add</i>	71.28	
			<i>For Elevated Installation >35' To 40', Add</i>	89.11	
			<i>For Elevated Installation >40', Add</i>	98.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.46	
26 05 33 13-2482	EA		3-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	466.17	89.10
			<i>For Mogul LB, Add</i>	171.42	
			<i>For Work In Restricted Working Space, Add</i>	66.83	
			<i>For Elevated Installation >10' To 15', Add</i>	22.28	
			<i>For Elevated Installation >15' To 20', Add</i>	44.55	
			<i>For Elevated Installation >20' To 25', Add</i>	55.69	
			<i>For Elevated Installation >25' To 30', Add</i>	77.97	
			<i>For Elevated Installation >30' To 35', Add</i>	89.10	
			<i>For Elevated Installation >35' To 40', Add</i>	111.38	
			<i>For Elevated Installation >40', Add</i>	122.52	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.83	
26 05 33 13-2483	EA		4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	609.51	108.51
			<i>For Mogul LB, Add</i>	240.12	
			<i>For Work In Restricted Working Space, Add</i>	81.38	
			<i>For Elevated Installation >10' To 15', Add</i>	27.13	
			<i>For Elevated Installation >15' To 20', Add</i>	54.25	
			<i>For Elevated Installation >20' To 25', Add</i>	67.82	
			<i>For Elevated Installation >25' To 30', Add</i>	94.94	
			<i>For Elevated Installation >30' To 35', Add</i>	108.51	
			<i>For Elevated Installation >35' To 40', Add</i>	135.64	
			<i>For Elevated Installation >40', Add</i>	149.20	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.38	
26 05 33 13-2484 Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover					
<small>(26 05 33 13-2472)</small>					
26 05 33 13-2485	EA		1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	58.64	19.01
			<i>For Mogul LB, Add</i>	5.96	
			<i>For Work In Restricted Working Space, Add</i>	14.26	
			<i>For Elevated Installation >10' To 15', Add</i>	4.75	
			<i>For Elevated Installation >15' To 20', Add</i>	9.51	
			<i>For Elevated Installation >20' To 25', Add</i>	11.88	
			<i>For Elevated Installation >25' To 30', Add</i>	16.64	
			<i>For Elevated Installation >30' To 35', Add</i>	19.01	
			<i>For Elevated Installation >35' To 40', Add</i>	23.77	
			<i>For Elevated Installation >40', Add</i>	26.14	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.26	
26 05 33 13-2486	EA		3/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	69.07	21.78
			<i>For Mogul LB, Add</i>	8.24	
			<i>For Work In Restricted Working Space, Add</i>	16.34	
			<i>For Elevated Installation >10' To 15', Add</i>	5.45	
			<i>For Elevated Installation >15' To 20', Add</i>	10.89	
			<i>For Elevated Installation >20' To 25', Add</i>	13.61	
			<i>For Elevated Installation >25' To 30', Add</i>	19.06	
			<i>For Elevated Installation >30' To 35', Add</i>	21.78	
			<i>For Elevated Installation >35' To 40', Add</i>	27.23	
			<i>For Elevated Installation >40', Add</i>	29.95	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.34	
26 05 33 13-2487	EA		1" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	84.87	25.34
			<i>For Mogul LB, Add</i>	12.96	
			<i>For Work In Restricted Working Space, Add</i>	19.01	
			<i>For Elevated Installation >10' To 15', Add</i>	6.34	
			<i>For Elevated Installation >15' To 20', Add</i>	12.67	
			<i>For Elevated Installation >20' To 25', Add</i>	15.84	
			<i>For Elevated Installation >25' To 30', Add</i>	22.18	
			<i>For Elevated Installation >30' To 35', Add</i>	25.34	
			<i>For Elevated Installation >35' To 40', Add</i>	31.68	
			<i>For Elevated Installation >40', Add</i>	34.85	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.01	
26 05 33 13-2488	EA		1-1/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	103.75	28.91
			<i>For Mogul LB, Add</i>	19.99	
			<i>For Work In Restricted Working Space, Add</i>	21.68	
			<i>For Elevated Installation >10' To 15', Add</i>	7.23	
			<i>For Elevated Installation >15' To 20', Add</i>	14.46	
			<i>For Elevated Installation >20' To 25', Add</i>	18.07	
			<i>For Elevated Installation >25' To 30', Add</i>	25.30	
			<i>For Elevated Installation >30' To 35', Add</i>	28.91	
			<i>For Elevated Installation >35' To 40', Add</i>	36.14	
			<i>For Elevated Installation >40', Add</i>	39.75	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2489 EA 1-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	120.98	31.68
For Mogul LB, Add	27.38	
For Work In Restricted Working Space, Add	23.76	
For Elevated Installation >10' To 15', Add	7.92	
For Elevated Installation >15' To 20', Add	15.84	
For Elevated Installation >20' To 25', Add	19.80	
For Elevated Installation >25' To 30', Add	27.72	
For Elevated Installation >30' To 35', Add	31.68	
For Elevated Installation >35' To 40', Add	39.60	
For Elevated Installation >40', Add	43.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.76	
26 05 33 13-2490 EA 2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	165.13	38.02
For Mogul LB, Add	47.82	
For Work In Restricted Working Space, Add	28.51	
For Elevated Installation >10' To 15', Add	9.50	
For Elevated Installation >15' To 20', Add	19.01	
For Elevated Installation >20' To 25', Add	23.76	
For Elevated Installation >25' To 30', Add	33.26	
For Elevated Installation >30' To 35', Add	38.02	
For Elevated Installation >35' To 40', Add	47.52	
For Elevated Installation >40', Add	52.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.51	
26 05 33 13-2491 EA 2-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	260.17	53.46
For Mogul LB, Add	88.20	
For Work In Restricted Working Space, Add	40.10	
For Elevated Installation >10' To 15', Add	13.37	
For Elevated Installation >15' To 20', Add	26.73	
For Elevated Installation >20' To 25', Add	33.42	
For Elevated Installation >25' To 30', Add	46.78	
For Elevated Installation >30' To 35', Add	53.46	
For Elevated Installation >35' To 40', Add	66.83	
For Elevated Installation >40', Add	73.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.10	
26 05 33 13-2492 EA 3" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	330.54	71.28
For Mogul LB, Add	105.34	
For Work In Restricted Working Space, Add	53.46	
For Elevated Installation >10' To 15', Add	17.82	
For Elevated Installation >15' To 20', Add	35.64	
For Elevated Installation >20' To 25', Add	44.55	
For Elevated Installation >25' To 30', Add	62.37	
For Elevated Installation >30' To 35', Add	71.28	
For Elevated Installation >35' To 40', Add	89.11	
For Elevated Installation >40', Add	98.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.46	
26 05 33 13-2493 EA 3-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	481.40	89.10
For Mogul LB, Add	182.84	
For Work In Restricted Working Space, Add	66.83	
For Elevated Installation >10' To 15', Add	22.28	
For Elevated Installation >15' To 20', Add	44.55	
For Elevated Installation >20' To 25', Add	55.69	
For Elevated Installation >25' To 30', Add	77.97	
For Elevated Installation >30' To 35', Add	89.10	
For Elevated Installation >35' To 40', Add	111.38	
For Elevated Installation >40', Add	122.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.83	
26 05 33 13-2494 EA 4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	640.63	108.51
For Mogul LB, Add	263.46	
For Work In Restricted Working Space, Add	81.38	
For Elevated Installation >10' To 15', Add	27.13	
For Elevated Installation >15' To 20', Add	54.25	
For Elevated Installation >20' To 25', Add	67.82	
For Elevated Installation >25' To 30', Add	94.94	
For Elevated Installation >30' To 35', Add	108.51	
For Elevated Installation >35' To 40', Add	135.64	
For Elevated Installation >40', Add	149.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.38	
26 05 33 13-2495 Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover ^(26 05 33 13-2472)		
26 05 33 13-2496 EA 1 1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	67.58	21.78
For Work In Restricted Working Space, Add	16.34	
For Elevated Installation >10' To 15', Add	5.45	
For Elevated Installation >15' To 20', Add	10.89	
For Elevated Installation >20' To 25', Add	13.61	
For Elevated Installation >25' To 30', Add	19.06	
For Elevated Installation >30' To 35', Add	21.78	
For Elevated Installation >35' To 40', Add	27.23	
For Elevated Installation >40', Add	29.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.34	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2497	EA		3/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	80.26	25.34
			<i>For Work In Restricted Working Space, Add</i>	19.01	
			<i>For Elevated Installation >10' To 15', Add</i>	6.34	
			<i>For Elevated Installation >15' To 20', Add</i>	12.67	
			<i>For Elevated Installation >20' To 25', Add</i>	15.84	
			<i>For Elevated Installation >25' To 30', Add</i>	22.18	
			<i>For Elevated Installation >30' To 35', Add</i>	25.34	
			<i>For Elevated Installation >35' To 40', Add</i>	31.68	
			<i>For Elevated Installation >40', Add</i>	34.85	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.01	
26 05 33 13-2498	EA		1" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	93.23	27.72
			<i>For Work In Restricted Working Space, Add</i>	20.79	
			<i>For Elevated Installation >10' To 15', Add</i>	6.93	
			<i>For Elevated Installation >15' To 20', Add</i>	13.86	
			<i>For Elevated Installation >20' To 25', Add</i>	17.33	
			<i>For Elevated Installation >25' To 30', Add</i>	24.26	
			<i>For Elevated Installation >30' To 35', Add</i>	27.72	
			<i>For Elevated Installation >35' To 40', Add</i>	34.66	
			<i>For Elevated Installation >40', Add</i>	38.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 05 33 13-2499	EA		1-1/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	115.46	31.68
			<i>For Work In Restricted Working Space, Add</i>	23.76	
			<i>For Elevated Installation >10' To 15', Add</i>	7.92	
			<i>For Elevated Installation >15' To 20', Add</i>	15.84	
			<i>For Elevated Installation >20' To 25', Add</i>	19.80	
			<i>For Elevated Installation >25' To 30', Add</i>	27.72	
			<i>For Elevated Installation >30' To 35', Add</i>	31.68	
			<i>For Elevated Installation >35' To 40', Add</i>	39.60	
			<i>For Elevated Installation >40', Add</i>	43.56	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.76	
26 05 33 13-2500	EA		1-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	134.25	34.85
			<i>For Work In Restricted Working Space, Add</i>	26.14	
			<i>For Elevated Installation >10' To 15', Add</i>	8.71	
			<i>For Elevated Installation >15' To 20', Add</i>	17.43	
			<i>For Elevated Installation >20' To 25', Add</i>	21.78	
			<i>For Elevated Installation >25' To 30', Add</i>	30.50	
			<i>For Elevated Installation >30' To 35', Add</i>	34.85	
			<i>For Elevated Installation >35' To 40', Add</i>	43.57	
			<i>For Elevated Installation >40', Add</i>	47.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.14	
26 05 33 13-2501	EA		2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	182.57	40.79
			<i>For Work In Restricted Working Space, Add</i>	30.59	
			<i>For Elevated Installation >10' To 15', Add</i>	10.20	
			<i>For Elevated Installation >15' To 20', Add</i>	20.40	
			<i>For Elevated Installation >20' To 25', Add</i>	25.50	
			<i>For Elevated Installation >25' To 30', Add</i>	35.69	
			<i>For Elevated Installation >30' To 35', Add</i>	40.79	
			<i>For Elevated Installation >35' To 40', Add</i>	50.99	
			<i>For Elevated Installation >40', Add</i>	56.09	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.59	
26 05 33 13-2502	EA		2-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	290.91	59.40
			<i>For Work In Restricted Working Space, Add</i>	44.55	
			<i>For Elevated Installation >10' To 15', Add</i>	14.85	
			<i>For Elevated Installation >15' To 20', Add</i>	29.70	
			<i>For Elevated Installation >20' To 25', Add</i>	37.13	
			<i>For Elevated Installation >25' To 30', Add</i>	51.98	
			<i>For Elevated Installation >30' To 35', Add</i>	59.40	
			<i>For Elevated Installation >35' To 40', Add</i>	74.26	
			<i>For Elevated Installation >40', Add</i>	81.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.55	
26 05 33 13-2503	EA		3" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	375.61	77.22
			<i>For Work In Restricted Working Space, Add</i>	57.92	
			<i>For Elevated Installation >10' To 15', Add</i>	19.31	
			<i>For Elevated Installation >15' To 20', Add</i>	38.61	
			<i>For Elevated Installation >20' To 25', Add</i>	48.27	
			<i>For Elevated Installation >25' To 30', Add</i>	67.57	
			<i>For Elevated Installation >30' To 35', Add</i>	77.22	
			<i>For Elevated Installation >35' To 40', Add</i>	96.53	
			<i>For Elevated Installation >40', Add</i>	106.18	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.92	
26 05 33 13-2504	EA		3-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	616.76	95.04
			<i>For Work In Restricted Working Space, Add</i>	71.28	
			<i>For Elevated Installation >10' To 15', Add</i>	23.76	
			<i>For Elevated Installation >15' To 20', Add</i>	47.52	
			<i>For Elevated Installation >20' To 25', Add</i>	59.40	
			<i>For Elevated Installation >25' To 30', Add</i>	83.16	
			<i>For Elevated Installation >30' To 35', Add</i>	95.04	
			<i>For Elevated Installation >35' To 40', Add</i>	118.81	
			<i>For Elevated Installation >40', Add</i>	130.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2505 EA 4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	703.58	114.45
<i>For Work In Restricted Working Space, Add</i>	85.84	
<i>For Elevated Installation >10' To 15', Add</i>	28.61	
<i>For Elevated Installation >15' To 20', Add</i>	57.22	
<i>For Elevated Installation >20' To 25', Add</i>	71.53	
<i>For Elevated Installation >25' To 30', Add</i>	100.14	
<i>For Elevated Installation >30' To 35', Add</i>	114.45	
<i>For Elevated Installation >35' To 40', Add</i>	143.06	
<i>For Elevated Installation >40', Add</i>	157.37	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.84	
26 05 33 13-2506 Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2472)</small>		
26 05 33 13-2507 EA 1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	58.88	19.01
<i>For Work In Restricted Working Space, Add</i>	14.26	
<i>For Elevated Installation >10' To 15', Add</i>	4.75	
<i>For Elevated Installation >15' To 20', Add</i>	9.51	
<i>For Elevated Installation >20' To 25', Add</i>	11.88	
<i>For Elevated Installation >25' To 30', Add</i>	16.64	
<i>For Elevated Installation >30' To 35', Add</i>	19.01	
<i>For Elevated Installation >35' To 40', Add</i>	23.77	
<i>For Elevated Installation >40', Add</i>	26.14	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.26	
26 05 33 13-2508 EA 3/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	68.24	21.78
<i>For Work In Restricted Working Space, Add</i>	16.34	
<i>For Elevated Installation >10' To 15', Add</i>	5.45	
<i>For Elevated Installation >15' To 20', Add</i>	10.89	
<i>For Elevated Installation >20' To 25', Add</i>	13.61	
<i>For Elevated Installation >25' To 30', Add</i>	19.06	
<i>For Elevated Installation >30' To 35', Add</i>	21.78	
<i>For Elevated Installation >35' To 40', Add</i>	27.23	
<i>For Elevated Installation >40', Add</i>	29.95	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.34	
26 05 33 13-2509 EA 1" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	82.93	24.95
<i>For Work In Restricted Working Space, Add</i>	18.71	
<i>For Elevated Installation >10' To 15', Add</i>	6.24	
<i>For Elevated Installation >15' To 20', Add</i>	12.48	
<i>For Elevated Installation >20' To 25', Add</i>	15.60	
<i>For Elevated Installation >25' To 30', Add</i>	21.83	
<i>For Elevated Installation >30' To 35', Add</i>	24.95	
<i>For Elevated Installation >35' To 40', Add</i>	31.19	
<i>For Elevated Installation >40', Add</i>	34.31	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.71	
26 05 33 13-2510 EA 1-1/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	102.60	28.91
<i>For Work In Restricted Working Space, Add</i>	21.68	
<i>For Elevated Installation >10' To 15', Add</i>	7.23	
<i>For Elevated Installation >15' To 20', Add</i>	14.46	
<i>For Elevated Installation >20' To 25', Add</i>	18.07	
<i>For Elevated Installation >25' To 30', Add</i>	25.30	
<i>For Elevated Installation >30' To 35', Add</i>	28.91	
<i>For Elevated Installation >35' To 40', Add</i>	36.14	
<i>For Elevated Installation >40', Add</i>	39.75	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.68	
26 05 33 13-2511 EA 1-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	115.27	31.68
<i>For Work In Restricted Working Space, Add</i>	23.76	
<i>For Elevated Installation >10' To 15', Add</i>	7.92	
<i>For Elevated Installation >15' To 20', Add</i>	15.84	
<i>For Elevated Installation >20' To 25', Add</i>	19.80	
<i>For Elevated Installation >25' To 30', Add</i>	27.72	
<i>For Elevated Installation >30' To 35', Add</i>	31.68	
<i>For Elevated Installation >35' To 40', Add</i>	39.60	
<i>For Elevated Installation >40', Add</i>	43.56	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.76	
26 05 33 13-2512 EA 2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	154.68	38.02
<i>For Work In Restricted Working Space, Add</i>	28.51	
<i>For Elevated Installation >10' To 15', Add</i>	9.50	
<i>For Elevated Installation >15' To 20', Add</i>	19.01	
<i>For Elevated Installation >20' To 25', Add</i>	23.76	
<i>For Elevated Installation >25' To 30', Add</i>	33.26	
<i>For Elevated Installation >30' To 35', Add</i>	38.02	
<i>For Elevated Installation >35' To 40', Add</i>	47.52	
<i>For Elevated Installation >40', Add</i>	52.27	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.51	
26 05 33 13-2513 EA 2-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	255.69	53.46
<i>For Work In Restricted Working Space, Add</i>	40.10	
<i>For Elevated Installation >10' To 15', Add</i>	13.37	
<i>For Elevated Installation >15' To 20', Add</i>	26.73	
<i>For Elevated Installation >20' To 25', Add</i>	33.42	
<i>For Elevated Installation >25' To 30', Add</i>	46.78	
<i>For Elevated Installation >30' To 35', Add</i>	53.46	
<i>For Elevated Installation >35' To 40', Add</i>	66.83	
<i>For Elevated Installation >40', Add</i>	73.51	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.10	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2514	EA		3" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....327.69		71.28
			<i>For Work In Restricted Working Space, Add</i>	53.46	
			<i>For Elevated Installation >10' To 15', Add</i>	17.82	
			<i>For Elevated Installation >15' To 20', Add</i>	35.64	
			<i>For Elevated Installation >20' To 25', Add</i>	44.55	
			<i>For Elevated Installation >25' To 30', Add</i>	62.37	
			<i>For Elevated Installation >30' To 35', Add</i>	71.28	
			<i>For Elevated Installation >35' To 40', Add</i>	89.11	
			<i>For Elevated Installation >40', Add</i>	98.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.46	
26 05 33 13-2515	EA		3-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....472.24		89.10
			<i>For Work In Restricted Working Space, Add</i>	66.83	
			<i>For Elevated Installation >10' To 15', Add</i>	22.28	
			<i>For Elevated Installation >15' To 20', Add</i>	44.55	
			<i>For Elevated Installation >20' To 25', Add</i>	55.69	
			<i>For Elevated Installation >25' To 30', Add</i>	77.97	
			<i>For Elevated Installation >30' To 35', Add</i>	89.10	
			<i>For Elevated Installation >35' To 40', Add</i>	111.38	
			<i>For Elevated Installation >40', Add</i>	122.52	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.83	
26 05 33 13-2516	EA		4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....612.37		108.51
			<i>For Work In Restricted Working Space, Add</i>	81.38	
			<i>For Elevated Installation >10' To 15', Add</i>	27.13	
			<i>For Elevated Installation >15' To 20', Add</i>	54.25	
			<i>For Elevated Installation >20' To 25', Add</i>	67.82	
			<i>For Elevated Installation >25' To 30', Add</i>	94.94	
			<i>For Elevated Installation >30' To 35', Add</i>	108.51	
			<i>For Elevated Installation >35' To 40', Add</i>	135.64	
			<i>For Elevated Installation >40', Add</i>	149.20	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.38	
26 05 33 13-2517			Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2472)</small>		
26 05 33 13-2518	EA		1-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....78.49		24.95
			<i>For Work In Restricted Working Space, Add</i>	18.71	
			<i>For Elevated Installation >10' To 15', Add</i>	6.24	
			<i>For Elevated Installation >15' To 20', Add</i>	12.48	
			<i>For Elevated Installation >20' To 25', Add</i>	15.60	
			<i>For Elevated Installation >25' To 30', Add</i>	21.83	
			<i>For Elevated Installation >30' To 35', Add</i>	24.95	
			<i>For Elevated Installation >35' To 40', Add</i>	31.19	
			<i>For Elevated Installation >40', Add</i>	34.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.71	
26 05 33 13-2519	EA		3/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....91.10		27.72
			<i>For Work In Restricted Working Space, Add</i>	20.79	
			<i>For Elevated Installation >10' To 15', Add</i>	6.93	
			<i>For Elevated Installation >15' To 20', Add</i>	13.86	
			<i>For Elevated Installation >20' To 25', Add</i>	17.33	
			<i>For Elevated Installation >25' To 30', Add</i>	24.26	
			<i>For Elevated Installation >30' To 35', Add</i>	27.72	
			<i>For Elevated Installation >35' To 40', Add</i>	34.66	
			<i>For Elevated Installation >40', Add</i>	38.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 05 33 13-2520	EA		1" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....113.11		30.50
			<i>For Work In Restricted Working Space, Add</i>	22.87	
			<i>For Elevated Installation >10' To 15', Add</i>	7.62	
			<i>For Elevated Installation >15' To 20', Add</i>	15.25	
			<i>For Elevated Installation >20' To 25', Add</i>	19.06	
			<i>For Elevated Installation >25' To 30', Add</i>	26.68	
			<i>For Elevated Installation >30' To 35', Add</i>	30.50	
			<i>For Elevated Installation >35' To 40', Add</i>	38.12	
			<i>For Elevated Installation >40', Add</i>	41.93	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.87	
26 05 33 13-2521	EA		1-1/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....130.55		34.85
			<i>For Work In Restricted Working Space, Add</i>	26.14	
			<i>For Elevated Installation >10' To 15', Add</i>	8.71	
			<i>For Elevated Installation >15' To 20', Add</i>	17.43	
			<i>For Elevated Installation >20' To 25', Add</i>	21.78	
			<i>For Elevated Installation >25' To 30', Add</i>	30.50	
			<i>For Elevated Installation >30' To 35', Add</i>	34.85	
			<i>For Elevated Installation >35' To 40', Add</i>	43.57	
			<i>For Elevated Installation >40', Add</i>	47.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.14	
26 05 33 13-2522	EA		1-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....171.08		38.02
			<i>For Work In Restricted Working Space, Add</i>	28.51	
			<i>For Elevated Installation >10' To 15', Add</i>	9.50	
			<i>For Elevated Installation >15' To 20', Add</i>	19.01	
			<i>For Elevated Installation >20' To 25', Add</i>	23.76	
			<i>For Elevated Installation >25' To 30', Add</i>	33.26	
			<i>For Elevated Installation >30' To 35', Add</i>	38.02	
			<i>For Elevated Installation >35' To 40', Add</i>	47.52	
			<i>For Elevated Installation >40', Add</i>	52.27	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.51	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2523 EA 2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	206.50	46.73
For Work In Restricted Working Space, Add	35.05	
For Elevated Installation >10' To 15', Add	11.68	
For Elevated Installation >15' To 20', Add	23.36	
For Elevated Installation >20' To 25', Add	29.21	
For Elevated Installation >25' To 30', Add	40.89	
For Elevated Installation >30' To 35', Add	46.73	
For Elevated Installation >35' To 40', Add	58.41	
For Elevated Installation >40', Add	64.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.05	
26 05 33 13-2524 EA 2-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	393.77	68.51
For Work In Restricted Working Space, Add	51.38	
For Elevated Installation >10' To 15', Add	17.13	
For Elevated Installation >15' To 20', Add	34.26	
For Elevated Installation >20' To 25', Add	42.82	
For Elevated Installation >25' To 30', Add	59.95	
For Elevated Installation >30' To 35', Add	68.51	
For Elevated Installation >35' To 40', Add	85.64	
For Elevated Installation >40', Add	94.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.38	
26 05 33 13-2525 EA 3" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	483.41	89.10
For Work In Restricted Working Space, Add	66.83	
For Elevated Installation >10' To 15', Add	22.28	
For Elevated Installation >15' To 20', Add	44.55	
For Elevated Installation >20' To 25', Add	55.69	
For Elevated Installation >25' To 30', Add	77.97	
For Elevated Installation >30' To 35', Add	89.10	
For Elevated Installation >35' To 40', Add	111.38	
For Elevated Installation >40', Add	122.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.83	
26 05 33 13-2526 EA 3-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	697.59	110.09
For Work In Restricted Working Space, Add	83.17	
For Elevated Installation >10' To 15', Add	27.72	
For Elevated Installation >15' To 20', Add	55.44	
For Elevated Installation >20' To 25', Add	69.31	
For Elevated Installation >25' To 30', Add	97.03	
For Elevated Installation >30' To 35', Add	110.89	
For Elevated Installation >35' To 40', Add	138.61	
For Elevated Installation >40', Add	152.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.17	
26 05 33 13-2527 EA 4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	843.51	132.27
For Work In Restricted Working Space, Add	99.20	
For Elevated Installation >10' To 15', Add	33.07	
For Elevated Installation >15' To 20', Add	66.14	
For Elevated Installation >20' To 25', Add	82.67	
For Elevated Installation >25' To 30', Add	115.74	
For Elevated Installation >30' To 35', Add	132.27	
For Elevated Installation >35' To 40', Add	165.34	
For Elevated Installation >40', Add	181.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	99.20	
26 05 33 13-2528 Threaded, Malleable Iron Conduit Body <small>(26 05 33 13-2471)</small>		
<small>Note: For use with Rigid Galvanized Steel (RGS), Galvanized Rigid Steel Conduit (GRC), or Intermediate Metal Conduit (IMC)</small>		
26 05 33 13-2529 Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2529)</small>		
26 05 33 13-2530 EA 1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	60.80	19.01
For Work In Restricted Working Space, Add	14.26	
For Elevated Installation >10' To 15', Add	4.75	
For Elevated Installation >15' To 20', Add	9.51	
For Elevated Installation >20' To 25', Add	11.88	
For Elevated Installation >25' To 30', Add	16.64	
For Elevated Installation >30' To 35', Add	19.01	
For Elevated Installation >35' To 40', Add	23.77	
For Elevated Installation >40', Add	26.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.26	
26 05 33 13-2531 EA 3/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	70.72	21.78
For Work In Restricted Working Space, Add	16.34	
For Elevated Installation >10' To 15', Add	5.45	
For Elevated Installation >15' To 20', Add	10.89	
For Elevated Installation >20' To 25', Add	13.61	
For Elevated Installation >25' To 30', Add	19.06	
For Elevated Installation >30' To 35', Add	21.78	
For Elevated Installation >35' To 40', Add	27.23	
For Elevated Installation >40', Add	29.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.34	
26 05 33 13-2532 EA 1" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	87.61	25.34
For Work In Restricted Working Space, Add	19.01	
For Elevated Installation >10' To 15', Add	6.34	
For Elevated Installation >15' To 20', Add	12.67	
For Elevated Installation >20' To 25', Add	15.84	
For Elevated Installation >25' To 30', Add	22.18	
For Elevated Installation >30' To 35', Add	25.34	
For Elevated Installation >35' To 40', Add	31.68	
For Elevated Installation >40', Add	34.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.01	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2533 EA 1-1/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	115.78	28.91
For Work In Restricted Working Space, Add	21.68	
For Elevated Installation >10' To 15', Add	7.23	
For Elevated Installation >15' To 20', Add	14.46	
For Elevated Installation >20' To 25', Add	18.07	
For Elevated Installation >25' To 30', Add	25.30	
For Elevated Installation >30' To 35', Add	28.91	
For Elevated Installation >35' To 40', Add	36.14	
For Elevated Installation >40', Add	39.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.68	
26 05 33 13-2534 EA 1-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	132.56	31.68
For Work In Restricted Working Space, Add	23.76	
For Elevated Installation >10' To 15', Add	7.92	
For Elevated Installation >15' To 20', Add	15.84	
For Elevated Installation >20' To 25', Add	19.80	
For Elevated Installation >25' To 30', Add	27.72	
For Elevated Installation >30' To 35', Add	31.68	
For Elevated Installation >35' To 40', Add	39.60	
For Elevated Installation >40', Add	43.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.76	
26 05 33 13-2535 EA 2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	184.35	38.02
For Work In Restricted Working Space, Add	28.52	
For Elevated Installation >10' To 15', Add	9.51	
For Elevated Installation >15' To 20', Add	19.01	
For Elevated Installation >20' To 25', Add	23.76	
For Elevated Installation >25' To 30', Add	33.27	
For Elevated Installation >30' To 35', Add	38.02	
For Elevated Installation >35' To 40', Add	47.53	
For Elevated Installation >40', Add	52.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.52	
26 05 33 13-2536 EA 2-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	316.45	53.46
For Work In Restricted Working Space, Add	40.10	
For Elevated Installation >10' To 15', Add	13.37	
For Elevated Installation >15' To 20', Add	26.73	
For Elevated Installation >20' To 25', Add	33.42	
For Elevated Installation >25' To 30', Add	46.78	
For Elevated Installation >30' To 35', Add	53.46	
For Elevated Installation >35' To 40', Add	66.83	
For Elevated Installation >40', Add	73.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.10	
26 05 33 13-2537 EA 3" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	450.90	71.28
For Work In Restricted Working Space, Add	53.47	
For Elevated Installation >10' To 15', Add	17.82	
For Elevated Installation >15' To 20', Add	35.64	
For Elevated Installation >20' To 25', Add	44.56	
For Elevated Installation >25' To 30', Add	62.38	
For Elevated Installation >30' To 35', Add	71.29	
For Elevated Installation >35' To 40', Add	89.11	
For Elevated Installation >40', Add	98.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.47	
26 05 33 13-2538 EA 3-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	626.46	89.10
For Work In Restricted Working Space, Add	66.83	
For Elevated Installation >10' To 15', Add	22.28	
For Elevated Installation >15' To 20', Add	44.55	
For Elevated Installation >20' To 25', Add	55.69	
For Elevated Installation >25' To 30', Add	77.97	
For Elevated Installation >30' To 35', Add	89.10	
For Elevated Installation >35' To 40', Add	111.38	
For Elevated Installation >40', Add	122.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.83	
26 05 33 13-2539 EA 4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	748.65	108.51
For Work In Restricted Working Space, Add	81.38	
For Elevated Installation >10' To 15', Add	27.13	
For Elevated Installation >15' To 20', Add	54.26	
For Elevated Installation >20' To 25', Add	67.82	
For Elevated Installation >25' To 30', Add	94.95	
For Elevated Installation >30' To 35', Add	108.51	
For Elevated Installation >35' To 40', Add	135.64	
For Elevated Installation >40', Add	149.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.38	
26 05 33 13-2540 Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover		
<small>(26 05 33 13-2528)</small>		
26 05 33 13-2541 EA 1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	63.87	19.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.26	
26 05 33 13-2542 EA 3/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	71.62	21.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.34	
26 05 33 13-2543 EA 1" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	92.30	25.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.01	
26 05 33 13-2544 EA 1-1/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	118.93	28.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.68	
26 05 33 13-2545 EA 1-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	136.41	31.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.76	
26 05 33 13-2546 EA 2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	176.46	38.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2547 EA 2-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	272.62	53.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.10	
26 05 33 13-2548 EA 3" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	372.09	71.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.47	
26 05 33 13-2549 EA 3-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	672.87	89.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.83	
26 05 33 13-2550 EA 4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	782.89	108.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.38	
26 05 33 13-2551 Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2551)</small>		
26 05 33 13-2552 EA 1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	76.36	21.78
<i>For Work In Restricted Working Space, Add</i>	16.34	
<i>For Elevated Installation >10' To 15', Add</i>	5.45	
<i>For Elevated Installation >15' To 20', Add</i>	10.89	
<i>For Elevated Installation >20' To 25', Add</i>	13.61	
<i>For Elevated Installation >25' To 30', Add</i>	19.06	
<i>For Elevated Installation >30' To 35', Add</i>	21.78	
<i>For Elevated Installation >35' To 40', Add</i>	27.23	
<i>For Elevated Installation >40', Add</i>	29.95	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.34	
26 05 33 13-2553 EA 3/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	89.98	25.34
<i>For Work In Restricted Working Space, Add</i>	19.31	
<i>For Elevated Installation >10' To 15', Add</i>	6.44	
<i>For Elevated Installation >15' To 20', Add</i>	12.87	
<i>For Elevated Installation >20' To 25', Add</i>	16.09	
<i>For Elevated Installation >25' To 30', Add</i>	22.52	
<i>For Elevated Installation >30' To 35', Add</i>	25.74	
<i>For Elevated Installation >35' To 40', Add</i>	32.18	
<i>For Elevated Installation >40', Add</i>	35.39	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.31	
26 05 33 13-2554 EA 1" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	108.06	27.72
<i>For Work In Restricted Working Space, Add</i>	20.79	
<i>For Elevated Installation >10' To 15', Add</i>	6.93	
<i>For Elevated Installation >15' To 20', Add</i>	13.86	
<i>For Elevated Installation >20' To 25', Add</i>	17.33	
<i>For Elevated Installation >25' To 30', Add</i>	24.26	
<i>For Elevated Installation >30' To 35', Add</i>	27.72	
<i>For Elevated Installation >35' To 40', Add</i>	34.66	
<i>For Elevated Installation >40', Add</i>	38.12	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 05 33 13-2555 EA 1-1/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	138.26	31.68
<i>For Work In Restricted Working Space, Add</i>	23.46	
<i>For Elevated Installation >10' To 15', Add</i>	7.82	
<i>For Elevated Installation >15' To 20', Add</i>	15.64	
<i>For Elevated Installation >20' To 25', Add</i>	19.55	
<i>For Elevated Installation >25' To 30', Add</i>	27.37	
<i>For Elevated Installation >30' To 35', Add</i>	31.28	
<i>For Elevated Installation >35' To 40', Add</i>	39.11	
<i>For Elevated Installation >40', Add</i>	43.02	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.46	
26 05 33 13-2556 EA 1-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	159.29	34.85
<i>For Work In Restricted Working Space, Add</i>	26.14	
<i>For Elevated Installation >10' To 15', Add</i>	8.71	
<i>For Elevated Installation >15' To 20', Add</i>	17.43	
<i>For Elevated Installation >20' To 25', Add</i>	21.78	
<i>For Elevated Installation >25' To 30', Add</i>	30.50	
<i>For Elevated Installation >30' To 35', Add</i>	34.85	
<i>For Elevated Installation >35' To 40', Add</i>	43.57	
<i>For Elevated Installation >40', Add</i>	47.92	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.14	
26 05 33 13-2557 EA 2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	215.03	40.79
<i>For Work In Restricted Working Space, Add</i>	30.59	
<i>For Elevated Installation >10' To 15', Add</i>	10.20	
<i>For Elevated Installation >15' To 20', Add</i>	20.40	
<i>For Elevated Installation >20' To 25', Add</i>	25.50	
<i>For Elevated Installation >25' To 30', Add</i>	35.69	
<i>For Elevated Installation >30' To 35', Add</i>	40.79	
<i>For Elevated Installation >35' To 40', Add</i>	50.99	
<i>For Elevated Installation >40', Add</i>	56.09	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.59	
26 05 33 13-2558 EA 2-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	267.11	59.40
<i>For Work In Restricted Working Space, Add</i>	44.55	
<i>For Elevated Installation >10' To 15', Add</i>	14.85	
<i>For Elevated Installation >15' To 20', Add</i>	29.70	
<i>For Elevated Installation >20' To 25', Add</i>	37.13	
<i>For Elevated Installation >25' To 30', Add</i>	51.98	
<i>For Elevated Installation >30' To 35', Add</i>	59.40	
<i>For Elevated Installation >35' To 40', Add</i>	74.26	
<i>For Elevated Installation >40', Add</i>	81.68	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.55	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2559	EA		3" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	390.14	77.22
			<i>For Work In Restricted Working Space, Add</i>	57.92	
			<i>For Elevated Installation >10' To 15', Add</i>	19.31	
			<i>For Elevated Installation >15' To 20', Add</i>	38.61	
			<i>For Elevated Installation >20' To 25', Add</i>	48.27	
			<i>For Elevated Installation >25' To 30', Add</i>	67.57	
			<i>For Elevated Installation >30' To 35', Add</i>	77.22	
			<i>For Elevated Installation >35' To 40', Add</i>	96.53	
			<i>For Elevated Installation >40', Add</i>	106.18	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.92	
26 05 33 13-2560	EA		3-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	709.16	95.04
			<i>For Work In Restricted Working Space, Add</i>	71.28	
			<i>For Elevated Installation >10' To 15', Add</i>	23.76	
			<i>For Elevated Installation >15' To 20', Add</i>	47.52	
			<i>For Elevated Installation >20' To 25', Add</i>	59.40	
			<i>For Elevated Installation >25' To 30', Add</i>	83.16	
			<i>For Elevated Installation >30' To 35', Add</i>	95.04	
			<i>For Elevated Installation >35' To 40', Add</i>	118.81	
			<i>For Elevated Installation >40', Add</i>	130.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.28	
26 05 33 13-2561	EA		4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	817.25	114.45
			<i>For Work In Restricted Working Space, Add</i>	86.14	
			<i>For Elevated Installation >10' To 15', Add</i>	28.71	
			<i>For Elevated Installation >15' To 20', Add</i>	57.42	
			<i>For Elevated Installation >20' To 25', Add</i>	71.78	
			<i>For Elevated Installation >25' To 30', Add</i>	100.49	
			<i>For Elevated Installation >30' To 35', Add</i>	114.85	
			<i>For Elevated Installation >35' To 40', Add</i>	143.56	
			<i>For Elevated Installation >40', Add</i>	157.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.14	
26 05 33 13-2562			Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2528)</small>		
26 05 33 13-2563	EA		1 1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	61.03	19.01
			<i>For Work In Restricted Working Space, Add</i>	14.26	
			<i>For Elevated Installation >10' To 15', Add</i>	4.75	
			<i>For Elevated Installation >15' To 20', Add</i>	9.51	
			<i>For Elevated Installation >20' To 25', Add</i>	11.88	
			<i>For Elevated Installation >25' To 30', Add</i>	16.64	
			<i>For Elevated Installation >30' To 35', Add</i>	19.01	
			<i>For Elevated Installation >35' To 40', Add</i>	23.77	
			<i>For Elevated Installation >40', Add</i>	26.14	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.26	
26 05 33 13-2564	EA		3/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	74.69	21.78
			<i>For Work In Restricted Working Space, Add</i>	16.34	
			<i>For Elevated Installation >10' To 15', Add</i>	5.45	
			<i>For Elevated Installation >15' To 20', Add</i>	10.89	
			<i>For Elevated Installation >20' To 25', Add</i>	13.61	
			<i>For Elevated Installation >25' To 30', Add</i>	19.06	
			<i>For Elevated Installation >30' To 35', Add</i>	21.78	
			<i>For Elevated Installation >35' To 40', Add</i>	27.23	
			<i>For Elevated Installation >40', Add</i>	29.95	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.34	
26 05 33 13-2565	EA		1" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	87.73	24.95
			<i>For Work In Restricted Working Space, Add</i>	18.71	
			<i>For Elevated Installation >10' To 15', Add</i>	6.24	
			<i>For Elevated Installation >15' To 20', Add</i>	12.48	
			<i>For Elevated Installation >20' To 25', Add</i>	15.60	
			<i>For Elevated Installation >25' To 30', Add</i>	21.83	
			<i>For Elevated Installation >30' To 35', Add</i>	24.95	
			<i>For Elevated Installation >35' To 40', Add</i>	31.19	
			<i>For Elevated Installation >40', Add</i>	34.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.71	
26 05 33 13-2566	EA		1-1/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	121.57	28.91
			<i>For Work In Restricted Working Space, Add</i>	21.68	
			<i>For Elevated Installation >10' To 15', Add</i>	7.23	
			<i>For Elevated Installation >15' To 20', Add</i>	14.46	
			<i>For Elevated Installation >20' To 25', Add</i>	18.07	
			<i>For Elevated Installation >25' To 30', Add</i>	25.30	
			<i>For Elevated Installation >30' To 35', Add</i>	28.91	
			<i>For Elevated Installation >35' To 40', Add</i>	36.14	
			<i>For Elevated Installation >40', Add</i>	39.75	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.68	
26 05 33 13-2567	EA		1-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	143.41	31.68
			<i>For Work In Restricted Working Space, Add</i>	23.76	
			<i>For Elevated Installation >10' To 15', Add</i>	7.92	
			<i>For Elevated Installation >15' To 20', Add</i>	15.84	
			<i>For Elevated Installation >20' To 25', Add</i>	19.80	
			<i>For Elevated Installation >25' To 30', Add</i>	27.72	
			<i>For Elevated Installation >30' To 35', Add</i>	31.68	
			<i>For Elevated Installation >35' To 40', Add</i>	39.60	
			<i>For Elevated Installation >40', Add</i>	43.56	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2568 EA 2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	187.45	38.02
For Work In Restricted Working Space, Add	28.52	
For Elevated Installation >10' To 15', Add	9.51	
For Elevated Installation >15' To 20', Add	19.01	
For Elevated Installation >20' To 25', Add	23.76	
For Elevated Installation >25' To 30', Add	33.27	
For Elevated Installation >30' To 35', Add	38.02	
For Elevated Installation >35' To 40', Add	47.53	
For Elevated Installation >40', Add	52.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.52	
26 05 33 13-2569 EA 2-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	409.44	100.29
For Work In Restricted Working Space, Add	75.19	
For Elevated Installation >10' To 15', Add	25.06	
For Elevated Installation >15' To 20', Add	50.12	
For Elevated Installation >20' To 25', Add	62.66	
For Elevated Installation >25' To 30', Add	87.72	
For Elevated Installation >30' To 35', Add	100.25	
For Elevated Installation >35' To 40', Add	125.31	
For Elevated Installation >40', Add	137.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.19	
26 05 33 13-2570 EA 3" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	405.19	71.28
For Work In Restricted Working Space, Add	53.47	
For Elevated Installation >10' To 15', Add	17.82	
For Elevated Installation >15' To 20', Add	35.64	
For Elevated Installation >20' To 25', Add	44.56	
For Elevated Installation >25' To 30', Add	62.38	
For Elevated Installation >30' To 35', Add	71.29	
For Elevated Installation >35' To 40', Add	89.11	
For Elevated Installation >40', Add	98.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.47	
26 05 33 13-2571 EA 3-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	672.87	89.10
For Work In Restricted Working Space, Add	66.83	
For Elevated Installation >10' To 15', Add	22.28	
For Elevated Installation >15' To 20', Add	44.55	
For Elevated Installation >20' To 25', Add	55.69	
For Elevated Installation >25' To 30', Add	77.97	
For Elevated Installation >30' To 35', Add	89.10	
For Elevated Installation >35' To 40', Add	111.38	
For Elevated Installation >40', Add	122.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.83	
26 05 33 13-2572 EA 4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	782.87	108.51
For Work In Restricted Working Space, Add	81.38	
For Elevated Installation >10' To 15', Add	27.13	
For Elevated Installation >15' To 20', Add	54.25	
For Elevated Installation >20' To 25', Add	67.82	
For Elevated Installation >25' To 30', Add	94.94	
For Elevated Installation >30' To 35', Add	108.50	
For Elevated Installation >35' To 40', Add	135.63	
For Elevated Installation >40', Add	149.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.38	
26 05 33 13-2573 Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2528)</small>		
26 05 33 13-2574 EA 1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	86.67	24.95
For Work In Restricted Working Space, Add	18.71	
For Elevated Installation >10' To 15', Add	6.24	
For Elevated Installation >15' To 20', Add	12.48	
For Elevated Installation >20' To 25', Add	15.60	
For Elevated Installation >25' To 30', Add	21.83	
For Elevated Installation >30' To 35', Add	24.95	
For Elevated Installation >35' To 40', Add	31.19	
For Elevated Installation >40', Add	34.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.71	
26 05 33 13-2575 EA 3/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	94.51	27.72
For Work In Restricted Working Space, Add	20.79	
For Elevated Installation >10' To 15', Add	6.93	
For Elevated Installation >15' To 20', Add	13.86	
For Elevated Installation >20' To 25', Add	17.33	
For Elevated Installation >25' To 30', Add	24.26	
For Elevated Installation >30' To 35', Add	27.72	
For Elevated Installation >35' To 40', Add	34.66	
For Elevated Installation >40', Add	38.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.79	
26 05 33 13-2576 EA 1" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	110.82	30.50
For Work In Restricted Working Space, Add	22.87	
For Elevated Installation >10' To 15', Add	7.62	
For Elevated Installation >15' To 20', Add	15.25	
For Elevated Installation >20' To 25', Add	19.06	
For Elevated Installation >25' To 30', Add	26.68	
For Elevated Installation >30' To 35', Add	30.50	
For Elevated Installation >35' To 40', Add	38.12	
For Elevated Installation >40', Add	41.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.87	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2577 EA 1-1/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	132.79	34.85
For Work In Restricted Working Space, Add	26.14	
For Elevated Installation >10' To 15', Add	8.71	
For Elevated Installation >15' To 20', Add	17.43	
For Elevated Installation >20' To 25', Add	21.78	
For Elevated Installation >25' To 30', Add	30.50	
For Elevated Installation >30' To 35', Add	34.85	
For Elevated Installation >35' To 40', Add	43.57	
For Elevated Installation >40', Add	47.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.14	
26 05 33 13-2578 EA 1-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	154.61	38.02
For Work In Restricted Working Space, Add	28.51	
For Elevated Installation >10' To 15', Add	9.50	
For Elevated Installation >15' To 20', Add	19.01	
For Elevated Installation >20' To 25', Add	23.76	
For Elevated Installation >25' To 30', Add	33.26	
For Elevated Installation >30' To 35', Add	38.02	
For Elevated Installation >35' To 40', Add	47.52	
For Elevated Installation >40', Add	52.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.51	
26 05 33 13-2579 EA 2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	220.53	46.73
For Work In Restricted Working Space, Add	35.05	
For Elevated Installation >10' To 15', Add	11.68	
For Elevated Installation >15' To 20', Add	23.36	
For Elevated Installation >20' To 25', Add	29.21	
For Elevated Installation >25' To 30', Add	40.89	
For Elevated Installation >30' To 35', Add	46.73	
For Elevated Installation >35' To 40', Add	58.41	
For Elevated Installation >40', Add	64.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.05	
26 05 33 13-2580 EA 2-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	356.44	68.51
For Work In Restricted Working Space, Add	51.38	
For Elevated Installation >10' To 15', Add	17.13	
For Elevated Installation >15' To 20', Add	34.26	
For Elevated Installation >20' To 25', Add	42.82	
For Elevated Installation >25' To 30', Add	59.95	
For Elevated Installation >30' To 35', Add	68.51	
For Elevated Installation >35' To 40', Add	85.64	
For Elevated Installation >40', Add	94.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.38	
26 05 33 13-2581 EA 3" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	530.45	89.10
For Work In Restricted Working Space, Add	66.83	
For Elevated Installation >10' To 15', Add	22.28	
For Elevated Installation >15' To 20', Add	44.55	
For Elevated Installation >20' To 25', Add	55.69	
For Elevated Installation >25' To 30', Add	77.97	
For Elevated Installation >30' To 35', Add	89.10	
For Elevated Installation >35' To 40', Add	111.38	
For Elevated Installation >40', Add	122.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.83	
26 05 33 13-2582 EA 3-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	807.31	110.09
For Work In Restricted Working Space, Add	82.57	
For Elevated Installation >10' To 15', Add	27.52	
For Elevated Installation >15' To 20', Add	55.05	
For Elevated Installation >20' To 25', Add	68.81	
For Elevated Installation >25' To 30', Add	96.33	
For Elevated Installation >30' To 35', Add	110.09	
For Elevated Installation >35' To 40', Add	137.62	
For Elevated Installation >40', Add	151.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.57	
26 05 33 13-2583 EA 4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	895.62	132.27
For Work In Restricted Working Space, Add	99.20	
For Elevated Installation >10' To 15', Add	33.07	
For Elevated Installation >15' To 20', Add	66.14	
For Elevated Installation >20' To 25', Add	82.67	
For Elevated Installation >25' To 30', Add	115.74	
For Elevated Installation >30' To 35', Add	132.27	
For Elevated Installation >35' To 40', Add	165.34	
For Elevated Installation >40', Add	181.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	99.20	
26 05 33 13-2584 Set Screw, Cast Aluminum Conduit Body (26 05 33 13-2471)		
Note: For use with Electrical Metallic Tubing (EMT)		
26 05 33 13-2585 Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2584)		
26 05 33 13-2586 EA 1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	30.33	7.52
For Work In Restricted Working Space, Add	5.64	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.76	
For Elevated Installation >20' To 25', Add	4.70	
For Elevated Installation >25' To 30', Add	6.58	
For Elevated Installation >30' To 35', Add	7.52	
For Elevated Installation >35' To 40', Add	9.41	
For Elevated Installation >40', Add	10.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2587 EA 3/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	38.60	9.90
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15', Add	2.48	
For Elevated Installation >15' To 20', Add	4.95	
For Elevated Installation >20' To 25', Add	6.19	
For Elevated Installation >25' To 30', Add	8.66	
For Elevated Installation >30' To 35', Add	9.90	
For Elevated Installation >35' To 40', Add	12.38	
For Elevated Installation >40', Add	13.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	
26 05 33 13-2588 EA 1" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	53.04	12.27
For Work In Restricted Working Space, Add	9.21	
For Elevated Installation >10' To 15', Add	3.07	
For Elevated Installation >15' To 20', Add	6.14	
For Elevated Installation >20' To 25', Add	7.67	
For Elevated Installation >25' To 30', Add	10.74	
For Elevated Installation >30' To 35', Add	12.28	
For Elevated Installation >35' To 40', Add	15.35	
For Elevated Installation >40', Add	16.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.21	
26 05 33 13-2589 EA 1-1/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	69.43	15.05
For Work In Restricted Working Space, Add	11.29	
For Elevated Installation >10' To 15', Add	3.76	
For Elevated Installation >15' To 20', Add	7.53	
For Elevated Installation >20' To 25', Add	9.41	
For Elevated Installation >25' To 30', Add	13.17	
For Elevated Installation >30' To 35', Add	15.05	
For Elevated Installation >35' To 40', Add	18.82	
For Elevated Installation >40', Add	20.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.29	
26 05 33 13-2590 EA 1-1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	93.02	17.43
For Work In Restricted Working Space, Add	13.07	
For Elevated Installation >10' To 15', Add	4.36	
For Elevated Installation >15' To 20', Add	8.71	
For Elevated Installation >20' To 25', Add	10.89	
For Elevated Installation >25' To 30', Add	15.25	
For Elevated Installation >30' To 35', Add	17.42	
For Elevated Installation >35' To 40', Add	21.78	
For Elevated Installation >40', Add	23.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.07	
26 05 33 13-2591 EA 2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	125.62	19.80
For Work In Restricted Working Space, Add	14.85	
For Elevated Installation >10' To 15', Add	4.95	
For Elevated Installation >15' To 20', Add	9.90	
For Elevated Installation >20' To 25', Add	12.38	
For Elevated Installation >25' To 30', Add	17.33	
For Elevated Installation >30' To 35', Add	19.80	
For Elevated Installation >35' To 40', Add	24.75	
For Elevated Installation >40', Add	27.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.85	
26 05 33 13-2592 Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With		
Cover <small>(26 05 33 13-2584)</small>		
26 05 33 13-2593 EA 1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	30.65	7.52
For Work In Restricted Working Space, Add	5.64	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.76	
For Elevated Installation >20' To 25', Add	4.70	
For Elevated Installation >25' To 30', Add	6.58	
For Elevated Installation >30' To 35', Add	7.52	
For Elevated Installation >35' To 40', Add	9.41	
For Elevated Installation >40', Add	10.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.64	
26 05 33 13-2594 EA 3/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	39.82	9.90
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15', Add	2.48	
For Elevated Installation >15' To 20', Add	4.95	
For Elevated Installation >20' To 25', Add	6.19	
For Elevated Installation >25' To 30', Add	8.66	
For Elevated Installation >30' To 35', Add	9.90	
For Elevated Installation >35' To 40', Add	12.38	
For Elevated Installation >40', Add	13.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	
26 05 33 13-2595 EA 1" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	48.81	12.27
For Work In Restricted Working Space, Add	9.21	
For Elevated Installation >10' To 15', Add	3.07	
For Elevated Installation >15' To 20', Add	6.14	
For Elevated Installation >20' To 25', Add	7.67	
For Elevated Installation >25' To 30', Add	10.74	
For Elevated Installation >30' To 35', Add	12.28	
For Elevated Installation >35' To 40', Add	15.35	
For Elevated Installation >40', Add	16.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.21	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2596	EA	1-1/4"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.07 11.29 3.76 7.53 9.41 13.17 15.05 18.82 20.70 11.29	15.05
26 05 33 13-2597	EA	1-1/2"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.99 13.07 4.36 8.71 10.89 15.25 17.42 21.78 23.96 13.07	17.43
26 05 33 13-2598	EA	2"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	125.01 14.85 4.95 9.90 12.38 17.33 19.80 24.75 27.23 14.85	19.80
26 05 33 13-2599 Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover ⁽²⁶⁾					
26 05 33 13-2600	EA	1 1/2"	Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.26 7.43 2.48 4.95 6.19 8.66 9.90 12.38 13.61 7.43	9.90
26 05 33 13-2601	EA	3/4"	Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.59 9.21 3.07 6.14 7.67 10.74 12.28 15.35 16.88 9.21	12.27
26 05 33 13-2602	EA	1"	Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.06 11.29 3.76 7.53 9.41 13.17 15.05 18.82 20.70 11.29	15.05
26 05 33 13-2603	EA	1-1/4"	Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.72 13.66 4.55 9.11 11.39 15.94 18.22 22.77 25.05 13.66	17.43
26 05 33 13-2604	EA	1-1/2"	Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.92 16.04 5.35 10.69 13.37 18.71 21.38 26.73 29.40 16.04	19.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2605 EA 2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover.....	156.39	22.17
For Work In Restricted Working Space, Add	18.41	
For Elevated Installation >10' To 15', Add	6.14	
For Elevated Installation >15' To 20', Add	12.28	
For Elevated Installation >20' To 25', Add	15.35	
For Elevated Installation >25' To 30', Add	21.48	
For Elevated Installation >30' To 35', Add	24.55	
For Elevated Installation >35' To 40', Add	30.69	
For Elevated Installation >40', Add	33.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.41	
26 05 33 13-2606 Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13 2594)</small>		
26 05 33 13-2607 EA 1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover.....	31.68	7.52
For Work In Restricted Working Space, Add	5.64	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.76	
For Elevated Installation >20' To 25', Add	4.70	
For Elevated Installation >25' To 30', Add	6.58	
For Elevated Installation >30' To 35', Add	7.52	
For Elevated Installation >35' To 40', Add	9.41	
For Elevated Installation >40', Add	10.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.64	
26 05 33 13-2608 EA 3/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover.....	42.51	9.90
For Work In Restricted Working Space, Add	7.43	
For Elevated Installation >10' To 15', Add	2.48	
For Elevated Installation >15' To 20', Add	4.95	
For Elevated Installation >20' To 25', Add	6.19	
For Elevated Installation >25' To 30', Add	8.66	
For Elevated Installation >30' To 35', Add	9.90	
For Elevated Installation >35' To 40', Add	12.38	
For Elevated Installation >40', Add	13.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.43	
26 05 33 13-2609 EA 1" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover.....	54.58	12.27
For Work In Restricted Working Space, Add	9.21	
For Elevated Installation >10' To 15', Add	3.07	
For Elevated Installation >15' To 20', Add	6.14	
For Elevated Installation >20' To 25', Add	7.67	
For Elevated Installation >25' To 30', Add	10.74	
For Elevated Installation >30' To 35', Add	12.28	
For Elevated Installation >35' To 40', Add	15.35	
For Elevated Installation >40', Add	16.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.21	
26 05 33 13-2610 EA 1-1/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover.....	71.26	15.05
For Work In Restricted Working Space, Add	11.29	
For Elevated Installation >10' To 15', Add	3.76	
For Elevated Installation >15' To 20', Add	7.53	
For Elevated Installation >20' To 25', Add	9.41	
For Elevated Installation >25' To 30', Add	13.17	
For Elevated Installation >30' To 35', Add	15.05	
For Elevated Installation >35' To 40', Add	18.82	
For Elevated Installation >40', Add	20.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.29	
26 05 33 13-2611 EA 1-1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover.....	87.25	17.43
For Work In Restricted Working Space, Add	13.07	
For Elevated Installation >10' To 15', Add	4.36	
For Elevated Installation >15' To 20', Add	8.71	
For Elevated Installation >20' To 25', Add	10.89	
For Elevated Installation >25' To 30', Add	15.25	
For Elevated Installation >30' To 35', Add	17.42	
For Elevated Installation >35' To 40', Add	21.78	
For Elevated Installation >40', Add	23.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.07	
26 05 33 13-2612 EA 2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover.....	136.75	19.80
For Work In Restricted Working Space, Add	14.85	
For Elevated Installation >10' To 15', Add	4.95	
For Elevated Installation >15' To 20', Add	9.90	
For Elevated Installation >20' To 25', Add	12.38	
For Elevated Installation >25' To 30', Add	17.33	
For Elevated Installation >30' To 35', Add	19.80	
For Elevated Installation >35' To 40', Add	24.75	
For Elevated Installation >40', Add	27.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.85	
26 05 33 13-2613 Aluminum Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) <small>(26 05 33 13 2471)</small>		
26 05 33 13-2614 EA 3/4" To 1-1/4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB120).....	147.91	21.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.28	
26 05 33 13-2615 EA 1-1/2" To 2-1/2" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB250).....	560.78	40.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.09	
26 05 33 13-2616 EA 3" To 4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB400).....	1,077.88	81.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.04	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2617			Replacement Covers And Gaskets For Conduit Body (26 05 33 13-2471)		
26 05 33 13-2618			Replacement Stamped Aluminum Conduit Body Cover (26 05 33 13-2617)		
26 05 33 13-2619	EA		1/2" Replacement Stamped Aluminum Conduit Body Cover	10.96	3.86
26 05 33 13-2620	EA		3/4" Replacement Stamped Aluminum Conduit Body Cover	13.54	4.50
26 05 33 13-2621	EA		1" Replacement Stamped Aluminum Conduit Body Cover	17.33	5.80
26 05 33 13-2622	EA		1-1/4" Replacement Stamped Aluminum Conduit Body Cover	21.09	7.08
26 05 33 13-2623	EA		1-1/2" Replacement Stamped Aluminum Conduit Body Cover	26.11	8.36
26 05 33 13-2624	EA		2" Replacement Stamped Aluminum Conduit Body Cover	31.12	9.66
26 05 33 13-2625	EA		2-1/2" Replacement Stamped Aluminum Conduit Body Cover	42.33	10.94
26 05 33 13-2626	EA		3" Replacement Stamped Aluminum Conduit Body Cover	53.68	15.44
26 05 33 13-2627	EA		3-1/2" Replacement Stamped Aluminum Conduit Body Cover	58.20	17.38
26 05 33 13-2628	EA		4" Replacement Stamped Aluminum Conduit Body Cover	73.35	21.88
26 05 33 13-2629			Replacement Cast Steel Conduit Body Cover (26 05 33 13-2617)		
26 05 33 13-2630	EA		1/2" Replacement Cast Steel Conduit Body Cover	13.17	3.86
26 05 33 13-2631	EA		3/4" Replacement Cast Steel Conduit Body Cover	15.47	4.50
26 05 33 13-2632	EA		1" Replacement Cast Steel Conduit Body Cover	22.08	5.80
26 05 33 13-2633	EA		1-1/4" Replacement Cast Steel Conduit Body Cover	27.52	7.08
26 05 33 13-2634	EA		1-1/2" Replacement Cast Steel Conduit Body Cover	33.60	8.36
26 05 33 13-2635	EA		2" Replacement Cast Steel Conduit Body Cover	39.69	9.66
26 05 33 13-2636	EA		2-1/2" Replacement Cast Steel Conduit Body Cover	45.73	10.94
26 05 33 13-2637	EA		3" Replacement Cast Steel Conduit Body Cover	61.71	15.44
26 05 33 13-2638	EA		3-1/2" Replacement Cast Steel Conduit Body Cover	70.85	17.38
26 05 33 13-2639	EA		4" Replacement Cast Steel Conduit Body Cover	89.36	21.88
26 05 33 13-2640			Replacement Velbuna Composition Conduit Body Gasket (26 05 33 13-2617)		
26 05 33 13-2641	EA		1/2" Replacement Velbuna Composition Conduit Body Gasket	9.97	3.86
26 05 33 13-2642	EA		3/4" Replacement Velbuna Composition Conduit Body Gasket	11.33	4.50
26 05 33 13-2643	EA		1" Replacement Velbuna Composition Conduit Body Gasket	14.87	5.80
26 05 33 13-2644	EA		1-1/4" Replacement Velbuna Composition Conduit Body Gasket	19.60	7.08
26 05 33 13-2645	EA		1-1/2" Replacement Velbuna Composition Conduit Body Gasket	22.17	8.36
26 05 33 13-2646	EA		2" Replacement Velbuna Composition Conduit Body Gasket	26.56	9.66
26 05 33 13-2647	EA		2-1/2" Replacement Velbuna Composition Conduit Body Gasket	36.08	10.94
26 05 33 13-2648	EA		3" Replacement Velbuna Composition Conduit Body Gasket	45.88	15.44
26 05 33 13-2649	EA		3-1/2" Replacement Velbuna Composition Conduit Body Gasket	50.82	17.38
26 05 33 13-2650	EA		4" Replacement Velbuna Composition Conduit Body Gasket	59.73	21.88
26 05 33 13-2651			Replacement Neoprene Conduit Body Gasket (26 05 33 13-2617)		
26 05 33 13-2652	EA		1/2" Replacement Neoprene Conduit Body Gasket	11.51	3.86
26 05 33 13-2653	EA		3/4" Replacement Neoprene Conduit Body Gasket	12.80	4.50
26 05 33 13-2654	EA		1" Replacement Neoprene Conduit Body Gasket	16.79	5.80
26 05 33 13-2655	EA		1-1/4" Replacement Neoprene Conduit Body Gasket	20.57	7.08
26 05 33 13-2656	EA		1-1/2" Replacement Neoprene Conduit Body Gasket	23.14	8.36
26 05 33 13-2657	EA		2" Replacement Neoprene Conduit Body Gasket	26.66	9.66
26 05 33 13-2658	EA		2-1/2" Replacement Neoprene Conduit Body Gasket	36.33	10.94
26 05 33 13-2659	EA		3" Replacement Neoprene Conduit Body Gasket	46.13	15.44
26 05 33 13-2660	EA		3-1/2" Replacement Neoprene Conduit Body Gasket	52.46	17.38
26 05 33 13-2661	EA		4" Replacement Neoprene Conduit Body Gasket	61.37	21.88
26 05 33 16			Boxes for Electrical Systems (26 05 33)		
			See CSI section 26 27 16 00-0000 for larger junction boxes and enclosures.		
26 05 33 16-0001			Steel Junction, Device, And Fixture Boxes, Rings And Covers (26 05 33 16)		
			Note: Thin wall metal. See CSI section 26 27 26 00-0003 for steel box/receptacle assemblies, 26 27 26 00-0128 for steel box/switch assemblies.		
26 05 33 16-0002			4" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)		
26 05 33 16-0003	EA		1-1/2" Depth, 4" Square Steel Box	37.44	16.26
			For Stud Bracket, Add	1.21	
26 05 33 16-0004	EA		2-1/8" Depth, 4" Square Steel Box	39.68	16.26
			For Stud Bracket, Add	2.17	
26 05 33 16-0005	EA		3-1/2" Depth, 4" Square Steel Box	47.37	16.26
			For Stud Bracket, Add	2.37	
26 05 33 16-0006	EA		1-1/2" Depth, 4" Square Steel Extension Ring	32.63	10.84
26 05 33 16-0007	EA		2-1/8" Depth, 4" Square Steel Extension Ring	24.85	10.84
26 05 33 16-0008	EA		1/2" Depth, 1 Gang, 4" Square Steel Mud Ring	13.19	5.42
26 05 33 16-0009	EA		5/8" Depth, 1 Gang, 4" Square Steel Mud Ring	13.55	5.42
26 05 33 16-0010	EA		3/4" Depth, 1 Gang, 4" Square Steel Mud Ring	13.81	5.42
26 05 33 16-0011	EA		1" Depth, 1 Gang, 4" Square Steel Mud Ring	14.64	5.42
26 05 33 16-0012	EA		1-1/4" Depth, 1 Gang, 4" Square Steel Mud Ring	14.88	5.42
26 05 33 16-0013	EA		1-1/2" Depth, 1 Gang, 4" Square Steel Mud Ring	17.54	5.42
26 05 33 16-0014	EA		1/2" Depth, 2 Gang, 4" Square Steel Mud Ring	14.20	5.42
26 05 33 16-0015	EA		5/8" Depth, 2 Gang, 4" Square Steel Mud Ring	14.46	5.42
26 05 33 16-0016	EA		3/4" Depth, 2 Gang, 4" Square Steel Mud Ring	14.77	5.42
26 05 33 16-0017	EA		1" Depth, 2 Gang, 4" Square Steel Mud Ring	17.50	5.42
26 05 33 16-0018	EA		1-1/4" Depth, 2 Gang, 4" Square Steel Mud Ring	18.06	5.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0019 EA 1-1/2" Depth, 2 Gang, 4" Square Steel Mud Ring.....	21.52	5.42
26 05 33 16-0020 EA 3/4" Depth, Fixture Cover, 4" Square Mud Rings.....	15.53	5.42
26 05 33 16-0021 EA 1" Depth, Fixture Cover, 4" Square Mud Rings.....	17.73	5.42
26 05 33 16-0022 EA One Toggle Switch, 4" Square Steel Exposed Work Cover.....	14.16	5.42
26 05 33 16-0023 EA Two Toggle Switches, 4" Square Steel Exposed Work Cover.....	14.36	5.42
26 05 33 16-0024 EA One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....	14.11	5.42
26 05 33 16-0025 EA Two Duplex Receptacles, 4" Square Steel Exposed Work Cover.....	14.70	5.42
26 05 33 16-0026 EA One Toggle Switch And One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....	15.19	5.42
26 05 33 16-0027 EA One Toggle Switch And One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	21.29	5.42
26 05 33 16-0028 EA One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	15.10	5.42
26 05 33 16-0029 EA Two 1.406" Diameter Receptacles, 4" Square Steel Exposed Work Cover.....	21.29	5.42
26 05 33 16-0030 EA One 1.620" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	15.10	5.42
26 05 33 16-0031 EA One 1.719" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	16.53	5.42
26 05 33 16-0032 EA One 2.165" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	21.29	5.42
26 05 33 16-0033 EA One 2.480" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	21.29	5.42
26 05 33 16-0034 EA Flat, 4" Square Steel Exposed Work Cover.....	12.42	5.42
26 05 33 16-0035 4-11/16" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)		
26 05 33 16-0036 EA 1-1/2" Depth, 4-11/16" Square Steel Box.....	45.73	16.26
26 05 33 16-0037 EA 2-1/8" Depth, 4-11/16" Square Steel Box.....	40.66	16.26
<i>For Stud Bracket, Add</i>		
<i>1.14</i>		
26 05 33 16-0038 EA 3-1/4" Depth, 4-11/16" Square Steel Box.....	66.12	16.26
26 05 33 16-0039 EA 1-1/2" Depth, 4-11/16" Square Extension Ring.....	34.75	10.84
26 05 33 16-0040 EA 2-1/8" Depth, 4-11/16" Square Extension Ring.....	36.00	10.84
26 05 33 16-0041 EA 1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	18.26	5.42
26 05 33 16-0042 EA 5/8" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	18.32	5.42
26 05 33 16-0043 EA 3/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	20.48	5.42
26 05 33 16-0044 EA 1" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	19.61	5.42
26 05 33 16-0045 EA 1-1/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	19.42	5.42
26 05 33 16-0046 EA 1-1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	28.41	5.42
26 05 33 16-0047 EA 1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	19.98	5.42
26 05 33 16-0048 EA 5/8" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	20.45	5.42
26 05 33 16-0049 EA 3/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	20.48	5.42
26 05 33 16-0050 EA 1" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	23.66	5.42
26 05 33 16-0051 EA 1-1/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	24.32	5.42
26 05 33 16-0052 EA 1-1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	32.02	5.42
26 05 33 16-0053 EA 1/2" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....	19.56	5.42
26 05 33 16-0054 EA 5/8" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....	19.79	5.42
26 05 33 16-0055 EA One Toggle Switch, 4-11/16" Square Steel Exposed Work Cover.....	25.75	5.42
26 05 33 16-0056 EA Two Toggle Switches, 4-11/16" Square Steel Exposed Work Cover.....	27.42	5.42
26 05 33 16-0057 EA One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	25.26	5.42
26 05 33 16-0058 EA Two Duplex Receptacles, 4-11/16" Square Steel Exposed Work Cover.....	23.44	5.42
26 05 33 16-0059 EA One Toggle Switch And One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	29.53	5.42
26 05 33 16-0060 EA One 1.594" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	27.41	5.42
26 05 33 16-0061 EA One 2.141" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	27.41	5.42
26 05 33 16-0062 EA One 2.625" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	27.41	5.42
26 05 33 16-0063 EA Flat, 4-11/16" Square Steel Exposed Work Cover.....	13.78	5.42
26 05 33 16-0064 Steel Square Box Brackets (26 05 33 16-0001)		
26 05 33 16-0065 EA 16" Or 24" Width Box Bracket, For Multiple 1-1/2" And 2-1/8" Deep Boxes.....	18.56	8.14
26 05 33 16-0066 EA Single Box Bracket, One 4" Or 4-11/16" Square Box.....	14.37	5.43
26 05 33 16-0067 EA 16" Box Bracket, Up To Three 4" Or 4-11/16" Square Boxes.....	23.96	8.14
26 05 33 16-0068 EA 24" Box Bracket, Up To Four 4" Or 4-11/16" Square Boxes.....	26.74	8.14
26 05 33 16-0069 4" Octagon Steel Boxes And Covers (26 05 33 16-0001)		
26 05 33 16-0070 EA 1-1/2" Depth, 4" Steel Octagon Box.....	31.14	13.54
<i>For Stud Bracket, Add</i>		
<i>2.94</i>		
26 05 33 16-0071 EA 2-1/8" Depth, 4" Steel Octagon Box.....	33.10	13.54
26 05 33 16-0072 EA Flat, 4" Octagon Steel Exposed Work Cover.....	12.29	5.42
26 05 33 16-0073 4" Steel Octagonal Concrete Rings And Steel Covers (26 05 33 16-0001)		
<i>Note: Placed in concrete slabs or walls.</i>		
26 05 33 16-0074 EA 2" Depth, 4" Steel Octagonal Concrete Ring.....	52.21	
26 05 33 16-0075 EA 2-1/2" Depth, 4" Steel Octagonal Concrete Ring.....	55.83	
26 05 33 16-0076 EA 3" Depth, 4" Steel Octagonal Concrete Ring.....	58.38	
26 05 33 16-0077 EA 3-1/2" Depth, 4" Steel Octagonal Concrete Ring.....	60.81	
26 05 33 16-0078 EA 4" Depth, 4" Steel Octagonal Concrete Ring.....	68.37	
26 05 33 16-0079 EA 5" Depth, 4" Steel Octagonal Concrete Ring.....	76.27	
26 05 33 16-0080 EA 6" Depth, 4" Steel Octagonal Concrete Ring.....	82.04	
26 05 33 16-0081 EA Flat, 4" Steel Octagonal Concrete Cover.....	14.99	5.42
26 05 33 16-0082 4-1/2" Steel Gang Boxes (26 05 33 16-0001)		
26 05 33 16-0083 EA 2 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	58.89	13.54
26 05 33 16-0084 EA 3 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	65.10	14.63
26 05 33 16-0085 EA 4 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	80.48	16.26

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0086	EA		5 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	110.57	17.88
26 05 33 16-0087	EA		6 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	175.59	19.51
26 05 33 16-0088	EA		2 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	89.16	13.54
26 05 33 16-0089	EA		3 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	97.35	14.63
26 05 33 16-0090	EA		4 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	134.94	16.26
26 05 33 16-0091	EA		5 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	178.29	17.88
26 05 33 16-0092	EA		6 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....	309.48	19.51
26 05 33 16-0093	EA		2 Device, Gang Box Mud Ring.....	26.58	5.42
26 05 33 16-0094	EA		3 Device, Gang Box Mud Ring.....	27.09	5.42
26 05 33 16-0095	EA		4 Device, Gang Box Mud Ring.....	32.92	5.42
26 05 33 16-0096	EA		5 Device, Gang Box Mud Ring.....	42.95	5.42
26 05 33 16-0097	EA		6 Device, Gang Box Mud Ring.....	64.94	5.42
26 05 33 16-0098	EA		2 Device, Gang Box Flat Cover.....	21.57	5.42
26 05 33 16-0099	EA		3 Device, Gang Box Flat Cover.....	27.03	5.42
26 05 33 16-0100	EA		4 Device, Gang Box Flat Cover.....	34.28	5.42
26 05 33 16-0101	EA		5 Device, Gang Box Flat Cover.....	43.51	5.42
26 05 33 16-0102	EA		6 Device, Gang Box Flat Cover.....	66.50	5.42
26 05 33 16-0103			Steel Switch Boxes (26 05 33 16-0001)		
26 05 33 16-0104	EA		2-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box	34.91	13.54
26 05 33 16-0105	EA		2-3/4" Depth, 3" x 2", Stud Bracket, Steel Switch Box	35.76	13.54
26 05 33 16-0106	EA		3-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box	40.13	13.54
26 05 33 16-0107	EA		2-1/2" Depth, 2 Device, Stud Bracket, Steel Box	49.95	13.54
26 05 33 16-0108	EA		2-1/2" Depth, 3 Device, Stud Bracket, Steel Box	50.80	13.54
26 05 33 16-0109	EA		2-1/2" Depth, 4 Device, Stud Bracket, Steel Box	64.10	13.54
26 05 33 16-0110			4" x 2" Steel Handy Boxes, Extension Rings And Covers (26 05 33 16-0001)		
26 05 33 16-0111	EA		1-1/2" Deep, 4" x 2" Steel Handy Box.....	30.92	13.54
			For Stud Bracket, Add	4.73	
26 05 33 16-0112	EA		1-7/8" Deep, 4" x 2" Steel Handy Box.....	31.83	13.54
			For Stud Bracket, Add	2.04	
26 05 33 16-0113	EA		2-1/8" Deep, 4" x 2" Steel Handy Box.....	33.84	13.54
			For Stud Bracket, Add	2.77	
26 05 33 16-0114	EA		1-1/2" Deep, 4" x 2" Steel Handy Box Extension Ring.....	21.75	8.13
26 05 33 16-0115	EA		1-7/8" Deep, 4" x 2" Steel Handy Box Extension Ring.....	20.85	8.13
26 05 33 16-0116	EA		GFI Receptacle, 2" x 4" Steel Handy Box Exposed Work Cover	7.40	2.71
26 05 33 16-0117	EA		1.406" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover.....	7.57	2.71
26 05 33 16-0118	EA		Duplex Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	6.72	2.71
26 05 33 16-0119	EA		Toggle Switch, 4" x 2" Steel Handy Box Exposed Work Cover.....	6.78	2.71
26 05 33 16-0120	EA		1.594" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover.....	8.51	2.71
26 05 33 16-0121	EA		Flat, 2" x 4" Steel Handy Box Exposed Work Cover	6.78	2.71
26 05 33 16-0122			3"-1/2" Depth, 3-3/4" Steel Masonry Boxes (26 05 33 16-0001)		
26 05 33 16-0123	EA		1 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	48.58	18.97
26 05 33 16-0124	EA		2 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	56.16	20.05
26 05 33 16-0125	EA		3 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	66.39	21.67
26 05 33 16-0126	EA		4 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	76.95	23.84
26 05 33 16-0127			Cast Boxes (26 05 33 16)		
			Note: For flush or surface mount.		
26 05 33 16-0128			Cast Iron Alloy Boxes (26 05 33 16-0127)		
			See CSI section 26 27 26 00-0265 for box covers.		
26 05 33 16-0129			Shallow, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128)		
			Note: Up to 2" deep boxes.		
26 05 33 16-0130	EA		1/2" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	93.64	32.51
			Note: One hub.		
26 05 33 16-0131	EA		3/4" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	100.74	37.93
			Note: One hub.		
26 05 33 16-0132	EA		1" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	118.56	46.06
			Note: One hub.		
26 05 33 16-0133	EA		1/2" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box	116.90	43.35
			Note: Two hubs.		
26 05 33 16-0134	EA		3/4" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box	149.63	51.48
			Note: Two hubs.		
26 05 33 16-0135	EA		1/2" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box.....	116.41	43.35
			Note: Two hubs.		
26 05 33 16-0136	EA		3/4" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box	140.02	51.48
			Note: Two hubs.		
26 05 33 16-0137	EA		1/2" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box	119.50	43.35
			Note: Two hubs.		
26 05 33 16-0138	EA		3/4" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box	140.07	51.48
			Note: Two hubs.		
26 05 33 16-0139	EA		1/2" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box.....	116.41	43.35
			Note: Two hubs.		
26 05 33 16-0140	EA		3/4" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box.....	136.25	51.48
			Note: Two hubs.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0141 EA 1/2" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	138.61	54.18
26 05 33 16-0142 EA 3/4" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	163.99	65.02
26 05 33 16-0143 EA 1/2" Depth, Type FSCC, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	144.53	54.18
26 05 33 16-0144 EA 3/4" Depth, Type FSCC, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	186.59	65.02
26 05 33 16-0145 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	148.40	54.18
26 05 33 16-0146 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	177.29	65.02
26 05 33 16-0147 EA 1/2" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	138.10	54.18
26 05 33 16-0148 EA 3/4" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	179.91	65.02
26 05 33 16-0149 EA 1/2" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box..... Note: Four hubs.	176.23	65.02
26 05 33 16-0150 EA 3/4" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box..... Note: Four hubs.	212.59	78.57
26 05 33 16-0151 Deep, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: >2" deep boxes.		
26 05 33 16-0152 EA 1/2" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	98.00	32.51
26 05 33 16-0153 EA 3/4" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	112.85	37.93
26 05 33 16-0154 EA 1" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	132.53	46.06
26 05 33 16-0155 EA 1/2" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	124.88	43.35
26 05 33 16-0156 EA 3/4" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	144.13	51.48
26 05 33 16-0157 EA 1" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	173.22	62.31
26 05 33 16-0158 EA 3/4" Depth, Type FDS, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	155.01	51.48
26 05 33 16-0159 EA 3/4" Depth, Type FDCC, Deep, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	199.47	65.02
26 05 33 16-0160 Shallow, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: Up to 2" deep boxes.		
26 05 33 16-0161 EA 1/2" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	112.79	35.22
26 05 33 16-0162 EA 3/4" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	124.91	40.64
26 05 33 16-0163 EA 1" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	145.06	48.77
26 05 33 16-0164 EA 1/2" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	136.56	46.06
26 05 33 16-0165 EA 3/4" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	155.06	54.18
26 05 33 16-0166 Deep, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: >2" deep boxes.		
26 05 33 16-0167 EA 1/2" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box..... Note: One hub.	125.89	35.22
26 05 33 16-0168 EA 3/4" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box..... Note: One hub.	137.24	40.64
26 05 33 16-0169 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	156.28	46.06
26 05 33 16-0170 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	175.90	54.18
26 05 33 16-0171 Cast Aluminum Boxes (26 05 33 16-0127) See CSI section 26 27 26 00-0265 for box covers.		
26 05 33 16-0172 Shallow, Single Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0173 EA 1/2" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	82.80	27.10
26 05 33 16-0174 EA 3/4" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	94.78	32.51
26 05 33 16-0175 EA 1" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	105.21	40.64
26 05 33 16-0176 EA 1/2" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	77.72	27.10
26 05 33 16-0177 EA 3/4" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	98.37	32.51

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0178 EA 1/2" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	104.97	37.93
26 05 33 16-0179 EA 3/4" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	126.10	46.06
26 05 33 16-0180 EA 1" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	158.26	56.90
26 05 33 16-0181 EA 1/2" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	113.81	37.93
26 05 33 16-0182 EA 3/4" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	121.80	46.06
26 05 33 16-0183 EA 1/2" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	108.79	37.93
26 05 33 16-0184 EA 3/4" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	124.80	46.06
26 05 33 16-0185 EA 1/2" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	105.54	37.93
26 05 33 16-0186 EA 3/4" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	124.80	46.06
26 05 33 16-0187 EA 1/2" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	98.04	37.93
26 05 33 16-0188 EA 3/4" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	132.78	46.06
26 05 33 16-0189 EA 1/2" Depth, Type FSCA, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	124.89	48.77
26 05 33 16-0190 EA 3/4" Depth, Type FSCA, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	151.73	59.61
26 05 33 16-0191 EA 1/2" Depth, Type FSCC, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	132.66	48.77
26 05 33 16-0192 EA 3/4" Depth, Type FSCC, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	178.66	59.61
26 05 33 16-0193 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	132.01	48.77
26 05 33 16-0194 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	161.98	59.61
26 05 33 16-0195 EA 3/4" Depth, Type FST, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	164.29	59.61
26 05 33 16-0196 EA 1/2" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box Note: Four hubs.	160.96	59.61
26 05 33 16-0197 EA 3/4" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box Note: Four hubs.	196.46	73.15
26 05 33 16-0198 Deep, Single Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0199 EA 1/2" Depth, Type FD, Deep, Single Gang Cast Aluminum Box Note: One hub.	91.82	27.10
26 05 33 16-0200 EA 3/4" Depth, Type FD, Deep, Single Gang Cast Aluminum Box Note: One hub.	110.00	32.51
26 05 33 16-0201 EA 1" Depth, Type FD, Deep, Single Gang Cast Aluminum Box Note: One hub.	126.13	40.64
26 05 33 16-0202 EA 3/4" Depth, Type FDA, Deep, Single Gang Cast Aluminum Box Note: One hub.	118.23	32.51
26 05 33 16-0203 EA 1/2" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	116.63	37.93
26 05 33 16-0204 EA 3/4" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	140.42	46.06
26 05 33 16-0205 EA 1" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	156.92	56.90
26 05 33 16-0206 EA 3/4" Depth, Type FDS, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	142.33	46.06
26 05 33 16-0207 EA 3/4" Depth, Type FDCC, Deep, Single Gang Cast Aluminum Box Note: Three hubs.	174.00	59.61
26 05 33 16-0208 Shallow, Two Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0209 EA 1/2" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	109.87	29.80
26 05 33 16-0210 EA 3/4" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	125.79	35.22
26 05 33 16-0211 EA 1" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	134.93	43.35
26 05 33 16-0212 EA 1/2" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	137.24	40.64
26 05 33 16-0213 EA 3/4" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	139.79	48.77
26 05 33 16-0214 EA 1" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	172.68	59.61
26 05 33 16-0215 Deep, Two Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0216 EA 1/2" Depth, Type FD, Deep, Two Gang Cast Aluminum Box Note: One hub.	109.77	29.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0217 EA 3/4" Depth, Type FD, Deep, Two Gang Cast Aluminum Box..... Note: One hub.	127.02	35.22
26 05 33 16-0218 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	140.05	40.64
26 05 33 16-0219 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	158.64	48.77
26 05 33 16-0220 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	140.05	40.64
26 05 33 16-0221 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	158.64	48.77
26 05 33 16-0222 Shallow, Three Gang Cast Aluminum Boxes <small>(26 05 33 16-0171)</small> Note: Up to 2" deep boxes.		
26 05 33 16-0223 EA 1/2" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box..... Note: Two hubs.	146.97	43.35
26 05 33 16-0224 EA 3/4" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box Note: Two hubs.	164.83	51.48
26 05 33 16-0225 Deep, Three Gang Cast Aluminum Boxes <small>(26 05 33 16-0171)</small> Note: >2" deep boxes.		
26 05 33 16-0226 EA 3/4" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	167.86	37.93
26 05 33 16-0227 EA 1" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	187.01	46.06
26 05 33 16-0228 Cast Aluminum Explosion Proof Outlet Bodies <small>(26 05 33 16-0127)</small> Note: Class I, Div. 1 & 2; Class II, Div. 1 & 2; and Class III.		
26 05 33 16-0229 EA 1/2" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	173.58	43.35
26 05 33 16-0230 EA 3/4" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	215.32	48.77
26 05 33 16-0231 EA 1" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	196.63	54.18
26 05 33 16-0232 EA 1/2" Depth, Type GRSSA, 13 Opening, Cast Aluminum Explosion Proof Outlet Body.....	192.34	48.77
26 05 33 16-0233 EA 3/4" Depth, 13 Hubs, Explosion Proof Conduit Outlet Box With Cover Cast Aluminum, Type GRSSA.....	234.71	54.18
26 05 33 16-0234 Non Metallic (PVC) Boxes <small>(26 05 33 16)</small> See CSI section 26 27 26 00-0265 for box covers.		
26 05 33 16-0235 Shallow, Single Gang Non Metallic (PVC) Boxes <small>(26 05 33 16-0234)</small>		
26 05 33 16-0236 EA 1/2" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box Note: One hub.	57.86	22.76
26 05 33 16-0237 EA 3/4" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box Note: One hub.	65.84	26.56
26 05 33 16-0238 EA 1" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box Note: One hub.	73.97	32.24
26 05 33 16-0239 EA 1/2" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	73.43	30.35
26 05 33 16-0240 EA 3/4" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	86.07	36.04
26 05 33 16-0241 EA 1" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	104.44	43.62
26 05 33 16-0242 EA 1/2" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	73.75	30.35
26 05 33 16-0243 EA 3/4" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	85.20	36.04
26 05 33 16-0244 EA 1" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	101.46	43.62
26 05 33 16-0245 EA 1/2" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	93.33	37.93
26 05 33 16-0246 EA 3/4" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	105.06	45.51
26 05 33 16-0247 EA 1" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	122.99	55.00
26 05 33 16-0248 Deep, Single Gang Non Metallic (PVC) Boxes <small>(26 05 33 16-0234)</small>		
26 05 33 16-0249 EA No Hub, Type FD, Deep, Single Gang Non Metallic (PVC) Box Note: No hubs.	58.82	22.76
26 05 33 16-0250 EA 1/2" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	57.13	22.76
26 05 33 16-0251 EA 3/4" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	68.12	26.56
26 05 33 16-0252 EA 1" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	74.91	32.24
26 05 33 16-0253 EA 1/2" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	75.32	30.35
26 05 33 16-0254 EA 3/4" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	83.59	36.04
26 05 33 16-0255 EA 1" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	99.62	43.62

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0256 Shallow, Two Gang Non Metallic (PVC) Boxes <small>(26 05 33 16-0234)</small>		
26 05 33 16-0257 EA 1/2" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	62.16	24.65
26 05 33 16-0258 EA 3/4" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	71.10	28.45
26 05 33 16-0259 EA 1" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	77.94	34.13
26 05 33 16-0260 EA 1/2" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	75.12	32.24
26 05 33 16-0261 EA 3/4" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	93.97	37.93
26 05 33 16-0262 EA 1" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	110.84	45.51
26 05 33 16-0263 EA 1/2" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	77.36	32.24
26 05 33 16-0264 EA 3/4" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	100.16	37.93
26 05 33 16-0265 EA 1" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	105.87	45.51
26 05 33 16-0266 EA 1/2" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	94.35	39.83
26 05 33 16-0267 EA 3/4" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	126.92	47.42
26 05 33 16-0268 EA 1" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	126.63	56.90
26 05 33 16-0269 Poke Thru Units <small>(26 05 33 16)</small>		
26 05 33 16-0270 Surface Poke Thru Units <small>(26 05 33 16-0269)</small>		
26 05 33 16-0271 EA Single 20 Amperes, Duplex Receptacle RC3 Power And Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC3ATCAL.	468.42	40.64
26 05 33 16-0272 EA Retrofit Kit Upgrades Existing RC3 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements	299.27	
26 05 33 16-0273 EA 20 Amperes, Replacement Duplex Receptacle For RC3 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC3REC.	41.95	10.84
26 05 33 16-0274 EA Abandonment Plate For RC3 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC3APTCBK.	50.26	5.42
26 05 33 16-0275 EA Four 20 Amperes, Receptacles RC4 Power And Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC4ATCAL.	529.63	43.35
26 05 33 16-0276 EA Retrofit Kit Upgrades Existing RC4 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements	280.31	
26 05 33 16-0277 EA Two 20 Amperes, Replacement Duplex Receptacles For RC4 Series Power And Communications Poke Thru Unit Note: Wiremold RC4REC2.	71.78	16.26
26 05 33 16-0278 EA Abandonment Plate For RC4 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC4APTCBK.	50.26	5.42
26 05 33 16-0279 EA Abandonment Plug For RC4 Series Power And Communications Poke Thru Unit..... Note: Wiremold ABPLUG4.	146.16	10.84
26 05 33 16-0280 EA Four Jack RC9AMD Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Includes bezels to accept four Ortronics TracJack inserts and two Ortronics Series II inserts. Excludes communication jacks. Wiremold RC9AMDTCAL.	419.31	37.93
26 05 33 16-0281 EA Abandonment Plate For RC9 Series Communications Poke Thru Unit Note: Wiremold RC9APTCBK.	35.02	5.42
26 05 33 16-0282 EA Eight Jack AMD8 Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Includes bezels to accept eight Ortronics TracJack inserts and four Ortronics Series II inserts. Excludes communication jacks. Wiremold AMD8ATCAL.	417.39	37.93
26 05 33 16-0283 EA Communication Conduit Adapter For Poke Thru Units Note: Includes two conduit connections for communication systems. Wiremold COM75.	48.59	5.42
26 05 33 16-0284 Recessed Poke Thru Units <small>(26 05 33 16-0269)</small>		
26 05 33 16-0285 Evolution 6AT Poke Thru Units <small>(26 05 33 16-0284)</small>		
26 05 33 16-0286 EA Recessed Prewired Assembly With Surface Style Cover (Wiremold 6ATCP)	806.51	43.35
26 05 33 16-0287 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 6ATP).....	806.61	43.35



	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0288	EA Recessed Assembly With Surface Style Cover (Wiremold 6ATC)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	768.54	43.35
26 05 33 16-0289	EA Recessed Assembly With Flush Style Cover (Wiremold 6AT)..... Note: For tile, wood or laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	768.54	43.35
26 05 33 16-0290	EA Recessed Prewired Audio/Video Assembly With Surface Style Cover (Wiremold 6ATCPA)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	806.51	43.35
26 05 33 16-0291	EA Recessed Prewired Audio/Video Assembly With Flush Style Cover (Wiremold 6ATPA)..... Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	806.51	43.35
26 05 33 16-0292	EA Recessed Furniture Feed Assembly With Surface Style Cover (Wiremold 6ATCFF)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Die-cast aluminum cover assembly provides one (1) 3/4" trade size screw plug opening and one (1) concentric 2"-1 1/4" trade size screw plug opening and is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	736.40	43.35
26 05 33 16-0293	EA Recessed Assembly With Disposable Plate (Wiremold 6STC)..... Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. No device plates are included. For use with the following cover assemblies (purchased separately): 6CTC, 6CT, and 6CFFTC Series.	460.69	40.64
26 05 33 16-0294	EA Recessed Prewired Audio/Video Assembly With Disposable Plate (Wiremold 6STCPAV)..... Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies(purchased separately): 6CTC and 6CT Series.	494.27	40.64
26 05 33 16-0295	EA Recessed Prewired Assembly With Disposable Plate (Wiremold 6STCP)..... Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 6CTC and 6CT Series.	497.60	40.64
26 05 33 16-0296	EA 6" Pre-Pour Poke-Thru Sleeve (Wiremold 6PPS)..... Note: Nonmetallic sleeve attaches to structural decking and maintains 6"-6 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.	140.29	21.67
26 05 33 16-0297	EA Surface Style Cover Assembly (Wiremold 6CTC)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CTC Series cover assemblies designed for use with 6STC, 6STCP, and 6STCPAV Poke-Thru Stem Assemblies.	325.55	10.84
26 05 33 16-0298	EA Flush Style Cover Assembly (Wiremold 6CT)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CT Series cover assemblies designed for use with 6STC, 6STCP and 6STCPAV Poke-Thru Stem Assemblies. Includes one (1) 6TS Tile Shim.	325.55	10.84
26 05 33 16-0299	EA Furniture Feed Cover Assembly (Wiremold 6CFFTC)..... Note: Surface style, die-cast aluminum cover assembly, with one (1) 3/4" trade size screw plug opening, and one (1) concentric 2"-1 1/4" trade size screw plug opening. Cover assembly is available in finishes: black (BK), gray(GY), nickel (NK), brass (BS), and bronze (BZ). 6CFFTC Series Cover Assemblies designed for use with 6STC Poke- Thru Stem Assembly. Includes one (1) 3/4" and one (1) 2" trade size conduit fittings and one (1) divider to separate services.	270.49	10.84
26 05 33 16-0300	EA Tile Shim (Wiremold 6TS)..... Note: Used for floor coverings greater than 5/16" The 6TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" of adjustment.	39.05	2.71
26 05 33 16-0301	EA Device Mounting Plate (Wiremold 6AAP)..... Note: Device plate that will accept up to two (2) Extron® Electronics AAP style plates. For use in the center compartment only. Devices supplied by others.	18.83	5.42
26 05 33 16-0302	EA Device Mounting Plate (Wiremold 6ACT8A)..... Note: Device plate that will accept up to eight (8) ports of communication devices. For use in the center compartment only. Devices supplied by others.	21.81	5.42
26 05 33 16-0303	EA Device Mounting Plate (Wiremold 6B)..... Note: Device plate used to blank off center compartment, when no devices are used.	18.74	5.42
26 05 33 16-0304	EA Device Mounting Plate (Wiremold 6DEC)..... Note: Device plate that will accept Decorator style devices such as 20 amperes receptacles, GFCIs, 106 adapters or A/V devices. For use in the center compartment only. Devices supplied by others.	18.80	5.42
26 05 33 16-0305	EA Device Mounting Plate (Wiremold 6DP)..... Note: Device plate that will accept standard 20 amperes duplex receptacle or duplex Turnlok receptacle. For use in the center compartment only. Devices supplied by others.	18.67	5.42
26 05 33 16-0306	EA Device Mounting Plate (Wiremold 6MAAP)..... Note: Device plate that will accept up to six (6) Extron® Electronics MAAP style plates. For use in the center compartment only. Devices supplied by others.	22.13	5.42
26 05 33 16-0307	EA Device Mounting Plate (Wiremold 6MAAP2A)..... Note: Combination device plate that will accept up to three (3) Extron® Electronics MAAP style plates, and up to two (2) ports of communication devices. For use in the center compartment only. Devices supplied by others.	21.88	5.42
26 05 33 16-0308	EA Mosaic Mounting Plate (Wiremold 6MOS)..... Note: Device plate will accept two (2) standard [45mm x 45mm] or one (1) standard [45mm x 90mm] Mosaic style device(s). Devices supplied by others.	22.43	5.42
26 05 33 16-0309	EA Device Mounting Plate (Wiremold 6S1)..... Note: Receptacle opening 1 3/8". For 6" poke-thru units only.	18.38	5.42
26 05 33 16-0310	EA Device Mounting Plate (Wiremold 6S2)..... Note: Receptacle opening 1 9/16". For 6" poke-thru units only.	18.40	5.42
26 05 33 16-0311	EA Device Mounting Plate (Wiremold 6SER)..... Note: Device plate that will accept up to four (4) Ortronics® Series II dual modular inserts. For use in the center compartment only. Devices supplied by others.	18.14	5.42

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0312 EA Device Mounting Plate (Wiremold 6TRAC)..... Note: Device plate that will accept up to eight (8) Ortronics® TracJack devices. For use in the center compartment only. Devices supplied by others.	18.14	5.42
26 05 33 16-0313 EA 20 Amperes, Duplex Receptacles (Wiremold 68REC)..... Note: Two (2) proprietary 20 amperes duplex power receptacles with mounting plates. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated ground device.	44.07	8.13
26 05 33 16-0314 EA Device Mounting Plate (Wiremold 68B)..... Note: Blank plate. Used to blank off either of the side compartments when no devices or cabling are to be used.	16.57	5.42
26 05 33 16-0315 EA Device Mounting Plate (Wiremold 68MAAP)..... Note: Device plate that will accept up to two (2) Extron® Electronics MAAP device plates. For use in either of the two side compartments only. Not for use in the center compartment. Extron Devices supplied by others.	17.00	5.42
26 05 33 16-0316 EA 20 Amperes, Duplex Receptacles (Wiremold 68REC-25)..... Note: Two (2) proprietary 20 amperes duplex power receptacles with mounting plates and 25' leads. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated	139.82	9.75
26 05 33 16-0317 EA Device Mounting Plate (Wiremold 682A)..... Note: Device plate that will accept up to two (2) ports of communication devices. For use in either of the two side compartments only. Not for use in the center compartment. Communication devices supplied by others.	21.61	5.42
26 05 33 16-0318 EA Bottom Housing Assembly (Wiremold 5PTHA)..... Note: Half-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required. For use on side compartments only.	22.54	5.42
26 05 33 16-0319 EA Bottom Housing Assembly (Wiremold 5BLH)..... Note: Half-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required. For use on side compartments only. Includes tunnels for 6" and 8" poke-thru devices.	23.20	5.42
26 05 33 16-0320 EA Bottom Housing Assembly (Wiremold 152CHA)..... Note: One and a half-gang 2" trade size conduit housing assembly. Recommended for use with furniture feed devices (6ATCF). Covers the center compartment and one of the side compartments.	35.43	10.84
26 05 33 16-0321 EA Bottom Housing Assembly (Wiremold 575CHA)..... Note: Half-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections. For use on side compartments only.	40.51	13.54
26 05 33 16-0322 EA Bottom Housing Assembly (Wiremold 175CHA)..... Note: One-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections.	44.78	13.54
26 05 33 16-0323 EA Bottom Housing Assembly (Wiremold 1125CHA)..... Note: One-gang 1 1/4" trade size conduit housing assembly.	33.98	10.84
26 05 33 16-0324 EA Bottom Housing Assembly (Wiremold 1PTHA)..... Note: One-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required.	22.38	5.42
26 05 33 16-0325 EA Bottom Housing Assembly (Wiremold 1BLH)..... Note: One-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required.	22.38	5.42
26 05 33 16-0326 EA Bottom Housing Assembly (Wiremold 15FFHA)..... Note: One and a half-gang pass through conduit housing assembly. Used for furniture feed applications on the center compartment only. Only for use with 6AT Series units.	23.61	5.42
26 05 33 16-0327 EA Bottom Housing Assembly (Wiremold 1BHA)..... Note: One-gang bottom housing assembly. Designed to accept 175CHA, 1125CHA, 1PTHA, and 1BLH plates.	24.44	5.42
26 05 33 16-0328 Evolution 8AT Poke Thru Units (26 05 33 16-0284) Note: Excludes concrete drilling.		
26 05 33 16-0329 EA Recessed Prewired Assembly With Surface Style Cover (Wiremold 8ATCP)..... Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	1,059.08	43.35
26 05 33 16-0330 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8ATP)..... Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	1,007.84	43.35
26 05 33 16-0331 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8AT2P)..... Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	1,070.68	43.35
26 05 33 16-0332 EA Recessed Assembly With Surface Style Cover (Wiremold 8ATC)..... Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	998.20	43.35
26 05 33 16-0333 EA Recessed Assembly With Flush Style Cover (Wiremold 8AT)..... Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	989.06	43.35
26 05 33 16-0334 EA Recessed Assembly With Disposable Plate (Wiremold 8STC)..... Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.	596.27	40.64
26 05 33 16-0335 EA Recessed Prewired Assembly With Disposable Plate (Wiremold 8STCP)..... Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.	668.45	40.64
26 05 33 16-0336 EA 8" Pre-Pour Poke-Thru Sleeve (Wiremold 8PPS)..... Note: Nonmetallic sleeve attaches to structural decking and maintains 8"-8 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.	168.46	21.67
26 05 33 16-0337 EA Surface Style Cover Assembly (Wiremold 8CTC)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies.	352.14	10.84



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0338 EA Flush Style Cover Assembly (Wiremold 8CT)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies. Includes one (1) 8TS Tile Shim.	352.14	10.84
26 05 33 16-0339 EA Tile Shim (Wiremold 8TS)..... Note: Used for floor coverings greater than 5/16". The 8TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" [9.5mm] of adjustment.	60.96	2.71
26 05 33 16-0340 EA Device Mounting Plate (Wiremold 8B)..... Note: Singlegang device plate used to blank off any one (1) of the three (3) gangs in the center compartment, when no devices are used.	19.47	5.42
26 05 33 16-0341 EA Device Mounting Plate (Wiremold 8DP)..... Note: Singlegang device plate that accepts standard 20 amperes duplex receptacle or a duplex Turnlok receptacle. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	19.58	5.42
26 05 33 16-0342 EA Device Mounting Plate (Wiremold 8DEC)..... Note: Singlegang device plate that will accept Decorator style devices such as 20 amperes receptacles, GGCLs, 106 adapters or A/V devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	19.71	5.42
26 05 33 16-0343 EA Device Mounting Plate (Wiremold 8ACT6A)..... Note: Singlegang device plate that will accept up to six (6) ports of communication devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	22.91	5.42
26 05 33 16-0344 EA Mosaic Mounting Plate (Wiremold 8MOS)..... Note: Device plate accepts three (3) standard Mosaic devices. Devices supplied by others.	27.84	5.42
26 05 33 16-0345 EA Crestron Double Gang Plate (Wiremold 8CREST)..... Note: Device plate accepts Crestron double-gang decorator style devices.	27.80	5.42
26 05 33 16-0346 EA Device Mounting Plate (Wiremold 8S1)..... Note: Receptacle opening 1 3/8". For 8" poke-thru units only.	18.87	5.42
26 05 33 16-0347 EA Device Mounting Plate (Wiremold 8S2)..... Note: Receptacle opening 1 9/16". For 8" poke-thru units only.	19.11	5.42
26 05 33 16-0348 EA Device Mounting Plate (Wiremold 8TRAC)..... Note: Singlegang device plate that will accept up to six (6) Ortronics TracJack devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	18.87	5.42
26 05 33 16-0349 EA Device Mounting Plate (Wiremold 8SER)..... Note: Singlegang device plate that will accept up to three (3) Ortronics Series II dual modular inserts. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	18.87	5.42
26 05 33 16-0350 EA Device Mounting Plate (Wiremold 8MAAP)..... Note: Singlegang device plate that will accept up to four (4) Extron® Electronics MAAP style plates. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	27.40	5.42
26 05 33 16-0351 EA Device Mounting Plate (Wiremold 8AAP)..... Note: Twogang device plate that will accept up to four (4) Extron® Electronics AAP style plates. 8AAP takes up 2 of the 3 gangs in the center compartment. Devices supplied by others.	22.77	5.42
26 05 33 16-0352 EA 8" Divider (Wiremold 8DIV)..... Note: Divider allows for separation of services when required.	26.31	5.42
26 05 33 16-0353 EA Bottom Housing Assembly (Wiremold 22CHA)..... Note: Two-gang 2" trade size conduit housing assembly. Used on 8AT Series devices. Covers two (2) of the three (3) gangs in the center compartment. Only for use with 8AT Series units.	35.43	10.84

26 05 43 Underground Ducts and Raceways for Electrical Systems (26 05)

Note: Includes warning tape.

26 05 43 00-0001 Precast Concrete Trenches, One Piece Pedestrian Trench (26 05 43)

Note: Rated for 200 PSF Pedestrian Weight. Excludes excavation, removal of dirt and sand bedding.

26 05 43 00-0002 10" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0003 LF Base, Solid Bottom 10" Wide x 15" Deep Pedestrian Trench.....	82.01
26 05 43 00-0004 LF Base, Open Bottom 10" Wide x 15" Deep Pedestrian Trench.....	78.39
26 05 43 00-0005 LF Base, Solid Bottom 10" Wide x 24" Deep Pedestrian Trench.....	113.91
26 05 43 00-0006 LF Base, Open Bottom 10" Wide x 24" Deep Pedestrian Trench.....	108.88
26 05 43 00-0007 EA End Wall, 10" Wide x 15" Deep Pedestrian Trench.....	55.18
26 05 43 00-0008 EA End Wall, 10" Wide x 24" Deep Pedestrian Trench.....	65.18
26 05 43 00-0009 LF Lid, Concrete, 10" Wide Pedestrian Trench.....	54.68

26 05 43 00-0010 20" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0011 LF Base, Solid Bottom 20" Wide x 15" Deep Pedestrian Trench.....	103.85
26 05 43 00-0012 LF Base, Open Bottom 20" Wide x 15" Deep Pedestrian Trench.....	97.44
26 05 43 00-0013 LF Base, Solid Bottom 20" Wide x 24" Deep Pedestrian Trench.....	140.58
26 05 43 00-0014 LF Base, Open Bottom 20" Wide x 24" Deep Pedestrian Trench.....	134.74
26 05 43 00-0015 EA End Wall, 20" Wide x 15" Deep Pedestrian Trench.....	68.90
26 05 43 00-0016 EA End Wall, 20" Wide x 24" Deep Pedestrian Trench.....	100.42
26 05 43 00-0017 LF Lid, Concrete, 20" Wide Pedestrian Trench.....	68.38

26 05 43 00-0018 30" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0019 LF Base, Solid Bottom 30" Wide x 15" Deep Pedestrian Trench.....	132.33
26 05 43 00-0020 LF Base, Open Bottom 30" Wide x 15" Deep Pedestrian Trench.....	155.81
26 05 43 00-0021 LF Base, Solid Bottom 30" Wide x 24" Deep Pedestrian Trench.....	165.63
26 05 43 00-0022 LF Base, Open Bottom 30" Wide x 24" Deep Pedestrian Trench.....	158.98
26 05 43 00-0023 EA End Wall, 30" Wide x 15" Deep Pedestrian Trench.....	98.78
26 05 43 00-0024 EA End Wall, 30" Wide x 24" Deep Pedestrian Trench.....	134.27
26 05 43 00-0025 LF Lid, Concrete, 30" Wide Pedestrian Trench.....	85.40

26 Electrical**26 05 Common Work Results for Electrical****26 05 43 Underground Ducts and Raceways for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0026			40" Wide Pedestrian Trench (26 05 43 00-0001)		
26 05 43 00-0027	LF		Base, Solid Bottom 40" Wide x 15" Deep Pedestrian Trench	158.36	
26 05 43 00-0028	LF		Base, Open Bottom 40" Wide x 15" Deep Pedestrian Trench	152.31	
26 05 43 00-0029	LF		Base, Solid Bottom 40" Wide x 24" Deep Pedestrian Trench	193.80	
26 05 43 00-0030	LF		Base, Open Bottom 40" Wide x 24" Deep Pedestrian Trench	186.40	
26 05 43 00-0031	EA		End Wall, 40" Wide x 15" Deep Pedestrian Trench	126.43	
26 05 43 00-0032	EA		End Wall, 40" Wide x 24" Deep Pedestrian Trench	171.67	
26 05 43 00-0033	LF		Lid, Concrete, 40" Wide Pedestrian Trench	100.88	
26 05 43 00-0034			Precast Concrete Trenches, One Piece Medium Vehicle Trench (26 05 43)		
Note: Rated for 7000 lbs Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.					
26 05 43 00-0035			10" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0036	LF		Base, Solid Bottom 10" Wide x 15" Deep Medium Vehicle Trench	99.80	
26 05 43 00-0037	LF		Base, Open Bottom 10" Wide x 15" Deep Medium Vehicle Trench	95.10	
26 05 43 00-0038	LF		Base, Solid Bottom 10" Wide x 24" Deep Medium Vehicle Trench	138.59	
26 05 43 00-0039	LF		Base Open Bottom 10" Wide x 24" Deep Medium Vehicle Trench	132.10	
26 05 43 00-0040	EA		End Wall, 10" Wide x 15" Deep Medium Vehicle Trench	65.06	
26 05 43 00-0041	EA		End Wall, 10" Wide x 24" Deep Medium Vehicle Trench	75.55	
26 05 43 00-0042	LF		Lid, Concrete 10" Wide Medium Vehicle Trench	66.54	
26 05 43 00-0043	LF		Lid, Galvanized Steel 10" Wide Medium Vehicle Trench	298.36	
26 05 43 00-0044			20" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0045	LF		Base, Solid Bottom 20" Wide x 15" Deep Medium Vehicle Trench	125.57	
26 05 43 00-0046	LF		Base, Open Bottom 20" Wide x 15" Deep Medium Vehicle Trench	117.30	
26 05 43 00-0047	LF		Base, Solid Bottom 20" Wide x 24" Deep Medium Vehicle Trench	169.22	
26 05 43 00-0048	LF		Base Open Bottom 20" Wide x 24" Deep Medium Vehicle Trench	161.67	
26 05 43 00-0049	EA		End Wall, 20" Wide x 15" Deep Medium Vehicle Trench	80.34	
26 05 43 00-0050	EA		End Wall, 20" Wide x 24" Deep Medium Vehicle Trench	117.25	
26 05 43 00-0051	LF		Lid, Concrete 20" Wide Medium Vehicle Trench	83.20	
26 05 43 00-0052	LF		Lid, Galvanized Steel 20" Wide Medium Vehicle Trench	395.70	
26 05 43 00-0053			30" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0054	LF		Base, Solid Bottom 30" Wide x 15" Deep Medium Vehicle Trench	125.74	
26 05 43 00-0055	LF		Base, Open Bottom 30" Wide x 15" Deep Medium Vehicle Trench	151.23	
26 05 43 00-0056	LF		Base, Solid Bottom 30" Wide x 24" Deep Medium Vehicle Trench	198.22	
26 05 43 00-0057	LF		Base Open Bottom 30" Wide x 24" Deep Medium Vehicle Trench	189.62	
26 05 43 00-0058	EA		End Wall, 30" Wide x 15" Deep Medium Vehicle Trench	114.57	
26 05 43 00-0059	EA		End Wall, 30" Wide x 24" Deep Medium Vehicle Trench	157.63	
26 05 43 00-0060	LF		Lid, Concrete 30" Wide Medium Vehicle Trench	104.18	
26 05 43 00-0061	LF		Lid, Galvanized Steel 30" Wide Medium Vehicle Trench	494.02	
26 05 43 00-0062			40" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0063	LF		Base, Solid Bottom 40" Wide x 15" Deep Medium Vehicle Trench	187.98	
26 05 43 00-0064	LF		Base, Open Bottom 40" Wide x 15" Deep Medium Vehicle Trench	180.16	
26 05 43 00-0065	LF		Base, Solid Bottom 40" Wide x 24" Deep Medium Vehicle Trench	230.13	
26 05 43 00-0066	LF		Base Open Bottom 40" Wide x 24" Deep Medium Vehicle Trench	220.55	
26 05 43 00-0067	EA		End Wall, 40" Wide x 15" Deep Medium Vehicle Trench	146.65	
26 05 43 00-0068	EA		End Wall, 40" Wide x 24" Deep Medium Vehicle Trench	201.50	
26 05 43 00-0069	LF		Lid, Concrete 40" Wide Medium Vehicle Trench	122.60	
26 05 43 00-0070	LF		Lid, Galvanized Steel 40" Wide Medium Vehicle Trench	671.73	
26 05 43 00-0071			Precast Concrete Trenches, One Piece H20 Road Crossing Trench (26 05 43)		
Note: H20 Rated for 32000 lbs Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.					
26 05 43 00-0072			10" Wide H20 Road Crossing Trench (26 05 43 00-0071)		
26 05 43 00-0073	LF		Base, Solid Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench	217.09	
26 05 43 00-0074	LF		Base, Open Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench	206.55	
26 05 43 00-0075	LF		Base, Solid Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench	271.07	
26 05 43 00-0076	LF		Base, Open Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench	257.77	
26 05 43 00-0077	LF		Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench	208.41	
26 05 43 00-0078	LF		Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench	198.37	
26 05 43 00-0079	LF		Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench	262.38	
26 05 43 00-0080	LF		Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench	249.63	
26 05 43 00-0081	EA		End Wall for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench	143.23	
26 05 43 00-0082	EA		End Wall for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench	193.86	
26 05 43 00-0083	EA		End Wall for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench	129.46	
26 05 43 00-0084	EA		End Wall for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench	179.78	
26 05 43 00-0085	LF		Lid, Concrete 10" Wide Road Crossing Trench	99.99	
26 05 43 00-0086	LF		Lid, Galvanized Steel 10" Wide Road Crossing Trench	323.81	
26 05 43 00-0087			20" Wide H20 Road Crossing Trench (26 05 43 00-0071)		
26 05 43 00-0088	LF		Base, Solid Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench	229.83	
26 05 43 00-0089	LF		Base, Open Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench	219.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0090 LF Base, Solid Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench	303.88	
26 05 43 00-0091 LF Base, Open Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench	289.41	
26 05 43 00-0092 LF Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench	229.83	
26 05 43 00-0093 LF Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench	219.01	
26 05 43 00-0094 LF Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench	295.19	
26 05 43 00-0095 LF Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench	281.27	
26 05 43 00-0096 EA End Wall for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench	204.64	
26 05 43 00-0097 EA End Wall for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench	278.39	
26 05 43 00-0098 EA End Wall for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench	184.57	
26 05 43 00-0099 EA End Wall for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench	258.32	
26 05 43 00-0100 LF Lid, Concrete 20" Wide Road Crossing Trench	111.42	
26 05 43 00-0101 LF Lid, Galvanized Steel 20" Wide Road Crossing Trench	480.47	
26 05 43 00-0102 30" Wide H20 Road Crossing Trench <small>(26 05 43 00-0071)</small>		
26 05 43 00-0103 LF Base, Solid Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench	270.94	
26 05 43 00-0104 LF Base, Open Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench	258.58	
26 05 43 00-0105 LF Base, Solid Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench	335.04	
26 05 43 00-0106 LF Base, Open Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench	319.67	
26 05 43 00-0107 LF Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench	262.26	
26 05 43 00-0108 LF Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench	250.40	
26 05 43 00-0109 LF Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench	326.35	
26 05 43 00-0110 LF Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench	311.23	
26 05 43 00-0111 EA End Wall for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench	272.71	
26 05 43 00-0112 EA End Wall for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench	361.30	
26 05 43 00-0113 EA End Wall for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench	246.35	
26 05 43 00-0114 EA End Wall for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench	334.95	
26 05 43 00-0115 LF Lid, Concrete 30" Wide Road Crossing Trench	141.08	
26 05 43 00-0116 LF Lid, Galvanized Steel 30" Wide Road Crossing Trench	602.53	
26 05 43 00-0117 40" Wide H20 Road Crossing Trench <small>(26 05 43 00-0071)</small>		
26 05 43 00-0118 LF Base, Solid Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench	298.74	
26 05 43 00-0119 LF Base, Open Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench	285.44	
26 05 43 00-0120 LF Base, Solid Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench	367.82	
26 05 43 00-0121 LF Base, Open Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench	351.14	
26 05 43 00-0122 LF Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench	290.05	
26 05 43 00-0123 LF Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench	277.30	
26 05 43 00-0124 LF Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench	359.13	
26 05 43 00-0125 LF Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench	342.96	
26 05 43 00-0126 EA End Wall for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench	338.34	
26 05 43 00-0127 EA End Wall for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench	448.00	
26 05 43 00-0128 EA End Wall for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench	305.99	
26 05 43 00-0129 EA End Wall for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench	415.65	
26 05 43 00-0130 LF Lid, Concrete 40" Wide Road Crossing Trench	170.37	
26 05 43 00-0131 LF Lid, Galvanized Steel 40" Wide Road Crossing Trench	819.39	
26 05 43 00-0132 Duct Bank <small>(26 05 43)</small>		
Note: Installation of single or multiple configuration underground utility raceways to have 3" concrete leveling base and encased in concrete envelope. Based on 100' run, minimum 30" bury depth. Includes installation in trench using the appropriate supports, cleaning to remove any obstructions and installation of nylon pull string. Excludes trenching, concrete, backfilling, grading and seeding. Duct Banks are to be installed according to the appropriate sections of the accompanying specifications. Individual rows to be stacked for larger duct bank configurations.		
26 05 43 00-0133 Rigid Galvanized Steel Conduit, Galvanized Rigid Conduit (GRC) Or Rigid Galvanized Steel (RGS), Duct Bank <small>(26 05 43 00-0132)</small>		
Note: Includes appropriate spacers and fittings.		
26 05 43 00-0134 LF 2 At 2", Rigid Galvanized Conduit Duct Bank	38.54	
26 05 43 00-0135 LF 4 At 2", Rigid Galvanized Conduit Duct Bank	77.10	
26 05 43 00-0136 LF 2 At 3", Rigid Galvanized Conduit Duct Bank	80.33	
26 05 43 00-0137 LF 4 At 3", Rigid Galvanized Conduit Duct Bank	161.16	
26 05 43 00-0138 LF 2 At 4", Rigid Galvanized Conduit Duct Bank	118.45	
26 05 43 00-0139 LF 4 At 4", Rigid Galvanized Conduit Duct Bank	237.89	
26 05 43 00-0140 LF 6 At 4", Rigid Galvanized Conduit Duct Bank	356.94	
26 05 43 00-0141 LF 2 At 5", Rigid Galvanized Conduit Duct Bank	227.96	
26 05 43 00-0142 LF 4 At 5", Rigid Galvanized Conduit Duct Bank	454.91	
26 05 43 00-0143 LF 6 At 5", Rigid Galvanized Conduit Duct Bank	697.45	
26 05 43 00-0144 LF 2 At 6", Rigid Galvanized Conduit Duct Bank	323.38	
26 05 43 00-0145 LF 4 At 6", Rigid Galvanized Conduit Duct Bank	649.23	
26 05 43 00-0146 LF 6 At 6", Rigid Galvanized Conduit Duct Bank	967.86	
26 05 43 00-0147 Polyvinyl Chloride (PVC), Type EB Duct Bank System <small>(26 05 43 00-0132)</small>		
Note: Includes appropriate spacers and fittings.		
26 05 43 00-0148 LF 1 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	6.95	
26 05 43 00-0149 LF 2 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	15.29	
26 05 43 00-0150 LF 4 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	29.34	
26 05 43 00-0151 LF 1 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	9.20	
26 05 43 00-0152 LF 2 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	18.38	
26 05 43 00-0153 LF 4 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank	37.33	

26 Electrical

26 05 Common Work Results for Electrical

26 05 43 Underground Ducts and Raceways for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 05 43 00-0154	LF		1 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	12.29	
26 05 43 00-0155	LF		2 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	24.59	
26 05 43 00-0156	LF		4 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	49.23	
26 05 43 00-0157	LF		6 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	73.81	
26 05 43 00-0158	LF		1 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	15.50	
26 05 43 00-0159	LF		2 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	30.98	
26 05 43 00-0160	LF		4 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	59.96	
26 05 43 00-0161	LF		6 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	84.97	
26 05 43 00-0162	LF		1 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	27.59	
26 05 43 00-0163	LF		2 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	41.94	
26 05 43 00-0164	LF		4 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	84.08	
26 05 43 00-0165	LF		6 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	136.02	

26 05 43 00-0166 Polyvinyl Chloride (PVC), Type DB Duct Bank System (26 05 43 00-0132)

Note: Includes appropriate spacers and fittings.

26 05 43 00-0167	LF		1 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	7.73	
26 05 43 00-0168	LF		2 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	16.89	
26 05 43 00-0169	LF		4 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	32.33	
26 05 43 00-0170	LF		1 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	9.55	
26 05 43 00-0171	LF		2 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	19.08	
26 05 43 00-0172	LF		4 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	38.04	
26 05 43 00-0173	LF		1 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	12.57	
26 05 43 00-0174	LF		2 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	25.16	
26 05 43 00-0175	LF		4 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	50.36	
26 05 43 00-0176	LF		6 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	75.52	
26 05 43 00-0177	LF		1 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	15.93	
26 05 43 00-0178	LF		2 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	31.83	
26 05 43 00-0179	LF		4 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	61.67	
26 05 43 00-0180	LF		6 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	87.54	
26 05 43 00-0181	LF		1 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	28.19	
26 05 43 00-0182	LF		2 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	43.17	
26 05 43 00-0183	LF		4 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	86.54	
26 05 43 00-0184	LF		6 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	139.72	

26 05 43 00-0185 Male Or Female Adapters (26 05 43 00-0132)

26 05 43 00-0186	EA		2" Adapter.....	39.39	
26 05 43 00-0187	EA		3" Adapter.....	59.56	
26 05 43 00-0188	EA		4" Adapter.....	77.95	
26 05 43 00-0189	EA		5" Adapter.....	127.91	
26 05 43 00-0190	EA		6" Adapter.....	156.24	

26 05 46 Utility Poles for Electrical Systems (26 05)

26 05 46 00-0001 Wood Poles (26 05 46)

26 05 46 00-0002 Wood Pole, Class 3, Penta-Treated To 8 LB Retention (26 05 46 00-0001)

Note: Machine dig and set.

26 05 46 00-0003	EA		25' Treated Wood Pole, Class 3, Machine Dig And Set.....	914.84	296.38
			<i>For Class 1 Pole, Add</i>	112.69	
			<i>For Class 2 Pole, Add</i>	64.39	
			<i>For Class 4 Pole, Deduct</i>	-32.20	
			<i>For Class 5 Pole, Deduct</i>	-96.59	
			<i>For Class 6 Pole, Deduct</i>	-128.79	
26 05 46 00-0004	EA		30' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,094.85	328.83
			<i>For Class 1 Pole, Add</i>	153.00	
			<i>For Class 2 Pole, Add</i>	87.43	
			<i>For Class 4 Pole, Deduct</i>	-43.71	
			<i>For Class 5 Pole, Deduct</i>	-131.14	
			<i>For Class 6 Pole, Deduct</i>	-174.86	
26 05 46 00-0005	EA		35' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,419.40	434.91
			<i>For Class 1 Pole, Add</i>	192.40	
			<i>For Class 2 Pole, Add</i>	109.94	
			<i>For Class 4 Pole, Deduct</i>	-54.97	
			<i>For Class 5 Pole, Deduct</i>	-164.91	
			<i>For Class 6 Pole, Deduct</i>	-219.88	
26 05 46 00-0006	EA		40' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,624.17	478.35
			<i>For Class 1 Pole, Add</i>	233.63	
			<i>For Class 2 Pole, Add</i>	133.50	
			<i>For Class 4 Pole, Deduct</i>	-66.75	
			<i>For Class 5 Pole, Deduct</i>	-200.25	
			<i>For Class 6 Pole, Deduct</i>	-267.00	
26 05 46 00-0007	EA		45' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,856.17	532.77
			<i>For Class 1 Pole, Add</i>	276.68	
			<i>For Class 2 Pole, Add</i>	158.10	
			<i>For Class 4 Pole, Deduct</i>	-79.05	
			<i>For Class 5 Pole, Deduct</i>	-237.16	
			<i>For Class 6 Pole, Deduct</i>	-316.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0008 EA 50' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,112.00	597.93
<i>For Class 1 Pole, Add</i>	320.66	
<i>For Class 2 Pole, Add</i>	183.23	
<i>For Class 4 Pole, Deduct</i>	-91.62	
<i>For Class 5 Pole, Deduct</i>	-274.85	
<i>For Class 6 Pole, Deduct</i>	-366.47	
26 05 46 00-0009 EA 55' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,362.46	657.66
<i>For Class 1 Pole, Add</i>	366.47	
<i>For Class 2 Pole, Add</i>	209.41	
<i>For Class 4 Pole, Deduct</i>	-104.71	
<i>For Class 5 Pole, Deduct</i>	-314.12	
<i>For Class 6 Pole, Deduct</i>	-418.82	
26 05 46 00-0010 EA 60' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,640.15	723.20
<i>For Class 1 Pole, Add</i>	417.77	
<i>For Class 2 Pole, Add</i>	238.73	
<i>For Class 4 Pole, Deduct</i>	-119.36	
<i>For Class 5 Pole, Deduct</i>	-358.09	
<i>For Class 6 Pole, Deduct</i>	-477.46	
26 05 46 00-0011 EA 65' Treated Wood Pole, Class 3, Machine Dig And Set.....	4,326.88	788.24
<i>For Class 1 Pole, Add</i>	962.62	
<i>For Class 2 Pole, Add</i>	550.07	
<i>For Class 4 Pole, Deduct</i>	-275.04	
<i>For Class 5 Pole, Deduct</i>	-825.11	
<i>For Class 6 Pole, Deduct</i>	-1,100.14	
26 05 46 00-0012 EA 70' Treated Wood Pole, Class 3, Machine Dig And Set.....	4,751.82	838.50
<i>For Class 1 Pole, Add</i>	1,076.18	
<i>For Class 2 Pole, Add</i>	614.96	
<i>For Class 4 Pole, Deduct</i>	-307.48	
<i>For Class 5 Pole, Deduct</i>	-922.44	
<i>For Class 6 Pole, Deduct</i>	-1,229.92	
26 05 46 00-0013 EA 75' Treated Wood Pole, Class 3, Machine Dig And Set.....	5,223.62	895.58
<i>For Class 1 Pole, Add</i>	1,201.34	
<i>For Class 2 Pole, Add</i>	686.48	
<i>For Class 4 Pole, Deduct</i>	-343.24	
<i>For Class 5 Pole, Deduct</i>	-1,029.72	
<i>For Class 6 Pole, Deduct</i>	-1,372.96	
26 05 46 00-0014 Removal And Relocation Of Wood Poles With Cross Arm (26 05 46 00-0001)		
26 05 46 00-0015 LF Removal And Relocation Of Up To 75' Wood Pole With Cross Arms	25.26	
26 05 46 00-0016 Crossarms (26 05 46)		
Note: Includes hardware and braces.		
26 05 46 00-0017 Wood Single Arm Crossarms (26 05 46 00-0016)		
26 05 46 00-0018 EA 3-1/2" x 4-1/2" x 5'-7", Single Arm Wood Crossarm, With Hardware And Braces.....	217.33	88.40
26 05 46 00-0019 EA 3-1/2" x 4-1/2" x 8'-0", Single Arm Wood Crossarm, With Hardware And Braces.....	262.63	88.40
26 05 46 00-0020 EA 3-3/4" x 4-3/4" x 10'-0", Single Arm Wood Crossarm, With Hardware And Braces.....	275.66	113.65
26 05 46 00-0021 Wood Double Arm Crossarms (26 05 46 00-0016)		
26 05 46 00-0022 EA 3-1/2" x 4-1/2" x 5'-7", Double Arm Wood Crossarm, With Hardware And Braces	559.41	246.25
26 05 46 00-0023 EA 3-1/2" x 4-1/2" x 8'-0", Double Arm Wood Crossarm, With Hardware And Braces	595.74	246.25
26 05 46 00-0024 EA 3-3/4" x 4-3/4" x 10'-0", Double Arm Wood Crossarm, With Hardware And Braces	620.08	246.25
26 05 46 00-0025 Fiberglass Crossarms (26 05 46 00-0016)		
Note: Includes hardware.		
26 05 46 00-0026 Single Phase, 15 Degree Angle (26 05 46 00-0025)		
26 05 46 00-0027 EA Fiberglass Cutout And Arrestor Bracket, 18", Minimum Ultimate Load 800 LB	227.15	
26 05 46 00-0028 EA Fiberglass Insulator Bracket, 14", 11/16" Diameter Hole, Minimum Ultimate Load 1,200 LB	289.44	53.04
26 05 46 00-0029 EA Fiberglass Insulator Bracket, 14", 1" Lead Threaded, Minimum Ultimate Load 1,200 LB.....	302.06	56.82
26 05 46 00-0030 Two Phase, 15 Degree Angle (26 05 46 00-0025)		
26 05 46 00-0031 EA Fiberglass Insulator Bracket, 36", Minimum Ultimate Load 1,200 LB	361.80	68.19
26 05 46 00-0032 Fiberglass Crossarm Accessories (26 05 46 00-0025)		
26 05 46 00-0033 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 7,000 LB Per Conductor	623.05	87.13
26 05 46 00-0034 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 12,000 LB Per Conductor	738.24	106.08
26 05 46 00-0035 EA Pole Top Pin, Hot Dip Galvanized, 18", 1" Lead Threaded.....	108.35	15.15
26 05 46 00-0036 EA Three Phase Equipment Mounting Bracket	541.77	75.77
26 05 46 00-0037 EA Fiberglass Bull Horn Crossarm	426.08	126.28
26 05 46 00-0038 Insulator Support System (26 05 46 00-0016)		
26 05 46 00-0039 Epoxy Construction Units, In Place Mounting (26 05 46 00-0038)		
Note: Includes hardware.		
26 05 46 00-0040 EA 1-1/2" Diameter x 19" Long Pole Side Pins Vertical (1 Arm Installed), In Place Mounting.....	127.95	
26 05 46 00-0041 EA 1-1/2" Diameter x 15" Long Pole Top Pins, In Place Mounting.....	104.78	

26 Electrical
26 05 Common Work Results for Electrical
26 05 46 Utility Poles for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0042	EA		Deadend Arms, In Place Mounting	305.21	
26 05 46 00-0043	EA		1-1/2" Diameter x 18" Long Pole Side Pins Vertical (2 Arms Installed), In Place Mounting	204.84	
26 05 46 00-0044			Epoxy Construction Units, Grounding Mounting <small>(26 05 46 00-0038)</small> Note: Includes hardware.		
26 05 46 00-0045	EA		1-1/2" Diameter x 18" Long Pole Side Pins Vertical, Grounding Mounting	91.40	
26 05 46 00-0046	EA		1-1/2" Diameter x 15" Long Pole Top Pins, Grounding Mounting	80.41	
26 05 46 00-0047	EA		Deadend Arms, Grounding Mounting.....	280.84	
26 05 46 00-0048			Guying <small>(26 05 46)</small> Note: Includes cable, anchor and rod assembly, guy marker.		
26 05 46 00-0049			Down Guy <small>(26 05 46 00-0048)</small>		
26 05 46 00-0050	EA		Down Guy For 25' To 40' Pole	892.63	353.58
26 05 46 00-0051	EA		Down Guy For 45' To 60' Pole	910.13	353.58
26 05 46 00-0052	EA		Down Guy For 65' To 75' Pole	946.12	353.58
26 05 46 00-0053	EA		Guy Guard, Plastic.....	38.62	
26 05 46 00-0054			Head Guy, 50' Spans <small>(26 05 46 00-0048)</small>		
26 05 46 00-0055	EA		Head Guy (50' Span), For 25' To 40' Pole	1,277.53	543.00
26 05 46 00-0056	EA		Head Guy (50' Span), For 45' To 60' Pole	1,277.53	543.00
26 05 46 00-0057	EA		Head Guy (50' Span), For 65' To 75' Pole	1,277.53	543.00
26 05 46 00-0058			Guy Strain Insulators Additional Insulators <small>(26 05 46 00-0048)</small> Note: As required at same material cost and labor.		
26 05 46 00-0059	EA		Guy Strain Insulator	537.18	265.19
26 05 46 00-0060			Insulators <small>(26 05 46)</small>		
26 05 46 00-0061			Pin Insulator With Pin <small>(26 05 46 00-0060)</small>		
26 05 46 00-0062	EA		5 KV Class 55-3, Pin Insulator With Pin	173.49	75.77
26 05 46 00-0063	EA		15 KV Class 55-5, Pin Insulator With Pin.....	180.77	75.77
26 05 46 00-0064			Suspension Insulator <small>(26 05 46 00-0060)</small> Note: Includes clevis and strain clamp.		
26 05 46 00-0065	EA		5 KV Class 52-2, Suspension Insulator, With Clevis And Strain Clamp.....	223.80	101.03
26 05 46 00-0066	EA		15 KV Class 52-4, Suspension Insulator, With Clevis And Strain Clamp	243.58	101.03
26 05 46 00-0067	EA		25 KV Class 2 x 52-4, Suspension Insulator, With Clevis And Strain Clamp	348.62	126.28
26 05 46 00-0068	EA		50 KV Class 4 x 52-4, Suspension Insulator, With Clevis And Strain Clamp	561.80	202.05
26 05 46 00-0069			Spool Insulator With Clevis <small>(26 05 46 00-0060)</small>		
26 05 46 00-0070	EA		5 KV Class 53-5, Spool Insulator With Clevis	74.52	31.57
26 05 46 00-0071	EA		15 KV Class, Spool Insulator With Clevis	241.24	113.65
26 05 46 00-0072	EA		25 KV Class, Spool Insulator With Clevis	312.21	113.65
26 05 46 00-0073			Secondary Rack <small>(26 05 46 00-0060)</small>		
26 05 46 00-0074	EA		1 Spool Secondary Rack	147.63	63.14
26 05 46 00-0075	EA		2 Spool Secondary Rack	154.02	80.57
26 05 46 00-0076	EA		3 Spool Secondary Rack	230.31	107.33
26 05 46 00-0077	EA		4 Spool Secondary Rack	257.95	107.33
26 05 46 00-0078			Outdoor Load Break Switches <small>(26 05 46)</small> Note: 3-Phase, group operated, 3-insulator, vertical break, high strength pin insulators worm gear operating mechanism operating rods, mechanisms, and switch bases are galvanized steel.		
26 05 46 00-0079			7.2 KV Outdoor Load Break Switches <small>(26 05 46 00-0078)</small>		
26 05 46 00-0080	EA		600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	4,290.01	429.35
26 05 46 00-0081	EA		1,200 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	8,383.75	429.35
26 05 46 00-0082	EA		1,600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	12,484.87	726.11
26 05 46 00-0083	EA		2,000 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	12,745.99	726.11
26 05 46 00-0084			14.4 KV Outdoor Load Break Switches <small>(26 05 46 00-0078)</small>		
26 05 46 00-0085	EA		600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	5,235.55	429.35
26 05 46 00-0086	EA		1,200 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	9,901.22	429.35
26 05 46 00-0087	EA		1,600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	12,484.87	726.11
26 05 46 00-0088	EA		2,000 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	12,745.99	726.11
26 05 46 00-0089			23 KV Outdoor Load Break Switches <small>(26 05 46 00-0078)</small>		
26 05 46 00-0090	EA		600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	5,775.07	498.81
26 05 46 00-0091	EA		1,200 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	10,835.81	498.81



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0092 EA 1,600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	13,053.22	858.70
26 05 46 00-0093 EA 2,000 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	13,322.89	858.70
26 05 46 00-0094 Square Distribution Poles (26 05 46)		
26 05 46 00-0095 Square Steel Tapered Shaft Distribution Poles (26 05 46 00-0094)		
26 05 46 00-0096 EA 20', Steel Taped Shaft Distribution Pole	3,535.14	536.70
26 05 46 00-0097 EA 25', Steel Taped Shaft Distribution Pole	3,952.24	568.26
26 05 46 00-0098 EA 30', Steel Taped Shaft Distribution Pole	4,284.85	631.40
26 05 46 00-0099 EA 35', Steel Taped Shaft Distribution Pole	4,742.48	694.54
26 05 46 00-0100 EA 40', Steel Taped Shaft Distribution Pole	6,472.54	757.68
26 05 46 00-0101 Square Prestressed Concrete Distribution Poles (26 05 46 00-0094)		
26 05 46 00-0102 EA 30', Prestressed Concrete Square Pole For Distribution.....	4,602.04	926.54
26 05 46 00-0103 EA 35', Prestressed Concrete Square Pole For Distribution.....	5,198.37	1,016.21
26 05 46 00-0104 EA 40', Prestressed Concrete Square Pole For Distribution.....	6,099.67	1,135.76
26 05 46 00-0105 EA 45', Prestressed Concrete Square Pole For Distribution.....	6,872.99	1,255.32
26 05 46 00-0106 EA 50', Prestressed Concrete Square Pole For Distribution.....	5,585.54	1,524.31
26 05 46 00-0107 EA 55', Prestressed Concrete Square Pole For Distribution.....	9,693.66	1,793.31
26 05 46 00-0108 EA 60', Prestressed Concrete Square Pole For Distribution.....	11,436.89	2,032.42
26 05 46 00-0109 EA 65', Prestressed Concrete Square Pole For Distribution.....	13,805.09	2,510.63
26 05 46 00-0110 EA 70', Prestressed Concrete Square Pole For Distribution.....	15,463.26	2,749.74
26 05 46 00-0111 Aluminum Tapered Poles (26 05 46)		
26 05 46 00-0112 Aluminum Tapered Round Seamless Shaft Poles (26 05 46 00-0111)		
26 05 46 00-0113 EA 20', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	2,542.65	473.55
26 05 46 00-0114 EA 25', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	3,492.79	505.12
26 05 46 00-0115 EA 30', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	4,010.62	568.26
26 05 46 00-0116 EA 35', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	4,735.15	631.40
26 05 46 00-0117 EA 40', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	7,032.56	694.54
26 05 46 00-0118 Steel Service Poles Distribution (26 05 46)		
Note: Direct embedded, bearing plate on base end, pole cap on top end, grounding nut, galvanized finish.		
26 05 46 00-0119 Round Tapered Pole (26 05 46 00-0118)		
26 05 46 00-0120 EA 40', Galvanized Steel Tapered Round Pole For Distribution.....	3,628.94	757.68
26 05 46 00-0121 EA 45', Galvanized Steel Tapered Round Pole For Distribution.....	4,180.82	820.83
26 05 46 00-0122 EA 50', Galvanized Steel Tapered Round Pole For Distribution.....	4,460.04	883.96
26 05 46 00-0123 EA 55', Galvanized Steel Tapered Round Pole For Distribution.....	5,234.78	1,010.24
26 05 46 00-0124 EA 60', Galvanized Steel Tapered Round Pole For Distribution.....	6,407.99	1,136.52
26 05 46 00-0125 EA 65', Galvanized Steel Tapered Round Pole For Distribution.....	7,550.45	1,404.76
26 05 46 00-0126 EA 70', Galvanized Steel Tapered Round Pole For Distribution.....	8,422.83	1,593.65
26 05 46 00-0127 EA 75', Galvanized Steel Tapered Round Pole For Distribution.....	9,321.49	1,793.31
26 05 46 00-0128 EA 80', Galvanized Steel Tapered Round Pole For Distribution.....	10,482.12	2,032.42
26 05 46 00-0129 EA 85', Galvanized Steel Tapered Round Pole For Distribution.....	11,193.82	2,151.98
26 05 46 00-0130 EA 90', Galvanized Steel Tapered Round Pole For Distribution.....	12,181.87	2,391.08
26 05 46 00-0131 EA 95', Galvanized Steel Tapered Round Pole For Distribution.....	13,405.94	2,689.96
26 05 46 00-0132 EA 100', Galvanized Steel Tapered Round Pole For Distribution.....	14,857.67	3,048.63
26 05 46 00-0133 12 Sided Tapered (26 05 46 00-0118)		
26 05 46 00-0134 EA 40', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	5,894.18	757.68
26 05 46 00-0135 EA 45', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	6,495.14	820.83
26 05 46 00-0136 EA 50', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	7,178.45	883.96
26 05 46 00-0137 EA 55', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	7,910.28	1,010.24
26 05 46 00-0138 EA 60', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	10,393.71	1,136.52
26 05 46 00-0139 EA 65', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	11,560.69	1,404.76
26 05 46 00-0140 EA 70', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	13,375.89	1,593.65
26 05 46 00-0141 EA 75', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	14,430.67	1,793.31
26 05 46 00-0142 EA 80', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	15,584.89	2,032.42
26 05 46 00-0143 EA 85', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	16,514.28	2,151.98
26 05 46 00-0144 EA 90', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	18,723.72	2,391.08
26 05 46 00-0145 EA 95', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	19,929.46	2,689.96
26 05 46 00-0146 EA 100', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	21,424.02	3,048.63
26 05 46 00-0147 EA 105', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	23,011.74	3,407.29
26 05 46 00-0148 Standard Options For Round, 12 Sided and Octagonal Tapered Poles (26 05 46 00-0118)		
26 05 46 00-0149 EA Ladder Clips.....	20.11	
26 05 46 00-0150 EA Coal Tar Epoxy Coating From Base To 1' Above Ground Line.....	150.87	
26 05 46 00-0151 EA Ground Sleeve-2' At Ground Line.....	151.75	
26 05 46 00-0152 Arms With Baseplates And Endplates (26 05 46 00-0118)		
26 05 46 00-0153 EA 4' Arm With Baseplate And Endplate.....	761.52	126.28

26 Electrical**26 05 Common Work Results for Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0154 EA 5' Arm With Baseplate And Endplate	830.53	126.28
26 05 46 00-0155 EA 6' Arm With Baseplate And Endplate	1,026.82	189.42
26 05 46 00-0156 EA 7' Arm With Baseplate And Endplate	1,087.18	189.42
26 05 46 00-0157 EA 8' Arm With Baseplate And Endplate	1,281.52	252.56
26 05 46 00-0158 EA 9' Arm With Baseplate And Endplate	1,350.49	252.56
26 05 46 00-0159 EA 10' Arm With Baseplate And Endplate	1,796.00	315.70
26 05 46 00-0160 EA 11' Arm With Baseplate And Endplate	1,873.43	315.70
26 05 46 00-0161 Standard Vangs Load Bearing At Any Angle (26 05 46 00-0118)		
26 05 46 00-0162 EA 15,000 LB Standard Vangs Load Bearing At Any Angle	309.48	126.28
26 05 46 00-0163 EA 30,000 LB Standard Vangs Load Bearing At Any Angle	351.75	126.28
26 05 46 00-0164 EA 45,000 LB Standard Vangs Load Bearing At Any Angle	409.57	126.28
26 05 46 00-0165 Armless Construction Brackets (26 05 46 00-0118)		
26 05 46 00-0166 Verticals Insulator And Equipment Bracket (26 05 46 00-0165)		
26 05 46 00-0167 EA 7" 1 Position Vertical Insulation And Equipment Bracket	316.37	126.28
26 05 46 00-0168 EA 12" 1 Position Vertical Insulation And Equipment Bracket	343.06	126.28
26 05 46 00-0169 EA 12" 3 Position Vertical Insulation And Equipment Bracket	386.44	126.28
26 05 46 00-0170 EA 18" 1 Position Vertical Insulation And Equipment Bracket	540.95	189.42
26 05 46 00-0171 EA 18" 3 Position Vertical Insulation And Equipment Bracket	566.28	189.42
26 05 46 00-0172 Horizontal And Multiple Insulator Brackets (26 05 46 00-0165)		
26 05 46 00-0173 EA Sidepole 1 7/8" Clearance Horizontal And Multiple Insulation Brackets	295.58	126.28
26 05 46 00-0174 EA Sidepole 2" Clearance Horizontal And Multiple Insulation Brackets	351.68	126.28
26 05 46 00-0175 EA Sidepole 9" Clearance Horizontal And Multiple Insulation Brackets	513.78	189.42
26 05 46 00-0176 EA Sidepole 10" Clearance Horizontal And Multiple Insulation Brackets	646.17	189.42
26 05 46 00-0177 EA Sidepole 15" Clearance Horizontal And Multiple Insulation Brackets	827.75	252.56
26 05 46 00-0178 EA Sidepole 20" Clearance Horizontal And Multiple Insulation Brackets	898.02	252.56
26 05 46 00-0179 Pole Top Bracket And Pins (26 05 46 00-0165)		
26 05 46 00-0180 EA Pole Top Pin - 5"	303.72	126.28
26 05 46 00-0181 EA Pole Top Bracket - 5"	317.34	126.28
26 05 46 00-0182 Angle Pins (26 05 46 00-0165)		
26 05 46 00-0183 EA Angle Pin - 25 Degree, 6"	301.88	126.28
26 05 46 00-0184 EA Angle Pin - 25 Degree, 7 1/4"	346.12	126.28
26 05 46 00-0185 Static And Neutral Wire Brackets (26 05 46 00-0165)		
26 05 46 00-0186 EA Neutral Wire Extension Bracket	320.04	126.28
26 05 46 00-0187 EA Static Wire Support Bracket	324.88	126.28
26 05 46 00-0188 Cutout, Arrestor And Terminator Brackets (26 05 46 00-0165)		
26 05 46 00-0189 EA Cutout And Arrestor, With Mounting Bracket	282.49	126.28
26 05 46 00-0190 EA Equipment Mounting T Bracket	302.08	126.28
26 05 46 00-0191 EA 15 KV Cutout	391.73	
26 05 46 00-0192 EA 9/10 KV Arrestor	364.18	126.28
26 05 46 00-0193 Spacer Cable, Conduit Support And Cluster Bracket (26 05 46 00-0165)		
26 05 46 00-0194 EA Parallel Cable Spacer	354.77	126.28
26 05 46 00-0195 EA Conduit Standoff Support Bracket	339.33	126.28
26 05 46 00-0196 EA Three Transformer Pole Mounted Cluster Bracket	874.80	126.28
26 05 46 00-0197 15 KV, 200 Amperes, Solenoid Operated High Voltage Switch (26 05 46 00-0165)		
Note: Includes pole mounting bracket.		
26 05 46 00-0198 EA 15 KV, 1 Phase, Solenoid Switch With Pole Bracket	1,845.42	315.70
26 05 46 00-0199 Octagonal Tapered (26 05 46 00-0118)		
26 05 46 00-0200 EA 40', Galvanized Steel Tapered Octagonal Pole For Distribution	6,062.54	757.68
26 05 46 00-0201 EA 45', Galvanized Steel Tapered Octagonal Pole For Distribution	6,681.88	820.83
26 05 46 00-0202 EA 50', Galvanized Steel Tapered Octagonal Pole For Distribution	7,386.62	883.96
26 05 46 00-0203 EA 55', Galvanized Steel Tapered Octagonal Pole For Distribution	8,136.81	1,073.38
26 05 46 00-0204 EA 60', Galvanized Steel Tapered Octagonal Pole For Distribution	10,705.96	1,136.52
26 05 46 00-0205 EA 65', Galvanized Steel Tapered Octagonal Pole For Distribution	11,897.43	1,404.76
26 05 46 00-0206 EA 70', Galvanized Steel Tapered Octagonal Pole For Distribution	13,767.73	1,494.43
26 05 46 00-0207 EA 75', Galvanized Steel Tapered Octagonal Pole For Distribution	14,848.53	1,793.31
26 05 46 00-0208 EA 80', Galvanized Steel Tapered Octagonal Pole For Distribution	16,027.23	1,912.87
26 05 46 00-0209 EA 85', Galvanized Steel Tapered Octagonal Pole For Distribution	16,982.65	2,151.98
26 05 46 00-0210 EA 90', Galvanized Steel Tapered Octagonal Pole For Distribution	19,257.91	2,271.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0211 EA 95', Galvanized Steel Tapered Octagonal Pole For Distribution	20,491.20	2,689.96
26 05 46 00-0212 EA 100', Galvanized Steel Tapered Octagonal Pole For Distribution	22,013.30	2,869.30
26 05 46 00-0213 EA 105', Galvanized Steel Tapered Octagonal Pole For Distribution	23,631.64	3,227.96
26 05 46 00-0214 Removal And Relocation Of Steel Service Poles (26 05 46 00-0118)		
26 05 46 00-0215 LF Removal And Relocation Of Steel Service Poles With Arms Up To 60'	44.19	
26 05 46 00-0216 Special Steel Bases For Poles (26 05 46 00-0118)		
26 05 46 00-0217 EA Spin-In Steel Base For Poles.....	266.42	
26 05 46 00-0218 EA Series 3, 25' Pole And less	295.98	63.14
26 05 46 00-0219 EA Series 4, 40' Pole And less	352.63	72.61
26 05 46 00-0220 EA Series 5, 50' Pole And less	402.97	78.93
26 05 46 00-0221 Primary Fuse Cutouts (26 05 46)		
Note: Interrupting rating RMS, amperes - 25,000 symmetric and 40,000 asymmetric.		
26 05 46 00-0222 Non-Loadbreak Current Limiting Primary Fuse Cutouts (26 05 46 00-0221)		
Note: Includes the fuse and cut-out switch.		
26 05 46 00-0223 8.3 KV-95 KV-BIL Non-Loadbreak Current Limiting (26 05 46 00-0222)		
26 05 46 00-0224 EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting	629.91	315.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	151.54	
26 05 46 00-0225 EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting	756.19	315.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	189.42	
26 05 46 00-0226 EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting	882.04	315.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	227.18	
26 05 46 00-0227 EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting	894.13	315.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	227.31	
26 05 46 00-0228 EA 200 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting	894.13	315.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	227.31	
26 05 46 00-0229 17.1 KV-95 KV-BIL Non-Loadbreak Current Limiting (26 05 46 00-0222)		
26 05 46 00-0230 EA 15 A Primary Fuse Cutout 17.1 KV - 95 KV Non-Loadbreak Current Limiting	629.91	252.56
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	151.54	
26 05 46 00-0231 17.1 KV-125 KV-BIL Non-Loadbreak Current Limiting (26 05 46 00-0222)		
26 05 46 00-0232 EA 15 A Primary Fuse Cutout 17.1 KV - 125 KV Non-Loadbreak Current Limiting	645.65	252.56
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	151.54	
26 05 46 00-0233 Fuseholders (26 05 46 00-0222)		
Note: Including current limiting fuse.		
26 05 46 00-0234 EA 15 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	563.58	315.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	151.54	
26 05 46 00-0235 EA 25 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	689.86	315.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	189.42	
26 05 46 00-0236 EA 40 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	815.71	315.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	227.18	
26 05 46 00-0237 EA 100 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting	569.03	315.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	151.54	
26 05 46 00-0238 EA 200 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting	695.31	315.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	189.42	
26 05 46 00-0239 EA 15 A 17.1 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting	563.58	252.56
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	151.54	
26 05 46 00-0240 Accessories (26 05 46 00-0222)		
26 05 46 00-0241 EA Hot Line Clamp	79.38	28.42
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	18.94	
26 05 46 00-0242 EA Stirrup	84.38	28.42
26 05 46 00-0243 Loadbreak Current Limiting Primary Fuse Cutouts (26 05 46 00-0221)		
Note: Includes fuse, cutout switch, crossarm mounting bracket and fuse holder.		
26 05 46 00-0244 8.3 KV-95 KV BIL Loadbreak Current Limiting (26 05 46 00-0243)		
26 05 46 00-0245 EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting	752.46	315.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	151.54	
26 05 46 00-0246 EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting	878.74	315.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	189.42	
26 05 46 00-0247 EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting	1,004.59	315.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	227.18	
26 05 46 00-0248 EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting	1,028.10	315.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	227.31	
26 05 46 00-0249 EA 200 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting	1,028.10	315.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	227.31	

26 Electrical**26 05 Common Work Results for Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0250 17.1 KV-95 KV BIL Loadbreak Current Limiting (26 05 46 00-0243)		
26 05 46 00-0251 EA 15 A Primary Fuse Cutout 17.1 KV - 95 KV Loadbreak Current Limiting.....752.46 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 151.54	752.46	252.56
26 05 46 00-0252 17.1 KV-125 KV BIL Loadbreak Current Limiting (26 05 46 00-0243)		
26 05 46 00-0253 EA 15 A Primary Fuse Cutout 17.1 KV - 125 KV Loadbreak Current Limiting.....752.46 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 151.54	752.46	252.56
26 05 46 00-0254 Fuseholders (26 05 46 00-0243) Note: Includes current limiting fuses.		
26 05 46 00-0255 EA 15 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting .....569.20 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 151.54	569.20	315.70
26 05 46 00-0256 EA 25 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting .....695.48 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 189.42	695.48	315.70
26 05 46 00-0257 EA 40 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting .....821.33 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 227.18	821.33	315.70
26 05 46 00-0258 EA 15 Amperes, 17.1 KV Primary Fuseholder With Fuse Loadbreak Current Limiting .....569.20 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 151.54	569.20	315.70
26 05 46 00-0259 Pole Mounted Capacitors (26 05 46 00-0243)		
26 05 46 00-0260 EA Capacitors - Pole Mounted 6 KVAR.....1,207.63	1,207.63	254.58
26 05 46 00-0261 Pole Structure Assemblies (26 05 46 00-0221)		
26 05 46 00-0262 5 KV Pole Structure Assemblies (26 05 46 00-0261) Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0263 EA Type OH-1, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....501.26	501.26	239.94
26 05 46 00-0264 EA Type OH-2, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....839.49	839.49	404.09
26 05 46 00-0265 EA Type OH-3, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....854.93	854.93	315.70
26 05 46 00-0266 EA Type OH-4, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....472.30	472.30	164.17
26 05 46 00-0267 EA Type OH-5, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....615.14	615.14	227.31
26 05 46 00-0268 EA Type OH-6, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....1,117.86	1,117.86	454.61
26 05 46 00-0269 EA Type OH-7, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....864.25	864.25	340.95
26 05 46 00-0270 EA Type OH-8, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....1,629.04	1,629.04	681.91
26 05 46 00-0271 EA Type OH-9, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....1,843.60	1,843.60	770.31
26 05 46 00-0272 EA Type OH-10, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....981.20	981.20	378.84
26 05 46 00-0273 EA Type OH-11, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....888.96	888.96	404.09
26 05 46 00-0274 EA Type OH-12, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....1,715.01	1,715.01	820.83
26 05 46 00-0275 EA Type OH-13, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....1,214.50	1,214.50	492.49
26 05 46 00-0276 EA Type OH-14, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....789.25	789.25	353.58
26 05 46 00-0277 EA Type OH-15, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....1,529.25	1,529.25	719.80
26 05 46 00-0278 EA Type OH-16, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....1,110.40	1,110.40	366.21
26 05 46 00-0279 15 KV Pole Structure Assemblies (26 05 46 00-0261) Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0280 EA Type OH-1, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....517.00	517.00	239.94
26 05 46 00-0281 EA Type OH-2, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....861.98	861.98	404.09
26 05 46 00-0282 EA Type OH-3, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....931.38	931.38	315.70
26 05 46 00-0283 EA Type OH-4, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....499.28	499.28	164.17
26 05 46 00-0284 EA Type OH-5, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....653.37	653.37	214.68
26 05 46 00-0285 EA Type OH-6, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....1,194.31	1,194.31	454.61
26 05 46 00-0286 EA Type OH-7, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....920.47	920.47	340.95
26 05 46 00-0287 EA Type OH-8, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....1,743.72	1,743.72	681.91
26 05 46 00-0288 EA Type OH-9, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....1,998.75	1,998.75	770.31
26 05 46 00-0289 EA Type OH-10, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....1,057.65	1,057.65	378.84
26 05 46 00-0290 EA Type OH-11, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....918.19	918.19	404.09
26 05 46 00-0291 EA Type OH-12, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....1,744.24	1,744.24	820.83
26 05 46 00-0292 EA Type OH-13, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....1,272.96	1,272.96	492.49
26 05 46 00-0293 EA Type OH-14, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....818.48	818.48	340.95
26 05 46 00-0294 EA Type OH-15, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....1,558.48	1,558.48	719.80
26 05 46 00-0295 EA Type OH-16, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....1,168.86	1,168.86	441.98
26 05 46 00-0296 25 KV Pole Structure Assemblies (26 05 46 00-0261) Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0297 EA Type OH-3, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....1,325.22	1,325.22	378.84
26 05 46 00-0298 EA Type OH-4, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....782.05	782.05	189.42
26 05 46 00-0299 EA Type OH-5, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....1,140.21	1,140.21	290.44
26 05 46 00-0300 EA Type OH-6, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....1,650.30	1,650.30	593.52
26 05 46 00-0301 EA Type OH-7, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....1,482.50	1,482.50	441.98
26 05 46 00-0302 EA Type OH-8, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....2,515.13	2,515.13	871.33
26 05 46 00-0303 EA Type OH-9, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....2,502.65	2,502.65	984.98
26 05 46 00-0304 EA Type OH-13, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....1,686.27	1,686.27	574.57
26 05 46 00-0305 EA Type OH-16, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....1,496.08	1,496.08	574.57



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0306				50 KV Pole Structure Assemblies <small>(26 05 46 00-0261)</small> Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
				26 05 46 00-0307 EA Type OH-3, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,781.01	517.75
				26 05 46 00-0308 EA Type OH-4, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	954.49	265.19
				26 05 46 00-0309 EA Type OH-5, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,275.83	416.72
				26 05 46 00-0310 EA Type OH-6, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,434.74	846.07
				26 05 46 00-0311 EA Type OH-7, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,856.41	631.40
				26 05 46 00-0312 EA Type OH-8, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	3,602.64	1,262.80
				26 05 46 00-0313 EA Type OH-9, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	4,195.80	1,401.70
				26 05 46 00-0314 EA Type OH-10, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,114.72	681.91
				26 05 46 00-0315 EA Type OH-13, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,205.83	789.25
				26 05 46 00-0316 EA Type OH-16, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,112.98	745.06
26 05 46 00-0317				Overhead To Underground Conversion Structures <small>(26 05 46 00-0221)</small> Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination and neutral wire brackets. Excludes pole.		
26 05 46 00-0318				5 KV Structures <small>(26 05 46 00-0317)</small> Note: Excludes pole.		
				26 05 46 00-0319 EA (3 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles.....	4,739.82	2,525.60
				26 05 46 00-0320 EA (3 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles.....	4,739.82	2,525.60
				26 05 46 00-0321 EA (4 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles.....	4,739.82	2,525.60
				26 05 46 00-0322 EA (4 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles.....	4,739.82	2,525.60
26 05 46 00-0323				15 KV Structures <small>(26 05 46 00-0317)</small> Note: Excludes pole.		
				26 05 46 00-0324 EA (3 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles.....	4,845.62	2,525.60
				26 05 46 00-0325 EA (3 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles.....	4,845.62	2,525.60
				26 05 46 00-0326 EA (4 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles.....	4,845.62	2,525.60
				26 05 46 00-0327 EA (4 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles.....	4,845.62	2,525.60
26 05 46 00-0328				25 KV Structures <small>(26 05 46 00-0317)</small> Note: Excludes pole.		
				26 05 46 00-0329 EA (3 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles.....	4,961.04	2,525.60
				26 05 46 00-0330 EA (3 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles.....	4,961.04	2,525.60
				26 05 46 00-0331 EA (4 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles.....	4,961.04	2,525.60
				26 05 46 00-0332 EA (4 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles.....	4,961.04	2,525.60
26 05 46 00-0333				Transformer Stations <small>(26 05 46 00-0221)</small> Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination, neutral wire brackets and transformer mounting bracket(s). Excludes pole and transformer.		
26 05 46 00-0334				5 KV Station <small>(26 05 46 00-0333)</small>		
				26 05 46 00-0335 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole.....	6,474.67	3,366.63
				26 05 46 00-0336 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 5 KV Transformer Station Without Pole.....	7,269.58	3,788.40
				26 05 46 00-0337 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole.....	8,064.49	4,208.92
				26 05 46 00-0338 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 5 KV Transformer Station Without Pole.....	8,064.49	4,208.92
				26 05 46 00-0339 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 5 KV Transformer Station Without Pole.....	6,474.67	3,366.63
26 05 46 00-0340				15 KV Stations <small>(26 05 46 00-0333)</small>		
				26 05 46 00-0341 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole.....	6,580.47	3,366.63
				26 05 46 00-0342 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 15 KV Transformer Station Without Pole.....	7,375.38	3,788.40
				26 05 46 00-0343 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole.....	8,170.28	4,208.92
				26 05 46 00-0344 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 15 KV Transformer Station Without Pole.....	8,170.28	4,208.92
				26 05 46 00-0345 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 15 KV Transformer Station Without Pole.....	6,580.47	3,366.63
26 05 46 00-0346				25 KV Stations <small>(26 05 46 00-0333)</small>		
				26 05 46 00-0347 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole.....	6,695.89	3,366.63
				26 05 46 00-0348 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 25 KV Transformer Station Without Pole.....	7,490.79	3,788.40
				26 05 46 00-0349 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole.....	8,285.70	4,208.92
				26 05 46 00-0350 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 25 KV Transformer Station Without Pole.....	8,285.70	4,208.92
				26 05 46 00-0351 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 25 KV Transformer Station Without Pole.....	6,695.89	3,366.63
26 05 53				Identification for Electrical Systems <small>(26 05)</small>		
26 05 53 00-0001				Conduit Markers Pressure-Sensitive <small>(26 05 53)</small> Note: Stick-on, includes arrow tape.		
				26 05 53 00-0002 EA 1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	11.95	
				26 05 53 00-0003 EA 3/4" Outside Diameter Pressure Sensitive Marker Stick-on.....	12.49	
				26 05 53 00-0004 EA 1" Outside Diameter Pressure Sensitive Marker Stick-on.....	13.58	
				26 05 53 00-0005 EA 1-1/4" Outside Diameter Pressure Sensitive Marker Stick-on.....	13.80	
				26 05 53 00-0006 EA 1-1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	14.01	
				26 05 53 00-0007 EA 2" Outside Diameter Pressure Sensitive Marker Stick-on.....	14.34	

26 Electrical**26 05 Common Work Results for Electrical****26 05 53 Identification for Electrical Systems**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 05 53 00-0008	EA	2-1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	16.69	
26 05 53 00-0009	EA	3" Outside Diameter Pressure Sensitive Marker Stick-on.....	17.12	
26 05 53 00-0010	EA	3-1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	17.44	
26 05 53 00-0011	EA	4" Outside Diameter Pressure Sensitive Marker Stick-on.....	17.78	
26 05 53 00-0012	EA	4-1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	18.46	
26 05 53 00-0013	EA	5" Outside Diameter Pressure Sensitive Marker Stick-on.....	19.19	
26 05 53 00-0014	EA	6" Outside Diameter Pressure Sensitive Marker Stick-on.....	19.82	
26 05 53 00-0015	EA	7" Outside Diameter Pressure Sensitive Marker Stick-on.....	20.47	
26 05 53 00-0016	EA	8" Outside Diameter Pressure Sensitive Marker Stick-on.....	22.39	
26 05 53 00-0017	EA	10" Outside Diameter Pressure Sensitive Marker Stick-on.....	23.58	

26 05 53 00-0018 Labeling Electrical Wires (26 05 53)

Note: Self-adhesive vinly coated white cloth

26 05 53 00-0019	EA	Labeling Wire.....	3.39	
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26 05 53 00-0020 Equipment Labeling (26 05 53)

26 05 53 00-0021	EA	Label Both Ends Of One 4 Pair Cable.....	21.33	
26 05 53 00-0022	EA	Label single gang face plate (2 labels required).....	17.06	
26 05 53 00-0023	EA	Label two gang face plate (4 labels required).....	25.60	
26 05 53 00-0024	EA	Label both ends of a Siamese (dual 4 Pair cable).....	21.33	

26 05 83 Wiring Connections (26 05)**26 05 83 00-0001 Tape Wrapped Compression Connectors (26 05 83)**

26 05 83 00-0002	EA	#6 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	14.93	4.87
26 05 83 00-0003	EA	#4 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	16.41	5.42
26 05 83 00-0004	EA	#2 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	17.83	5.96
26 05 83 00-0005	EA	1/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	20.72	6.51
26 05 83 00-0006	EA	2/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	22.29	7.05
26 05 83 00-0007	EA	3/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	24.76	7.59
26 05 83 00-0008	EA	4/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	26.55	8.13
26 05 83 00-0009	EA	250 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	28.95	8.67
26 05 83 00-0010	EA	300 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	32.02	9.75
26 05 83 00-0011	EA	350 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	33.56	10.30
26 05 83 00-0012	EA	400 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	37.51	10.84
26 05 83 00-0013	EA	500 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	40.93	11.38
26 05 83 00-0014	EA	750 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	45.80	12.46
26 05 83 00-0015	EA	1,000 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	53.24	14.08

26 05 83 00-0016 One Hole Compression Lugs (26 05 83)

26 05 83 00-0017	EA	#22-18 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	18.92	14.08
26 05 83 00-0018	EA	#16-14 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	19.08	14.08
26 05 83 00-0019	EA	#12-10 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	21.60	15.17
26 05 83 00-0020	EA	#8 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	26.97	16.80
26 05 83 00-0021	EA	#6 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	37.75	21.67
26 05 83 00-0022	EA	#4 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	44.04	21.67
26 05 83 00-0023	EA	#2 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	50.67	21.67
26 05 83 00-0024	EA	1/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	62.27	32.51
26 05 83 00-0025	EA	2/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	72.84	32.51
26 05 83 00-0026	EA	3/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	85.19	32.51
26 05 83 00-0027	EA	4/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	102.65	43.35
26 05 83 00-0028	EA	250 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	121.71	65.02
26 05 83 00-0029	EA	300 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	139.25	65.02
26 05 83 00-0030	EA	350 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	149.61	65.02
26 05 83 00-0031	EA	400 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	163.09	75.86
26 05 83 00-0032	EA	500 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	178.37	75.86
26 05 83 00-0033	EA	750 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	193.76	86.69
26 05 83 00-0034	EA	1,000 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	228.58	97.54

26 05 83 00-0035 Two Hole Compression Lugs (26 05 83)

26 05 83 00-0036	EA	#8 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	38.76	18.43
26 05 83 00-0037	EA	#6 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	41.68	19.62
26 05 83 00-0038	EA	#4 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	43.86	19.62
26 05 83 00-0039	EA	#2 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	50.47	22.55
26 05 83 00-0040	EA	1/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	62.05	28.18
26 05 83 00-0041	EA	2/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	72.62	33.48
26 05 83 00-0042	EA	3/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	84.94	39.23
26 05 83 00-0043	EA	4/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	102.36	47.58
26 05 83 00-0044	EA	250 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	121.37	56.46
26 05 83 00-0045	EA	300 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	138.86	64.48
26 05 83 00-0046	EA	350 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	149.21	69.47
26 05 83 00-0047	EA	400 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	162.61	75.22
26 05 83 00-0048	EA	500 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	177.83	82.14
26 05 83 00-0049	EA	750 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	194.54	89.08
26 05 83 00-0050	EA	1,000 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	241.47	108.38



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0051 Tape Wrapped Split Bolt Connectors <small>(26 05 83)</small>						
	26 05 83 00-0052	EA		#8 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	57.47	43.35
	26 05 83 00-0053	EA		#6 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	63.20	46.61
	26 05 83 00-0054	EA		#4 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	72.09	48.77
	26 05 83 00-0055	EA		#2 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	83.89	54.18
	26 05 83 00-0056	EA		1/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	99.25	59.61
	26 05 83 00-0057	EA		2/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	111.95	65.02
	26 05 83 00-0058	EA		3/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	140.18	70.44
	26 05 83 00-0059	EA		4/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	150.43	75.86
	26 05 83 00-0060	EA		250 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	158.62	81.28
	26 05 83 00-0061	EA		300 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	181.97	89.41
	26 05 83 00-0062	EA		350 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	205.30	130.05
	26 05 83 00-0063	EA		400 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	225.23	108.38
	26 05 83 00-0064	EA		500 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	245.15	146.30
	26 05 83 00-0065	EA		750 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	273.77	151.73
	26 05 83 00-0066	EA		1,000 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	311.88	162.56
26 05 83 00-0067 Cable Termination Lugs Handwrapped, No Stress Cone <small>(26 05 83)</small>						
	26 05 83 00-0068	EA		#8 Or #6 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt	97.46	43.35
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.76	
	26 05 83 00-0069	EA		#4 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt	108.15	43.35
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.80	
	26 05 83 00-0070	EA		1/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt	149.50	65.02
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.13	
	26 05 83 00-0071	EA		4/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt	169.33	65.02
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.68	
	26 05 83 00-0072	EA		300 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt	202.97	81.28
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.26	
	26 05 83 00-0073	EA		500 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt	284.30	108.38
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.73	
26 05 83 00-0074 Terminal Blocks <small>(26 05 83)</small>						
				Note: Labor excludes wire termination.		
	26 05 83 00-0075	EA		Power Distribution Block, 250 MCM 3 Phase Terminal Block, No Labor Wire Termination, 600 Volt	979.29	400.98
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	240.83	
	26 05 83 00-0076	EA		#22 To #10 Wire Size, 12 Point, 600 Volt Terminal Block	268.67	54.28
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.89	
	26 05 83 00-0077	EA		#8 To #2 Wire Size, 12 Point, 600 Volt Terminal Block	298.28	54.28
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.24	
26 05 83 00-0078 Parallel Gutter Tap Or Motor Connection <small>(26 05 83)</small>						
	26 05 83 00-0079	EA		#8 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	38.75	19.62
	26 05 83 00-0080	EA		#6 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	41.69	19.62
	26 05 83 00-0081	EA		#4 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	43.86	19.62
	26 05 83 00-0082	EA		#2 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	50.47	22.55
	26 05 83 00-0083	EA		1/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	62.05	28.18
	26 05 83 00-0084	EA		2/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	72.62	33.48
	26 05 83 00-0085	EA		3/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	84.94	39.23
	26 05 83 00-0086	EA		4/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	102.36	47.58
	26 05 83 00-0087	EA		250 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	121.37	56.46
	26 05 83 00-0088	EA		300 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	138.86	64.48
	26 05 83 00-0089	EA		350 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	149.21	69.47
	26 05 83 00-0090	EA		400 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	162.61	75.22
	26 05 83 00-0091	EA		500 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	177.83	82.14
	26 05 83 00-0092	EA		750 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap	178.32	82.14
	26 05 83 00-0093	EA		#8 AWG Parallel Gutter Tap, Versitap, Insulating Cover	38.75	19.62
	26 05 83 00-0094	EA		#6 AWG Parallel Gutter Tap, Versitap, Insulating Cover	41.69	19.62
	26 05 83 00-0095	EA		#4 AWG Parallel Gutter Tap, Versitap, Insulating Cover	43.86	19.62
	26 05 83 00-0096	EA		#2 AWG Parallel Gutter Tap, Versitap, Insulating Cover	50.47	22.55
	26 05 83 00-0097	EA		1/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	62.05	28.18
	26 05 83 00-0098	EA		2/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	72.62	33.48
	26 05 83 00-0099	EA		3/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	84.94	39.23
	26 05 83 00-0100	EA		4/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	102.36	47.58
	26 05 83 00-0101	EA		250 MCM Parallel Gutter Tap, Versitap, Insulating Cover	121.37	56.46
	26 05 83 00-0102	EA		300 MCM Parallel Gutter Tap, Versitap, Insulating Cover	138.86	64.48
	26 05 83 00-0103	EA		350 MCM Parallel Gutter Tap, Versitap, Insulating Cover	149.21	69.47
	26 05 83 00-0104	EA		400 MCM Parallel Gutter Tap, Versitap, Insulating Cover	162.61	75.22
	26 05 83 00-0105	EA		500 MCM Parallel Gutter Tap, Versitap, Insulating Cover	177.83	82.14
	26 05 83 00-0106	EA		750 MCM Parallel Gutter Tap, Versitap, Insulating Cover	178.32	82.14
26 05 83 00-0107 Copper Mechanical Lugs <small>(26 05 83)</small>						
	26 05 83 00-0108	EA		#8 Copper Mechanical Lugs	30.30	13.54
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.13	
	26 05 83 00-0109	EA		#6 Copper Mechanical Lugs	36.38	16.36
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.82	

26 Electrical
26 05 Common Work Results for Electrical
26 05 83 Wiring Connections



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0110	EA		#4 Copper Mechanical Lugs.....	42.06	18.97
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.38	
26 05 83 00-0111	EA		#2 Copper Mechanical Lugs.....	54.87	24.17
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.51	
26 05 83 00-0112	EA		1/0 Copper Mechanical Lugs.....	73.89	32.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.51	
26 05 83 00-0113	EA		2/0 Copper Mechanical Lugs.....	87.82	37.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.66	
26 05 83 00-0114	EA		3/0 Copper Mechanical Lugs.....	102.48	43.35
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.01	
26 05 83 00-0115	EA		4/0 Copper Mechanical Lugs.....	116.46	48.66
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.17	
26 05 83 00-0116	EA		250 MCM Copper Mechanical Lugs.....	132.98	54.18
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.51	
26 05 83 00-0117	EA		300 MCM Copper Mechanical Lugs.....	149.24	59.61
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.78	
26 05 83 00-0118	EA		350 MCM Copper Mechanical Lugs.....	165.41	65.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.01	
26 05 83 00-0119	EA		400 MCM Copper Mechanical Lugs.....	181.49	70.44
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.23	
26 05 83 00-0120	EA		500 MCM Copper Mechanical Lugs.....	197.82	75.86
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.52	
26 05 83 00-0121	EA		750 MCM Copper Mechanical Lugs.....	224.32	86.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.86	
26 05 83 00-0122	EA		1,000 MCM Copper Mechanical Lugs.....	253.88	97.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.52	
26 05 83 00-0123			Gel Connectors <small>(26 05 83)</small>		
26 05 83 00-0124	EA		3 Port, #14 to 2/0, Push On Gel Stub Splice Kit.....	62.04	
			Note: Kit contains connector, gel filled cap and cap clamp.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.26	
26 05 83 00-0125	EA		4 Port, #14 to 2, Gel Tap Splice Kit.....	59.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.91	
26 05 83 00-0126			Other Connections <small>(26 05 83)</small>		
26 05 83 00-0127	EA		#14 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	10.90	4.95
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.97	
26 05 83 00-0128	EA		#12 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	11.00	4.95
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.97	
26 05 83 00-0129	EA		#10 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	11.10	4.95
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.97	
26 05 83 00-0130			Motor/Equipment Connections And Terminations <small>(26 05 83)</small>		
			Note: Includes rotation testing. If equipment rating is other than horsepower (KW, CFM, tons, Btu/Hr, etc.) convert units to horsepower and select proper circuit characteristics. Includes material conduit (6 LF max.), connectors and conductors. To connect electrical wiring to all new or existing equipment motors.		
26 05 83 00-0131			AC Single Phase, 230 Volt <small>(26 05 83 00-0130)</small>		
26 05 83 00-0132	EA		<1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	74.84	27.10
26 05 83 00-0133	EA		1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	74.15	27.10
26 05 83 00-0134	EA		3/4 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	85.82	32.51
26 05 83 00-0135	EA		1 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	103.60	40.64
26 05 83 00-0136	EA		1-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	104.99	40.64
26 05 83 00-0137	EA		2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	105.27	40.64
26 05 83 00-0138	EA		3 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	109.84	40.64
26 05 83 00-0139	EA		5 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	137.50	54.18
26 05 83 00-0140	EA		7-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	142.63	54.18
26 05 83 00-0141	EA		10 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	181.22	67.74
26 05 83 00-0142			AC Three Phase, 230 Volt <small>(26 05 83 00-0130)</small>		
26 05 83 00-0143	EA		1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	74.15	27.10
26 05 83 00-0144	EA		3/4 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	85.82	32.51
26 05 83 00-0145	EA		1 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	103.60	40.64
26 05 83 00-0146	EA		1-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	104.99	40.64
26 05 83 00-0147	EA		2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	105.27	40.64
26 05 83 00-0148	EA		3 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	109.84	40.64
26 05 83 00-0149	EA		5 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	137.50	54.18
26 05 83 00-0150	EA		7-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	142.63	54.18
26 05 83 00-0151	EA		10 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	181.22	67.74
26 05 83 00-0152	EA		15 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	188.15	67.74
26 05 83 00-0153	EA		20 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	242.56	81.28
26 05 83 00-0154	EA		25 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	253.11	81.28
26 05 83 00-0155	EA		30 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	348.47	108.38
26 05 83 00-0156	EA		40 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	437.32	135.46
26 05 83 00-0157	EA		50 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	511.76	162.56
26 05 83 00-0158	EA		60 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	613.90	189.66
26 05 83 00-0159	EA		75 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	707.19	216.75
26 05 83 00-0160	EA		100 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	875.33	270.94



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0161 EA 125 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,030.78	322.42
26 05 83 00-0162 EA 150 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,227.90	376.06
26 05 83 00-0163 EA 200 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,715.16	563.97
26 05 83 00-0164 AC Three Phase, 460 Volt <small>(26 05 83 00-0130)</small>		
26 05 83 00-0165 EA 1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	74.15	27.10
26 05 83 00-0166 EA 3/4 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	85.82	32.51
26 05 83 00-0167 EA 1 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	103.60	40.64
26 05 83 00-0168 EA 1-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	104.99	40.64
26 05 83 00-0169 EA 2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	105.27	40.64
26 05 83 00-0170 EA 3 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	109.84	40.64
26 05 83 00-0171 EA 5 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	137.50	54.18
26 05 83 00-0172 EA 7-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	142.63	54.18
26 05 83 00-0173 EA 10 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	181.22	67.74
26 05 83 00-0174 EA 15 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	188.15	67.74
26 05 83 00-0175 EA 20 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	242.57	81.28
26 05 83 00-0176 EA 25 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	253.10	81.28
26 05 83 00-0177 EA 30 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	348.47	108.38
26 05 83 00-0178 EA 40 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	437.64	135.69
26 05 83 00-0179 EA 50 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	511.76	162.56
26 05 83 00-0180 EA 60 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	613.90	189.66
26 05 83 00-0181 EA 75 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	707.19	216.75
26 05 83 00-0182 EA 100 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	875.33	270.94
26 05 83 00-0183 EA 125 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,031.09	322.52
26 05 83 00-0184 EA 150 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,228.32	376.27
26 05 83 00-0185 EA 200 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,716.10	564.42
26 05 83 00-0186 AC Single Phase, 120 Volt <small>(26 05 83 00-0130)</small>		
26 05 83 00-0187 EA 1/2 HP AC And Less Single Phase, 120 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	74.84	27.10
26 05 83 00-0188 Motor Moisture Sensor <small>(26 05 83 00-0130)</small>		
26 05 83 00-0189 EA Motor Moisture Sensor Located In Winding.....	678.06	
26 09 Instrumentation and Control for Electrical Systems <small>(26)</small>		
<small>Note: Includes testing of new devices and certification.</small>		
26 09 23 Lighting Control Devices <small>(26 09)</small>		
26 09 23 00-0001 Lighting Contactors <small>(26 09 23)</small>		
<small>Note: Up to 600 volt.</small>		
26 09 23 00-0002 Electrically Held, Lighting Contactors <small>(26 09 23 00-0001)</small>		
26 09 23 00-0003 NEMA 1 Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0002)</small>		
26 09 23 00-0004 2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0003)</small>		
26 09 23 00-0005 EA 20 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	471.85	86.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		52.02
26 09 23 00-0006 EA 30 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	585.37	97.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		58.52
26 09 23 00-0007 EA 60 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,102.92	151.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		91.04
26 09 23 00-0008 EA 100 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,724.59	205.91
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		123.55
26 09 23 00-0009 EA 200 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	3,629.05	270.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		162.56
26 09 23 00-0010 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0003)</small>		
26 09 23 00-0011 EA 20 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	532.95	97.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		58.52
26 09 23 00-0012 EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	641.49	108.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		65.03
26 09 23 00-0013 EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,192.19	173.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		104.04
26 09 23 00-0014 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,861.42	227.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		136.55
26 09 23 00-0015 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	3,893.96	298.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		178.82
26 09 23 00-0016 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0003)</small>		
26 09 23 00-0017 EA 20 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	629.02	108.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		65.03
26 09 23 00-0018 EA 30 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	757.46	119.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		71.53
26 09 23 00-0019 EA 60 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,445.44	195.07
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		117.04

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0020 EA 100 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	2,231.93	249.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	149.56	
26 09 23 00-0021 EA 200 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	4,983.78	325.12
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	195.08	
26 09 23 00-0022 NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)		
26 09 23 00-0023 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)		
26 09 23 00-0024 EA 20 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	789.12	86.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.02	
26 09 23 00-0025 EA 30 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	1,006.02	97.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.52	
26 09 23 00-0026 EA 60 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	1,941.74	151.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	91.04	
26 09 23 00-0027 EA 100 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	2,916.00	205.91
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123.55	
26 09 23 00-0028 EA 200 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	5,662.56	270.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	162.56	
26 09 23 00-0029 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)		
26 09 23 00-0030 EA 20 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	817.06	97.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.52	
26 09 23 00-0031 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	1,062.14	108.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.03	
26 09 23 00-0032 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	2,033.47	173.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	104.04	
26 09 23 00-0033 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	3,052.02	227.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	136.55	
26 09 23 00-0034 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	5,926.66	298.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	178.82	
26 09 23 00-0035 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)		
26 09 23 00-0036 EA 20 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	882.66	108.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.03	
26 09 23 00-0037 EA 30 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	1,178.10	119.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.53	
26 09 23 00-0038 EA 60 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	2,613.89	195.07
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	117.04	
26 09 23 00-0039 EA 100 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	3,749.69	249.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	149.56	
26 09 23 00-0040 EA 200 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	7,918.44	325.12
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	195.08	
26 09 23 00-0041 Mechanically Held, Lighting Contactors (26 09 23 00-0001)		
26 09 23 00-0042 NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0041)		
26 09 23 00-0043 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0042)		
26 09 23 00-0044 EA 20 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	703.08	86.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.02	
26 09 23 00-0045 EA 30 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	800.21	97.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.52	
26 09 23 00-0046 EA 60 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	1,521.10	151.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	91.04	
26 09 23 00-0047 EA 100 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	2,120.63	205.91
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123.55	
26 09 23 00-0048 EA 200 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	4,914.75	270.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	162.56	
26 09 23 00-0049 3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0042)		
26 09 23 00-0050 EA 20 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	750.74	97.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.52	
26 09 23 00-0051 EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	857.96	108.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.03	
26 09 23 00-0052 EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	1,612.83	173.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	104.04	
26 09 23 00-0053 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	2,258.29	227.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	136.55	
26 09 23 00-0054 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	5,528.15	298.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	178.82	
26 09 23 00-0055 4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0042)		
26 09 23 00-0056 EA 20 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	810.06	108.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.03	
26 09 23 00-0057 EA 30 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	914.07	119.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0058 EA 60 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,888.22 117.04	195.07
26 09 23 00-0059 EA 100 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,652.57 149.56	249.26
26 09 23 00-0060 EA 200 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,679.47 195.08	325.12
26 09 23 00-0061 NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0041)		
26 09 23 00-0062 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0061)		
26 09 23 00-0063 EA 20 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,060.68 52.02	86.69
26 09 23 00-0064 EA 30 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,220.85 58.52	97.54
26 09 23 00-0065 EA 60 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,362.39 91.04	151.73
26 09 23 00-0066 EA 100 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,312.04 123.55	205.91
26 09 23 00-0067 EA 200 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,946.63 162.56	270.94
26 09 23 00-0068 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0061)		
26 09 23 00-0069 EA 20 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,119.99 58.52	97.54
26 09 23 00-0070 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,278.61 65.03	108.38
26 09 23 00-0071 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,454.12 104.04	173.40
26 09 23 00-0072 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,450.52 136.55	227.58
26 09 23 00-0073 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,561.67 178.82	298.03
26 09 23 00-0074 4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0061)		
26 09 23 00-0075 EA 20 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,183.80 65.03	108.38
26 09 23 00-0076 EA 30 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,334.72 71.53	119.21
26 09 23 00-0077 EA 60 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,056.67 117.04	195.07
26 09 23 00-0078 EA 100 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,170.33 149.56	249.26
26 09 23 00-0079 EA 200 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,554.27 195.08	325.12
26 09 23 00-0080 Combination Lighting Contactors (26 09 23) Note: Up to 600 volt.		
26 09 23 00-0081 Electrically Held, Combination Lighting Contactors (26 09 23 00-0080)		
26 09 23 00-0082 NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0081)		
26 09 23 00-0083 3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0082)		
26 09 23 00-0084 EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,363.82 71.53	119.21
26 09 23 00-0085 EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,137.84 114.44	190.74
26 09 23 00-0086 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,459.95 150.21	250.35
26 09 23 00-0087 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,334.34 196.70	327.83
26 09 23 00-0088 NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0081)		
26 09 23 00-0089 3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0088)		
26 09 23 00-0090 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,484.31 71.53	119.21

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0091 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch	3,864.69	190.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.44	
26 09 23 00-0092 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch	6,473.33	250.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.21	
26 09 23 00-0093 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch	10,189.01	327.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	196.70	
26 09 23 00-0094 Mechanically Held, Combination Lighting Contactors (26 09 23 00-0080)		
26 09 23 00-0095 NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0094)		
26 09 23 00-0096 3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0095)		
26 09 23 00-0097 EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	1,491.74	119.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.53	
26 09 23 00-0098 EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	2,580.62	190.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.44	
26 09 23 00-0099 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	3,879.36	250.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.21	
26 09 23 00-0100 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	7,526.16	327.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	196.70	
26 09 23 00-0101 NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0094)		
26 09 23 00-0102 3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0101)		
26 09 23 00-0103 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	2,613.45	119.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.53	
26 09 23 00-0104 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	4,309.93	190.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.44	
26 09 23 00-0105 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	6,893.97	250.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.21	
26 09 23 00-0106 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	11,380.83	327.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	196.70	
26 09 23 00-0107 Photo-Cell, Relay, Lighting Arrester, Receptacle And Bracket (26 09 23)		
26 09 23 00-0108 EA 105 To 130 Volt Relay, Photo-Cell, Lighting Arrester, Receptacle And Bracket	131.80	28.18
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.94	
26 09 23 00-0109 EA 105 To 285 Volt Relay, Photo-Cell, Lighting Arrester, Receptacle And Bracket	144.28	28.18
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.94	
26 09 23 00-0110 Dimming Module System (Lutron Grafik Eye) (26 09 23)		
26 09 23 00-0111 EA 2,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-2).....	1,611.14	108.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.03	
26 09 23 00-0112 EA 4,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-4).....	2,084.71	108.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.03	
26 09 23 00-0113 EA 6,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-6).....	2,566.73	108.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.03	
26 09 23 00-0114 Dimming Module Contol (Leviton) (26 09 23)		
26 09 23 00-0115 EA 5 Amperes, Wireless Dimming Module (Leviton WSD05-9D0)	208.56	13.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.15	
26 09 23 00-0116 Light Control Panels (26 09 23)		
26 09 23 00-0117 Lighting Control Panels (Watt Stopper) (26 09 23 00-0116)		
26 09 23 00-0118 Lighting Control Panels (Watt Stopper) (26 09 23 00-0117)		
26 09 23 00-0119 EA 4 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-4)	1,566.11	152.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	91.20	
26 09 23 00-0120 EA 8 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-8)	1,473.02	162.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.72	
26 09 23 00-0121 EA 8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8S-8-G)	1,652.37	162.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0122 EA 8 Relays, Surface Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24S-8).....	2,455.01	162.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>97.72</i>	
26 09 23 00-0123 EA 8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24S-8-G).....	2,665.58	162.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>97.72</i>	
26 09 23 00-0124 EA 4 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-4).....	1,738.60	152.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>91.20</i>	
26 09 23 00-0125 EA 8 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-8).....	1,865.51	162.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>97.72</i>	
26 09 23 00-0126 EA 8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8F-8-G).....	2,075.87	162.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>97.72</i>	
26 09 23 00-0127 EA 8 Relays, Flush Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24F-8).....	2,539.16	162.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>97.72</i>	
26 09 23 00-0128 EA 8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24F-8-G).....	2,749.72	162.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>97.72</i>	
26 09 23 00-0129 Accessories For Lighting Control Panels (Watt Stopper) <small>(26 09 23 00-0117)</small>		
26 09 23 00-0130 EA Low Voltage Photocell For Watt Stopper Lighting Control Panels (Watt Stopper EM-24A2).....	154.27	27.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>16.28</i>	
26 09 23 00-0131 EA Automatic Control Switch For Watt Stopper Lighting Control Panels (Watt Stopper AS-100-W).....	118.91	21.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>13.03</i>	
26 09 23 00-0132 EA Low Voltage Momentary Switch For Watt Stopper Lighting Control Panels (Watt Stopper DCC2).....	64.80	21.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>13.03</i>	
26 09 23 00-0133 Lighting Control Panels (Synergy) <small>(26 09 23 00-0116)</small>		
26 09 23 00-0134 Lighting Control Panels (Synergy) <small>(26 09 23 00-0133)</small>		
26 09 23 00-0135 EA 8 Relays, Surface Mount, Lighting Control Panel (Synergy SwitchPak SPAK 8S).....	2,557.72	162.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>97.72</i>	
26 09 23 00-0136 Accessories For Lighting Control Panels (Synergy) <small>(26 09 23 00-0133)</small>		
26 09 23 00-0137 EA Outdoor Photocell For Synergy SwitchPak Lighting Control Panels (Synergy LSA-APS-OL).....	628.56	27.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>16.28</i>	
26 09 23 00-0138 EA Sweepswitch, Line Voltage Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy SSPL-20).....	243.42	10.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>6.51</i>	
26 09 23 00-0139 EA Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy LVPS-2BT).....	136.91	16.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>9.77</i>	
26 09 23 00-0140 Lighting Switching Panels (Lutron) <small>(26 09 23 00-0116)</small>		
26 09 23 00-0141 Lighting Switching Panels (Lutron) <small>(26 09 23 00-0140)</small>		
26 09 23 00-0142 EA 8 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS8-FT).....	2,078.43	162.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>97.72</i>	
26 09 23 00-0143 EA 12 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS12-FT).....	2,854.43	173.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>104.23</i>	
26 09 23 00-0144 EA 16 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS16-FT).....	3,741.96	184.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>110.74</i>	
26 09 23 00-0145 Wireless (ZigBee) LED Lighting Control Panels (PlanLED GigaTera) <small>(26 09 23 00-0116)</small>		
26 09 23 00-0146 EA 6 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC6Z).....	1,386.24	152.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>91.20</i>	
26 09 23 00-0147 EA 12 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC12Z).....	1,583.00	152.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>91.20</i>	
26 09 23 00-0148 EA 18 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC18Z).....	1,779.78	152.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>91.20</i>	
26 09 23 00-0149 Power Filters <small>(26 09 23 00-0116)</small>		
26 09 23 00-0150 EA 600 Amperes, 480/277 Volt, 4 Conductor Power Filter With 80" X 60" X 17" Enclosure.....	39,191.37	903.08
26 09 23 00-0151 EA 200 Amperes, 480/277 Volt, 4 Conductor Power Filter With 25" X 40" X 17" Enclosure.....	23,216.40	392.64
26 09 23 00-0152 Signal Filters <small>(26 09 23 00-0116)</small>		
26 09 23 00-0153 EA 0.5 Amperes, 125 Volt, 500 Conductor Signal Filter With 19" X 36-3/4" X 19-1/8 Case.....	17,842.25	821.04
26 09 23 00-0154 EA 0.5 Amperes, 125 Volt, 200 Conductor Signal Filter With 29" X 40" X 11" Case.....	12,219.00	501.77
26 09 23 00-0155 EA 0.5 Amperes, 125 Volt, 3 Pair Conductor Signal Filter With 12" X 12" X 4" Case.....	6,813.51	291.31
26 09 23 00-0156 EA 5 Amperes, 24 Volt DC, 5 Volt, 2 - 1 Pair Conductor Signal Filter With Case.....	9,305.86	291.31
26 09 23 00-0157 Lighting Control Devices (Encelium) <small>(26 09 23)</small>		
26 09 23 00-0158 EA 8 Port, G4, Wired Energy Control Unit, GreenBus II™ (120V) With Polaris 3D™ (Encelium EN-ECU-G4-P3D).....	14,888.74	108.58
Note: Excludes GB II cable.		

26 Electrical

26 09 Instrumentation and Control for Electrical Systems

26 09 23 Lighting Control Devices



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0159	EA		Server, System Support Unit (SSU) (Encelium EN-SSU-1U) Note: Excludes GB II and Ethernet cable.	6,798.91	108.58
26 09 23 00-0160	EA		Server, System Support Unit (SSU), VIRTUAL (Encelium EN-SW-SSUVIRT) Note: Excludes GB II and Ethernet cable.	3,531.82	108.58
26 09 23 00-0161	EA		Server, System Support Unit (SSU) With BACnet (Encelium EN-SSU-BIF-KIT) Note: Excludes GB II and Ethernet cable.	14,976.39	108.58
26 09 23 00-0162	EA		Isolated, Wired Luminaire Control Module (Encelium EN-iLCM-1R10V-GB2-BK) Note: Excludes GB II cable.	116.15	13.57
26 09 23 00-0163	EA		Damp Rated, Isolated, Wired Luminaire Control Module (Encelium EN-iLCM-1R10V-GB2-BK/DR) Note: Excludes GB II cable.	180.87	13.57
26 09 23 00-0164	EA		Wired Area Lighting Controller, Heavy Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK) Note: Excludes GB II cable.	226.29	27.15
26 09 23 00-0165	EA		Damp Rated, Wired Area Lighting Controller, Heavy Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK-DR) Note: Excludes GB II cable.	273.88	27.15
26 09 23 00-0166	EA		Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK) Note: Excludes GB II cable.	143.28	27.15
26 09 23 00-0167	EA		Damp Rated, Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK/DR) Note: Excludes GB II cable.	208.00	27.15
26 09 23 00-0168	EA		16 Port, Rack Mounted, Wired Ethernet Switch (Encelium ETH-700) Note: Excludes cable.	525.81	54.28
26 09 23 00-0169	EA		Rack Mounted, Wired Power Bar (Encelium PWR-700) Note: Excludes cable.	392.83	54.28
26 09 23 00-0170	EA		Rack Mounted, Wired Power Bar With Surge Protection (Encelium PWR-800) Note: Excludes cable.	727.11	54.28
26 09 23 00-0171	EA		Wall Mounted, 4U Mounting Rack (Encelium RCK-700) Note: Excludes cable.	242.55	54.28
26 09 23 00-0172	EA		4 Port, 10/100 VPN, Dual WAN, Wired Router (Encelium RV042) Note: Excludes cable.	816.16	54.28
26 09 23 00-0173	EA		Wired BACnet Interface (Encelium BIF-600) Note: Excludes cable.	8,611.76	217.14
26 09 23 00-0174	EA		Wired AV Interface (Encelium EN-SW-AVINT) Note: Excludes cable.	6,391.45	54.28
26 09 23 00-0175	EA		Two Button, GB2, Wired Wall Station (Encelium EN-WS-2B-GB2-WH) Note: Includes white finish. Excludes GB II cable.	237.60	13.57
26 09 23 00-0176	EA		3 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC3-GB2-WH) Note: Includes white finish. Excludes GB II cable.	290.18	13.57
26 09 23 00-0177	EA		3 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WH) Note: Includes white finish. Excludes GB II cable.	277.50	13.57
26 09 23 00-0178	EA		5 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC5-GB2-WH) Note: Includes white finish. Excludes GB II cable.	290.18	13.57
26 09 23 00-0179	EA		6 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC6-GB2-WH) Note: Includes white finish. Excludes GB II cable.	277.50	13.57
26 09 23 00-0180	EA		Rocker Switch, GB2, Wired Wall Station (Encelium EN-WS-R-GB2-WT) Note: Includes white finish. Excludes GB II cable.	209.17	13.57
26 09 23 00-0181	EA		Scene Controller, GB2, Wired Wall Station (Encelium EN-WS-SC3D-GB2-WT) Note: Includes white finish. Excludes GB II cable.	290.18	13.57
26 09 23 00-0182	EA		3 Zone Controller, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WT) Note: Includes white finish. Excludes GB II cable.	277.50	13.57
26 09 23 00-0183	EA		Wired Key Switch Controller (Encelium KSW-300) Note: Excludes GB II cable.	204.06	13.57
26 09 23 00-0184	EA		Wall Station Surface Mount Kit (Encelium EN-SMK-ZB-WH) Note: Includes white finish.	85.71	13.57
26 09 23 00-0185	EA		1/2' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-0.5FT-GB2) Note: Excludes GB II cable.	67.59	27.15
26 09 23 00-0186	EA		1' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-01FT-GB2) Note: Excludes GB II cable.	68.15	27.15
26 09 23 00-0187	EA		5' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-05FT-GB2) Note: Excludes GB II cable.	72.63	27.15
26 09 23 00-0188	EA		10' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-10FT-GB2) Note: Excludes GB II cable.	77.05	27.15
26 09 23 00-0189	EA		15' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-15FT-GB2) Note: Excludes GB II cable.	82.33	27.15
26 09 23 00-0190	EA		20' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-20FT-GB2) Note: Excludes GB II cable.	87.09	27.15
26 09 23 00-0191	EA		25' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-25FT-GB2) Note: Excludes GB II cable.	92.94	27.15
26 09 23 00-0192	EA		50' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-50FT-GB2) Note: Excludes GB II cable.	119.38	27.15
26 09 23 00-0193	EA		1,000' Box, GreenBus II™ Cable (Encelium EN-BC-1000FT-GB2) Note: Excludes GB II cable.	787.76	27.15
26 09 23 00-0194	EA		Box Of 50, Greenbus II™ Connectors (Encelium EN-CON-50-GB2) Note: Excludes GB II cable.	188.48	27.15
26 09 23 00-0195	EA		1,000' Box, Category 5, Network Cable (Encelium NWC-400-B) Note: Excludes GB II cable.	1,018.06	27.15
26 09 23 00-0196	EA		Indoor Wired Photo Sensor (Encelium PHS-700) Note: Excludes GB II cable.	590.48	54.28
26 09 23 00-0197	EA		Outdoor Wired Photo Sensor (Encelium PHS-800) Note: Excludes GB II cable.	590.48	54.28
26 09 23 00-0198	EA		Skylight Wired Photo Sensor (Encelium PHS-900) Note: Excludes GB II cable.	590.48	54.28
26 09 23 00-0199	EA		450 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-0450) Note: Excludes GB II cable.	303.93	54.28
26 09 23 00-0200	EA		1,500 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-1500) Note: Excludes GB II cable.	294.31	54.28
26 09 23 00-0201	EA		2,500 SF, Wide View, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-WV00) Note: Excludes GB II cable.	300.72	54.28
26 09 23 00-0202	EA		High-Bay, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-HBAY) Note: Excludes GB II cable.	332.75	54.28
26 09 23 00-0203	EA		Long-Range, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-LRNG) Note: Excludes GB II cable.	300.72	54.28
26 09 23 00-0204	EA		120-277 Volt AC, No Neutral, Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor (Encelium SSP-LNV) Note: Excludes GB II cable.	236.69	54.28
26 09 23 00-0205	EA		High Bay, Passive Infrared, Fixture Mounted, Wired Occupancy Sensor (Encelium WSPM24V) Note: Excludes GB II cable.	251.32	54.28
26 09 23 00-0206	EA		High Bay, Passive Infrared, Surface Mounted, Wired Occupancy Sensor (Encelium WSPSM24V) Note: Excludes GB II cable.	251.32	54.28



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0207 EA 360 Degree Lens, Wired Occupancy Sensor (Encelium WSPLENS360) Note: Excludes GB II cable.	129.33	54.28
26 09 23 00-0208 EA Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor (Encelium PW-100-24)..... Note: Excludes GB II cable.	308.65	54.28
26 09 23 00-0209 EA Hallway, Wired Occupancy Sensor (Encelium HW-13) Note: Excludes GB II cable.	439.19	54.28
26 09 23 00-0210 EA 500 SF, 180 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-0500) Note: Excludes GB II cable.	383.98	54.28
26 09 23 00-0211 EA 1,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-1000) Note: Excludes GB II cable.	409.60	54.28
26 09 23 00-0212 EA 2,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-2000) Note: Excludes GB II cable.	422.42	54.28
26 09 23 00-0213 EA 1,200 SF, (Multi) Passive Infrared And Ultrasonic, Wall Mounted, Wired Occupancy Sensor (Encelium SWM- 1200) Note: Excludes GB II cable.	380.78	54.28
26 09 23 00-0214 EA 120-277 Volt AC, No Neutral, Passive Infrared And Ultrasonic, Wall Switch Mounted, Wired Occupancy Sensor (Encelium SSM-LNV) Note: Excludes GB II cable.	316.74	54.28
26 09 23 00-0215 EA 500 SF, 180 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC05-M0W) Note: Excludes GB II cable.	397.76	54.28
26 09 23 00-0216 EA 1,200 SF, 360 Degree, Dual Technology, Wall Mounted, Wired Occupancy Sensor (Encelium OSW12-M0W) Note: Excludes GB II cable.	394.40	54.28
26 09 23 00-0217 EA 2,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC20-M0W) Note: Excludes GB II cable.	438.10	54.28
26 09 23 00-0218 EA 1,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC10-M0W) Note: Excludes GB II cable.	424.67	54.28
26 09 23 00-0219 EA Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium DW-100-24)..... Note: Excludes GB II cable.	457.50	54.28
26 09 23 00-0220 EA Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium WSD-PDT-LV)..... Note: Excludes GB II cable.	424.80	54.28
26 09 23 00-0221 EA Wide View, Dual Technology, Wired Occupancy Sensor (Encelium WV-PDT) Note: Excludes GB II cable.	424.80	54.28
26 09 23 00-0222 EA 10A, 120V, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRU1C) Note: Excludes GB II cable.	277.22	54.28
26 09 23 00-0223 EA 10A, 277V, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRH1C) Note: Excludes GB II cable.	297.35	54.28
26 09 23 00-0224 EA 20A, 120V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR01P) Note: Excludes GB II cable.	525.36	54.28
26 09 23 00-0225 EA 20A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR02P) Note: Excludes GB II cable.	562.31	54.28
26 09 23 00-0226 EA 10A, 120V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2401D) Note: Excludes GB II cable.	413.22	54.28
26 09 23 00-0227 EA 10A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2402D) Note: Excludes GB II cable and enclosure.	431.08	54.28
26 09 23 00-0228 EA 24 Circuit, Relay Module (Encelium EN-RPM-24C-GB2) Note: Excludes GB II cable and enclosure.	1,241.92	108.58
26 09 23 00-0229 EA 24 Circuit, 120/277V, Relay Panel With Relay Module (Encelium EN-RP-24C-GB2-120/277V) Note: Excludes GB II cable.	3,869.72	434.28
26 09 23 00-0230 EA 12 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA12R120-347V) Note: Excludes GB II cable.	5,670.41	434.28
26 09 23 00-0231 EA 24 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA24R120-347V) Note: Excludes GB II cable.	7,471.08	434.28
26 09 23 00-0232 EA Wired Phase Cut Dimming Module (Encelium EN-PCDM-GB2) Note: Excludes GB II cable.	620.97	54.28
26 09 23 00-0233 EA Wired DALI Bridge (Encelium EN-DB-1L-GB2) Note: Excludes GB II cable.	712.48	54.28
26 09 23 00-0234 EA Wireless Manager (Encelium EN-WM-ZB-P3D) Note: Includes white finish.	1,938.54	54.28
26 09 23 00-0235 EA Wireless Control Module (Encelium EN-WCM-ZB) Note: Includes white finish.	261.68	27.15
26 09 23 00-0236 EA Damp Rated, Wireless Control Module (Encelium EN-WCM-ZB-DR) Note: Includes white finish.	310.47	27.15
26 09 23 00-0237 EA Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK)..... Note: Includes white finish.	311.69	27.15
26 09 23 00-0238 EA Damp Rated, Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK-DR) Note: Includes white finish.	323.20	27.15
26 09 23 00-0239 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH)..... Note: Includes white finish.	234.55	13.57
26 09 23 00-0240 EA 3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH) Note: Includes white finish.	234.55	13.57
26 09 23 00-0241 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH) Note: Includes white finish.	234.55	13.57
26 09 23 00-0242 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) Note: Includes white finish.	234.55	13.57
26 09 23 00-0243 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH) Note: Includes white finish.	234.55	13.57
26 09 23 00-0244 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW) Note: Includes white finish.	242.47	13.57
26 09 23 00-0245 EA 315 MHz, Wireless Photocell (Encelium TAP-17C) Note: Includes white finish.	511.17	54.28
26 09 23 00-0246 EA 450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB) Note: Includes white finish.	315.98	54.28
26 09 23 00-0247 EA 1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB) Note: Includes white finish.	315.98	54.28
26 09 23 00-0248 EA 1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR) Note: Includes white finish.	364.77	54.28
26 09 23 00-0249 EA 450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR) Note: Includes white finish.	364.77	54.28
26 09 23 00-0250 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH)..... Note: Includes white finish.	234.55	13.57
26 09 23 00-0251 EA 3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH) Note: Includes white finish.	234.55	13.57
26 09 23 00-0252 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH) Note: Includes white finish.	234.55	13.57
26 09 23 00-0253 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) Note: Includes white finish.	234.55	13.57

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0254 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH).....	234.55	13.57
Note: Includes white finish.		
26 09 23 00-0255 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW)	242.47	13.57
Note: Includes white finish.		
26 09 23 00-0256 EA 315 MHz, Wireless Photocell (Encelium TAP-17C)	511.17	54.28
26 09 23 00-0257 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH)	234.55	13.57
26 09 23 00-0258 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH)	234.55	13.57
26 09 23 00-0259 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH)	234.55	13.57
26 09 23 00-0260 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW)	242.47	13.57
26 09 23 00-0261 EA 315 MHz, Wireless Photocell (Encelium TAP-17C)	511.17	54.28
26 09 23 00-0262 EA 450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB)	315.98	54.28
26 09 23 00-0263 EA 1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB)	315.98	54.28
26 09 23 00-0264 EA 1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR)	364.77	54.28
26 09 23 00-0265 EA 450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR)	364.77	54.28
26 09 23 00-0266 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH)	234.55	13.57
Note: Includes white finish.		
26 09 23 00-0267 EA 3 Scene Control, Wireless, Wall Station (Encelium EN-WS-SC3-ZB-WH)	234.55	13.57
Note: Includes white finish.		
26 09 23 00-0268 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH)	234.55	13.57
Note: Includes white finish.		
26 09 23 00-0269 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH)	234.55	13.57
Note: Includes white finish.		
26 09 23 00-0270 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH)	234.55	13.57
Note: Includes white finish.		
26 09 23 00-0271 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW)	242.47	13.57
26 09 23 00-0272 EA 315 MHz, Wireless Photocell (Encelium TAP-17C)	511.17	54.28
26 09 23 00-0273 EA Ceiling Mounted, Wireless Mounting Kit (Encelium EN-SCPPH-MK-ZB)	136.63	54.28
26 09 23 00-0274 EA Wireless Ethernet Transceiver Unit (cns-enocean Connectivity Kit)	671.80	54.28
26 09 23 00-0275 Lighting Control Sensors <small>(26 09 23)</small>		
26 09 23 00-0276 EA DALIMulti Sensor, 600 SF (Fifthlight FLT-MTS6-DALI)	358.77	24.42
26 09 23 00-0277 EA DALIMulti Sensor, 1,200 SF (Fifthlight FLT-MTS12-DALI)	358.77	24.42
26 09 23 00-0278 EA Smart Multi-sensor (LG 9SD131VVDA.ALWB000)	313.79	24.42
26 09 23 00-0279 EA Zigbee Dongle (LG 9CM2315VD2.AWP01U)	94.00	16.29
26 09 23 00-0280 EA Clip for Performance Troffer (LG BKTTTR015122.BUAAWAA)	7.31	
26 09 23 00-0281 EA Clip for Downlight (BKTCE015123.BUAAWAA)	61.46	
26 09 23 00-0282 EA Clip for Tube (LG BKTTU015121.BUAAWAA)	10.58	
26 09 23 00-0283 Radio Controlled Devices (Lutron) <small>(26 09 23)</small>		
26 09 23 00-0284 Tabletop Transmitters For Radio Controlled Devices <small>(26 09 23 00-0283)</small>		
26 09 23 00-0285 Switched Lighting Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0284)</small>		
26 09 23 00-0286 EA One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-SW-B-WH)	475.33	16.29
26 09 23 00-0287 EA Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2SW-B-WH)	618.75	16.29
26 09 23 00-0288 EA Three Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3SW-B-WH)	780.09	16.29
26 09 23 00-0289 Dimmable Lighting Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0284)</small>		
26 09 23 00-0290 EA One Zone Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-B-WH)	475.33	16.29
26 09 23 00-0291 EA Two Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-B-WH)	564.97	16.29
26 09 23 00-0292 EA Three Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-B-WH)	780.09	16.29
26 09 23 00-0293 EA One Zone Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-WH)	475.33	16.29
26 09 23 00-0294 EA Two Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-WH)	618.75	16.29
26 09 23 00-0295 EA Three Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-WH)	780.09	16.29
26 09 23 00-0296 Dimmable And Switched Lighting Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0284)</small>		
26 09 23 00-0297 EA One Zone Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LSW-B-WH)	618.75	16.29
26 09 23 00-0298 EA Two Zones Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LSW-B-WH)	780.09	16.29
26 09 23 00-0299 EA One Zone Of Dimmable Lighting Controls And Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2SW-B-WH)	780.09	16.29
26 09 23 00-0300 Dimmable Lighting Controls And Shade Or Projection Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0284)</small>		
26 09 23 00-0301 EA One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-C3-B-WH)	475.33	16.29
26 09 23 00-0302 EA Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2C3-B-WH)	618.75	16.29
26 09 23 00-0303 EA One Zone Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC2-B-WH)	564.97	16.29
26 09 23 00-0304 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC2-B-WH)	690.46	16.29



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 09 23 00-0305	EA		One Zone Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC3-B-WH).....	618.75	16.29
	26 09 23 00-0306	EA		Two Zones Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC3-B-WH).....	744.24	16.29
	26 09 23 00-0307	EA		One Zone Of Dimmable Lighting Controls And Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2C3-B-WH).....	618.75	16.29
26 09 23 00-0308				Dimmable Lighting Controls And Sivoia QED Shade Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0284)</small>		
	26 09 23 00-0309	EA		One Zone Of Sivoia QED Open/Stop/Presel Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-Q-B-WH).....	475.33	16.29
	26 09 23 00-0310	EA		Two Zones Of Sivoia QED Open/Stop/Presel Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2Q-B-WH).....	618.75	16.29
	26 09 23 00-0311	EA		One Zone Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Presel Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQ-B-WH).....	618.75	16.29
	26 09 23 00-0312	EA		Two Zones Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Presel Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LQ-B-WH).....	780.09	16.29
	26 09 23 00-0313	EA		One Zone Of Dimmable Lighting Controls And Two Zones Of Sivoia QED Open/Stop/Presel Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2Q-B-WH).....	618.75	16.29
	26 09 23 00-0314	EA		One Zone Of Dimmable Lighting Controls, One Zone Of Sivoia QED Open/Stop/Presel Motorized Shade Controls, One Zone Of Output Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQC2-B-WH).....	780.09	16.29
26 09 23 00-0315				Output Switch Closure Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0284)</small>		
	26 09 23 00-0316	EA		Five Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5-WH).....	475.33	16.29
	26 09 23 00-0317	EA		Nine Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5C4-WH).....	618.75	16.29
	26 09 23 00-0318	EA		Thirteen Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C52C4-WH).....	780.09	16.29
26 09 23 00-0319				Accessories For Tabletop Wireless Transmitter <small>(26 09 23 00-0284)</small>		
	26 09 23 00-0320	EA		Security Mounting Brackets For Tabletop Wireless Transmitters (Lutron RTA-SEC-WH).....	98.86	16.29
26 09 23 00-0321				Wall Box Transmitters For Radio Controlled Devices <small>(26 09 23 00-0283)</small>		
	26 09 23 00-0322	EA		On/Off Switched Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2BSW-WH).....	439.48	16.29
	26 09 23 00-0323	EA		Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2B-WH).....	475.33	16.29
	26 09 23 00-0324	EA		Four Preset Lighting Level And Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-5B-WH).....	475.33	16.29
	26 09 23 00-0325	EA		Open/Stop/Close Motorized Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C3LB-WH).....	475.33	16.29
	26 09 23 00-0326	EA		Up/Down Projection Screen Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C2LB-WH).....	475.33	16.29
	26 09 23 00-0327	EA		Open/Stop/Close Sivoia QED Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-Q3LB-WH).....	475.33	16.29
26 09 23 00-0328				Interfaces For Radio Controlled Devices <small>(26 09 23 00-0283)</small>		
	26 09 23 00-0329	EA		Incandescent And Magnetic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-INC-2000).....	439.48	16.29
	26 09 23 00-0330	EA		Lutron Tu-Wire Ballast Interface For Radio Controlled Devices (Lutron FDI-INC-2000).....	439.48	16.29
	26 09 23 00-0331	EA		Electronic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-ELV-1000).....	439.48	16.29
	26 09 23 00-0332	EA		Sivoia QED Controllable Window Treatments Contact Closure Interface For Radio Controlled Devices (Lutron SVQ-CCI-8).....	894.83	16.29
	26 09 23 00-0333	EA		RS-232 Interface For Radio Controlled Devices (Lutron RTA-RS232).....	1,282.06	16.29
	26 09 23 00-0334	EA		Switch Closure Input Interface For Radio Controlled (Lutron RTA-SCI).....	1,282.06	16.29
26 09 23 00-0335				Fluorescent Controllers For Radio Controlled Devices <small>(26 09 23 00-0283)</small>		
	26 09 23 00-0336	EA		On/Off Switched Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-SW).....	564.97	16.29
	26 09 23 00-0337	EA		Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F).....	636.68	16.29
	26 09 23 00-0338	EA		Switch Closures And Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F-SC).....	744.24	16.29
26 09 23 00-0339				AC Motor Group Controllers For Radio Controlled Devices <small>(26 09 23 00-0283)</small>		
	26 09 23 00-0340	EA		Up To Two Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-2M-GC).....	833.88	16.29
	26 09 23 00-0341	EA		Up To Four Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-4M-GC).....	1,147.60	16.29
26 09 23 00-0342				RF Wireless Technology, Switches And Dimmers (Lutron® Maestro Wireless®) <small>(26 09 23)</small>		
26 09 23 00-0343				RF Wireless Technology, Switches (Lutron® Maestro Wireless®) <small>(26 09 23 00-0342)</small>		
	26 09 23 00-0344	EA		6 Amperes Lighting, 3 Amperes Fan, RF Wireless Technology, Electronic Switch (Lutron® Maestro Wireless® MRF2-6ANS).....	125.97	21.71
	26 09 23 00-0345	EA		8 Amperes Lighting, 5.8 Amperes Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8ANS-120).....	148.80	21.71
	26 09 23 00-0346	EA		8 Amperes Lighting, 3 Amperes Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8S-DV).....	233.89	21.71
	26 09 23 00-0347	EA		120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS).....	87.88	21.71
	26 09 23 00-0348	EA		277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS-277).....	107.82	21.71

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26 09 Instrumentation and Control for Electrical Systems
26 09 23 Lighting Control Devices



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0349	EA		120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS)	96.25	21.71
26 09 23 00-0350	EA		277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS-277)	116.60	21.71
26 09 23 00-0351			RF Wireless Technology, Dimmers (Lutron® Maestro Wireless®) <small>(26 09 23 00-0342)</small>		
26 09 23 00-0352	EA		600 Watt, 120 Volt, RF Wireless Technology, Incandescent Dimmer (Lutron® Maestro Wireless® MRF2-600M)	120.70	21.71
26 09 23 00-0353	EA		600 Watt, 120 Volt, RF Wireless Technology, Magnetic Low Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6MLV)	131.23	21.71
26 09 23 00-0354	EA		600 Watt, 120 Volt, RF Wireless Technology, Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-6ND-120)	157.58	21.71
26 09 23 00-0355	EA		1,000 Watt, 120 Volt, RF Wireless Technology, Spec Grade Dimmer (Lutron® Maestro Wireless® MRF2-10D-120)	168.43	27.15
26 09 23 00-0356	EA		600 Watt, 120 Volt, RF Wireless Technology, Electronic Low-Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6ELV-120)	209.38	21.71
26 09 23 00-0357	EA		120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R)	67.58	21.71
26 09 23 00-0358	EA		277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R-277)	82.06	21.71
26 09 23 00-0359	EA		120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD)	72.85	21.71
26 09 23 00-0360	EA		277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD-277)	87.33	21.71
26 09 23 00-0361	EA		6 Amperes, 120/277 Volt, RF Wireless Technology, 3-Wire Fluorescent Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-F6AN-DV)	234.05	38.00
26 09 23 00-0362			Removal And Reinstallation Of Occupancy Sensors <small>(26 09 23)</small>		
26 09 23 00-0363	EA		Removal And Reinstallation Of Ceiling Mounted Occupancy Sensor	73.28	
			Note: Includes storing and cleaning.		
26 09 23 00-0364	EA		Removal And Reinstallation Of Wall Mounted Occupancy Sensor	48.86	
			Note: Includes storing and cleaning.		
26 09 23 00-0365			Occupancy Sensors (Watt Stopper) <small>(26 09 23)</small>		
			Note: Includes testing of new devices and certification.		
26 09 23 00-0366			Occupancy Sensors <small>(26 09 23 00-0365)</small>		
			Note: Exclude boxes.		
26 09 23 00-0367			Wall Switch Mounted Occupancy Sensors <small>(26 09 23 00-0366)</small>		
26 09 23 00-0368			Ultrasonic, Wall Switch Mounted Occupancy Sensors <small>(26 09 23 00-0367)</small>		
26 09 23 00-0369	EA		Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-100)	110.32	10.86
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.51	
26 09 23 00-0370	EA		Dual Relay, Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-200)	129.94	10.86
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.51	
26 09 23 00-0371			Passive Infrared, Wall Switch Mounted Occupancy Sensors <small>(26 09 23 00-0367)</small>		
26 09 23 00-0372	EA		Nightlight, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WN-100)	91.35	10.86
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.51	
26 09 23 00-0373	EA		Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WS)	85.40	10.86
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.51	
26 09 23 00-0374	EA		Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-100)	96.50	10.86
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.51	
26 09 23 00-0375	EA		Dual Relay, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-200)	111.50	10.86
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.51	
26 09 23 00-0376	EA		Dimmable, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WD)	110.27	10.86
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.51	
26 09 23 00-0377			Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensors <small>(26 09 23 00-0367)</small>		
26 09 23 00-0378	EA		Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-100)	159.82	10.86
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.51	
26 09 23 00-0379	EA		Dual Relay, Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-200)	172.23	10.86
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.51	
26 09 23 00-0380			Wall Switch Mounted Occupancy Sensor Accessories <small>(26 09 23 00-0367)</small>		
26 09 23 00-0381	EA		Single Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP)	6.61	2.71
26 09 23 00-0382	EA		One Side Blank, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP)	7.60	2.71
26 09 23 00-0383	EA		Switch Option, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP)	7.60	2.71
26 09 23 00-0384			Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0386)</small>		
26 09 23 00-0385			Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0384)</small>		
26 09 23 00-0386			25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0385)</small>		
26 09 23 00-0387	EA		500 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-500A)	147.08	24.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0388 EA 1,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-1000A).....	168.43	24.42
26 09 23 00-0389 EA 2,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000A).....	189.93	24.42
26 09 23 00-0390 EA 90 LF Hallway Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000H)	187.98	24.42
26 09 23 00-0391 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0385)</small>		
26 09 23 00-0392 EA 600 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-605)	159.71	24.42
26 09 23 00-0393 EA 1,100 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1105)	181.36	24.42
26 09 23 00-0394 EA 2,205 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2205)	201.86	24.42
26 09 23 00-0395 EA 90 LF Hallway Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2255).....	205.33	24.42
26 09 23 00-0396 EA 600 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-600).....	172.65	24.42
26 09 23 00-0397 EA 1,100 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1100)	194.84	24.42
26 09 23 00-0398 EA 2,200 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2200)	216.94	24.42
26 09 23 00-0399 EA 90 LF Hallway Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2250).....	223.30	24.42
26 09 23 00-0400 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0385)</small>		
26 09 23 00-0401 EA 500 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-1).....	165.97	24.42
26 09 23 00-0402 EA 1,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-2).....	191.83	24.42
26 09 23 00-0403 EA 2,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-3).....	213.48	24.42
26 09 23 00-0404 EA 500 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-1).....	156.44	24.42
26 09 23 00-0405 EA 1,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-2).....	189.04	24.42
26 09 23 00-0406 EA 2,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-3).....	199.59	24.42
26 09 23 00-0407 EA 500 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-1).....	167.31	24.42
26 09 23 00-0408 EA 1,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-2).....	186.08	24.42
26 09 23 00-0409 EA 2,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-3).....	209.25	24.42
26 09 23 00-0410 Passive Infrared, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0384)</small>		
26 09 23 00-0411 EA 30 Segment, 5 Level Lens, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper WPIR).....	122.17	24.42
26 09 23 00-0412 EA HVAC/BAS, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-12/24)	124.69	24.42
26 09 23 00-0413 EA Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-205)	130.66	24.42
26 09 23 00-0414 EA Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-355)	146.68	24.42
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 14.66</i>		
26 09 23 00-0415 EA Low Profile, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-305).....	148.62	24.42
26 09 23 00-0416 EA Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-200)	157.00	24.42
26 09 23 00-0417 EA Low Profile, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-300)	170.42	24.42
26 09 23 00-0418 Passive Infrared And Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0384)</small>		
26 09 23 00-0419 EA 1,000 SF 360 Degree Coverage, Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-355)	201.68	24.42
26 09 23 00-0420 EA 1,000 SF 360 Degree Coverage, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-300)	230.06	24.42
26 09 23 00-0421 EA 1,000 SF 360 Degree Coverage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-305)	195.66	24.42
26 09 23 00-0422 Ceiling/Wall Mounted Occupancy Sensors <small>(26 09 23 00-0366)</small>		
26 09 23 00-0423 Passive Infrared, Ceiling/Wall Mounted Occupancy Sensors <small>(26 09 23 00-0422)</small>		
26 09 23 00-0424 EA 120 LF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100-1/3)	247.06	24.42
26 09 23 00-0425 EA 2,000 SF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100).....	247.06	24.42
26 09 23 00-0426 Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensors <small>(26 09 23 00-0422)</small>		
26 09 23 00-0427 EA 2,000 SF Coverage, Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper DT-200)	230.06	24.42
26 09 23 00-0428 Occupancy Sensor Power Packs <small>(26 09 23 00-0365)</small>		
26 09 23 00-0429 Single Voltage, Occupancy Sensor Power Packs <small>(26 09 23 00-0428)</small>		

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0430 EA 220 To 240 Volt AC, 20 Amperes, Occupancy Sensor Power Pack (Watt Stopper B230E-P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.11 13.03	21.71
26 09 23 00-0431 EA 347 Volt AC, 15 Amperes, Occupancy Sensor Power Pack (Watt Stopper B347D-P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.90 13.03	21.71
26 09 23 00-0432 Auxiliary, Occupancy Sensor Power Packs (26 09 23 00-0428)		
26 09 23 00-0433 EA 120, 277 Or 347 Volt AC, 20 Amperes, Auxiliary Occupancy Sensor Power Pack (Watt Stopper S120/277/347E-P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.96 13.03	21.71
26 09 23 00-0434 Universal Voltage, Power Packs For Occupancy Sensors (26 09 23 00-0428)		
26 09 23 00-0435 EA 120/277 Volt AC, 20 Amperes, Dual Voltage, Occupancy Sensor Power Pack (Watt Stopper BZ-100)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	91.70 13.03	21.71
26 09 23 00-0436 Form C, Occupancy Sensor Power Packs (26 09 23 00-0428)		
26 09 23 00-0437 EA 120 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A120C-P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.44 13.03	21.71
26 09 23 00-0438 EA 277 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A277C-P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.50 13.03	21.71
26 09 23 00-0439 Two Relay, Occupancy Sensor Power Packs (26 09 23 00-0428)		
26 09 23 00-0440 EA 120 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C120E-P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	104.33 13.03	21.71
26 09 23 00-0441 EA 277 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C277E-P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	105.76 13.03	21.71
26 09 23 00-0442 Occupancy Sensor Power Supplies (26 09 23 00-0428)		
26 09 23 00-0443 EA 120 Volt AC, Occupancy Sensor Power Supply (Watt Stopper BZ-150)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	93.43 13.03	21.71
26 09 23 00-0444 EA 277 Volt AC, Occupancy Sensor Power Supply (Watt Stopper AT-277)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	209.96 13.03	21.71
26 09 23 00-0445 Intelligent, Occupancy Sensor Power Packs (26 09 23 00-0428)		
26 09 23 00-0446 EA 120/277 Volt AC, Two Relays, Two Dimming Channels, Intelligent Occupancy Sensor Power Pack (Watt Stopper LC-100).....	276.95	21.71
26 09 23 00-0447 DIN Rail Mounted, Occupancy Sensor Power Packs (26 09 23 00-0428)		
26 09 23 00-0448 EA 120/230/277 Volt AC, DIN Rail Mounted, Occupancy Sensor Power Pack (Watt Stopper BD-100).....	90.88	21.71
26 09 23 00-0449 Occupancy Sensor Accessories (26 09 23 00-0365)		
26 09 23 00-0450 Protective Cages For Occupancy Sensors (26 09 23 00-0449)		
26 09 23 00-0451 EA Protective Cage For Occupancy Sensors (Watt Stopper WC).....	51.68	8.14
26 09 23 00-0452 Mounting Brackets For Occupancy Sensors (26 09 23 00-0449)		
26 09 23 00-0453 EA Mounting Bracket For Occupancy Sensor (Watt Stopper MB)..... Note: Includes J-plate for mounting to HID fixtures or L-plate for mounting to fluorescent fixtures, walls, shelves and girders.	41.28	13.57
26 09 23 00-0454 Occupancy/Lighting Logger (26 09 23 00-0449)		
Note: Logs when a space is occupied/vacant and when lighting is on/off.		
26 09 23 00-0455 EA Occupancy/Lighting Logger With Connector Cable (Watt Stopper IT-200).....	381.94	46.15
26 09 23 00-0456 Digital Time Light Switches (26 09 23 00-0365)		
26 09 23 00-0457 EA Preset Time, Wall Switch Mounted, Digital Time Light Switch (Watt Stopper TS-400).....	82.59	10.86
26 09 23 00-0458 Occupancy Sensors (Sensor Switch) (26 09 23)		
Note: Includes testing of new devices and certification.		
26 09 23 00-0459 Occupancy Sensors (Sensor Switch) (26 09 23 00-0458)		
Note: Exclude boxes		
26 09 23 00-0460 Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0459)		
26 09 23 00-0461 Passive Infrared, Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0460)		
26 09 23 00-0462 EA Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD LV)..... <i>For Low Temp/High Humidity Option, Add</i> <i>For Low Voltage Relay Option, Add</i>	200.98 13.58 16.30	10.86



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0463 EA Nightlight, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD NL) 141.23	141.23	10.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.51	
26 09 23 00-0464 EA Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD) 134.65	134.65	10.86
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.51	
26 09 23 00-0465 EA Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD SA)..... 134.65	134.65	10.86
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.51	
26 09 23 00-0466 EA 2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD 2P) 171.10	171.10	10.86
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.51	
26 09 23 00-0467 EA Single Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS)..... 171.10	171.10	10.86
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
26 09 23 00-0468 EA 2-Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS 2P) 208.46	208.46	10.86
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
26 09 23 00-0469 EA Single Pole, Passive Infrared, Internally Powered, Wall Switch Mount Occupancy Sensor (Sensor Switch IPD) 171.10	171.10	10.86
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
26 09 23 00-0470 Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch)		
<small>(26 09 23 00-0460)</small>		
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0471 EA Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT LV)..... 260.74	260.74	10.86
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Low Voltage Relay Option, Add</i>	16.30	
26 09 23 00-0472 EA Nightlight, Line Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT NL) 200.98	200.98	10.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.51	
26 09 23 00-0473 EA Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT) 196.51	196.51	10.86
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.51	
26 09 23 00-0474 EA Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT SA) 196.51	196.51	10.86
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.51	
26 09 23 00-0475 EA 2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT 2P) 230.86	230.86	10.86
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.51	
26 09 23 00-0476 EA Single Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT)..... 230.86	230.86	10.86
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
26 09 23 00-0477 EA 2-Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT 2P)..... 248.79	248.79	10.86
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
26 09 23 00-0478 Wall Switch Mount Occupancy Sensor Accessories (Sensor Switch) <small>(26 09 23 00-0460)</small>		
26 09 23 00-0479 EA One Blank, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX) 17.38	17.38	2.71
26 09 23 00-0480 EA One Switch, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX) 17.38	17.38	2.71
26 09 23 00-0481 EA Two Blanks, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX 3) 35.31	35.31	2.71
26 09 23 00-0482 EA Two Switches, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX 3)..... 35.31	35.31	2.71
26 09 23 00-0483 360 Degree View Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0459)</small>		
26 09 23 00-0484 Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0483)</small>		
Note: One photocell or dimming option per occupancy sensor		
26 09 23 00-0485 EA Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 9) 228.13	228.13	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Low Voltage Relay Option, Add</i>	16.30	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
<i>For Photocell Option With Dimming Capability, Add</i>	40.74	
26 09 23 00-0486 EA Low Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 9) 228.13	228.13	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Low Voltage Relay Option, Add</i>	16.30	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
<i>For Photocell Option With Dimming Capability, Add</i>	40.74	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0487	EA		Low Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 9)	228.13	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Low Voltage Relay Option, Add</i>	16.30	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
			<i>For Photocell Option With Dimming Capability, Add</i>	40.74	
26 09 23 00-0488	EA		Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9)	243.07	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
			<i>For Photocell Option With Dimming Capability, Add</i>	40.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0489	EA		Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9)	243.07	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
			<i>For Photocell Option With Dimming Capability, Add</i>	40.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0490	EA		Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9)	195.27	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
			<i>For Photocell Option With Dimming Capability, Add</i>	40.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0491	EA		2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9 2P)	302.83	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Photocell Option With Dual Zone On/Off, Add</i>	40.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0492	EA		2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9 2P)	302.83	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Photocell Option With Dual Zone On/Off, Add</i>	40.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0493	EA		2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9 2P)	255.02	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Photocell Option With Dual Zone On/Off, Add</i>	40.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0494	EA		Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 10)	228.13	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Low Voltage Relay Option, Add</i>	16.30	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
			<i>For Photocell Option With Dimming Capability, Add</i>	40.74	
26 09 23 00-0495	EA		Low Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 10)	228.13	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Low Voltage Relay Option, Add</i>	16.30	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
			<i>For Photocell Option With Dimming Capability, Add</i>	40.74	
26 09 23 00-0496	EA		Low Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 10)	228.13	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Low Voltage Relay Option, Add</i>	16.30	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
			<i>For Photocell Option With Dimming Capability, Add</i>	40.74	
26 09 23 00-0497	EA		Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10)	243.07	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
			<i>For Photocell Option With Dimming Capability, Add</i>	40.74	
26 09 23 00-0498	EA		Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10)	243.07	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
			<i>For Photocell Option With Dimming Capability, Add</i>	40.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0499	EA		Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10)	195.27	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
			<i>For Photocell Option With Dimming Capability, Add</i>	40.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0500	EA			2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10 2P).....	302.83	24.42
				<i>For Low Temp/High Humidity Option, Add</i>	13.58	
				<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
				<i>For Photocell Option With Dual Zone On/Off, Add</i>	40.74	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0501	EA			2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10 2P).....	302.83	24.42
				<i>For Low Temp/High Humidity Option, Add</i>	13.58	
				<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
				<i>For Photocell Option With Dual Zone On/Off, Add</i>	40.74	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0502	EA			2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10 2P).....	255.02	24.42
				<i>For Low Temp/High Humidity Option, Add</i>	13.58	
				<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
				<i>For Photocell Option With Dual Zone On/Off, Add</i>	40.74	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0503 Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch) ⁽²⁶						
<small>09 23 00-0463)</small>						
<small>Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection</small>						
26 09 23 00-0504	EA			Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 9).....	287.89	24.42
				<i>For Low Temp/High Humidity Option, Add</i>	13.58	
				<i>For Low Voltage Relay Option, Add</i>	16.30	
				<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
				<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
				<i>For Photocell Option With Dimming Capability, Add</i>	40.74	
26 09 23 00-0505	EA			Low Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 9).....	287.89	24.42
				<i>For Low Temp/High Humidity Option, Add</i>	13.58	
				<i>For Low Voltage Relay Option, Add</i>	16.30	
				<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
				<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
				<i>For Photocell Option With Dimming Capability, Add</i>	40.74	
26 09 23 00-0506	EA			Low Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 9).....	287.89	24.42
				<i>For Low Temp/High Humidity Option, Add</i>	13.58	
				<i>For Low Voltage Relay Option, Add</i>	16.30	
				<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
				<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
				<i>For Photocell Option With Dimming Capability, Add</i>	40.74	
26 09 23 00-0507	EA			Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9).....	272.95	24.42
				<i>For Low Temp/High Humidity Option, Add</i>	13.58	
				<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
				<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
				<i>For Photocell Option With Dimming Capability, Add</i>	40.74	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0508	EA			Single Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9).....	272.95	24.42
				<i>For Low Temp/High Humidity Option, Add</i>	13.58	
				<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
				<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
				<i>For Photocell Option With Dimming Capability, Add</i>	40.74	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0509	EA			Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9).....	225.14	24.42
				<i>For Low Temp/High Humidity Option, Add</i>	13.58	
				<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
				<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
				<i>For Photocell Option With Dimming Capability, Add</i>	40.74	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0510	EA			2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9 2P).....	332.71	24.42
				<i>For Low Temp/High Humidity Option, Add</i>	13.58	
				<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
				<i>For Photocell Option With Dual Zone On/Off, Add</i>	40.74	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0511	EA			2-Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9 2P).....	332.71	24.42
				<i>For Low Temp/High Humidity Option, Add</i>	13.58	
				<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
				<i>For Photocell Option With Dual Zone On/Off, Add</i>	40.74	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0512	EA			2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9 2P).....	284.90	24.42
				<i>For Low Temp/High Humidity Option, Add</i>	13.58	
				<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
				<i>For Photocell Option With Dual Zone On/Off, Add</i>	40.74	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0513	EA		Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 10).....	287.89	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Low Voltage Relay Option, Add</i>	16.30	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
			<i>For Photocell Option With Dimming Capability, Add</i>	40.74	
26 09 23 00-0514	EA		Low Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 10).....	287.89	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Low Voltage Relay Option, Add</i>	16.30	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
			<i>For Photocell Option With Dimming Capability, Add</i>	40.74	
26 09 23 00-0515	EA		Low Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 10).....	287.89	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Low Voltage Relay Option, Add</i>	16.30	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
			<i>For Photocell Option With Dimming Capability, Add</i>	40.74	
26 09 23 00-0516	EA		Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10).....	272.95	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
			<i>For Photocell Option With Dimming Capability, Add</i>	40.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0517	EA		Single Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10).....	272.95	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
			<i>For Photocell Option With Dimming Capability, Add</i>	40.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0518	EA		Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10).....	225.14	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
			<i>For Photocell Option With Dimming Capability, Add</i>	40.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0519	EA		2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10 2P).....	332.71	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Photocell Option With Dual Zone On/Off, Add</i>	40.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0520	EA		2-Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10 2P).....	332.71	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Photocell Option With Dual Zone On/Off, Add</i>	40.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0521	EA		2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10 2P).....	284.90	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Photocell Option With Dual Zone On/Off, Add</i>	40.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0522			Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0459)		
26 09 23 00-0523			Passive Infrared, Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0522)		
26 09 23 00-0524	EA		Low Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV 16).....	228.13	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Low Voltage Relay Option, Add</i>	16.30	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Ceiling Mount, Add</i>	27.16	
26 09 23 00-0525	EA		Low Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HW 13).....	258.01	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Low Voltage Relay Option, Add</i>	16.30	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Ceiling Mount, Add</i>	27.16	
26 09 23 00-0526	EA		Line Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HWR 13).....	317.77	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Ceiling Mount, Add</i>	27.16	
26 09 23 00-0527	EA		Single Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16).....	302.83	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
			<i>For Ceiling Mount, Add</i>	27.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0528 EA 2-Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16 2P).....	362.59	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
<i>For Ceiling Mount, Add</i>	27.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0529 Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0529)</small>		
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0530 EA Low Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV PDT 16).....	287.89	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Low Voltage Relay Option, Add</i>	16.30	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
<i>For Ceiling Mount, Add</i>	27.16	
26 09 23 00-0531 EA Single Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16).....	332.71	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
<i>For Ceiling Mount, Add</i>	27.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0532 EA 2-Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16 2P).....	392.47	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Photocell (Inhibit Mode Only) Option, Add</i>	16.30	
<i>For Ceiling Mount, Add</i>	27.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0533 High Bay Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0459)</small>		
26 09 23 00-0534 Passive Infrared, High Bay Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0533)</small>		
26 09 23 00-0535 EA Low Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CM 6).....	228.13	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Low Voltage Relay Option, Add</i>	16.30	
<i>For Photocell Option, Add</i>	27.16	
<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
26 09 23 00-0536 EA Low Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RM 6).....	228.13	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Low Voltage Relay Option, Add</i>	16.30	
<i>For Photocell Option, Add</i>	27.16	
<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
26 09 23 00-0537 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMB 6).....	228.13	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Low Voltage Relay Option, Add</i>	16.30	
<i>For Photocell Option, Add</i>	27.16	
<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
26 09 23 00-0538 EA Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6).....	195.27	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Start To High, HID Option, Add</i>	16.30	
<i>For Photocell Option, Add</i>	27.16	
<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0539 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6).....	195.27	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Start To High, HID Option, Add</i>	16.30	
<i>For Photocell Option, Add</i>	27.16	
<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0540 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6).....	195.27	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Start To High, HID Option, Add</i>	16.30	
<i>For Photocell Option, Add</i>	27.16	
<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0541 EA 2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 2P).....	255.02	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Photocell Option, Add</i>	27.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0542 EA 2-Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 2P).....	255.02	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Photocell Option, Add</i>	27.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0543 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 2P).....	255.02	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Photocell Option, Add</i>	27.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	

26 Electrical

26 09 Instrumentation and Control for Electrical Systems

26 09 23 Lighting Control Devices



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0544	EA		208/240 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 208) .....216.18	216.18	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photozell Option, Add</i>	27.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0545	EA		208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 208) .....216.18	216.18	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photozell Option, Add</i>	27.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0546	EA		208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 208) .....216.18	216.18	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photozell Option, Add</i>	27.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0547	EA		480 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 480) .....216.18	216.18	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photozell Option, Add</i>	27.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0548	EA		480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 480) .....216.18	216.18	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photozell Option, Add</i>	27.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0549	EA		480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 480) .....216.18	216.18	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photozell Option, Add</i>	27.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0550	EA		Low Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 50) .....258.01	258.01	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Low Voltage Relay Option, Add</i>	16.30	
			<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
26 09 23 00-0551	EA		Low Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RM 50) .....258.01	258.01	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Low Voltage Relay Option, Add</i>	16.30	
			<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
26 09 23 00-0552	EA		Low Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMB 50) .....258.01	258.01	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Low Voltage Relay Option, Add</i>	16.30	
			<i>For Photozell Option, Add</i>	27.16	
			<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
26 09 23 00-0553	EA		Single Pole, Line Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 50) .....314.78	314.78	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Start To High, HID Option, Add</i>	16.30	
			<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0554	EA		Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50) .....314.78	314.78	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Start To High, HID Option, Add</i>	16.30	
			<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0555	EA		Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50) .....314.78	314.78	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Start To High, HID Option, Add</i>	16.30	
			<i>For Photozell Option, Add</i>	27.16	
			<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0556	EA		2-Pole, Line Voltage, Recessed Mount, Passive Infrared, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 2P) .....275.94	275.94	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0557	EA		2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 2P) .....275.94	275.94	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photozell Option, Add</i>	27.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0558	EA		208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 208) .....231.12	231.12	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0559	EA		208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 208) .....231.12	231.12	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Photozell Option, Add</i>	27.16	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0560	EA		480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 480) .....231.12	231.12	24.42
			<i>For Low Temp/High Humidity Option, Add</i>	13.58	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	



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26 09 23 00-0561 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 480).....	231.12	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Photocell Option, Add</i>	27.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0562 EA Low Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 10)	258.01	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Low Voltage Relay Option, Add</i>	16.30	
<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
26 09 23 00-0563 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMB 10)	258.01	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Low Voltage Relay Option, Add</i>	16.30	
<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
26 09 23 00-0564 EA Single Pole, Line Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 10)	314.78	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Start To High, HID Option, Add</i>	16.30	
<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0565 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10)	314.78	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Start To High, HID Option, Add</i>	16.30	
<i>For Occupancy Controlled Dimming Option, Add</i>	27.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0566 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 2P)	302.83	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0567 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 480)	272.95	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0568 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 208).....	272.95	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	
26 09 23 00-0569 Occupancy Sensor Power Packs (Sensor Switch) (26 09 23 00-0458)		
26 09 23 00-0570 EA Single Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20)	127.09	21.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.03	
26 09 23 00-0571 EA 2-Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20 2P).....	186.85	21.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.03	
26 09 23 00-0572 EA Single Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack Without Relay Circuit Protection (Sensor Switch MP20)	97.21	21.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.03	
26 09 23 00-0573 EA 2-Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Slave Pack Without Relay Circuit Protection (Sensor Switch MSP20)	88.25	21.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.03	
26 09 23 00-0574 EA 20 Amperes, 120/277 Volt AC, Occupancy Sensor Slave Pack (Sensor Switch SP20)	118.13	21.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.03	
26 09 23 00-0575 EA 120/277 Volt AC, High Intensity Discharge (HID) Power Pack With 20 Minute Start To High Override (Sensor Switch PP20 SH)	192.82	21.71
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.03	
26 09 23 00-0576 EA 120/277 Volt AC, 2-Pole, Power Pack With Alternating Relays (Sensor Switch PP 2PAR)	192.82	21.71
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.03	
26 09 23 00-0577 EA 120/277 Volt AC, Power Pack With Momentary Contacts For Latching Contactors Or Relays (Sensor Switch PP 2PM)	192.82	21.71
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.03	
26 09 23 00-0578 Daylighting Control (Sensor Switch) (26 09 23 00-0458)		
26 09 23 00-0579 EA Low Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CM PC).....	198.25	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Dual Zone Option, Add</i>	40.74	
26 09 23 00-0580 EA Low Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RM PC).....	198.25	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Dual Zone Option, Add</i>	40.74	
26 09 23 00-0581 EA Low Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMB PC).....	198.25	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For Dual Zone Option, Add</i>	40.74	
26 09 23 00-0582 EA Line Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CMR PC)	198.25	24.42
<i>For Low Temp/High Humidity Option, Add</i>	13.58	
<i>For 480 Volt AC Option, Add</i>	19.01	
<i>For Dual Zone Option, Add</i>	40.74	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.66	

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26 09 23 00-0583 EA Line Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RMR PC) For Low Temp/High Humidity Option, Add For 480 Volt AC Option, Add For Dual Zone Option, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	198.25 13.58 19.01 40.74 14.66	24.42
26 09 23 00-0584 EA Line Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMRB PC) For Low Temp/High Humidity Option, Add For 480 Volt AC Option, Add For Dual Zone Option, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	198.25 13.58 19.01 40.74 14.66	24.42
26 09 23 00-0585 EA Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CM ADC) For Low Temp/High Humidity Option, Add For Dual Zone Option, Add	198.25 13.58 40.74	24.42
26 09 23 00-0586 EA Low Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RM ADC) For Low Temp/High Humidity Option, Add For Dual Zone Option, Add	198.25 13.58 40.74	24.42
26 09 23 00-0587 EA Low Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMB ADC) For Low Temp/High Humidity Option, Add For Dual Zone Option, Add	198.25 13.58 40.74	24.42
26 09 23 00-0588 EA Line Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CMR ADC) For Low Temp/High Humidity Option, Add For Dual Zone Option, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	198.25 13.58 40.74 14.66	24.42
26 09 23 00-0589 EA Line Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RMR ADC) For Low Temp/High Humidity Option, Add For Dual Zone Option, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	198.25 13.58 40.74 14.66	24.42
26 09 23 00-0590 EA Line Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMRB ADC) For Low Temp/High Humidity Option, Add For Dual Zone Option, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	198.25 13.58 40.74 14.66	24.42
26 09 23 00-0591 EA Low Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CM PC ADC) For Low Temp/High Humidity Option, Add For Dual Zone Option, Add	287.89 13.58 40.74	24.42
26 09 23 00-0592 EA Low Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RM PC ADC) For Low Temp/High Humidity Option, Add For Dual Zone Option, Add	287.89 13.58 40.74	24.42
26 09 23 00-0593 EA Low Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMB PC ADC) For Low Temp/High Humidity Option, Add For Dual Zone Option, Add	287.89 13.58 40.74	24.42
26 09 23 00-0594 EA Line Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMR PC ADC) For Low Temp/High Humidity Option, Add For Dual Zone Option, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	287.89 13.58 40.74 14.66	24.42
26 09 23 00-0595 EA Line Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RMR PC ADC) For Low Temp/High Humidity Option, Add For Dual Zone Option, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	287.89 13.58 40.74 14.66	24.42
26 09 23 00-0596 EA Line Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMRB PC ADC) For Low Temp/High Humidity Option, Add For Dual Zone Option, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	287.89 13.58 40.74 14.66	24.42
26 09 23 00-0597 Occupancy Sensors (Sensor Switch nLight®) (26 09 23) Note: Includes testing of new devices and certification.		
26 09 23 00-0598 Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0597) Note: Excludes boxes.		
26 09 23 00-0599 Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0598)		
26 09 23 00-0600 Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0599) Note: Includes passive infrared and microphonics detection		
26 09 23 00-0601 EA Low Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor With Raise/Lower Dim Control (Sensor Switch nLight® nWSX PDT LV DX).....	313.50	10.86
26 09 23 00-0602 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0599)		
26 09 23 00-0603 Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0602) Note: One photocell or dimming option per occupancy sensor		
26 09 23 00-0604 EA Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 9).....	369.50	24.42
26 09 23 00-0605 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 10).....	369.50	24.42
26 09 23 00-0606 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor With Auto Dimming Control Photocell (Sensor Switch nLight® nCM 10 ADC).....	369.50	24.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0607	Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0602)</small>	
Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection		
26 09 23 00-0608 EA	Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 9).....	433.63
26 09 23 00-0609 EA	Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10).....	433.63
26 09 23 00-0610 EA	2-Channel, Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10 2P).....	449.64
26 09 23 00-0611	Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0598)</small>	
26 09 23 00-0612	Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0611)</small>	
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0613 EA	Low Voltage, Dual Technology, Corner/Ceiling Mount, Wide View Occupancy Sensor (Sensor Switch nLight® nWV PDT 16)	433.63
26 09 23 00-0614	High Bay Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0598)</small>	
26 09 23 00-0615	Passive Infrared, High Bay Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0614)</small>	
26 09 23 00-0616 EA	Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch nLight® nCMB 6)	369.50
26 09 23 00-0617	Occupancy Sensor Power Packs (Sensor Switch nLight®) <small>(26 09 23 00-0597)</small>	
26 09 23 00-0618 EA	150mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-150).....	123.59
26 09 23 00-0619 EA	250mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-250).....	155.68
26 09 23 00-0620 EA	30mA/Port At 15 Volt DC Output, 120-277 Volt AC Input, Dimming Power Pack (Sensor Switch nLight® nEPP5 D KO).....	210.16
26 09 23 00-0621 EA	System Power Pack and Relay, Switching Module (Sensor Switch nLight® nPP 16)	210.16
26 09 23 00-0622	Occupancy Sensor Accessories (Sensor Switch nLight®) <small>(26 09 23 00-0597)</small>	
26 09 23 00-0623 EA	RS232 AV Integrator (Sensor Switch nLight® nIO X).....	449.64
26 09 23 00-0624 EA	8 Port, Aggregation Bridge With Power Supply (Sensor Switch nLight® nBRG 8 KIT)	362.85
26 09 23 00-0625	Daylighting Controls (Sensor Switch nLight®) <small>(26 09 23 00-0597)</small>	
26 09 23 00-0626 EA	Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch nLight® nCM ADC)	305.38
26 09 23 00-0627	Controls (Sensor Switch nLight®) <small>(26 09 23 00-0597)</small>	
26 09 23 00-0628 EA	On/Off And Raise/Lower Control, Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM DX).....	199.57
26 09 23 00-0629 EA	1 Scene Controller (2 Buttons), Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM 1SB).....	289.37
26 09 23 00-0630 EA	On/Off Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM).....	674.12
26 09 23 00-0631 EA	3-1/2" Screen, High Resolution Touch Screen Controller, WallPod® Station (Sensor Switch nLight® nPOD GFX)	674.12
26 09 23 00-0632 EA	3-1/2" Screen, Touch Screen Clock And Network Interface Controller, Gateway (Sensor Switch nLight® nGWY2).....	2,533.85
26 09 23 00-0633	Occupancy Sensors (Lutron) <small>(26 09 23)</small>	
Note: Includes testing of new devices and certification.		
26 09 23 00-0634	Wireless Occupancy Sensors <small>(26 09 23 00-0633)</small>	
26 09 23 00-0635 EA	Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Occupancy/Vacancy Sensor (Lutron® LRF2-OCR2B-P-WH)	147.62
26 09 23 00-0636 EA	Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Vacancy Sensor (Lutron® LRF2-VCR2B-P-WH)	154.22
26 09 23 00-0637 EA	Wireless, Passive Infrared, Hallway Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OHLB-P-WH)	149.19
26 09 23 00-0638 EA	Wireless, Passive Infrared, Hallway Wall Mount, Vacancy Sensor (Lutron® LRF2-VHLB-P-WH).....	157.97
26 09 23 00-0639 EA	Wireless, Passive Infrared, 90 Degree Corner Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OKLB-P-WH)	151.16
26 09 23 00-0640 EA	Wireless, Passive Infrared, 90 Degree Corner Mount, Vacancy Sensor (Lutron® LRF2-VKLB-P-WH).....	157.97
26 09 23 00-0641 EA	Wireless, Passive Infrared, 180 Degree Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OWLBP-WH)	147.62
26 09 23 00-0642 EA	Wireless, Passive Infrared, 180 Degree Wall Mount, Vacancy Sensor (Lutron® LRF2-VWLB-P-WH).....	151.16
26 09 23 00-0643 EA	Wireless, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Lutron® FHB140NP24V).....	149.19
26 09 23 00-0644 EA	Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-500-WH)	231.84
26 09 23 00-0645 EA	Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-500R-WH).....	247.58
26 09 23 00-0646 EA	Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-1000-WH)	283.00
26 09 23 00-0647 EA	Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-1000R-WH).....	298.74
26 09 23 00-0648 EA	Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CDT-2000-WH)	306.61

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26 09 23 00-0649	EA		Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-2000R-WH).....	322.35	24.42
26 09 23 00-0650	EA		Wireless, Passive Infrared, Ceiling Mount, 450 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-450-WH).....	182.25	24.42
26 09 23 00-0651	EA		Wireless, Passive Infrared, Ceiling Mount, 1,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-1500-WH).....	192.48	24.42
26 09 23 00-0652	EA		Wireless, Ultrasonic, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-500-WH).....	225.93	24.42
26 09 23 00-0653	EA		Wireless, Ultrasonic, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-1000-WH).....	251.51	24.42
26 09 23 00-0654	EA		Wireless, Ultrasonic, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CUS-2000-WH).....	271.19	24.42
26 09 23 00-0655	EA		Wireless, Passive Infrared, 1,600 SF Coverage, 110 Degree Wall Mount, Occupancy Sensor (Lutron® LOS-WIR-WH).....	233.80	24.42
26 09 23 00-0656	EA		Wireless, Passive Infrared, RF Daylight Sensor (Lutron® LRF2-DCRB-WH).....	214.64	24.42
26 09 23 00-0657	EA		Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-SIR-HD-WH).....	179.09	24.42
26 09 23 00-0658	EA		Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor, Dual Circuit (Lutron® LOS-S2IR-HD-WH).....	221.01	24.42
26 09 23 00-0659	EA		Wireless, Switch and Ceiling Retrofit Sensor (Lutron® MRF2-1S8A-10C).....	269.00	24.42
26 09 23 00-0660	EA		Wireless, Switch and Hallway Retrofit Sensor (Lutron® MRF2-1S8A-10H).....	285.66	24.42
26 09 23 00-0661	EA		Wireless, Switch and Corner Retrofit Sensor (Lutron® MRF2-1S8A-10K).....	285.66	24.42
26 09 23 00-0662	EA		Wireless, Switch and Wall Retrofit Sensor (Lutron® MRF2-1S8A-10W).....	285.66	24.42
26 09 23 00-0663	EA		Wireless, Switch and Vacancy Retrofit Sensor (Lutron® MRF2-1S8A-10V).....	300.94	24.42
26 09 23 00-0664	EA		Wireless, Two Switchs and Wall Retrofit Sensor (Lutron® MRF2-2S8A-10W).....	488.62	35.28
26 09 23 00-0665 Nodes And Modules <small>(26 09 23 00-0633)</small>					
26 09 23 00-0666	EA		0 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-C).....	241.67	24.42
26 09 23 00-0667	EA		0 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-J).....	241.67	24.42
26 09 23 00-0668	EA		4 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-C).....	306.61	24.42
26 09 23 00-0669	EA		4 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-J).....	306.61	24.42
26 09 23 00-0670	EA		120 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-120-WH).....	392.70	27.15
26 09 23 00-0671	EA		120 Volt, Gang Box Mount, Switching Power Module (Lutron® PHPM-SW-DV-WH).....	392.70	27.15
26 09 23 00-0672	EA		120 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-120-WH).....	477.32	27.15
26 09 23 00-0673	EA		120 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-120-WH).....	489.12	27.15
26 09 23 00-0674	EA		120/277 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-DV-WH).....	605.22	27.15
26 09 23 00-0675	EA		120/277 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-DV-WH).....	642.60	27.15
26 09 23 00-0676	EA		120/277 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-DV-WH).....	679.99	27.15
26 09 23 00-0677	EA		1 Circuit, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-2).....	1,843.02	43.43
26 09 23 00-0678	EA		2 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-4).....	1,809.62	48.86
26 09 23 00-0679	EA		3 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-6).....	2,656.75	54.28
26 09 23 00-0680 Other Accessories <small>(26 09 23 00-0633)</small>					
26 09 23 00-0681	EA		Pico® Wireless Control Wallplate Adapter (Lutron® PJ).....	37.15	
26 09 23 00-0682	EA		Pico® Wireless Control (Lutron® PJ).....	50.05	
26 09 23 00-0683	EA		4-Scene Wireless Remote Control (Lutron® GRX-IT-WH).....	148.58	
26 09 23 00-0684	EA		8-Scene Wireless Remote Control (Lutron® GRX-8IT-WH).....	284.35	
26 09 23 00-0685	EA		4 Button, EcoSystem® Wall Control With Raise/Lower (Lutron® CC-4BRL).....	295.26	24.42
26 09 23 00-0686	EA		seeTouch® QS Wallstation (Lutron® QSWS2).....	375.01	24.42
26 09 23 00-0687	EA		seeTouch® QS Wallstation With Infrared Receiver (Lutron® QSWS2).....	375.01	24.42
26 09 23 00-0688	EA		120/277 Volt, Energi Savr Node™ With Softswitch®, Fixture Controller (Lutron® QSN-4S16-S).....	617.02	27.15
26 09 23 00-0689	EA		120/277 Volt, Energi Savr Node™ For 0-10 V Models, Fixture Controller (Lutron® QSN-4T16-S).....	847.24	27.15
26 09 23 00-0690	EA		Control Interface (Lutron® QSE-CI-NWK-E).....	1,020.88	24.42
26 09 23 00-0691	EA		1 EcoSystem® Digital Link, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-1ECO-S).....	1,013.03	24.42
26 09 23 00-0692	EA		2 EcoSystem® Digital Links, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-2ECO-S).....	1,357.38	24.42
26 09 23 00-0693	MLF		5 Conductor, Non-Plenum, Low Voltage Grafik Eye Cable (Lutron® GRX-CBL-346S).....	2,107.53	758.62
26 09 23 00-0694	MLF		5 Conductor, Plenum Rated, Low Voltage Grafik Eye Cable (Lutron® GRX-PCBL-346S).....	2,894.61	758.62
26 09 23 00-0695 Fixture Mounted Occupancy Sensors (Leviton) <small>(26 09 23)</small>					
Note: Includes testing of new devices and certification.					
26 09 23 00-0696	EA		120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-ITW).....	141.32	24.42
26 09 23 00-0697	EA		480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-14W).....	123.22	24.42
26 09 23 00-0698	EA		120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-CTW).....	156.28	24.42
26 09 23 00-0699	EA		480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-C4W).....	123.22	24.42
26 09 23 00-0700	EA		120-347 Volt, Dual Detection Occupancy Wall Sensor Switch (Lithonia WSX-PDT).....	209.46	10.84
26 09 23 00-0701 Wireless Enabled Communication Devices For Streetlights <small>(26 09 23)</small>					
Note: Includes testing of new devices and certification.					
26 09 23 00-0702 Wireless Enabled Communication Nodes For Streetlights (Roam®) <small>(26 09 23 00-0701)</small>					
26 09 23 00-0703	EA		120/244/277 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN127 NM1).....	319.84	
26 09 23 00-0704	EA		480 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN480 NM1).....	448.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0705 Wireless Enabled Communication Devices For Streetlights (Roam®) <small>(26 09 23 00-0701)</small>		
26 09 23 00-0706 EA Retrofit Receptacle Kit (Roam® DUR103).....	53.72	
<small>Note: For adapting light fixtures for use with a NEMA locking type photocontrol.</small>		
26 09 23 00-0707 EA Wireless Enabled Backbone And Data Backhaul Device, Gateway (Roam® REG127).....	12,950.76	62.50
26 09 23 00-0708 Counter Mounted Consolets <small>(26 09 23)</small>		
26 09 23 00-0709 EA 20" x 24" Type 12, Oil Tight Consolets, Counter Mounted (Schaefer's SPCL-20C24).....	613.61	135.46
26 09 23 00-0710 Lighting Console And Stations <small>(26 09 23)</small>		
26 09 23 00-0711 EA 80 Channel, 40 Faders, Lighting Console (ETC ColorSource CS 40)	4,558.23	135.46
<small>For Lighting Console Dust Cover (ETC ColorSource CS40DC), Add</small>		
<small>For Lighting Console Case (ETC ColorSourcePart 11866), Add</small>		
26 09 23 00-0712 EA 10 Preset, Lighting Control Station (Doug Fleenor PRE10-A2)	3,150.13	81.28
26 09 23 00-0713 Emergency Lighting Controls <small>(26 09 23)</small>		
26 09 23 00-0714 Emergency Lighting Control Units (Watt Stopper ELCU) <small>(26 09 23 00-0713)</small>		
<small>Note: The ELCU monitors a single circuit and can be wired either as a control device, so that emergency lighting follows the control of normal lighting, or as a bypass device to shunt emergency power around a control device when normal power fails. Includes integral push-to-test button and LED indicator for emergency and normal power.</small>		
26 09 23 00-0715 EA DIN Rail Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-100).....	191.01	27.15
26 09 23 00-0716 EA 1/2" Knockout Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-200)	191.01	27.15
26 09 23 00-0717 Emergency Shunt Relays (Lighting Control & Design GR 2001™) <small>(26 09 23 00-0713)</small>		
<small>Note: Normally-closed, electrically-held relay to be wired in parallel with a wall switch. Manually controlled emergency lighting will be automatically shunted on during a power outage. Includes two-gang NEMA 1 junction box, voltage-separating barrier and plaster ring separating normal and emergency power. Excludes wall plate and switch.</small>		
26 09 23 00-0718 EA 1 Emergency Shunt Relay And NEMA 1 Enclosure (Lighting Control & Design GR 2001™).....	365.66	38.00
26 09 23 00-0719 EA 2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™).....	500.51	43.43
26 09 23 00-0720 EA 2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™ Dual).....	677.02	48.86
<small>Note: Controls normal and emergency lighting from single-pole wall switch.</small>		
26 09 23 00-0721 Photocells <small>(26 09 23)</small>		
26 09 23 00-0722 EA Plug-In Photocell For Lighting Fixtures (Intermac® LC2000).....	86.68	
26 09 23 00-0723 EA Wired Photocell For Lighting Fixtures (Intermac® K4021C)	193.96	
26 09 23 00-0724 Outdoor Lighting Motion Sensors <small>(26 09 23)</small>		
26 09 23 00-0725 EA 70' Range, 180 Degree Detection Zone, 8 Amperes, Switching Capacity, Polycarbonate Housing, Outdoor Motion Sensor (Lithonia OMS 1000)	116.55	27.15
26 09 23 00-0726 EA 70' Range, 200 Degree Detection Zone, 10 Amperes, Switching Capacity, Cast Aluminum Housing, Outdoor Motion Sensor (Lithonia OMS 2000)	127.84	27.15
26 09 23 00-0727 EA 30' Range, 360 Degree Detection Zone, Line Voltage, Plastic Housing, IP66 Rated, Outdoor Motion Sensor With Photocell (SensorSwitch SBOR)	547.04	27.15
<small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>		
	16.28	
26 09 23 00-0728 Street Light Controls <small>(26 09 23)</small>		
26 09 23 00-0729 Photo Controls <small>(26 09 23 00-0728)</small>		
26 09 23 00-0730 EA Photo Control, 120 Volt As Manufactured By Cooper Lighting #RA1014	92.38	
26 09 23 00-0731 EA Photo Control, Multi-Tap As Manufactured By Cooper Lighting #RA1016.....	106.78	
26 09 23 00-0732 Connector Node <small>(26 09 23 00-0728)</small>		
26 09 23 00-0733 EA Outdoor Lighting Connector Node (Philips City Touch LLC7260).....	497.61	2.98
 26 10 Medium-Voltage Electrical Distribution <small>(26)</small>		
26 11 Substations <small>(26 10)</small>		
26 11 13 Primary Unit Substations <small>(26 11)</small>		
26 11 13 00-0001 "Switchyard" Substation Primary Incoming Section <small>(26 11 13)</small>		
26 11 13 00-0002 Outdoor Oil Circuit Breakers "Switchyard" <small>(26 11 13 00-0001)</small>		
<small>Note: Type SP 14.4 thru 69 KV 1200 amp. Frame mounted. Standard equipment</small>		
26 11 13 00-0003 EA 14.4 KV, 500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	55,713.36	1,892.09
<small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>		
	1,154.73	
26 11 13 00-0004 EA 23.0 KV, 750 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	68,345.09	2,392.93
<small>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</small>		
	1,443.41	

26 Electrical
26 10 Medium-Voltage Electrical Distribution
26 11 Substations



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0005	EA		34.5 KV, 1,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	77,421.33	2,392.93
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,443.41	
26 11 13 00-0006	EA		46 KV, 2,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	89,023.15	2,392.93
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,539.64	
26 11 13 00-0007	EA		69 KV, 3,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	100,998.19	2,949.43
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,776.51	
26 11 13 00-0008			Accessories For Outdoor Oil Circuit Breakers <small>(26 11 13 00-0001)</small>		
26 11 13 00-0009	EA		Reclosure Relay, Adjustable, 3 Shot, #179.....	1,526.36	198.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	117.25	
26 11 13 00-0010	EA		Overcurrent Relay, 1 Phase, #51/51N.....	483.40	143.56
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.20	
26 11 13 00-0011	EA		Directional Overcurrent Relay, Three-Phase, Device No. 67.....	724.41	143.56
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.44	
26 11 13 00-0012	EA		Voltage Relay, Under Or Over- Voltage, Device No. 27 Or 59, Three-Phase.....	572.93	143.56
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.20	
26 11 13 00-0013	EA		Differential Relay Package, Complete, Device No. 87.....	2,143.27	485.13
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	292.93	
26 11 13 00-0014			"Switchyard", Substation Transformer Section <small>(26 11 13)</small>		
			Note: Standard NEMA design two winding three phase, 60 Hz. oil filled load tap changer 10% Range		
26 11 13 00-0015			14.4 KV Nominal Primary <small>(26 11 13 00-0014)</small>		
26 11 13 00-0016	EA		1,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	32,100.06	1,892.09
			<i>For 50 Hz Operation, Add</i>	3,390.11	
			<i>For Forced Air Cooling, Add</i>	3,390.11	
			<i>For External Control Panel, Add</i>	847.53	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	282.51	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	1,412.55	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	3,531.37	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	4,237.64	
26 11 13 00-0017	EA		2,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	36,705.51	2,370.67
			<i>For 50 Hz Operation, Add</i>	3,827.30	
			<i>For Forced Air Cooling, Add</i>	3,827.30	
			<i>For External Control Panel, Add</i>	956.82	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	318.94	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	1,594.71	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	3,986.77	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	4,784.12	
26 11 13 00-0018	EA		5,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	56,471.67	3,338.98
			<i>For 50 Hz Operation, Add</i>	5,955.46	
			<i>For Forced Air Cooling, Add</i>	5,955.46	
			<i>For External Control Panel, Add</i>	1,488.86	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	496.29	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	2,481.44	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	6,203.60	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	7,444.32	
26 11 13 00-0019	EA		7,500 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	81,949.01	4,064.83
			<i>For 50 Hz Operation, Add</i>	8,781.81	
			<i>For Forced Air Cooling, Add</i>	8,781.81	
			<i>For External Control Panel, Add</i>	2,195.45	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	731.82	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	3,659.09	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	9,147.72	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	10,977.26	
26 11 13 00-0020	EA		10,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	100,964.29	5,260.37
			<i>For 50 Hz Operation, Add</i>	10,800.62	
			<i>For Forced Air Cooling, Add</i>	10,800.62	
			<i>For External Control Panel, Add</i>	2,700.16	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	900.05	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	4,500.26	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	11,250.65	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	13,500.78	
26 11 13 00-0021			23 KV Nominal Primary <small>(26 11 13 00-0014)</small>		
26 11 13 00-0022	EA		1,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	35,888.13	2,559.89
			<i>For 50 Hz Operation, Add</i>	3,729.21	
			<i>For External Control Panel, Add</i>	932.30	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	310.77	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	1,553.84	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	3,884.59	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	4,661.51	
			<i>For Forced Air Cooling, Add</i>	2,486.14	
26 11 13 00-0023	EA		2,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	40,975.75	2,559.89
			<i>For 50 Hz Operation, Add</i>	4,219.89	
			<i>For External Control Panel, Add</i>	1,054.97	
			<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	351.66	
			<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	1,758.29	
			<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	4,395.72	
			<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	5,274.87	
			<i>For Forced Air Cooling, Add</i>	2,813.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0024 EA 5,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	65,738.74	3,784.17
For 50 Hz Operation, Add	6,964.86	
For External Control Panel, Add	1,741.22	
For Internally Mounted Current Transformers And Linear Couplers, Add	580.41	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,902.03	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	7,255.07	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	8,706.08	
For Forced Air Cooling, Add	4,643.24	
26 11 13 00-0025 EA 7,500 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	88,346.73	5,260.37
For 50 Hz Operation, Add	9,286.51	
For External Control Panel, Add	2,321.63	
For Internally Mounted Current Transformers And Linear Couplers, Add	773.88	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,869.38	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	9,673.45	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	11,608.14	
For Forced Air Cooling, Add	6,191.01	
26 11 13 00-0026 EA 10,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	109,376.01	5,260.37
For 50 Hz Operation, Add	11,810.03	
For External Control Panel, Add	2,952.51	
For Internally Mounted Current Transformers And Linear Couplers, Add	984.17	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,920.85	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	12,302.11	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	14,762.54	
For Forced Air Cooling, Add	7,873.35	
26 11 13 00-0027 34.5 KV Nominal Primary <small>(26 11 13 00-0014)</small>		
26 11 13 00-0028 EA 1,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	45,064.77	3,060.73
For 50 Hz Operation, Add	4,710.58	
For External Control Panel, Add	1,177.64	
For Internally Mounted Current Transformers And Linear Couplers, Add	392.55	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,962.74	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	4,906.85	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	5,888.22	
For Forced Air Cooling, Add	3,140.38	
26 11 13 00-0029 EA 2,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	54,431.23	4,785.88
For 50 Hz Operation, Add	5,691.94	
For External Control Panel, Add	1,422.99	
For Internally Mounted Current Transformers And Linear Couplers, Add	474.33	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,371.64	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	5,929.11	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	7,114.93	
For Forced Air Cooling, Add	3,794.63	
26 11 13 00-0030 EA 5,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	75,234.27	4,785.88
For 50 Hz Operation, Add	7,873.38	
For External Control Panel, Add	1,968.35	
For Internally Mounted Current Transformers And Linear Couplers, Add	656.12	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,280.58	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	8,201.44	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	9,841.73	
For Forced Air Cooling, Add	5,248.92	
26 11 13 00-0031 EA 7,500 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	96,758.39	5,140.82
For 50 Hz Operation, Add	10,295.91	
For External Control Panel, Add	2,573.98	
For Internally Mounted Current Transformers And Linear Couplers, Add	857.99	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,289.96	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	10,724.91	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	12,869.89	
For Forced Air Cooling, Add	6,863.94	
26 11 13 00-0032 EA 10,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	167,120.70	6,575.48
For 50 Hz Operation, Add	18,371.16	
For External Control Panel, Add	4,592.79	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,530.93	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	7,654.65	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	19,136.63	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	22,963.95	
For Forced Air Cooling, Add	12,247.44	
26 11 13 00-0033 46 KV Nominal Primary <small>(26 11 13 00-0014)</small>		
26 11 13 00-0034 EA 1,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	69,097.07	3,561.58
For 50 Hz Operation, Add	7,451.84	
For External Control Panel, Add	1,862.96	
For Internally Mounted Current Transformers And Linear Couplers, Add	620.99	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,104.94	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	7,762.34	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	9,314.81	
For Forced Air Cooling, Add	4,967.90	
26 11 13 00-0035 EA 2,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	78,100.47	3,561.58
For 50 Hz Operation, Add	8,448.27	
For External Control Panel, Add	2,112.07	
For Internally Mounted Current Transformers And Linear Couplers, Add	704.02	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,520.11	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	8,800.28	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	10,560.34	
For Forced Air Cooling, Add	5,632.18	

26 Electrical
26 10 Medium-Voltage Electrical Distribution
26 11 Substations



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0036	EA		5,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled..... For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air Cooling, Add	108,182.95 11,827.22 2,956.81 985.60 4,928.01 12,320.02 14,784.03 7,884.82	4,785.88
26 11 13 00-0037	EA		7,500 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled..... For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air Cooling, Add	132,459.30 14,211.80 3,552.95 1,184.32 5,921.58 14,803.95 17,764.74 9,474.53	6,575.48
26 11 13 00-0038	EA		10,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled..... For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air Cooling, Add	188,202.08 20,900.93 5,225.23 1,741.74 8,708.72 21,771.80 26,126.16 13,933.95	6,575.48
26 11 13 00-0039			69 KV Nominal Primary (26 11 13 00-0014)		
26 11 13 00-0040	EA		1,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled..... For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air Cooling, Add	99,452.46 11,010.51 2,752.63 917.54 4,587.71 11,469.28 13,763.14 7,340.34	3,784.17
26 11 13 00-0041	EA		2,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled..... For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air Cooling, Add	114,228.64 12,552.71 3,138.18 1,046.06 5,230.29 13,075.74 15,690.88 8,368.47	4,785.88
26 11 13 00-0042	EA		5,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled..... For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air Cooling, Add	156,965.51 17,681.13 4,420.28 1,473.43 7,367.14 18,417.84 22,101.41 11,787.42	4,785.88
26 11 13 00-0043	EA		7,500 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled..... For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air Cooling, Add	166,509.05 18,297.77 4,574.44 1,524.81 7,624.07 19,060.17 22,872.21 12,198.51	6,575.48
26 11 13 00-0044	EA		10,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled..... For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air Cooling, Add	217,983.66 24,474.72 6,118.68 2,039.56 10,197.80 25,494.50 30,593.40 16,316.48	6,575.48
26 11 13 00-0045			Circuit Breakers Fluarc SF6 13.8 KV (26 11 13)		
26 11 13 00-0046	EA		1,200 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	59,671.78	963.14
26 11 13 00-0047	EA		1,200 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	65,508.17	963.14
26 11 13 00-0048	EA		1,200 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	74,591.29	1,196.38
26 11 13 00-0049	EA		2,000 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	69,777.15	1,438.59
26 11 13 00-0050	EA		2,000 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	78,594.25	1,438.59
26 11 13 00-0051	EA		2,000 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	89,666.88	1,671.32
26 11 13 00-0052	EA		3,000 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	92,453.12	1,909.48
26 11 13 00-0053	EA		3,000 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	103,430.91	1,909.48
26 11 13 00-0054	EA		3,000 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	108,421.93	2,144.36

26 11 16 Secondary Unit Substations (26 11)

26 11 16 11 Secondary Unit Substations with Switchgear Secondary (26 11 16)

26 11 16 11-0001 Substation Primary Incoming Section (26 11 16 11)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0002 Manual Transferring Fused Load Break Switches <small>(26 11 16 11-0001)</small> Note: 15 KV 600 Amp 3 pole 2 position floor mounted. Type, metal compartment includes weatherproofing, fuses, transformer throat, pothead terminations thru 500 MCM, with surge protection. Manual transferring of one line to an alternate incoming line.		
26 11 16 11-0003 EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position.....	33,994.75	1,414.33
26 11 16 11-0004 EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position.....	39,206.65	1,414.33
26 11 16 11-0005 Automatic Transferring Fused Load Break Switches <small>(26 11 16 11-0001)</small> Note: Items are equipped with 3 pole - 2 position selector switch for automatic transferring one line to an alternate incoming line.		
26 11 16 11-0006 EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position Selector Switch.....	48,061.32	1,414.33
26 11 16 11-0007 EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position Selector Switch.....	51,453.25	1,414.33
26 11 16 11-0008 Accessories For Substation Fused Load Break Switches <small>(26 11 16 11-0001)</small>		
26 11 16 11-0009 EA Primary Lightning Arrestors Accessories, Secondary Distribution Section.....	7,035.27	
26 11 16 11-0010 EA Key Interlock Accessories, Secondary Distribution Section.....	684.79	
26 11 16 11-0011 Oil Filled Substation Transformers <small>(26 11 16 11)</small> Note: 112-1/2 KVA thru 2500 KVA standard NEMA design 3 phase cover mounted manual tap changer, liquid level gauge with alarm contacts, thermometer with alarm contacts, pressure vacuum gauge, automatic control for auxiliary cooling equipment. Weatherproof.		
26 11 16 11-0012 Substation, Primary 13.8 KV Secondary 480Y/277 Or 480 Volt, 60 HZ <small>(26 11 16 11-0011)</small>		
26 11 16 11-0013 EA 75 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	13,301.09	834.75
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	814.21	
For Control Power Transformer On Fans And Auxiliary, Add	348.95	
For Internal Mounted Current Transformer And Linear Coupler, Add	116.32	
26 11 16 11-0014 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	19,376.72	1,001.69
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,216.13	
For Control Power Transformer On Fans And Auxiliary, Add	521.20	
For Internal Mounted Current Transformer And Linear Coupler, Add	173.73	
26 11 16 11-0015 EA 150 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	21,916.63	1,112.99
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,378.34	
For Control Power Transformer On Fans And Auxiliary, Add	590.72	
For Internal Mounted Current Transformer And Linear Coupler, Add	196.91	
26 11 16 11-0016 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	25,985.69	1,391.24
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,624.22	
For Control Power Transformer On Fans And Auxiliary, Add	696.10	
For Internal Mounted Current Transformer And Linear Coupler, Add	232.03	
26 11 16 11-0017 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	29,093.55	1,725.14
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,795.03	
For Control Power Transformer On Fans And Auxiliary, Add	769.30	
For Internal Mounted Current Transformer And Linear Coupler, Add	256.43	
26 11 16 11-0018 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	31,298.99	2,114.68
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,894.87	
For Control Power Transformer On Fans And Auxiliary, Add	812.09	
For Internal Mounted Current Transformer And Linear Coupler, Add	270.70	
26 11 16 11-0019 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	36,691.99	1,112.99
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,210.05	
For Control Power Transformer On Fans And Auxiliary, Add	947.17	
For Internal Mounted Current Transformer And Linear Coupler, Add	315.72	
26 11 16 11-0020 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	39,133.60	2,782.48
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,349.80	
For Control Power Transformer On Fans And Auxiliary, Add	1,007.06	
For Internal Mounted Current Transformer And Linear Coupler, Add	335.69	
26 11 16 11-0021 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	43,695.85	3,060.73
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,630.21	
For Control Power Transformer On Fans And Auxiliary, Add	1,127.23	
For Internal Mounted Current Transformer And Linear Coupler, Add	375.74	
26 11 16 11-0022 EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	50,434.73	3,394.63
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	3,055.18	
For Control Power Transformer On Fans And Auxiliary, Add	1,309.36	
For Internal Mounted Current Transformer And Linear Coupler, Add	436.45	
26 11 16 11-0023 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	55,362.75	3,700.71
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	3,357.29	
For Control Power Transformer On Fans And Auxiliary, Add	1,438.84	
For Internal Mounted Current Transformer And Linear Coupler, Add	479.61	
26 11 16 11-0024 Substation, Primary 13.8 KV Secondary 208Y/120 Volt, 60 HZ <small>(26 11 16 11-0011)</small>		
26 11 16 11-0025 EA 75 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	12,720.80	834.75
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	773.59	
For Control Power Transformer On Fans And Auxiliary, Add	331.54	
For Internal Mounted Current Transformer And Linear Coupler, Add	110.51	
26 11 16 11-0026 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	18,854.66	834.75
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,202.96	
For Control Power Transformer On Fans And Auxiliary, Add	515.56	
For Internal Mounted Current Transformer And Linear Coupler, Add	171.85	

26 Electrical
26 10 Medium-Voltage Electrical Distribution
26 11 Substations



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0027 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	21,903.79 1,377.45 590.33 196.78	1,112.99
26 11 16 11-0028 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	26,007.78 1,625.77 696.76 232.25	1,391.24
26 11 16 11-0029 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	31,348.40 1,952.87 836.94 278.98	1,725.14
26 11 16 11-0030 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	34,106.69 2,091.41 896.32 298.77	2,114.68
26 11 16 11-0031 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	37,988.48 2,300.81 986.06 328.69	2,559.89
26 11 16 11-0032 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	41,366.91 2,506.14 1,074.06 358.02	2,782.48
26 11 16 11-0033 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	46,583.87 2,832.37 1,213.87 404.62	3,060.73
26 11 16 11-0034 Accessories For Oil Filled Substation Transformers <small>(26 11 16 11-0011)</small>		
26 11 16 11-0035 EA Sudden Pressure Relay.....	3,525.49	
26 11 16 11-0036 EA Throats Or Flanges (HV Or LV).....	6,999.30	
26 11 16 11-0037 EA Lightning Arrestors (3 - 1 Pole).....	4,608.77	
26 11 16 11-0038 EA Single Feeder Switch With Fuses 3 Pole, 2 Position, Open-Close Close) Fuse Type - CLE (80E To 125 X).....	25,576.35	
26 11 16 11-0039 EA Oil Fuse Cutout, 15 KV, 200 Amperes, Free Standing Air Filled Terminal Compartment, 15 KV - 200 Amp Cutout.....	23,929.22	
26 11 16 11-0040 Reinforced Concrete Curb With 6" Slab <small>(26 11 16 11-0011)</small>		
Note: For transformer liquid containment area.		
26 11 16 11-0041 EA 112.5 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	4,220.50	1,210.96
26 11 16 11-0042 EA 150 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	4,220.50	1,210.96
26 11 16 11-0043 EA 225 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	4,220.50	1,210.96
26 11 16 11-0044 EA 300 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	4,220.50	1,210.96
26 11 16 11-0045 EA 500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	4,220.50	1,210.96
26 11 16 11-0046 EA 750 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	4,220.50	1,210.96
26 11 16 11-0047 EA 1,000 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	4,220.50	1,210.96
26 11 16 11-0048 EA 1,500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	4,940.33	1,396.25
26 11 16 11-0049 Dry Type Substation Transformer <small>(26 11 16 11)</small>		
Note: Standard NEMA design 3 phase - 150 C rise - 60 Hz self-cooled, ventilated.		
26 11 16 11-0050 Primary 4.16 Or 4.8 KV Secondary 208 Y/120 Or 240 Volt <small>(26 11 16 11-0049)</small>		
Note: Primary 4.160 or 4.8 KV (delta or wye).		
26 11 16 11-0051 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer..... <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	22,776.77 12,597.59 -524.90 4,797.19	890.40
26 11 16 11-0052 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer..... <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	22,888.07 12,597.59 -524.90 4,808.32	946.05
26 11 16 11-0053 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer..... <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	23,495.45 12,761.68 -531.74 4,901.88	1,112.99
26 11 16 11-0054 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer..... <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	25,929.62 14,088.62 -587.03 5,410.69	1,224.30
26 11 16 11-0055 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer..... <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	28,846.97 15,571.91 -648.83 5,999.08	1,446.89
26 11 16 11-0056 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer..... <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	33,415.98 18,046.20 -751.93 6,950.84	1,669.49
26 11 16 11-0057 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer..... <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	38,847.18 20,904.24 -871.01 8,065.57	2,003.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0058 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	45,808.66 24,814.01 -1,033.92 9,543.67	2,225.99
26 11 16 11-0059 EA 2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	58,941.09 32,559.91 -1,356.66 12,406.09	2,337.29
26 11 16 11-0060 Primary 4.16 Or 4.8 KV Secondary 480 Y/277 Or 480 Volt <small>(26 11 16 11-0049)</small> Note: Primary 4.16 or 4.8 KV (delta or wye).		
26 11 16 11-0061 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	22,031.68 12,150.53 -506.27 4,633.27	890.40
26 11 16 11-0062 EA 150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	22,888.07 12,597.59 -524.90 4,808.32	946.05
26 11 16 11-0063 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	23,495.45 12,761.68 -531.74 4,901.88	1,112.99
26 11 16 11-0064 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	25,929.62 14,088.62 -587.03 5,410.69	1,224.30
26 11 16 11-0065 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	28,846.97 15,571.91 -648.83 5,999.08	1,446.89
26 11 16 11-0066 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	33,415.98 18,046.20 -751.93 6,950.84	1,669.49
26 11 16 11-0067 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	38,847.18 20,904.24 -871.01 8,065.57	2,003.39
26 11 16 11-0068 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	45,808.66 24,814.01 -1,033.92 9,543.67	2,225.99
26 11 16 11-0069 EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	58,941.09 32,559.91 -1,356.66 12,406.09	2,337.29
26 11 16 11-0070 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	64,603.28 35,823.66 -1,492.65 13,625.06	2,448.58
26 11 16 11-0071 EA 3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	71,968.81 40,109.42 -1,671.23 15,218.76	2,559.89
26 11 16 11-0072 EA 3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	82,734.61 46,435.34 -1,934.81 17,560.53	2,671.18
26 11 16 11-0073 Primary 13.8 KV (Delta Or Wye) Secondary 208 Y/120 Or 240 Volt <small>(26 11 16 11-0049)</small>		
26 11 16 11-0074 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	24,541.22 13,522.70 -563.45 5,158.66	1,001.69
26 11 16 11-0075 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	25,393.30 13,967.17 -581.97 5,332.76	1,057.34
26 11 16 11-0076 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	27,245.37 14,878.07 -619.92 5,700.15	1,224.30
26 11 16 11-0077 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	28,803.09 15,679.15 -653.30 6,016.14	1,335.59
26 11 16 11-0078 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	32,874.68 17,854.98 -743.96 6,858.46	1,558.19

26 Electrical
26 10 Medium-Voltage Electrical Distribution
26 11 Substations



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0079	EA		750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	36,478.96	1,780.79
			<i>For Gas Filled Transformers, Add</i>	19,750.43	
			<i>For Single Phase Transformers, Deduct</i>	-822.93	
			<i>For Dry Type Unit, Add</i>	7,597.98	
26 11 16 11-0080	EA		1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	42,627.25	2,114.68
			<i>For Gas Filled Transformers, Add</i>	23,038.72	
			<i>For Single Phase Transformers, Deduct</i>	-959.95	
			<i>For Dry Type Unit, Add</i>	8,870.47	
26 11 16 11-0081	EA		1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	51,460.06	2,337.29
			<i>For Gas Filled Transformers, Add</i>	28,071.29	
			<i>For Single Phase Transformers, Deduct</i>	-1,169.64	
			<i>For Dry Type Unit, Add</i>	10,760.26	
26 11 16 11-0082	EA		2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	61,872.72	2,448.58
			<i>For Gas Filled Transformers, Add</i>	34,185.32	
			<i>For Single Phase Transformers, Deduct</i>	-1,424.39	
			<i>For Dry Type Unit, Add</i>	13,024.34	
26 11 16 11-0083			Primary 13.8 KV (Delta Or Wye) Secondary 480 Y/277 Or 480 Volt <small>(26 11 16 11-0049)</small>		
26 11 16 11-0084	EA		112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	24,541.22	1,001.69
			<i>For Gas Filled Transformers, Add</i>	13,522.70	
			<i>For Single Phase Transformers, Deduct</i>	-563.45	
			<i>For Dry Type Unit, Add</i>	5,158.66	
26 11 16 11-0085	EA		150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	25,393.30	1,057.34
			<i>For Gas Filled Transformers, Add</i>	13,967.17	
			<i>For Single Phase Transformers, Deduct</i>	-581.97	
			<i>For Dry Type Unit, Add</i>	5,332.76	
26 11 16 11-0086	EA		225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	27,245.37	1,224.30
			<i>For Gas Filled Transformers, Add</i>	14,878.07	
			<i>For Single Phase Transformers, Deduct</i>	-619.92	
			<i>For Dry Type Unit, Add</i>	5,700.15	
26 11 16 11-0087	EA		300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	28,803.09	1,335.59
			<i>For Gas Filled Transformers, Add</i>	15,679.15	
			<i>For Single Phase Transformers, Deduct</i>	-653.30	
			<i>For Dry Type Unit, Add</i>	6,016.14	
26 11 16 11-0088	EA		500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	32,874.68	1,558.19
			<i>For Gas Filled Transformers, Add</i>	17,854.98	
			<i>For Single Phase Transformers, Deduct</i>	-743.96	
			<i>For Dry Type Unit, Add</i>	6,858.46	
26 11 16 11-0089	EA		750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	32,172.10	1,780.79
			<i>For Gas Filled Transformers, Add</i>	17,166.31	
			<i>For Single Phase Transformers, Deduct</i>	-715.26	
			<i>For Dry Type Unit, Add</i>	6,650.47	
26 11 16 11-0090	EA		1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	33,779.27	2,114.68
			<i>For Gas Filled Transformers, Add</i>	17,729.93	
			<i>For Single Phase Transformers, Deduct</i>	-738.75	
			<i>For Dry Type Unit, Add</i>	6,923.91	
26 11 16 11-0091	EA		1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	41,322.82	2,337.29
			<i>For Gas Filled Transformers, Add</i>	21,988.95	
			<i>For Single Phase Transformers, Deduct</i>	-916.21	
			<i>For Dry Type Unit, Add</i>	8,530.07	
26 11 16 11-0092	EA		2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	48,733.51	2,448.58
			<i>For Gas Filled Transformers, Add</i>	26,301.80	
			<i>For Single Phase Transformers, Deduct</i>	-1,095.91	
			<i>For Dry Type Unit, Add</i>	10,133.71	
26 11 16 11-0093	EA		2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	54,329.72	2,559.89
			<i>For Gas Filled Transformers, Add</i>	29,525.96	
			<i>For Single Phase Transformers, Deduct</i>	-1,230.25	
			<i>For Dry Type Unit, Add</i>	11,338.16	
26 11 16 11-0094	EA		3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	63,505.01	2,671.18
			<i>For Gas Filled Transformers, Add</i>	34,897.58	
			<i>For Single Phase Transformers, Deduct</i>	-1,454.07	
			<i>For Dry Type Unit, Add</i>	13,330.02	
26 11 16 11-0095	EA		3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	77,465.72	2,782.48
			<i>For Gas Filled Transformers, Add</i>	43,140.45	
			<i>For Single Phase Transformers, Deduct</i>	-1,797.52	
			<i>For Dry Type Unit, Add</i>	16,374.66	

26 12 Medium-Voltage Transformers (26 10)

26 12 13 Liquid-Filled, Medium-Voltage Transformers (26 12)

26 12 13 00-0001 Removal And Relocation Of Transformers (26 12 13)

26 12 13 00-0002	EA	Removal And Relocation Of Up To 37.5 KVA Oil Filled Transformer.....	1,191.32
26 12 13 00-0003	EA	Removal And Relocation Of >37.5 To 100 KVA Oil Filled Transformers	2,192.36

26 12 13 00-0004 Single Phase Oil Filled Distribution Transformers (26 12 13)

Note: Self-protected type, CSP, external secondary breaker handle, external tap changer.

26 12 13 00-0005 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 4-2.5 Percent Taps FCBN, Class A, 95 KV BIL. Rated To 5 KVA (26 12 13 00-0004)

26 12 13 00-0006	EA	10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	1,902.11	471.80
26 12 13 00-0007	EA	15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	2,317.87	589.75



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 13 00-0008 EA 25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	2,726.83	707.70
26 12 13 00-0009 EA 37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	3,484.79	884.62
26 12 13 00-0010 EA 50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	4,152.68	1,061.54
26 12 13 00-0011 EA 75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	5,407.21	1,238.47
26 12 13 00-0012 EA 100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	6,419.33	1,474.37
26 12 13 00-0013 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 2-2.5 Percent Taps FCAN And FCBN. Rated To 5 KVA <small>(26 12 13 00-0004)</small>		
26 12 13 00-0014 EA 10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,902.11	471.80
26 12 13 00-0015 EA 15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,344.19	589.75
26 12 13 00-0016 EA 25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,726.83	707.70
26 12 13 00-0017 EA 37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,484.79	884.62
26 12 13 00-0018 EA 50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,152.68	1,061.54
26 12 13 00-0019 EA 75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,136.66	1,238.47
26 12 13 00-0020 EA 100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	6,281.94	1,474.37
26 12 13 00-0021 Primary 13.8/14.4 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps FCBN And FCAN <small>(26 12 13 00-0004)</small>		
26 12 13 00-0022 EA 10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,871.40	471.80
26 12 13 00-0023 EA 15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,234.52	589.75
26 12 13 00-0024 EA 25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,644.40	707.70
26 12 13 00-0025 EA 37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,465.77	884.62
26 12 13 00-0026 EA 50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,072.36	1,061.54
26 12 13 00-0027 EA 75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,187.39	1,238.47
26 12 13 00-0028 EA 100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	6,294.63	1,474.37
26 12 13 00-0029 Primary 13.8/14.4 KV Ground Y Secondary 240/480 Volt, 2-2.5 Percent Taps FCBN And FCAN <small>(26 12 13 00-0004)</small>		
26 12 13 00-0030 EA 10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,013.97	471.80
26 12 13 00-0031 EA 15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,381.47	589.75
26 12 13 00-0032 EA 25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,029.40	707.70
26 12 13 00-0033 EA 37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,808.50	884.62
26 12 13 00-0034 EA 50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,456.56	1,061.54
26 12 13 00-0035 EA 75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,755.60	1,238.47
26 12 13 00-0036 EA 100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	7,211.91	1,474.37
26 12 13 00-0037 Transformer Platforms <small>(26 12 13 00-0004)</small>		
26 12 13 00-0038 EA Transformer Platforms, 75 - 167 KVA.....	4,855.77	796.75
26 12 13 00-0039 Primary 24.9 KV, Ground Y Secondary 240/480 Volt, 2-2.5 Percent Taps FCBN Auto FCAN <small>(26 12 13 00-0004)</small>		
26 12 13 00-0040 EA 10 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,143.98	471.80
26 12 13 00-0041 EA 15 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,499.52	589.75
26 12 13 00-0042 EA 25 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,030.53	707.70
26 12 13 00-0043 EA 37.5 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,807.11	884.62
26 12 13 00-0044 EA 50 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,574.02	1,120.52
26 12 13 00-0045 EA 75 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,759.07	1,238.47
26 12 13 00-0046 EA 100 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	7,211.91	1,474.37
26 12 13 00-0047 EA 167 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	9,513.12	1,887.19
26 12 13 00-0048 EA 250 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	12,365.88	2,535.91
26 12 13 00-0049 EA 333 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	14,451.74	2,948.73
26 12 13 00-0050 EA 500 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	17,475.85	3,184.63
26 12 13 00-0051 Primary 4.8 KV Ground Y Secondary 120/240V 4-2.5 Percent Taps FCBN, Class A, 95 KV BIL <small>(26 12 13 00-0004)</small>		
26 12 13 00-0052 EA 10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	1,902.11	577.72
26 12 13 00-0053 EA 15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	2,317.87	722.09
26 12 13 00-0054 EA 25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	2,726.35	865.63
26 12 13 00-0055 EA 37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	3,485.93	1,084.78
26 12 13 00-0056 EA 50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	4,151.58	1,299.45
26 12 13 00-0057 EA 75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	5,405.73	1,513.41
26 12 13 00-0058 EA 100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	6,419.33	1,805.33
26 12 13 00-0059 Primary 4.8 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps FCAN And FCBN <small>(26 12 13 00-0004)</small>		
26 12 13 00-0060 EA 10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,902.11	577.72
26 12 13 00-0061 EA 15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,344.19	722.09
26 12 13 00-0062 EA 25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,726.35	865.63
26 12 13 00-0063 EA 37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,485.93	1,084.78
26 12 13 00-0064 EA 50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,151.58	1,299.45
26 12 13 00-0065 EA 75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,135.18	1,513.41

26	Electrical
26 10	Medium-Voltage Electrical Distribution
26 12	Medium-Voltage Transformers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 13 00-0066 EA 100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	6,281.94	1,805.33
26 12 13 00-0067 Primary 7.2 To 14.4 KV Ground Y <small>(26 12 13 00-0004)</small>		
26 12 13 00-0068 Primary 7.2 To 14.4 KV Ground Y Secondary 120 / 240 V 2-2.5 Percent Taps FCBN And FCAN <small>(26 12 13 00-0067)</small>		
26 12 13 00-0069 EA 10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,671.40	471.80
26 12 13 00-0070 EA 15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,034.92	589.75
26 12 13 00-0071 EA 25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,390.84	707.70
26 12 13 00-0072 EA 37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,067.87	884.62
26 12 13 00-0073 EA 50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,767.53	1,061.54
26 12 13 00-0074 EA 75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,263.59	1,238.47
26 12 13 00-0075 EA 100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	6,139.13	1,474.37
26 12 13 00-0076 Primary 7.2 To 14.4 KV Ground Y Secondary 240 / 480 V 2-2.5 Pct Taps FCBN And FCAN <small>(26 12 13 00-0067)</small>		
26 12 13 00-0077 EA 10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,601.61	471.80
26 12 13 00-0078 EA 15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,947.18	589.75
26 12 13 00-0079 EA 25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,350.96	707.70
26 12 13 00-0080 EA 37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,988.11	884.62
26 12 13 00-0081 EA 50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,657.86	1,061.54
26 12 13 00-0082 EA 75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,864.79	1,238.47
26 12 13 00-0083 EA 100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,740.33	1,474.37
26 12 13 00-0084 3 Phase Oil Filled Distribution Transformers <small>(26 12 13)</small>		
26 12 13 00-0085 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt <small>(26 12 13 00-0084)</small> Note: 4-2.5 Percent taps FCBN, Class A, 95 KV BIL.		
26 12 13 00-0086 EA 112.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	6,816.60	1,651.29
26 12 13 00-0087 EA 150 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	8,060.20	1,769.24
26 12 13 00-0088 EA 225 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	10,528.26	2,241.04
26 12 13 00-0089 EA 300 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	13,593.95	2,830.78
26 12 13 00-0090 EA 500 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	18,461.62	3,184.63
26 12 13 00-0091 EA 750 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	27,199.34	4,246.18
26 12 16 Dry-Type, Medium-Voltage Transformers <small>(26 12)</small>		
26 12 16 00-0001 Removal and Relocation of Transformers <small>(26 12 16)</small>		
26 12 16 00-0002 EA Removal And Relocation Of Up To 37.5 KVA "Dry Type" Transformer	461.89	
26 12 16 00-0003 EA Removal And Relocation Of >37.5 To 112.5 KVA "Dry Type" Transformer	2,052.86	
26 12 19 Pad-Mounted, Liquid-Filled, Medium-Voltage Transformers <small>(26 12)</small>		
26 12 19 00-0001 Single Phase Pad Mounted Distribution Transformers <small>(26 12 19)</small> Note: Designed for residential and multi-family buildings. UL listed.		
26 12 19 00-0002 Mini Pak - Single Phase KVA 25 Thru 167 - 95 KV BIL.- Oil Filled <small>(26 12 19 00-0001)</small> Note: Self actuating pressure relief device, taps, 4-1/2 % below or 2-1/2 % above and below. Designed for loop feed grounded wye distribution system.		
26 12 19 00-0003 Primary, 4.16/4.8 KV Ground Y Or Delta <small>(26 12 19 00-0002)</small> Note: 2.4 To 24.94 KV ground Y / 14.4 KV secondary - 240/120 Volt, 480/240 Volt, 277 V. Rated to 5 KVA.		
26 12 19 00-0004 EA 25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	3,595.41	556.50
26 12 19 00-0005 EA 37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	4,006.09	667.80
26 12 19 00-0006 EA 50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	4,749.87	779.09
26 12 19 00-0007 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	5,681.70	834.75
26 12 19 00-0008 EA 100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	6,363.71	890.40
26 12 19 00-0009 EA 167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	8,333.00	1,168.65
26 12 19 00-0010 Factory Modifications Material Cost Only <small>(26 12 19 00-0002)</small>		
26 12 19 00-0011 EA Loadbreaker Current Limiting Fuse Factory Modifications	594.40	
26 12 19 00-0012 EA Loadbreaker Oil Switch, 2 Position Factory Modifications	624.55	
26 12 19 00-0013 EA Loadbreaker Inserts, Factory Modifications	687.01	
26 12 19 00-0014 Distribution - Single Phase Multiple Building Transformer <small>(26 12 19 00-0001)</small> Note: KVA 25 to 250, KVA BIL-95, 125, 150 standard features. Oil filled, self-actuating pressure relief device, lighting arrester mounted. Pad HV/LV barrier, etc. with taps 4-1/2 % below or 2-1/2 % above and below.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0015 Primary, 4.16/4.8 KVA Ground Y Or Delta <small>(26 12 19 00-0014)</small>		
<small>Note: 2.4 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.</small>		
26 12 19 00-0016 EA 25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	4,232.67	556.50
26 12 19 00-0017 EA 37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	4,846.95	556.50
26 12 19 00-0018 EA 50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	5,293.32	762.40
26 12 19 00-0019 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	6,472.07	762.40
26 12 19 00-0020 EA 100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	7,242.23	1,001.69
26 12 19 00-0021 EA 167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	8,757.09	1,001.69
26 12 19 00-0022 EA 250 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	13,532.02	1,391.24
26 12 19 00-0023 Factory Modifications Material Cost Only <small>(26 12 19 00-0014)</small>		
26 12 19 00-0024 EA Loadbreaker Current Limiting Fuse Factory Modifications.....	792.54	
26 12 19 00-0025 EA Lightning Arrestors, Factory Modifications.....	200.81	
26 12 19 00-0026 EA Loadbreaker Oil Switch, 2 Position Factory Modifications.....	624.55	
26 12 19 00-0027 EA Loop Feed Air Switch, Factory Modifications.....	1,016.51	
26 12 19 00-0028 EA Loadbreaker Inserts (Two), Factory Modifications.....	271.36	
26 12 19 00-0029 EA Bay-O-Net Fuse 25 Thru 167 KVA Factory Modifications.....	234.75	
26 12 19 00-0030 Primary, 12.47 KV Ground Y Or Delta <small>(26 12 19 00-0014)</small>		
<small>Note: 7.2 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.</small>		
26 12 19 00-0031 EA 25 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	4,524.77	556.50
26 12 19 00-0032 EA 37.5 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	4,944.23	556.50
26 12 19 00-0033 EA 50 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	5,255.11	762.40
26 12 19 00-0034 EA 75 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	6,238.51	762.40
26 12 19 00-0035 EA 100 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	7,726.75	1,001.69
26 12 19 00-0036 EA 167 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	9,611.37	1,001.80
26 12 19 00-0037 EA 250 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	12,168.76	1,391.24
26 12 19 00-0038 Oil Filled Distribution Transformer Single Phase Cluster Mounted <small>(26 12 19 00-0001)</small>		
<small>Note: Conventional type.</small>		
26 12 19 00-0039 13.8/14.4 KV Ground Y Or Delta Primary 120/240V <small>(26 12 19 00-0038)</small>		
<small>Note: 2.5 Taps FCBN and FCAN.</small>		
26 12 19 00-0040 EA 10 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,126.27	404.09
26 12 19 00-0041 EA 37.5 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,965.97	568.26
26 12 19 00-0042 EA 50 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	5,994.40	909.21
26 12 19 00-0043 EA 100 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	10,213.44	909.21
26 12 19 00-0044 EA 167 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	13,918.55	1,490.10
26 12 19 00-0045 EA 250 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	18,250.36	1,490.10
26 12 19 00-0046 Oil Filled Distribution Transformer Single Phase <small>(26 12 19 00-0001)</small>		
26 12 19 00-0047 7.2 KV Primary, 120/240 Volt Secondary <small>(26 12 19 00-0046)</small>		
26 12 19 00-0048 EA 10 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,048.50	429.35
26 12 19 00-0049 EA 15 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,336.40	429.35
26 12 19 00-0050 EA 25 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,896.50	606.15
26 12 19 00-0051 EA 37.5 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	5,090.20	606.15
26 12 19 00-0052 EA 50 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	5,871.27	820.83
26 12 19 00-0053 EA 100 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	10,014.82	1,262.80
26 12 19 00-0054 EA 167 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	13,763.01	1,262.80
26 12 19 00-0055 EA 250 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	18,010.27	1,578.50
26 12 19 00-0056 7.2 KV Primary, 240/480 Volt Secondary <small>(26 12 19 00-0046)</small>		
26 12 19 00-0057 EA 10 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,048.50	429.35
26 12 19 00-0058 EA 15 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,336.48	429.35
26 12 19 00-0059 EA 25 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,896.50	606.15
26 12 19 00-0060 EA 37.5 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	5,090.20	606.15
26 12 19 00-0061 EA 50 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	5,871.27	820.83
26 12 19 00-0062 EA 75 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	8,855.45	1,111.27
26 12 19 00-0063 EA 100 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	10,014.82	1,111.27
26 12 19 00-0064 EA 167 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	13,763.01	1,401.70

26 Electrical
26 10 Medium-Voltage Electrical Distribution
26 12 Medium-Voltage Transformers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0065	EA		250 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	18,010.27	1,578.50
26 12 19 00-0066			2.4 KV Primary, 277 Volt Secondary <small>(26 12 19 00-0046)</small>		
26 12 19 00-0067	EA		10 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,292.55	429.35
26 12 19 00-0068	EA		15 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,602.37	429.35
26 12 19 00-0069	EA		25 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	4,211.83	606.15
26 12 19 00-0070	EA		37.5 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	5,493.03	606.15
26 12 19 00-0071	EA		50 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	6,332.61	820.83
26 12 19 00-0072	EA		75 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	9,408.31	1,111.27
26 12 19 00-0073	EA		100 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	10,867.68	1,111.27
26 12 19 00-0074	EA		167 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	14,960.07	1,401.70
26 12 19 00-0075	EA		250 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	19,633.03	1,578.50
26 12 19 00-0076			2.4 KV Primary, 120/240 Volt Secondary <small>(26 12 19 00-0046)</small>		
26 12 19 00-0077	EA		10 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,048.50	429.35
26 12 19 00-0078	EA		15 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,336.40	429.35
26 12 19 00-0079	EA		25 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,896.50	824.74
26 12 19 00-0080	EA		37.5 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	5,090.20	1,111.27
26 12 19 00-0081	EA		50 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	5,871.27	820.83
26 12 19 00-0082	EA		75 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	8,680.34	1,111.27
26 12 19 00-0083	EA		100 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	10,013.23	1,111.27
26 12 19 00-0084			2.4 KV Primary, 240/480 Volt Secondary <small>(26 12 19 00-0046)</small>		
26 12 19 00-0085	EA		10 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,048.50	429.35
26 12 19 00-0086	EA		15 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,336.40	429.35
26 12 19 00-0087	EA		25 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,896.50	606.15
26 12 19 00-0088	EA		37.5 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	5,090.20	606.15
26 12 19 00-0089	EA		50 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	5,871.27	820.83
26 12 19 00-0090	EA		75 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	8,680.34	1,111.27
26 12 19 00-0091	EA		100 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	10,013.23	1,111.27
26 12 19 00-0092			2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary <small>(26 12 19 00-0046)</small>		
26 12 19 00-0093	EA		10 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	2,669.02	441.98
26 12 19 00-0094	EA		15 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	2,907.68	492.49
26 12 19 00-0095	EA		25 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,482.93	543.00
26 12 19 00-0096	EA		37 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	4,505.93	757.68
26 12 19 00-0097	EA		50 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	5,062.84	883.96
26 12 19 00-0098	EA		75 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	6,788.75	1,035.50
26 12 19 00-0099	EA		100 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	8,094.90	1,187.03
26 12 19 00-0100	EA		167 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	12,278.20	1,515.36
26 12 19 00-0101	EA		250 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	16,511.10	1,704.78
26 13 Medium-Voltage Switchgear <small>(26 10)</small>					
26 13 16 Medium-Voltage Fusible Interrupter Switchgear <small>(26 13)</small>					
26 13 16 00-0001			"Switchyard", Substation Secondary Distribution Section <small>(26 13 16)</small>		
			Note: Medium voltage, metal clad switchgear, 3 phase, 3 wire with ground. Includes breaker element, housing, control switch two lamps - 3 cable terminals.		
26 13 16 00-0002			4.16 Or 4.8 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section <small>(26 13 16 00-0001)</small>		
26 13 16 00-0003	EA		1,200 Amperes, 75 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	13,099.62	1,313.32
			<i>For Weatherproofing, Add</i>	2,697.76	
26 13 16 00-0004	EA		1,200 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	13,739.46	1,313.32
			<i>For Weatherproofing, Add</i>	2,838.52	
26 13 16 00-0005	EA		1,200 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	18,685.39	1,673.21
			<i>For Weatherproofing, Add</i>	3,889.24	
26 13 16 00-0006	EA		2,000 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	25,405.95	1,673.21
			<i>For Weatherproofing, Add</i>	5,339.60	
26 13 16 00-0007	EA		2,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	36,334.56	2,020.48
			<i>For Weatherproofing, Add</i>	7,710.28	
26 13 16 00-0008	EA		3,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	33,201.05	2,020.48
			<i>For Weatherproofing, Add</i>	7,006.60	
26 13 16 00-0009			7.2 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section <small>(26 13 16 00-0001)</small>		
26 13 16 00-0010	EA		1,200 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	19,470.19	1,515.36
			<i>For Weatherproofing, Add</i>	4,080.23	
26 13 16 00-0011	EA		2,000 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	23,926.16	1,894.21
			<i>For Weatherproofing, Add</i>	4,998.30	
26 13 16 00-0012	EA		3,000 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	33,573.43	2,273.04
			<i>For Weatherproofing, Add</i>	7,075.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 16 00-0013 13.8 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)		
26 13 16 00-0014 EA 1,200 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section 18,802.98	18,802.98	1,515.36
For Weatherproofing, Add	3,916.76	
26 13 16 00-0015 EA 1,200 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section 25,836.03	25,836.03	1,515.36
For Weatherproofing, Add	5,427.71	
26 13 16 00-0016 EA 1,200 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section 37,658.49	37,658.49	2,020.48
For Weatherproofing, Add	7,987.24	
26 13 16 00-0017 EA 2,000 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section 23,658.79	23,658.79	2,020.48
For Weatherproofing, Add	4,924.31	
26 13 16 00-0018 EA 2,000 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section 34,257.60	34,257.60	2,525.60
For Weatherproofing, Add	7,219.84	
26 13 16 00-0019 EA 2,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section 47,844.14	47,844.14	2,525.60
For Weatherproofing, Add	10,170.71	
26 13 16 00-0020 EA 3,000 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section 33,007.25	33,007.25	2,525.60
For Weatherproofing, Add	6,934.20	
26 13 16 00-0021 EA 3,000 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section 45,671.36	45,671.36	2,525.60
For Weatherproofing, Add	9,683.93	
26 13 16 00-0022 EA 3,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section 59,119.70	59,119.70	2,525.60
For Weatherproofing, Add	12,608.15	
26 13 16 00-0023 4.16 Or 4.8 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)		
26 13 16 00-0024 EA 1,200 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section 5,916.94	5,916.94	827.13
For Weatherproofing, Add	1,185.72	
26 13 16 00-0025 EA 1,200 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section 7,651.55	7,651.55	827.13
For Weatherproofing, Add	1,567.34	
26 13 16 00-0026 EA 2,000 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section 8,330.09	8,330.09	1,098.64
For Weatherproofing, Add	1,679.15	
26 13 16 00-0027 EA 2,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section 10,322.36	10,322.36	1,357.51
For Weatherproofing, Add	2,080.82	
26 13 16 00-0028 EA 3,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section 13,833.06	13,833.06	1,357.51
For Weatherproofing, Add	2,853.17	
26 13 16 00-0029 7.2 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)		
26 13 16 00-0030 EA 1,200 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section 7,469.19	7,469.19	1,262.80
For Weatherproofing, Add	1,511.09	
26 13 16 00-0031 EA 2,000 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section 9,768.85	9,768.85	1,262.80
For Weatherproofing, Add	1,979.81	
26 13 16 00-0032 EA 3,000 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section 14,842.71	14,842.71	1,262.80
For Weatherproofing, Add	3,059.34	
26 13 16 00-0033 13.8 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)		
26 13 16 00-0034 EA 1,200 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section 7,718.32	7,718.32	1,073.38
For Weatherproofing, Add	1,548.46	
26 13 16 00-0035 EA 1,200 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section 8,220.34	8,220.34	1,073.38
For Weatherproofing, Add	1,658.90	
26 13 16 00-0036 EA 1,200 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section 11,746.26	11,746.26	1,325.95
For Weatherproofing, Add	2,397.69	
26 13 16 00-0037 EA 2,000 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section 10,538.58	10,538.58	1,591.13
For Weatherproofing, Add	2,095.27	
26 13 16 00-0038 EA 2,000 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section 12,904.29	12,904.29	1,591.13
For Weatherproofing, Add	2,615.72	
26 13 16 00-0039 EA 2,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section 14,842.43	14,842.43	1,856.32
For Weatherproofing, Add	3,004.58	
26 13 16 00-0040 EA 3,000 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section 13,967.25	13,967.25	2,121.50
For Weatherproofing, Add	2,775.17	
26 13 16 00-0041 EA 3,000 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section 15,588.30	15,588.30	2,121.50
For Weatherproofing, Add	3,131.80	
26 13 16 00-0042 EA 3,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section 19,167.53	19,167.53	2,374.07
For Weatherproofing, Add	3,882.02	
26 13 16 00-0043 Accessories For Substation Secondary Distribution Sections (26 13 16 00-0001)		
26 13 16 00-0044 EA 1,200 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section 3,803.16	3,803.16	800.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	480.15	
26 13 16 00-0045 EA 2,000 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section 4,735.05	4,735.05	888.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	532.83	
26 13 16 00-0046 EA 3,000 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section 6,164.97	6,164.97	1,068.33
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	641.02	
26 13 16 00-0047 EA 3-Phase Pothead Termination Accessories, Secondary Distribution Section 4,059.07	4,059.07	1,606.66

26 Electrical
26 10 Medium-Voltage Electrical Distribution
26 13 Medium-Voltage Switchgear



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 16 00-0048	EA		5 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	4,572.01	99.00
26 13 16 00-0049	EA		5 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	6,104.26	99.00
26 13 16 00-0050	EA		5 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	11,171.96	99.00
26 13 16 00-0051	EA		15 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	8,781.51	99.00
26 13 16 00-0052	EA		15 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	9,585.85	99.00
26 13 16 00-0053	EA		15 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	13,045.60	99.00
26 13 16 00-0054	EA		6 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section.....	2,075.29	99.00
26 13 16 00-0055	EA		9 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section.....	2,344.61	99.00
26 13 16 00-0056	EA		15 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section.....	3,557.31	99.00
26 13 16 00-0057	EA		Overcurrent Phase Protection, Time And Instantaneous Device 67.....	2,279.83	99.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	
26 13 16 00-0058	EA		AC Ammeter With Switch.....	896.80	99.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	
26 13 16 00-0059	EA		AC Voltmeter With Switch And Potential Transformer.....	896.80	99.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	
26 13 16 00-0060	EA		Indicating Wattmeter.....	1,321.90	99.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	
26 13 16 00-0061	EA		Indicating Varmeter.....	1,557.74	99.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	
26 13 16 00-0062	EA		Indicating Watt-hour Meter, 2 Element.....	981.24	99.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	
26 13 16 00-0063	EA		Ground Protection, Time Or Instantaneous Device 67N.....	2,390.95	99.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	
26 13 16 00-0064	EA		Differential Generator Protection Single Phase NEMA Device 87.....	4,323.07	99.00
26 13 16 00-0065	EA		Current Transformers 5 And 15 KV Single Secondary.....	610.73	99.00
26 13 16 00-0066	EA		Potential Transformers 5 KV And 15 KV With Primary Fuses.....	2,887.63	99.00
26 13 19 Medium-Voltage Vacuum Interrupter Switchgear (26 13)					
26 13 19 00-0001			Vacuum Circuit Breakers 13.8 KV (26 13 19)		
26 13 19 00-0002	EA		1,200 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	46,807.96	1,578.50
26 13 19 00-0003	EA		1,200 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	51,708.91	1,995.22
26 13 19 00-0004	EA		1,200 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	58,715.62	1,995.22
26 13 19 00-0005	EA		2,000 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	53,608.73	1,578.50
26 13 19 00-0006	EA		2,000 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	60,269.21	1,578.50
26 13 19 00-0007	EA		2,000 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	68,701.45	1,856.32
26 13 19 00-0008	EA		3,000 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	70,924.95	2,121.50
26 13 19 00-0009	EA		3,000 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	77,619.25	2,121.50
26 13 19 00-0010	EA		3,000 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	84,823.98	2,386.70
26 13 29 Medium-Voltage Compartmentalized Switchgear (26 13)					
26 13 29 00-0001			Substation Secondary Distribution Section (26 13 29)		
			Note: Low voltage drawout switchgear 277/480 volt, 3 phase 4 wire.		
26 13 29 00-0002			Switchgear Compartment Complete With Air Circuit Breaker (26 13 29 00-0001)		
			Note: With solid state long - time and instantaneous trips.		
26 13 29 00-0003	EA		800 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-206.....	14,891.35	975.03
26 13 29 00-0004	EA		1,600 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-416.....	23,548.00	1,474.15
26 13 29 00-0005	EA		2,000 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-420.....	31,884.80	1,810.77
26 13 29 00-0006	EA		3,200 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-632.....	52,911.31	2,100.96
26 13 29 00-0007	EA		4,000 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-840.....	67,993.23	2,391.15
26 13 29 00-0008			Switchgear Compartment Without Circuit Breaker (26 13 29 00-0001)		
26 13 29 00-0009	EA		800 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	6,592.94	296.00
26 13 29 00-0010	EA		1,600 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	7,618.19	296.00
26 13 29 00-0011	EA		2,000 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	9,966.73	435.28
26 13 29 00-0012	EA		3,200 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	14,237.69	435.28
26 13 29 00-0013	EA		4,000 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	23,764.40	638.42
26 13 29 00-0014			Switchgear Compartment, Blank, Use As Filler Or Metering (26 13 29 00-0001)		
			Note: No provisions for future breaker.		
26 13 29 00-0015	EA		600 To 2,000 Amperes, Blank Section Filler, Secondary Distribution Section.....	3,070.37	330.81
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	189.16	
26 13 29 00-0016	EA		3,000 Amperes, Blank Section Filler, Secondary Distribution Section.....	3,828.21	330.81
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	222.06	
26 13 29 00-0017	EA		4,000 Amperes, Blank Section Filler, Secondary Distribution Section.....	5,024.18	510.74
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	319.21	
26 13 29 00-0018			Accessories For Substation Secondary Distribution (26 13 29 00-0001)		
26 13 29 00-0019	EA		Short Time Delay Accessories, Secondary Distribution Section.....	1,623.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	
26 13 29 00-0020	EA		Key Interlock Accessories, Secondary Distribution Section.....	1,281.21	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	
26 13 29 00-0021	EA		Ammeter And Switch Complete Accessories, Secondary Distribution Section.....	3,884.75	99.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	
26 13 29 00-0022	EA		Voltmeter And Switch Complete Accessories, Secondary Distribution Section.....	3,884.75	99.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 29 00-0023 EA Wattmeter - Complete Accessories, Secondary Distribution Section.....	5,112.23	99.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	
26 13 29 00-0024 EA Watt-hour Meter - Complete Accessories, Secondary Distribution Section	6,598.12	99.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	
26 13 29 00-0025 EA Circuit Breaker Lifting Device Accessories, Secondary Distribution Section	2,915.46	112.93
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.73	
26 13 29 00-0026 EA Weatherproofing, Per Vertical Section Accessories, Secondary Distribution Section.....	9,964.65	1,672.42
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,003.46	
26 13 29 00-0027 EA Current Transformer, Single Section 5 To 800 Single Secondary 5 To 800	1,804.50	99.00
26 13 29 00-0028 EA Potential Transformers Each With Fuses Accessories, Secondary Distribution Section	2,105.27	99.00
26 13 29 00-0029 EA Shunt Trip And Auxiliary Switch Accessories, Secondary Distribution Section.....	1,121.90	49.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.70	
26 13 29 00-0030 EA 3 Current Limiting Fuses 15 KV Accessories, Secondary Distribution Section.....	8,267.06	99.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	
26 13 29 00-0031 EA 3 Phase Surge Capacitors 15 KV Accessories, Secondary Distribution Section	1,070.22	49.50

26 18 Medium-Voltage Circuit Protection Devices (26 10)

26 18 36 Medium-Voltage Enclosed Fuses (26 18)

26 18 36 00-0001 Sectionalizing Switch (26 18 36)		
26 18 36 00-0002 Pad Mounted Metal Enclosed Oil Filled Switching Units (26 18 36 00-0001)		
Note: 15 KV - 25 KV.		
26 18 36 00-0003 Sectionalizing Tapping And Fusing Underground Feeders (26 18 36 00-0002)		
Note: 200 Amp replaceable bushing wells recessed locking assembly oil level and oil fill plugs.		
26 18 36 00-0004 EA 3 Phase, 1 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....	25,770.10	834.75
26 18 36 00-0005 EA 3 Phase, 2 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....	28,937.21	834.75

26 20 Low-Voltage Electrical Distribution (26)

26 21 Low-Voltage Electrical Service Entrance (26 20)

See CSI section 26 05 13 00-0000 for wire and cables.

26 21 13 Low-Voltage Overhead Electrical Service Entrance (26 21)

26 21 13 00-0001 Service Drop Cable And Weatherheads (26 21 13)		
26 21 13 00-0002 600 Volt Insulated Stranded Conductors (26 21 13 00-0001)		
26 21 13 00-0003 Aluminum Duplex ACSR Neutral (26 21 13 00-0002)		
26 21 13 00-0004 LF #6 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	7.69	3.01
26 21 13 00-0005 LF #4 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	9.18	3.55
26 21 13 00-0006 LF #2 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	10.52	4.01
26 21 13 00-0007 LF 1/0 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	13.54	5.05
26 21 13 00-0008 Aluminum Triplex ACSR Neutral (26 21 13 00-0002)		
26 21 13 00-0009 LF #6 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	9.23	3.55
26 21 13 00-0010 LF #4 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	10.47	4.01
26 21 13 00-0011 LF #2 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	13.22	5.05
26 21 13 00-0012 LF 1/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	16.29	6.16
26 21 13 00-0013 LF 2/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	21.44	8.15
26 21 13 00-0014 LF 4/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	26.87	10.10
26 21 13 00-0015 LF 336 MCM, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	33.51	12.03
26 21 13 00-0016 Aluminum Quadruplex ACSR Neutral (26 21 13 00-0002)		
26 21 13 00-0017 LF #6 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	10.48	4.01
26 21 13 00-0018 LF #4 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	13.22	5.05
26 21 13 00-0019 LF #2 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	16.99	6.47
26 21 13 00-0020 LF 1/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	21.69	8.15
26 21 13 00-0021 LF 2/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	24.07	9.02
26 21 13 00-0022 LF 3/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	27.30	10.10
26 21 13 00-0023 LF 4/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	32.34	12.03
26 21 13 00-0024 LF 336 MCM, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	37.58	13.29
26 21 13 00-0025 Weatherproof Conduit Hubs (26 21 13 00-0002)		
26 21 13 00-0026 EA 1/2" Weatherproof Conduit Hubs	50.67	19.08
26 21 13 00-0027 EA 3/4" Weatherproof Conduit Hubs	57.83	21.67
26 21 13 00-0028 EA 1" Weatherproof Conduit Hubs	67.54	24.28
26 21 13 00-0029 EA 1-1/4" Weatherproof Conduit Hubs	94.76	32.51
26 21 13 00-0030 EA 1-1/2" Weatherproof Conduit Hubs	104.47	35.12
26 21 13 00-0031 EA 2" Weatherproof Conduit Hubs	136.87	40.75
26 21 13 00-0032 EA 2-1/2" Weatherproof Conduit Hubs	182.84	45.95
26 21 13 00-0033 EA 3" Weatherproof Conduit Hubs	238.24	54.18
26 21 13 00-0034 EA 4" Weatherproof Conduit Hubs	416.90	108.38



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 21 13 00-0035 Service Entrance Cap, Threaded Weatherhead, Galvanized (26 21 13 00-0002)

26 21 13 00-0036	EA		1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #14 Through #10 AWG Cable Service.....	55.48	19.08
26 21 13 00-0037	EA		3/4" Galvanized Threaded Service Entrance Weatherhead Cap For #12 Through #8 AWG Cable Service.....	63.57	21.67
26 21 13 00-0038	EA		1" Galvanized Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service.....	72.69	24.28
26 21 13 00-0039	EA		1-1/4" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service.....	97.65	32.51
26 21 13 00-0040	EA		1-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service.....	110.09	35.12
26 21 13 00-0041	EA		2" Galvanized Threaded Service Entrance Weatherhead Cap For 1/0 Through 2/0 AWG Cable Service.....	143.52	40.75
26 21 13 00-0042	EA		2-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For 3/0 Through 4/0 Cable Service.....	236.76	45.95
26 21 13 00-0043	EA		3" Galvanized Threaded Service Entrance Weatherhead Cap For 250 Through 350 MCM Cable Service.....	269.91	54.18
26 21 13 00-0044	EA		4" Galvanized Threaded Service Entrance Weatherhead Cap For 600 Through 750 MCM Cable Service.....	447.80	108.38

26 21 13 00-0045 Service Entrance Cap, Clamp-On Weatherhead, Aluminum (26 21 13 00-0002)

26 21 13 00-0046	EA		1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service.....	53.78	19.08
26 21 13 00-0047	EA		3/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service.....	60.71	21.67
26 21 13 00-0048	EA		1" Aluminum Clamp-On Service Entrance Weatherhead Cap For #6 AWG Cable Service.....	68.82	24.17
26 21 13 00-0049	EA		1-1/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service.....	91.53	32.51
26 21 13 00-0050	EA		1-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service.....	101.83	35.12
26 21 13 00-0051	EA		2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service.....	119.92	40.75
26 21 13 00-0052	EA		2-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service.....	192.49	45.95
26 21 13 00-0053	EA		3" Aluminum Clamp-On Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service.....	247.65	54.18
26 21 13 00-0054	EA		3-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service.....	349.69	81.28
26 21 13 00-0055	EA		4" Aluminum Clamp-On Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service.....	421.30	108.38

26 21 13 00-0056 Service Entrance Cap, Threaded Weatherhead, Polyvinyl Chloride (PVC) (26 21 13 00-0002)

26 21 13 00-0057	EA		1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service.....	52.71	19.08
26 21 13 00-0058	EA		3/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service.....	60.33	21.67
26 21 13 00-0059	EA		1" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service.....	68.61	24.17
26 21 13 00-0060	EA		1-1/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service.....	91.36	32.51
26 21 13 00-0061	EA		1-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service.....	99.58	35.12
26 21 13 00-0062	EA		2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service.....	122.71	40.75
26 21 13 00-0063	EA		2-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service.....	210.83	45.95
26 21 13 00-0064	EA		3" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service.....	235.57	54.18
26 21 13 00-0065	EA		3-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service.....	407.83	81.28
26 21 13 00-0066	EA		4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service.....	565.93	108.38

26 21 16 Low-Voltage Underground Electrical Service Entrance (26 21)

26 21 16 00-0001 Aluminum Triplex For Underground Service, Direct Burial (26 21 16)
 Note: Excludes excavation and backfill.

26 21 16 00-0002	MLF		#6 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	3,194.59	1,122.51
26 21 16 00-0003	MLF		#4 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	3,487.48	1,188.55
26 21 16 00-0004	MLF		#2 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	3,872.80	1,262.80
26 21 16 00-0005	MLF		1/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	4,179.53	1,262.80
26 21 16 00-0006	MLF		2/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	4,549.35	1,347.03
26 21 16 00-0007	MLF		3/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	5,323.99	1,554.26
26 21 16 00-0008	MLF		4/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	6,728.59	2,020.48

26 22 Low-Voltage Transformers (26 20)

26 22 13 Low-Voltage Distribution Transformers (26 22)

26 22 13 00-0001 Single Phase General Purpose "Dry Type" Transformers (26 22 13)
 Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor Use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.

26 22 13 00-0002 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001)
 Note: 2-2.5 Percent taps above and 4-2.5 percent taps below.

26 22 13 00-0003	EA		1 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	771.22	278.88
26 22 13 00-0004	EA		3 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	994.27	334.66
26 22 13 00-0005	EA		5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,161.93	349.16
26 22 13 00-0006	EA		7.5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,330.92	362.55
26 22 13 00-0007	EA		10 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,730.48	390.43
26 22 13 00-0008	EA		15 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	2,002.38	418.32
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	58.29	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	87.43	
26 22 13 00-0009	EA		25 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	2,179.10	446.20
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	64.33	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	96.50	
26 22 13 00-0010	EA		37.5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	2,203.42	501.98
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	59.97	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	89.96	
26 22 13 00-0011	EA		50 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	2,575.03	557.76
			<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	72.98	
			<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	109.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0012 EA 75 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	3,317.00 98.92 148.38	669.31
26 22 13 00-0013 EA 100 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	4,120.47 127.94 191.91	780.86
26 22 13 00-0014 EA 167 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	6,252.08 212.21 318.31	1,003.97
26 22 13 00-0015 EA 250 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	10,505.71 402.58 603.87	1,227.07
26 22 13 00-0016 EA 333 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	15,778.81 649.50 974.25	1,394.40
26 22 13 00-0017 240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001) Note: 1-10 Percent x 2-5 percent FCBN taps.		
26 22 13 00-0018 EA 3 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	894.93	334.66
26 22 13 00-0019 EA 5 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	1,002.75	348.60
26 22 13 00-0020 EA 7.5 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	1,152.98	362.55
26 22 13 00-0021 EA 10 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	1,312.04	390.43
26 22 13 00-0022 240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001) Note: 2-5 Percent x 4 - 2.5 percent FCBN taps.		
26 22 13 00-0023 EA 15 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	2,002.38	418.32
26 22 13 00-0024 EA 25 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	2,179.10	446.20
26 22 13 00-0025 1 Phase Mounting Brackets (26 22 13 00-0001)		
26 22 13 00-0026 EA 1 Phase Mounting Brackets (Set Of 2) For Transformers Up To 100 KVA.....	572.76	198.01
26 22 13 00-0027 1 Phase Weathershields (26 22 13 00-0001) Note: Use with types DT-3 and DS-3.		
26 22 13 00-0028 EA 37.5 KVA 1 Phase Weathershields, Set Of 2	41.99	
26 22 13 00-0029 EA 50 KVA 1 Phase Weathershields, Set Of 2	53.53	
26 22 13 00-0030 EA 75 KVA 1 Phase Weathershields, Set Of 2	63.83	
26 22 13 00-0031 EA 100 KVA 1 Phase Weathershields, Set Of 2	76.15	
26 22 13 00-0032 EA 167 KVA 1 Phase Weathershields, Set Of 2	103.02	
26 22 13 00-0033 EA 250 KVA 1 Phase Weathershields, Set Of 2	123.18	
26 22 13 00-0034 EA 333 KVA 1 Phase Weathershields, Set Of 2	151.18	
26 22 13 00-0035 Packaged Power Supply (26 22 13 00-0001) Note: 2-5 Percent FCBN taps.		
26 22 13 00-0036 EA 5 KVA, 480 Volt - 120/240 Volt, Transformer With 6 - 1 Pole / 3 - 2 Pole Max 20 Amperes Breakers.....	1,314.57	348.60
26 22 13 00-0037 EA 7.5 KVA, 480 Volt - 120/240 Volt, Transformer With 8 - 1 Pole / 4 - 2 Pole Max 30 Amperes Breakers.....	1,446.98	362.55
26 22 13 00-0038 EA 10 KVA, 480 Volt - 120/240 Volt, Transformer With 10 - 1 Pole / 5 - 2 Pole Max 40 Amperes Breakers.....	1,565.00	390.43
26 22 13 00-0039 EA 15 KVA, 480 Volt - 120/240 Volt, Transformer With 16 - 1 Pole / 8 - 2 Pole Max 60 Amperes Breakers.....	1,854.36	418.32
26 22 13 00-0040 EA 25 KVA, 480 Volt - 120/240 Volt, Transformer With 24 - 1 Pole / 12 - 2 Pole Max 100 Amperes Breakers.....	2,410.44	446.20
26 22 13 00-0041 240 Volt, 120/240 Volt, Single Phase Isolation Transformer Computer Grade (26 22 13 00-0001)		
26 22 13 00-0042 EA 0.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	966.71	251.00
26 22 13 00-0043 EA 1 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,280.05	278.88
26 22 13 00-0044 EA 2.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,503.58	334.66
26 22 13 00-0045 EA 5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,637.86	348.60
26 22 13 00-0046 EA 7.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,811.32	362.55
26 22 13 00-0047 EA 10 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	2,247.84	390.43
26 22 13 00-0048 EA 15 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	2,816.50	418.32
26 22 13 00-0049 1 Phase, 208/600 Volt, Dry General Purpose Transformer (26 22 13 00-0001)		
26 22 13 00-0050 EA 15 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	3,356.64	418.32
26 22 13 00-0051 EA 25 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	3,495.95	446.20
26 22 13 00-0052 EA 30 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	3,644.13	474.09
26 22 13 00-0053 EA 37.5 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	4,666.45	501.98
26 22 13 00-0054 EA 45 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	4,858.67	529.87
26 22 13 00-0055 EA 50 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	6,307.80	557.76
26 22 13 00-0056 3 Phase General Purpose "Dry Type" Transformer (26 22 13) Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.		

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 22 Low-Voltage Transformers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0057 Packaged Power Supply <small>(26 22 13 00-0056)</small> Note: 2-5 Percent FCBN taps.		
26 22 13 00-0058 EA 15 KVA, 480 Volt - 208/120 Volt, Transformer With 12 - 1 Pole / 4 - 3 Pole Max, 40 Amperes Breakers.....	5,357.57	1,199.18
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	147.96	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	221.94	
26 22 13 00-0059 EA 22.5 KVA, 480 Volt - 208/120 Volt, Transformer With 18 - 1 Pole / 6 - 3 Pole Max, 60 Amperes Breakers.....	6,232.78	1,282.84
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	183.35	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	275.03	
26 22 13 00-0060 EA 30 KVA, 480 Volt - 208/120 Volt, Transformer With 24 - 1 Pole / 8 - 3 Pole Max, 80 Amperes Breakers.....	7,288.25	1,394.40
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	224.97	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	337.46	
26 22 13 00-0061 Drive Isolation Transformers <small>(26 22 13 00-0056)</small> Note: Only use in step-up applications.		
26 22 13 00-0062 230 Volt Drive Isolation Transformers <small>(26 22 13 00-0061)</small>		
26 22 13 00-0063 EA 7.5 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	3,511.51	446.20
26 22 13 00-0064 EA 11 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,057.14	474.09
26 22 13 00-0065 EA 15 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,210.89	501.98
26 22 13 00-0066 EA 20 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,902.83	529.87
26 22 13 00-0067 EA 27 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	5,114.95	585.65
26 22 13 00-0068 EA 34 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	5,621.00	641.42
26 22 13 00-0069 EA 40 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	6,325.61	697.20
26 22 13 00-0070 EA 51 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	7,327.65	780.86
26 22 13 00-0071 EA 63 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	7,891.56	808.75
26 22 13 00-0072 EA 75 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	9,006.74	836.64
26 22 13 00-0073 EA 93 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	11,130.36	864.53
26 22 13 00-0074 EA 118 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	12,590.62	1,059.75
26 22 13 00-0075 EA 145 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	13,973.19	1,115.52
26 22 13 00-0076 EA 175 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	15,893.94	1,171.29
26 22 13 00-0077 EA 220 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	19,351.11	1,394.40
26 22 13 00-0078 EA 275 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	25,423.08	1,645.39
26 22 13 00-0079 EA 330 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	26,915.10	1,812.72
26 22 13 00-0080 EA 440 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	32,565.93	2,007.93
26 22 13 00-0081 EA 550 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	39,932.81	2,231.04
26 22 13 00-0082 208V Drive Isolation Transformers <small>(26 22 13 00-0061)</small>		
26 22 13 00-0083 EA 7.5 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	3,644.82	446.20
26 22 13 00-0084 EA 11 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,215.38	474.09
26 22 13 00-0085 EA 15 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,374.12	501.98
26 22 13 00-0086 EA 20 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	5,098.44	529.87
26 22 13 00-0087 EA 27 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	5,315.68	585.65
26 22 13 00-0088 EA 30 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	5,786.04	613.53
26 22 13 00-0089 EA 45 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	6,632.37	725.09
26 22 13 00-0090 EA 51 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	7,621.13	780.86
26 22 13 00-0091 EA 63 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	8,210.91	808.75
26 22 13 00-0092 EA 75 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	9,380.01	836.64
26 22 13 00-0093 EA 93 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	11,608.88	864.53
26 22 13 00-0094 EA 118 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	13,123.60	1,059.75
26 22 13 00-0095 EA 145 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	14,570.87	1,115.52
26 22 13 00-0096 EA 175 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	16,583.70	1,171.29
26 22 13 00-0097 EA 220 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	20,194.14	1,394.40
26 22 13 00-0098 480 Volt x 208Y/120 Volt, 2-2.5 Percent FCBN Taps <small>(26 22 13 00-0056)</small>		
26 22 13 00-0099 EA 9 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	2,626.88	460.15
26 22 13 00-0100 EA 15 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	3,345.60	501.98
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	117.08	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	175.62	
26 22 13 00-0101 480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 4-2.5 Percent FCBN Taps <small>(26 22 13 00-0056)</small>		
26 22 13 00-0102 EA 30 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	3,799.28	613.53
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	128.61	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	192.92	
For K4 Factor Rating, Add	1,800.55	
For K13 Factor Rating, Add	2,572.21	
For K20 Factor Rating, Add	3,343.87	
26 22 13 00-0103 EA 37.5 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	4,518.02	669.31
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	158.97	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	238.46	
For K4 Factor Rating, Add	2,225.58	
For K13 Factor Rating, Add	3,179.40	
For K20 Factor Rating, Add	4,133.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0104 EA 45 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	4,748.01 164.89 247.34 2,308.49 3,297.84 4,287.19	725.09
26 22 13 00-0105 EA 50 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	6,069.15 225.37 338.06 3,155.19 4,507.42 5,859.65	780.86
26 22 13 00-0106 EA 75 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	6,049.31 218.80 328.20 3,063.22 4,376.03 5,688.84	836.64
26 22 13 00-0107 EA 112.5 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	7,493.79 274.29 411.44 3,840.10 5,485.86 7,131.62	1,003.97
26 22 13 00-0108 EA 150 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	9,547.27 365.81 548.72 5,121.36 7,316.23 9,511.10	1,115.52
26 22 13 00-0109 EA 225 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	12,897.54 505.44 758.16 7,076.13 10,108.75 13,141.38	1,394.40
26 22 13 00-0110 EA 300 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	15,749.58 614.57 921.86 8,604.04 12,291.48 15,978.92	1,729.06
26 22 13 00-0111 EA 500 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	22,237.86 899.94 1,349.92 12,599.22 17,998.89 23,398.56	2,119.48
26 22 13 00-0112 EA 750 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	49,034.79 2,195.17 3,292.76 30,732.38 43,903.40 57,074.42	2,559.89
26 22 13 00-0113 EA 1,000 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	64,029.28 2,922.58 4,383.88 40,916.18 58,451.68 75,987.18	2,788.79
26 22 13 00-0114 480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 2-2.5 Percent FCBN Taps <small>(26 22 13 00-0056)</small>		
26 22 13 00-0115 EA 6 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	2,194.62 931.06 1,330.09 1,729.12	432.26
26 22 13 00-0116 EA 9 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	2,626.88 1,194.60 1,706.57 2,218.54	460.15
26 22 13 00-0117 EA 15 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	3,345.60 117.08 175.62 1,639.14 2,341.63 3,044.12	501.98
26 22 13 00-0118 480 Volt x 480Y/277 Volt, 2-2.5 Percent FCAN And 4 Percent FCBN Taps <small>(26 22 13 00-0056)</small>		

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 22 Low-Voltage Transformers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0119 EA 30 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	6,123.38 244.82 367.22 3,427.42 4,896.31 6,365.20	613.53
26 22 13 00-0120 EA 45 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	6,898.79 272.43 408.65 3,814.03 5,448.62 7,083.21	725.09
26 22 13 00-0121 EA 75 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	9,959.99 414.34 621.50 5,800.70 8,286.71 10,772.72	836.64
26 22 13 00-0122 EA 112.5 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	12,460.43 522.63 783.94 7,316.75 10,452.50 13,588.25	1,003.97
26 22 13 00-0123 EA 150 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	14,919.67 634.43 951.65 8,882.04 12,688.63 16,495.22	1,115.52
26 22 13 00-0124 EA 225 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	19,091.22 815.12 1,222.68 11,411.70 16,302.43 21,193.16	1,394.40
26 22 13 00-0125 EA 300 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	23,244.01 989.30 1,483.94 13,850.14 19,785.91 25,721.68	1,729.06
26 22 13 00-0126 EA 500 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	36,736.26 1,624.86 2,437.30 22,748.10 32,497.29 42,246.48	2,119.48
26 22 13 00-0127 3 Phase 60 Hz K20 Dry Type Transformers (26 22 13 00-0056)		
26 22 13 00-0128 3 Phase 60 Hz K20 Dry Type Transformers, 115 C Rise (26 22 13 00-0127) Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.		
26 22 13 00-0129 EA 15 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	3,157.36	501.98
26 22 13 00-0130 EA 30 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	4,638.15	613.53
26 22 13 00-0131 EA 45 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	6,644.36	725.09
26 22 13 00-0132 EA 75 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	8,406.49	836.64
26 22 13 00-0133 EA 112.5 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	12,394.24	1,003.97
26 22 13 00-0134 EA 150 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	14,977.59	1,115.52
26 22 13 00-0135 EA 225 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	17,508.76	1,394.40
26 22 13 00-0136 EA 300 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	27,358.40	1,729.06
26 22 13 00-0137 3 Phase 60 Hz K20 Dry Type Transformers, 80 C Rise (26 22 13 00-0127) Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.		
26 22 13 00-0138 EA 15 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	3,589.69	501.98
26 22 13 00-0139 EA 30 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	5,320.78	613.53
26 22 13 00-0140 EA 45 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	7,682.78	725.09
26 22 13 00-0141 EA 75 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	9,751.06	836.64
26 22 13 00-0142 EA 112.5 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	14,471.09	1,003.97
26 22 13 00-0143 EA 150 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	17,528.14	1,115.52
26 22 13 00-0144 EA 225 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	20,452.34	1,394.40
26 22 13 00-0145 EA 300 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	32,138.87	1,729.06
26 22 13 00-0146 NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0056)		
26 22 13 00-0147 Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0146) Note: Two taps at 2.5%, four at -2.5%.		
26 22 13 00-0148 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0147)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0149 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	3,201.22	500.85
26 22 13 00-0150 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	3,905.24	612.15
26 22 13 00-0151 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,704.56	723.44
26 22 13 00-0152 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	6,285.44	834.75
26 22 13 00-0153 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	8,382.89	1,001.69
26 22 13 00-0154 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	10,397.98	1,112.99
26 22 13 00-0155 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	13,766.80	1,391.24
26 22 13 00-0156 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	19,326.66	1,725.14
26 22 13 00-0157 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0147)		
26 22 13 00-0158 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	3,863.00	500.85
26 22 13 00-0159 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,706.86	612.15
26 22 13 00-0160 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,682.07	723.44
26 22 13 00-0161 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	7,670.45	834.75
26 22 13 00-0162 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	9,812.43	1,001.69
26 22 13 00-0163 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	12,849.58	1,112.99
26 22 13 00-0164 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	17,062.31	1,391.24
26 22 13 00-0165 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	24,089.57	1,725.14
26 22 13 00-0166 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0147)		
26 22 13 00-0167 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,522.11	500.85
26 22 13 00-0168 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,510.70	612.15
26 22 13 00-0169 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	6,659.60	723.44
26 22 13 00-0170 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	9,053.23	834.75
26 22 13 00-0171 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	11,616.06	1,001.69
26 22 13 00-0172 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	15,301.18	1,112.99
26 22 13 00-0173 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	20,357.83	1,391.24
26 22 13 00-0174 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	28,852.48	1,725.14
26 22 13 00-0175 Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0146)		
Note: Two taps at 2.5%, four at -2.5%.		
26 22 13 00-0176 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0175)		
26 22 13 00-0177 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	4,301.66	500.85
26 22 13 00-0178 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,243.49	612.15
26 22 13 00-0179 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,332.27	723.44
26 22 13 00-0180 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	8,592.30	834.75
26 22 13 00-0181 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	11,642.77	1,001.69
26 22 13 00-0182 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	14,568.59	1,112.99
26 22 13 00-0183 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	19,371.40	1,391.24
26 22 13 00-0184 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	27,429.62	1,725.14



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0185			115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0175)</small>		
26 22 13 00-0186	EA		15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	4,960.77	500.85
26 22 13 00-0187	EA		30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,047.34	612.15
26 22 13 00-0188	EA		45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	7,309.80	723.44
26 22 13 00-0189	EA		75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	9,977.31	834.75
26 22 13 00-0190	EA		112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	15,152.06	1,001.69
26 22 13 00-0191	EA		150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	19,079.88	1,112.99
26 22 13 00-0192	EA		225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	24,350.31	1,391.24
26 22 13 00-0193	EA		300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	36,222.86	1,725.14
26 22 13 00-0194			80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0175)</small>		
26 22 13 00-0195	EA		15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,622.09	500.85
26 22 13 00-0196	EA		30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,851.17	612.15
26 22 13 00-0197	EA		45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	8,287.31	723.44
26 22 13 00-0198	EA		75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	11,360.09	834.75
26 22 13 00-0199	EA		112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	17,971.07	1,001.69
26 22 13 00-0200	EA		150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	23,170.34	1,112.99
26 22 13 00-0201	EA		225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	29,326.98	1,391.24
26 22 13 00-0202	EA		300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	43,245.87	1,725.14
26 22 13 00-0203			3 Phase Weathershields <small>(26 22 13 00-0056)</small> Note: Use with type DT-3 and DS-3.		
26 22 13 00-0204	EA		45-112.5 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2.....	568.86	
26 22 13 00-0205	EA		150-300 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2.....	966.02	
26 22 13 00-0206	EA		500-1,000 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2.....	966.02	
26 22 13 00-0207			Three Phase Mounting Brackets <small>(26 22 13 00-0056)</small>		
26 22 13 00-0208	EA		3 Phase Mounting Brackets (Set Of 2) For Transformers Up To 112.5 KVA.....	699.68	198.01
26 22 13 00-0209			Pad Mounted Commercial Type Distribution Transformers UL Listed <small>(26 22 13)</small>		
26 22 13 00-0210			Distribution 3 Phase Oil Filled Transformer <small>(26 22 13 00-0209)</small> Note: Designed for loads as shopping centers, institutions, and industrial plants with underground distribution. KVA-75 thru 1000, 3 phase 95 thru 150 KV BIL standard features. With taps 4-1/2 percent below - 2-1/2 percent above and below.		
26 22 13 00-0211			Factory Modifications <small>(26 22 13 00-0210)</small> Note: For use with series 4100 3 phase transformers.		
26 22 13 00-0212	EA		Current Limiting Fuse 95 KV Series 4100, 3 Phase Transformer, Factory Modification.....	1,042.36	
26 22 13 00-0213	EA		Lightning Arrestors 9-10 KV Series 4100, 3 Phase Transformer, Factory Modification.....	169.50	
26 22 13 00-0214	EA		Loadbreaker Oil Switch, 2 Position Series 4100, 3 Phase Transformer, Factory Modification.....	677.99	
26 22 13 00-0215	EA		Loop Feed Air Switch Series 4100, 3 Phase Transformer, Factory Modification.....	1,953.34	
26 22 13 00-0216	EA		Loadbreaker Inserts Series 4100, 3 Phase Transformer, Factory Modification.....	239.29	
26 22 13 00-0217	EA		Lightning Arrestors, 15 KV Series 4100, 3 Phase Transformer, Factory Modification.....	189.44	
26 22 13 00-0218			Accessories For Transformer Liquid Containment Area <small>(26 22 13 00-0210)</small> Note: Reinforced concrete curb with 6" slab.		
26 22 13 00-0219	EA		Containment Area For 75 KVA.....	5,466.48	2,024.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,349.80	
26 22 13 00-0220	EA		Containment Area For 112.5 KVA.....	5,466.48	2,024.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,349.80	
26 22 13 00-0221	EA		Containment Area For 150 KVA.....	5,466.48	2,024.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,349.80	
26 22 13 00-0222	EA		Containment Area For 225 KVA.....	5,466.48	2,024.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,349.80	
26 22 13 00-0223	EA		Containment Area For 300 KVA.....	5,459.22	2,024.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,347.62	
26 22 13 00-0224	EA		Containment Area For 500 KVA.....	5,459.22	2,024.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,347.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0225 EA Containment Area For 750 KVA <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,487.14 1,347.62	2,024.67
26 22 13 00-0226 EA Containment Area For 1,000 KVA <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,891.94 1,347.62	2,024.67
26 22 13 00-0227 Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 95 KV BIL <small>(26 22 13 00-0210)</small> Note: Rated to 5 KVA.		
26 22 13 00-0228 EA 45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	7,387.76	1,335.59
26 22 13 00-0229 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	7,985.98	1,335.59
26 22 13 00-0230 EA 112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	8,384.81	1,335.59
26 22 13 00-0231 EA 150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	9,581.27	1,335.59
26 22 13 00-0232 EA 225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	10,677.54	2,003.39
26 22 13 00-0233 EA 300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	11,076.36	2,003.39
26 22 13 00-0234 EA 500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	15,862.20	2,003.39
26 22 13 00-0235 EA 750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	20,358.99	2,671.18
26 22 13 00-0236 EA 1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	25,543.65	2,671.18
26 22 13 00-0237 Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 95 BIL <small>(26 22 13 00-0210)</small> Note: Rated to 5 KVA.		
26 22 13 00-0238 EA 45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	7,587.17	1,335.59
26 22 13 00-0239 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	8,384.81	1,335.59
26 22 13 00-0240 EA 112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	8,584.22	1,335.59
26 22 13 00-0241 EA 150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	8,783.63	1,335.59
26 22 13 00-0242 EA 225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	10,677.54	2,003.39
26 22 13 00-0243 EA 300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	11,475.18	2,003.39
26 22 13 00-0244 EA 500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	15,862.20	2,003.39
26 22 13 00-0245 EA 750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	20,558.39	2,671.18
26 22 13 00-0246 EA 1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	25,543.65	2,671.18
26 22 13 00-0247 Primary 5 KV Or 15 KV, Secondary 277/480 Volt <small>(26 22 13 00-0209)</small> Note: 4-2.5 Percent taps FCAN and FCBN. Pad mounted.		
26 22 13 00-0248 EA 150 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	12,708.73	1,816.42
26 22 13 00-0249 EA 225 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	14,118.85	2,144.32
26 22 13 00-0250 EA 300 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	16,176.39	2,620.83
26 22 13 00-0251 EA 500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	19,018.67	2,948.73
26 22 13 00-0252 EA 750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	22,584.70	3,103.83
26 22 13 00-0253 EA 1,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	28,508.18	4,535.15
26 22 13 00-0254 EA 1,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	33,179.91	5,130.80
26 22 13 00-0255 EA 2,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	40,799.69	5,897.47
26 22 13 00-0256 EA 2,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	44,583.46	6,192.34
26 22 13 00-0257 EA 3,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	47,645.66	6,900.27
26 22 13 00-0258 EA 3,750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	53,909.96	7,372.07
26 22 13 00-0259 Pad Mounted Transformer 15 KV - 480 Volt, Oil Filled <small>(26 22 13 00-0209)</small>		
26 22 13 00-0260 EA 1,500 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	47,270.43	4,960.05
26 22 13 00-0261 EA 2,000 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	57,789.99	5,704.10
26 22 13 00-0262 EA 2,500 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	65,255.78	6,004.27
26 22 13 00-0263 EA 3,000 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	69,624.94	6,710.69
26 22 13 00-0264 EA 3,750 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	77,482.46	6,914.03
26 22 13 00-0265 Silicone Filled Distribution Transformers, 3 Phase <small>(26 22 13 00-0209)</small> Note: Primary 5 KV or 15 KV, secondary 277/480 V, 4-2.5 percent taps FCAN and FCBN. Pad mounted.		
26 22 13 00-0266 EA 225 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	20,438.68	2,144.32
26 22 13 00-0267 EA 300 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	22,419.88	2,620.83
26 22 13 00-0268 EA 500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	26,098.39	2,948.73
26 22 13 00-0269 EA 750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	30,918.75	3,103.83
26 22 13 00-0270 EA 1,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	38,293.88	4,535.15

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 22 Low-Voltage Transformers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0271 EA 1,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	47,682.29	5,130.80
26 22 13 00-0272 EA 2,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	57,552.35	5,897.47
26 22 13 00-0273 EA 2,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	64,994.83	6,192.34
26 22 13 00-0274 Foam Core Poly Transformer Pads (26 22 13)		
26 22 13 00-0275 EA Single Phase Foam Core Poly Pads.....	189.25	38.65
Note: Excludes site prep.		
26 24 Switchboards and Panelboards (26 20)		
26 24 13 Switchboards (26 24)		
Note: Installation of free-standing building distribution switchboards. Switchboard sections to be mounted on 4" concrete pad. Includes material, handling, unloading at job site, assembly and installation, wiring connections, testing and cleanup. Exclude concrete pad and foundation.		
26 24 13 00-0001 Fusible Switch Type 240 Volt, 3 Phase, 3 Wire (26 24 13)		
26 24 13 00-0002 Incoming Service Section Main Device Only (26 24 13 00-0001)		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0003 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	3,872.16	947.94
26 24 13 00-0004 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	4,289.32	1,002.68
26 24 13 00-0005 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	6,962.82	1,137.38
26 24 13 00-0006 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	7,500.84	1,219.31
26 24 13 00-0007 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	12,083.37	1,300.05
26 24 13 00-0008 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	13,479.23	1,382.31
26 24 13 00-0009 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	4,702.58	947.94
26 24 13 00-0010 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	6,039.43	1,002.68
26 24 13 00-0011 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	8,436.69	1,138.36
26 24 13 00-0012 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	11,565.35	1,219.31
26 24 13 00-0013 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	12,083.37	1,301.36
26 24 13 00-0014 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,479.23	1,382.31
26 24 13 00-0015 EA 2,500 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	16,215.72	1,445.17
26 24 13 00-0016 EA 3,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	18,388.18	1,548.24
26 24 13 00-0017 EA 4,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	21,717.47	1,668.97
26 24 13 00-0018 EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	2,614.31	839.90
26 24 13 00-0019 EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	2,890.82	894.19
26 24 13 00-0020 EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,310.80	1,029.33
26 24 13 00-0021 EA 1,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,571.93	1,072.58
26 24 13 00-0022 EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,805.82	1,111.27
26 24 13 00-0023 EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,172.22	1,191.47
26 24 13 00-0024 EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,511.60	1,273.18
26 24 13 00-0025 Branch Breaker Units (26 24 13 00-0001)		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0026 EA 15 To 60 Amperes, 240 Volt, MC Branch Breaker	335.61	33.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
26 24 13 00-0027 EA 70 To 100 Amperes, 240 Volt, MC Branch Breaker	491.46	52.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
26 24 13 00-0028 EA 125 To 225 Amperes, 240 Volt, MC Branch Breaker	1,323.26	94.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
26 24 13 00-0029 EA 100 To 400 Amperes, 240 Volt, MC Branch Breaker	2,352.61	123.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
26 24 13 00-0030 EA 300 To 600 Amperes, 240 Volt, MC Branch Breaker	4,184.51	303.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
26 24 13 00-0031 EA 400 To 800 Amperes, 240 Volt, MC Branch Breaker	6,712.82	303.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
26 24 13 00-0032 EA 600 To 1,200 Amperes, 240 Volt, MC Branch Breaker	10,879.83	540.79
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
26 24 13 00-0033 Fusible Switch Type 480 Volt, 3 Phase, 3 Wire (26 24 13)		
26 24 13 00-0034 Incoming Service Section Main Device Only (26 24 13 00-0033)		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0035 EA 400 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch	5,485.13	1,230.05
26 24 13 00-0036 EA 600 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch	6,131.95	1,230.05
26 24 13 00-0037 EA 800 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch	9,123.92	1,598.52
26 24 13 00-0038 EA 1,200 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch	10,346.44	1,598.52
26 24 13 00-0039 Fusible Switch Type 120/240 Volt, 1 Phase, 3 Wire (26 24 13)		
26 24 13 00-0040 Incoming Service Section Main Device Only (26 24 13 00-0039)		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0041 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	3,485.40	839.90
26 24 13 00-0042 EA 600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	3,883.77	894.19
26 24 13 00-0043 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	5,975.05	1,029.33
26 24 13 00-0044 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	6,492.47	1,110.41
26 24 13 00-0045 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	4,273.70	839.90



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0046	EA		600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	5,409.85	894.19
26 24 13 00-0047	EA		800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	7,612.31	1,029.33
26 24 13 00-0048	EA		1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	10,957.86	1,110.41
26 24 13 00-0049	EA		2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	12,868.52	1,246.30
26 24 13 00-0050	EA		200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	2,429.80	731.42
26 24 13 00-0051	EA		600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	2,725.39	785.82
26 24 13 00-0052	EA		800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	3,199.48	920.97
26 24 13 00-0053	EA		1,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	3,446.03	964.20
26 24 13 00-0054	EA		1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	3,684.81	1,002.68
26 24 13 00-0055	EA		1,600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	3,999.71	1,072.58
26 24 13 00-0056	EA		2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	4,307.94	1,137.38
26 24 13 00-0057	EA		2,500 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	5,347.84	1,408.86
26 24 13 00-0058	EA		3,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	5,988.20	1,544.33
26 24 13 00-0059	EA		4,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	7,056.99	1,666.25
26 24 13 00-0060			Branch Breaker Units <small>(26 24 13 00-0039)</small> Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 2 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0061	EA		15 To 60 Amperes, 120 / 240 Volt, MC Branch Breaker.....	179.73	28.72
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.23	
26 24 13 00-0062	EA		70 To 100 Amperes, 120 / 240 Volt, MC Branch Breaker.....	285.37	47.69
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.61	
26 24 13 00-0063	EA		125 To 225 Amperes, 120 / 240 Volt, MC Branch Breaker.....	874.44	66.65
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.99	
26 24 13 00-0064	EA		100 To 400 Amperes, 120 / 240 Volt, MC Branch Breaker.....	2,520.99	85.61
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.37	
26 24 13 00-0065	EA		300 To 600 Amperes, 120/240 Volt, MC Branch Breaker.....	3,966.28	208.62
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	125.16	
26 24 13 00-0066	EA		400 To 800 Amperes, 120/240 Volt, MC Branch Breaker.....	5,643.96	208.62
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	125.16	
26 24 13 00-0067	EA		600 To 1,200 Amperes, 120/240 Volt, MC Branch Breaker.....	9,302.94	398.27
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	238.99	
26 24 13 00-0068			Fusible Switch Type 120/208 Volt, 3 Phase, 4 Wire <small>(26 24 13)</small>		
26 24 13 00-0069			Incoming Service Section Main Device Only <small>(26 24 13 00-0068)</small> Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0070	EA		400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	3,873.49	947.94
26 24 13 00-0071	EA		600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	4,287.83	1,002.68
26 24 13 00-0072	EA		800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	6,960.90	1,137.38
26 24 13 00-0073	EA		1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	7,498.65	1,219.31
26 24 13 00-0074	EA		1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	12,078.37	1,300.05
26 24 13 00-0075	EA		2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	13,479.23	1,382.31
26 24 13 00-0076	EA		400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	4,703.91	947.94
26 24 13 00-0077	EA		600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	6,037.94	1,002.68
26 24 13 00-0078	EA		800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	8,436.69	1,138.36
26 24 13 00-0079	EA		1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	11,563.16	1,219.31
26 24 13 00-0080	EA		1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	12,080.86	1,301.36
26 24 13 00-0081	EA		2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,479.23	1,382.31
26 24 13 00-0082	EA		400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	2,745.94	839.90
26 24 13 00-0083	EA		600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,073.56	894.19
26 24 13 00-0084	EA		800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,584.86	1,029.33
26 24 13 00-0085	EA		1,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,859.91	1,072.58
26 24 13 00-0086	EA		1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,125.99	1,111.27
26 24 13 00-0087	EA		1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,480.00	1,191.47
26 24 13 00-0088	EA		2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,838.88	1,273.18
26 24 13 00-0089	EA		2,500 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,749.09	1,446.80
26 24 13 00-0090	EA		3,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	6,365.09	1,548.13
26 24 13 00-0091	EA		4,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	7,528.11	1,663.54
26 24 13 00-0092			Branch Breaker Units <small>(26 24 13 00-0068)</small> Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 120/208 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0093	EA		15 To 60 Amperes, 120/208 Volt, MC Branch Breaker.....	335.61	33.05
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.83	
26 24 13 00-0094	EA		70 To 100 Amperes, 120/208 Volt, MC Branch Breaker.....	491.46	52.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.21	
26 24 13 00-0095	EA		125 To 225 Amperes, 120/208 Volt, MC Branch Breaker.....	1,323.26	94.82
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.90	
26 24 13 00-0096	EA		100 To 400 Amperes, 120/208 Volt, MC Branch Breaker.....	2,352.61	123.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74.13	
26 24 13 00-0097	EA		300 To 600 Amperes, 120/208 Volt, MC Branch Breaker.....	4,184.51	303.45
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	182.04	
26 24 13 00-0098	EA		400 To 800 Amperes, 120/208 Volt, MC Branch Breaker.....	6,712.82	303.45
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	182.04	
26 24 13 00-0099	EA		600 To 1,200 Amperes, 120/208 Volt, MC Branch Breaker.....	10,879.83	540.79
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	324.47	
26 24 13 00-0100			Fusible Switch Type 277/480 Volt, 3 Phase, 4 Wire <small>(26 24 13)</small>		

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0101			Incoming Service Section Main Device Only <small>(26 24 13 00-0100)</small> Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0102	EA		400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	5,015.61	1,300.05
26 24 13 00-0103	EA		600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	5,508.56	1,382.31
26 24 13 00-0104	EA		800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	7,867.88	1,542.92
26 24 13 00-0105	EA		1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	8,603.27	1,652.05
26 24 13 00-0106	EA		400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	6,425.46	1,300.05
26 24 13 00-0107	EA		600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	8,668.53	1,382.31
26 24 13 00-0108	EA		800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	9,823.65	1,544.66
26 24 13 00-0109	EA		1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	12,428.59	1,652.05
26 24 13 00-0110	EA		1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	13,001.44	1,761.63
26 24 13 00-0111	EA		2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	14,456.79	1,871.08
26 24 13 00-0112	EA		400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	2,745.94	839.90
26 24 13 00-0113	EA		600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	3,073.56	894.19
26 24 13 00-0114	EA		800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	3,584.86	1,029.33
26 24 13 00-0115	EA		1,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	3,859.91	1,072.58
26 24 13 00-0116	EA		1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	4,125.99	1,111.27
26 24 13 00-0117	EA		1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	4,480.00	1,191.47
26 24 13 00-0118	EA		2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	4,838.88	1,273.18
26 24 13 00-0119			Branch Breaker Units <small>(26 24 13 00-0100)</small> Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 480 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0120	EA		15 To 60 Amperes, 480/277 Volt, MC Branch Breaker	697.76	33.05
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.83	
26 24 13 00-0121	EA		70 To 100 Amperes, 480/277 Volt, MC Branch Breaker	803.07	52.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.21	
26 24 13 00-0122	EA		125 To 225 Amperes, 480/277 Volt, MC Branch Breaker	1,456.33	94.82
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.90	
26 24 13 00-0123	EA		100 To 400 Amperes, 480/277 Volt, MC Branch Breaker	2,352.61	123.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74.13	
26 24 13 00-0124	EA		300 To 600 Amperes, 480/277 Volt, MC Branch Breaker	5,636.47	303.45
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	182.04	
26 24 13 00-0125	EA		400 To 800 Amperes, 480/277 Volt, MC Branch Breaker	5,766.17	303.45
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	182.04	
26 24 13 00-0126	EA		600 To 1,200 Amperes, 480/277 Volt, MC Branch Breaker	9,247.63	540.79
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	324.47	
26 24 13 00-0127			Fusible Branch Circuit Switch <small>(26 24 13)</small> Note: Includes switch fuses, and portion of distribution section occupied by that branch device.		
26 24 13 00-0128			240 Volt, 2 Pole Twin Branch Switch Units <small>(26 24 13 00-0127)</small>		
26 24 13 00-0129	EA		30/30 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit	714.50	85.07
			<i>For Electrical Interlock Kit, Add</i>	294.47	
26 24 13 00-0130	EA		30/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit	711.98	85.07
			<i>For Electrical Interlock Kit, Add</i>	294.47	
26 24 13 00-0131	EA		60/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit	711.98	85.07
			<i>For Electrical Interlock Kit, Add</i>	294.47	
26 24 13 00-0132	EA		60/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit	1,119.29	112.17
			<i>For Electrical Interlock Kit, Add</i>	294.47	
26 24 13 00-0133	EA		100/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit	1,119.29	112.17
			<i>For Electrical Interlock Kit, Add</i>	294.47	
26 24 13 00-0134			240 Volt, 2 Pole Single Branch Switch Units <small>(26 24 13 00-0127)</small>		
26 24 13 00-0135	EA		100 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit	818.51	83.45
			<i>For Electrical Interlock Kit, Add</i>	282.09	
26 24 13 00-0136	EA		200 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit	1,196.79	83.45
			<i>For Electrical Interlock Kit, Add</i>	282.09	
26 24 13 00-0137	EA		400 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit	3,075.22	224.88
26 24 13 00-0138			240 Volt, 3 Pole Twin Branch Switch Units <small>(26 24 13 00-0127)</small>		
26 24 13 00-0139	EA		30/30 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit	916.74	95.91
			<i>For Electrical Interlock Kit, Add</i>	294.47	
26 24 13 00-0140	EA		30/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit	914.22	95.91
			<i>For Electrical Interlock Kit, Add</i>	294.47	
26 24 13 00-0141	EA		60/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit	914.22	95.91
			<i>For Electrical Interlock Kit, Add</i>	294.47	
26 24 13 00-0142	EA		60/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit	1,378.59	128.43
			<i>For Electrical Interlock Kit, Add</i>	294.47	
26 24 13 00-0143	EA		100/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit	1,378.59	128.43
			<i>For Electrical Interlock Kit, Add</i>	294.47	
26 24 13 00-0144			240 Volt, 3 Pole Single Branch Switch Units <small>(26 24 13 00-0127)</small>		
26 24 13 00-0145	EA		100 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	991.94	94.28
			<i>For Electrical Interlock Kit, Add</i>	294.47	
26 24 13 00-0146	EA		200 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	1,608.60	94.28
			<i>For Electrical Interlock Kit, Add</i>	282.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0147 EA 400 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	4,122.98	251.75
26 24 13 00-0148 EA 600 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	5,891.06	322.52
26 24 13 00-0149 EA 800 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	10,979.08	436.96
26 24 13 00-0150 600 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0151 EA 30/30 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit	1,298.60	95.91
For Electrical Interlock Kit, Add	294.47	
26 24 13 00-0152 EA 30/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit	1,296.04	95.91
For Electrical Interlock Kit, Add	294.47	
26 24 13 00-0153 EA 60/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit	1,298.60	95.91
For Electrical Interlock Kit, Add	294.47	
26 24 13 00-0154 EA 60/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit	1,954.75	128.43
For Electrical Interlock Kit, Add	294.47	
26 24 13 00-0155 EA 100/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit	1,997.39	128.43
For Electrical Interlock Kit, Add	294.47	
26 24 13 00-0156 EA 200/200 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit	4,262.13	167.98
For Electrical Interlock Kit, Add	294.47	
26 24 13 00-0157 600 Volt, 3 Pole, Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0158 EA 100 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	1,403.21	94.28
For Electrical Interlock Kit, Add	294.47	
26 24 13 00-0159 EA 200 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	2,130.72	94.28
For Electrical Interlock Kit, Add	282.09	
26 24 13 00-0160 EA 400 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	5,182.08	251.75
For Electrical Interlock Kit, Add	282.09	
26 24 13 00-0161 EA 600 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	6,291.93	322.52
26 24 13 00-0162 EA 800 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	10,979.08	436.96
26 24 13 00-0163 Service And Distribution Structures (26 24 13)		
26 24 13 00-0164 Distribution Section 600 Volt, 250 Volt DC (26 24 13 00-0163)		
26 24 13 00-0165 600 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0166 EA 14 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	2,557.73	997.04
26 24 13 00-0167 EA 24 To 30 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	3,056.62	997.04
26 24 13 00-0168 EA 34 To 38 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	3,403.85	1,267.97
26 24 13 00-0169 EA 42 To 48 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	3,753.96	1,267.97
26 24 13 00-0170 800 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0171 EA 14 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	2,876.35	1,154.18
26 24 13 00-0172 EA 24 To 30 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	3,361.40	1,154.18
26 24 13 00-0173 EA 34 To 38 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	3,753.96	1,430.54
26 24 13 00-0174 EA 42 To 48 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	4,068.48	1,430.54
26 24 13 00-0175 1,200 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0176 EA 14 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	3,369.49	1,408.86
26 24 13 00-0177 EA 24 To 30 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	3,866.37	1,408.86
26 24 13 00-0178 EA 34 To 38 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	4,283.51	1,733.99
26 24 13 00-0179 EA 42 To 48 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	4,744.28	1,733.99
26 24 13 00-0180 1,600 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0181 EA 14 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	4,174.91	1,544.33
26 24 13 00-0182 EA 24 To 30 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	4,766.51	1,544.33
26 24 13 00-0183 EA 34 To 38 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	5,261.80	1,907.39
26 24 13 00-0184 EA 42 To 48 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	5,663.18	1,907.39
26 24 13 00-0185 2,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0186 EA 14 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	4,375.83	1,549.75
26 24 13 00-0187 EA 24 To 30 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	5,014.62	1,744.82
26 24 13 00-0188 EA 34 To 38 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	5,122.86	1,744.82
26 24 13 00-0189 EA 42 To 48 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	5,335.52	1,842.36
26 24 13 00-0190 3,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0191 EA 24 To 30 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	6,043.64	1,744.82
26 24 13 00-0192 EA 34 To 38 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	6,150.25	1,744.82
26 24 13 00-0193 EA 42 To 48 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	6,362.91	1,842.36
26 24 13 00-0194 4,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0195 EA 24 To 30 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	6,182.58	1,842.36
26 24 13 00-0196 EA 34 To 38 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	6,362.91	1,842.36
26 24 13 00-0197 EA 42 To 48 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	6,439.71	1,842.36

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0198			Pull Boy, Horizontal Mounted Across Top Of Switch Board <small>(26 24 13 00-0164)</small>		
26 24 13 00-0199	EA		18 - 24" Wide, 30" High, Open Bottom, Pull Boy Horizontal Mounted, Top Of Switchboard	548.41	130.05
26 24 13 00-0200	EA		Drilled Bottom For Pull Boy	618.23	130.05
26 24 13 00-0201	EA		Cable Supports In Pull Box	221.75	32.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.06	
26 24 13 00-0202			Underground Pull Sections <small>(26 24 13 00-0164)</small>		
			Note: Excludes no bus or terminal.		
26 24 13 00-0203	EA		12 To 20" Wide, 15 - 20" Deep, Underground Pull Section Without Bus Or Terminal	530.99	151.73
26 24 13 00-0204	EA		24 To 28" Wide, 20" Deep, Underground Pull Section Without Bus Or Terminal	920.37	195.07
26 24 13 00-0205	EA		24 To 28" Wide, 30" Deep, Underground Pull Section Without Bus Or Terminal	920.37	195.07
26 24 13 00-0206	EA		14 To 20" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal	688.75	151.73
26 24 13 00-0207	EA		28 To 30" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal	986.55	222.17
26 24 13 00-0208	EA		14 To 20" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal	1,125.62	222.17
26 24 13 00-0209	EA		26 To 30" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal	1,179.44	287.19
26 24 13 00-0210	EA		38" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal	1,245.01	287.19
26 24 13 00-0211			Switchboard Sections <small>(26 24 13 00-0163)</small>		
26 24 13 00-0212	EA		600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit	4,279.65	903.08
26 24 13 00-0213	EA		800 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit	4,687.64	981.66
26 24 13 00-0214	EA		1,200 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit	5,878.24	1,254.32
26 24 13 00-0215	EA		1,600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit	6,428.92	1,368.33
26 24 13 00-0216	EA		2,000 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit	6,856.41	1,456.66
26 24 13 00-0217	EA		400 Amperes, 480 Volt, Switchboard Incoming For Switch Circuit Section	5,097.39	792.22
26 24 13 00-0218	EA		200 Amperes, Distribution Section Subfeeder Lug-Rated	2,896.05	752.55
26 24 13 00-0219	EA		400 Amperes, Distribution Section Subfeeder Lug-Rated	3,209.38	816.06
26 24 13 00-0220	EA		120/208 Or 277/480 Volt, 4 Wire, Distribution Section Aluminum Bus	5,393.18	903.08
26 24 13 00-0221	EA		800 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker	5,815.81	905.47
26 24 13 00-0222	EA		1,000 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker	6,396.59	1,010.91
26 24 13 00-0223	EA		15 To 60 Amperes, 240 Volt, 1 Phase, Feed Section Circuit Breaker FA Frame	161.93	54.18
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.09	
26 24 13 00-0224	EA		70 To 100 Amperes, 240 Volt, 3 Phase, Feed Section Circuit Breaker FA Frame	197.70	55.17
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.10	
26 24 13 00-0225	EA		70 To 225 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker KA Frame	918.82	65.13
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.23	
26 24 13 00-0226	EA		125 To 400 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker LA Frame	1,523.71	140.35
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	117.29	
26 24 13 00-0227	EA		100 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker	605.74	195.50
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.73	
26 24 13 00-0228	EA		225 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker	1,714.63	112.93
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.23	
26 24 13 00-0229			Switchboard, Structure Per Section Copper, 480 Volt <small>(26 24 13 00-0163)</small>		
26 24 13 00-0230	EA		225 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	2,218.50	470.34
26 24 13 00-0231	EA		400 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	3,156.47	636.05
26 24 13 00-0232	EA		600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	3,539.83	774.11
26 24 13 00-0233	EA		800 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	4,461.80	1,083.74
26 24 13 00-0234	EA		1,200 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	5,528.71	1,354.68
26 24 13 00-0235	EA		1,600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	6,096.60	1,354.68
26 24 13 00-0236	EA		2,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	7,523.40	1,806.28
26 24 13 00-0237	EA		2,500 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	8,612.30	1,806.28
26 24 13 00-0238	EA		3,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	10,126.78	2,150.26
26 24 13 00-0239	EA		4,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	12,130.46	2,150.26
26 24 13 00-0240			Main Devices <small>(26 24 13)</small>		
26 24 13 00-0241			Power Circuit Breakers <small>(26 24 13 00-0240)</small>		
26 24 13 00-0242			DSL Breaker With Current Limiters And Amptector <small>(26 24 13 00-0241)</small>		
			Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0243	EA		50 To 800 Amperes, DSL-206, Main Breaker With Current Limiter, Amptector Static Trip	7,798.95	1,137.93
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	681.31	
26 24 13 00-0244	EA		50 To 1,600 Amperes, DSL-416, Main Breaker With Current Limiter, Amptector Static Trip	14,236.12	1,896.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,136.79	
26 24 13 00-0245	EA		1,200 To 3,200 Amperes, DSL-632, Main Breaker With Current Limiter, Amptector Static Trip	32,094.11	3,186.20
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,894.65	
26 24 13 00-0246	EA		4,000 Amperes, DSL-840, Main Breaker With Current Limiter, Amptector Static Trip	51,697.38	5,158.61
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,150.41	
26 24 13 00-0247	EA		Ground-Fault Trip All Power Breakers - Factory Installed	2,726.80	
26 24 13 00-0248	EA		Key Interlock All Power Breakers - Factory Installed	352.16	
26 24 13 00-0249	EA		Short Time Delay Selective Trip - Factory Installed	462.01	
26 24 13 00-0250	EA		Shunt Trip Manually Open Breakers - Factory Installed	332.77	
26 24 13 00-0251			DSL Breaker Electrical Operated And Amptector <small>(26 24 13 00-0241)</small>		
			Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0252 EA 50 To 800 Amperes, DSL-206, Main Breaker, Electrical Operated With Amptector Static Trip.....	9,141.46	1,192.12
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>718.66</i>	
26 24 13 00-0253 EA 50 To 1,600 Amperes, DSL-416, Main Breaker, Electrical Operated With Amptector Static Trip.....	16,987.74	2,004.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,197.06</i>	
26 24 13 00-0254 EA 1,200 To 3,200 Amperes, DSL-632, Main Breaker, Electrical Operated With Amptector Static Trip.....	36,061.91	3,305.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,992.17</i>	
26 24 13 00-0255 EA 4,000 Amperes, DSL-840, Main Breaker, Electrical Operated With Amptector Static Trip.....	55,682.56	5,418.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>3,331.17</i>	
26 24 13 00-0256 DS Breakers With Amptector Static Trip, Manually Operated <small>(26 24 13 00-0241)</small>		
Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted manually operated.		
26 24 13 00-0257 EA 50 To 800 Amperes, DS-206, Main Breaker With Groundfault, Amptector Static Trip.....	6,203.40	1,040.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>625.24</i>	
26 24 13 00-0258 EA 50 To 1,600 Amperes, DS-416, Main Breaker With Groundfault, Amptector Static Trip.....	11,355.08	1,744.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,042.06</i>	
26 24 13 00-0259 EA 2,000 Amperes, DS-420, Main Breaker With Groundfault, Amptector Static Trip.....	16,820.80	2,926.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,736.76</i>	
26 24 13 00-0260 EA 1,200 To 3,200 Amperes, DS-632, Main Breaker With Groundfault, Amptector Static Trip.....	29,034.74	4,714.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>2,892.55</i>	
26 24 13 00-0261 EA 4,000 Amperes, DS-840, Main Breaker With Groundfault, Amptector Static Trip.....	47,244.49	7,694.56
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>4,809.50</i>	
26 24 13 00-0262 DS Breakers With Amptector Static Trip, Electrically Operated <small>(26 24 13 00-0241)</small>		
Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted electrical operated.		
26 24 13 00-0263 EA 50 To 800 Amperes, DS-206, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	7,325.07	997.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>596.33</i>	
26 24 13 00-0264 EA 50 To 1,600 Amperes, DS-416, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	13,676.60	1,668.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>993.65</i>	
26 24 13 00-0265 EA 2,000 Amperes, DS-420, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	19,463.76	2,774.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,658.79</i>	
26 24 13 00-0266 EA 1,200 To 3,200 Amperes, DS-632, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	32,121.90	4,519.20
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>2,764.64</i>	
26 24 13 00-0267 EA 4,000 Amperes, DS-840, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	50,217.29	7,748.75
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>4,618.22</i>	
26 24 13 00-0268 Molded Case Circuit Breakers Conventional <small>(26 24 13 00-0241)</small>		
26 24 13 00-0269 EA 70 To 225 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	2,621.90	910.34
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>524.39</i>	
26 24 13 00-0270 EA 125 To 400 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	3,844.63	910.34
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>570.39</i>	
26 24 13 00-0271 EA 300 To 600 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	4,264.91	1,083.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>625.24</i>	
26 24 13 00-0272 EA 400 To 800 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	5,073.44	1,083.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>677.34</i>	
26 24 13 00-0273 EA 600 To 1,200 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	7,543.43	1,300.49
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>742.29</i>	
26 24 13 00-0274 EA 1,000 To 2,000 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	12,211.06	1,300.49
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>821.02</i>	
26 24 13 00-0275 EA Shunt Trip, Factory Installed.....	348.93	
26 24 13 00-0276 EA Groundfault Trip Complete Interrupting Circuit, Factory Installed.....	80.77	
26 24 13 00-0277 Switchboard Branch Breaker 480 Volt <small>(26 24 13 00-0240)</small>		
26 24 13 00-0278 EA 60 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	549.50	78.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>47.12</i>	
26 24 13 00-0279 EA 100 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	647.73	104.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>62.53</i>	
26 24 13 00-0280 EA 225 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	1,878.32	156.93
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>94.19</i>	
26 24 13 00-0281 EA 400 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	2,483.20	196.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>118.14</i>	
26 24 13 00-0282 EA 600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	3,004.62	264.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>158.44</i>	
26 24 13 00-0283 EA 800 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	3,627.94	338.67
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>203.20</i>	
26 24 13 00-0284 EA 1,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	5,836.42	516.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>309.64</i>	
26 24 13 00-0285 EA 1,200 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	5,836.42	516.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>309.64</i>	
26 24 13 00-0286 EA 1,600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	8,185.99	722.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>433.50</i>	
26 24 13 00-0287 EA 2,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	10,207.66	1,083.74
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>650.24</i>	
26 24 13 00-0288 Switchboard 277/480 Volt Main Breaker <small>(26 24 13 00-0240)</small>		
26 24 13 00-0289 EA 400 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	6,633.03	470.34
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>282.23</i>	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0290	EA		600 Amperes, 277/480 Volt, Main Breaker, Switchboard..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,722.46 309.05	515.10
26 24 13 00-0291	EA		800 Amperes, 277/480 Volt, Main Breaker, Switchboard..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,240.48 464.46	774.11
26 24 13 00-0292	EA		1,200 Amperes, 277/480 Volt, Main Breaker, Switchboard..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,393.50 650.24	1,083.74
26 24 13 00-0293	EA		1,600 Amperes, 277/480 Volt, Main Breaker, Switchboard..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,623.68 719.30	1,198.83
26 24 13 00-0294	EA		2,000 Amperes, 277/480 Volt, Main Breaker, Switchboard..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,644.11 1,290.17	2,150.26
26 24 13 00-0295 Branch Or Distribution Devices (26 24 13)					
26 24 13 00-0296 3 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295)					
Note: Includes certified refurbished circuit breakers.					
26 24 13 00-0297	EA		15 To 60 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	594.57 26.01	39.02
26 24 13 00-0298	EA		70 To 100 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	598.49 32.51	48.77
26 24 13 00-0299	EA		125 To 150 Amperes, 600 Volt, Type FB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,452.67 39.02	58.52
26 24 13 00-0300	EA		70 To 225 Amperes, 600 Volt, Type JDB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,108.46 50.39	75.86
26 24 13 00-0301	EA		125 To 400 Amperes, 600 Volt, Type LBB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,975.41 62.42	93.63
26 24 13 00-0302	EA		300 To 600 Amperes, 600 Volt, Type LC, 3 Pole, Panel Mounted, Molded Case Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,899.82 73.15	109.46
26 24 13 00-0303	EA		900 To 1,000 Amperes, 600 Volt, Type NB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,962.52 82.58	123.55
26 24 13 00-0304 2 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295)					
Note: Includes certified refurbished circuit breakers.					
26 24 13 00-0305	EA		15 To 60 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	409.18 19.51	29.26
26 24 13 00-0306	EA		70 To 100 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	525.42 26.01	39.02
26 24 13 00-0307	EA		125 To 150 Amperes, 600 Volt, Type FB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,449.56 32.51	48.77
26 24 13 00-0308	EA		70 To 225 Amperes, 600 Volt, Type JDB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,301.70 35.76	54.18
26 24 13 00-0309	EA		125 To 400 Amperes, 600 Volt, Type LBB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,429.30 47.14	70.44
26 24 13 00-0310	EA		900 To 1,000 Amperes, 600 Volt, Type NB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,518.02 68.27	102.41
26 24 13 00-0311 Meter Devices And Instrumentation (26 24 13)					
Note: Factory installed accessories.					
26 24 13 00-0312 Compartments For Instrument Transformers And Metering Devices (26 24 13 00-0311)					
26 24 13 00-0313	EA		Compartment For, Up To 800 Amperes, Primary Current Transformer.....	421.62	
26 24 13 00-0314	EA		Compartment For, 1,000 To 1,500 Amperes, Primary Current Transformer.....	609.01	
26 24 13 00-0315	EA		Compartment For, 2,000 To 6,000 Amperes, Primary Current Transformer.....	717.24	
26 24 13 00-0316 Instruments (26 24 13 00-0311)					
26 24 13 00-0317	EA		AC Voltmeter.....	575.08	
26 24 13 00-0318	EA		AC Ammeter.....	575.08	
26 24 13 00-0319	EA		AC Wattmeter.....	1,536.25	
26 24 13 00-0320	EA		Variometer.....	1,734.94	
26 24 13 00-0321	EA		Power Factor Meter.....	1,386.02	
26 24 13 00-0322	EA		Frequency Meter.....	1,529.79	
26 24 13 00-0323	EA		200 Volt-Amperes Max Potential Transformer.....	516.93	
26 24 13 00-0324	EA		AC Watt-hour Meter Indicating 1 Or 2 Element With Test Block And Plug Block.....	1,946.56	
26 24 13 00-0325	EA		AC Watt-hour Meter Recording 2 Element With Recording KW Demand Type R-2.....	3,256.65	
26 24 13 00-0326	EA		Weatherproof, Modify Meter.....	3,116.57	
26 24 13 00-0327	EA		Control Switch Resistor Type 130 V.....	72.48	
26 24 13 00-0328	EA		Metering Instrument: Voltage, Amperes And Watt Hour.....	3,928.34	
26 24 16 Panelboards (26 24)					
26 24 16 00-0001 Branch Circuit Panelboard (26 24 16)					
Note: Includes wiring connections, drilling hole (or removing knock-out on residential units), labeling and testing. All NEMA 3R panelboards include weatherproof hubs. Copper bussing. Panelboards with less than a 30 circuit capacity do not have the door in a door trim front option.					
26 24 16 00-0002 Assembled Lighting And Power Panelboards (26 24 16 00-0001)					
Note: Includes main lugs or breaker (as indicated). 20 Amp, 1 pole branch circuit plug-on breakers (the number of which is indicated). Panelboard box, trim and connection of main service cable from meter.					
26 24 16 00-0003 120/240 Volt, 3 Wire, 1 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)					



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0004 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,176.76	308.86
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0005 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers	1,337.31	308.86
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0006 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	1,518.35	428.08
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0007 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	1,701.87	428.08
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0008 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	1,874.33	536.46
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0009 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,051.29	536.46
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0010 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	2,222.35	617.74
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0011 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	2,668.60	791.14
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0012 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	2,808.37	791.14
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0013 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	2,946.15	904.93
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0014 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	3,168.55	904.93
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0015 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	3,305.83	1,018.72
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0016 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	3,509.38	1,018.72
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0017 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	3,633.42	1,127.09
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0018 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	3,838.61	1,127.09
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0019 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	4,026.58	1,246.30
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0020 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	4,157.19	1,246.30
<i>For NEMA 3R Panelboard, Add</i>	1,922.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	249.35	
26 24 16 00-0021 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	4,345.97	1,246.30
<i>For NEMA 3R Panelboard, Add</i>	1,922.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	249.35	
26 24 16 00-0022 120/240 Volt, 3 Wire, 1 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0022)</small>		
26 24 16 00-0023 EA 50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers	1,397.11	298.03
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0024 EA 50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers	1,560.01	298.03
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0025 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	1,934.19	509.36
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0026 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	2,193.79	509.36
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0027 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,369.77	623.15
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0028 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,553.12	623.15
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0029 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	2,716.20	747.78
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0030 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,287.05	747.78
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0031 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,432.17	915.76
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0032 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers	3,589.57	915.76
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0033 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	3,761.75	1,029.56
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0034 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	3,901.82	1,029.56
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0035 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,051.02	1,127.09
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0036 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	4,210.71	1,127.09
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0037 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	4,382.61	1,333.01
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0038 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	4,568.84	1,333.01
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0039 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	4,771.95	1,333.01
<i>For NEMA 3R Panelboard, Add</i>	1,922.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	249.35	
26 24 16 00-0040 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	4,898.29	1,408.86
<i>For NEMA 3R Panelboard, Add</i>	1,922.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	249.35	
26 24 16 00-0041 120/208 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0042 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,421.24	352.22
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0043 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,594.73	352.22
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0044 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	1,791.75	471.43
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0045 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	1,998.86	471.43
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0046 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,184.44	579.80
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0047 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,382.64	579.80
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0048 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	2,569.45	688.17
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0049 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	2,762.28	688.17
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0050 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	2,941.87	807.39
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0051 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	3,148.70	807.39
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0052 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	3,359.16	932.01
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0053 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	3,565.94	932.01
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0054 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	3,978.20	1,127.09
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0055 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	4,118.35	1,127.09
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0056 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	4,359.74	1,251.72
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0057 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	4,578.36	1,251.72
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0058 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	4,733.38	1,365.52
<i>For NEMA 3R Panelboard, Add</i>	1,922.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	249.35	
26 24 16 00-0059 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	4,951.33	1,365.52
<i>For NEMA 3R Panelboard, Add</i>	1,922.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	249.35	
26 24 16 00-0060 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,819.94	1,211.63
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0061 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	4,974.63	1,273.40
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0062 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,226.81	1,341.13
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0063 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	5,461.77	1,419.70
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0064 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	5,626.28	1,463.05
<i>For NEMA 3R Panelboard, Add</i>	1,922.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	249.35	
26 24 16 00-0065 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	5,890.70	1,552.46
<i>For NEMA 3R Panelboard, Add</i>	1,922.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	249.35	
26 24 16 00-0066 120/208 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0062)</small>		
26 24 16 00-0067 EA 50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,693.56	341.37
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0068 EA 50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,869.26	341.37
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0069 EA 50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,078.51	449.75
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0070 EA 50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,370.26	449.75
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0071 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,797.49	677.33
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0072 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,978.87	677.33
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0073 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	3,175.11	791.14
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0074	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	3,338.37	791.14
			<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0075	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,558.65	915.76
			<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0076	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	3,708.89	915.76
			<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0077	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	3,953.02	1,029.56
			<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0078	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,162.58	1,029.56
			<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0079	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,894.35	1,192.12
			<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0080	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	5,110.51	1,257.14
			<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0081	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,202.22	1,257.14
			<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0082	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	5,444.73	1,419.70
			<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0083	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	5,614.38	1,419.70
			<i>For NEMA 3R Panelboard, Add</i>	1,922.05	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	249.35	
26 24 16 00-0084	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	5,725.45	1,419.70
			<i>For NEMA 3R Panelboard, Add</i>	1,922.05	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	249.35	
26 24 16 00-0085	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,760.81	1,305.91
			<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0086	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	5,996.99	1,381.77
			<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0087	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	6,091.76	1,419.70
			<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0088	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	6,353.40	1,506.40
			<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0089	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	6,522.04	1,549.75
			<i>For NEMA 3R Panelboard, Add</i>	1,922.05	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	249.35	
26 24 16 00-0090	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	6,680.83	1,603.94
			<i>For NEMA 3R Panelboard, Add</i>	1,922.05	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	249.35	
26 24 16 00-0091			480 Volt, 3 Wire, 3 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0092)</small>		
26 24 16 00-0092	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,605.34	346.80
			<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0093	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,834.83	346.80
			<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0094	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,055.04	476.85
			<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0095	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,284.52	476.85
			<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0096	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,498.83	596.05
			<i>For NEMA 3R Panelboard, Add</i>	1,421.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0097 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,724.41	596.05
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0098 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	2,959.63	720.69
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0099 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	3,175.57	720.69
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0100 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,412.55	856.16
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0101 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	3,641.49	856.16
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0102 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	3,852.31	975.37
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0103 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,077.90	975.37
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0104 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,558.51	1,186.69
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0105 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	4,783.82	1,186.69
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0106 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,023.46	1,300.49
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0107 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	5,199.50	1,300.49
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0108 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	5,465.67	1,435.96
<i>For NEMA 3R Panelboard, Add</i>	1,922.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	249.35	
26 24 16 00-0109 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	5,656.85	1,435.96
<i>For NEMA 3R Panelboard, Add</i>	1,922.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	249.35	
26 24 16 00-0110 480 Volt, 3 Wire, 3 Phase, Main Breaker Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0111 EA 50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	2,043.40	368.47
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0112 EA 50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,267.77	400.98
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0113 EA 50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,494.56	498.52
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0114 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,997.47	606.89
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0115 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	3,213.80	671.92
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0116 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,411.09	726.11
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0117 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	3,628.41	791.14
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0118 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	3,837.58	856.16
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0119 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	4,029.05	910.34
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0120 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,234.38	964.53
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0121	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,456.48	1,029.56
			<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0122	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers	4,699.11	1,110.84
			<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0123	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,917.91	1,235.46
			<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0124	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	6,150.61	1,311.32
			<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0125	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	6,316.40	1,343.84
			<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0126	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	6,577.90	1,430.54
			<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0127	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	6,760.14	1,484.72
			<i>For NEMA 3R Panelboard, Add</i>	1,922.05	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	249.35	
26 24 16 00-0128	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	6,949.08	1,531.33
			<i>For NEMA 3R Panelboard, Add</i>	1,922.05	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	249.35	
26 24 16 00-0129			277/480 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0130	EA		100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,954.85	379.31
			<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0131	EA		100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,211.36	379.31
			<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0132	EA		100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,461.27	503.94
			<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0133	EA		100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	2,713.21	503.94
			<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0134	EA		100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,969.23	623.15
			<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0135	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,219.98	623.15
			<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0136	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	3,474.81	747.78
			<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0137	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,728.59	747.78
			<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0138	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	4,005.66	877.83
			<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0139	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,238.11	877.83
			<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0140	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,483.59	883.25
			<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0141	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 32 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,744.80	883.25
			<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0142	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,404.44	1,224.63
			<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0143	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	5,671.67	1,224.63
			<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0144 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,878.56	1,289.65
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0145 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	6,170.14	1,376.35
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0146 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	6,390.86	1,376.35
<i>For NEMA 3R Panelboard, Add</i>	1,922.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	249.35	
26 24 16 00-0147 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	6,714.20	1,506.40
<i>For NEMA 3R Panelboard, Add</i>	1,922.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	249.35	
26 24 16 00-0148 277/480 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0149 EA 50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers	2,538.15	466.01
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0150 EA 50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers	2,800.66	466.01
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0151 EA 50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	3,053.38	617.74
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0152 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	3,636.34	617.74
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0153 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	3,879.60	780.29
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0154 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers	4,122.46	780.29
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0155 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	4,357.16	894.09
<i>For NEMA 3R Panelboard, Add</i>	1,421.60	
26 24 16 00-0156 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	4,574.17	894.09
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0157 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	4,805.04	1,018.72
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0158 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	5,052.66	1,018.72
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0159 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	5,265.79	1,127.09
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0160 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	5,489.41	1,127.09
<i>For NEMA 3R Panelboard, Add</i>	1,563.37	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
26 24 16 00-0161 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	7,182.82	1,333.01
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0162 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	7,454.11	1,333.01
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0163 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers	7,654.56	1,457.63
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0164 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	7,957.63	1,457.63
<i>For NEMA 3R Panelboard, Add</i>	1,846.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
26 24 16 00-0165 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	8,176.36	1,593.10
<i>For NEMA 3R Panelboard, Add</i>	1,922.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	249.35	
26 24 16 00-0166 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers	8,402.50	1,593.10
<i>For NEMA 3R Panelboard, Add</i>	1,922.05	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	249.35	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0167 EA 400 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	9,977.25	1,774.09
For NEMA 3R Panelboard, Add	1,922.05	
For Door-In-Door (Hinged) Trim Front, Add	249.35	
26 24 16 00-0168 EA 600 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >400 To 600 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	12,146.05	2,129.55
For NEMA 3R Panelboard, Add	1,922.05	
For Door-In-Door (Hinged) Trim Front, Add	249.35	
26 24 16 00-0169 Unassembled Lighting And Power Panelboards <small>(26 24 16 00-0001)</small> Note: Includes the main device (lugs or breaker), connection of main service cable from meter and that portion of the panel box, trim and interior occupied by that device. Spaces include that portion of the panel box, trim and interior reserved by that space. The maximum single pole capacity of the panelboard main device (lugs, breakers) is indicated. Excludes branch breakers. A complete panelboard will be the sum of main device and the branch circuit breakers and spaces (within the capacity of the main device). See CSI section 26 28 16 13-0001 for circuit breakers.		
26 24 16 00-0170 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0169)</small> Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers.		
26 24 16 00-0171 Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0172 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	625.61	
26 24 16 00-0173 EA 100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	719.47	
26 24 16 00-0174 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	978.07	
For Door-In-Door (Hinged) Trim Front, Add	114.24	
26 24 16 00-0175 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,128.57	
For Door-In-Door (Hinged) Trim Front, Add	195.10	
26 24 16 00-0176 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,276.79	
For Door-In-Door (Hinged) Trim Front, Add	249.35	
26 24 16 00-0177 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,427.19	
For Door-In-Door (Hinged) Trim Front, Add	114.24	
26 24 16 00-0178 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,549.18	
For Door-In-Door (Hinged) Trim Front, Add	195.10	
26 24 16 00-0179 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,696.11	
For Door-In-Door (Hinged) Trim Front, Add	249.35	
26 24 16 00-0180 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,838.85	
For Door-In-Door (Hinged) Trim Front, Add	114.24	
26 24 16 00-0181 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,960.17	
For Door-In-Door (Hinged) Trim Front, Add	195.10	
26 24 16 00-0182 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,140.07	
For Door-In-Door (Hinged) Trim Front, Add	249.35	
26 24 16 00-0183 Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0184 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	930.22	
26 24 16 00-0185 EA 100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,053.36	
26 24 16 00-0186 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,686.49	
For Door-In-Door (Hinged) Trim Front, Add	114.24	
26 24 16 00-0187 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,871.85	
For Door-In-Door (Hinged) Trim Front, Add	195.10	
26 24 16 00-0188 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,045.74	
For Door-In-Door (Hinged) Trim Front, Add	249.35	
26 24 16 00-0189 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,560.78	
For Door-In-Door (Hinged) Trim Front, Add	114.24	
26 24 16 00-0190 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,767.32	
For Door-In-Door (Hinged) Trim Front, Add	195.10	
26 24 16 00-0191 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,954.31	
For Door-In-Door (Hinged) Trim Front, Add	249.35	
26 24 16 00-0192 Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0193 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,269.75	
26 24 16 00-0194 EA 100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,356.24	
26 24 16 00-0195 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,599.50	
26 24 16 00-0196 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,746.94	
26 24 16 00-0197 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,883.50	
26 24 16 00-0198 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,152.91	
26 24 16 00-0199 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,266.93	
26 24 16 00-0200 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,406.50	
26 24 16 00-0201 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,605.67	
26 24 16 00-0202 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,722.55	
26 24 16 00-0203 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,891.04	
26 24 16 00-0204 Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0205 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,566.99	
26 24 16 00-0206 EA 100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,682.16	
26 24 16 00-0207 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,426.93	
26 24 16 00-0208 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,597.57	
26 24 16 00-0209 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,760.42	
26 24 16 00-0210 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,260.12	
26 24 16 00-0211 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,459.30	
26 24 16 00-0212 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,644.46	
26 24 16 00-0213 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers		
26 24 16 00-0214 Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0215 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	704.83	
26 24 16 00-0216 EA 100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	828.62	
26 24 16 00-0217 EA 100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	932.16	
26 24 16 00-0218 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,054.14	
26 24 16 00-0219 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,213.15	
26 24 16 00-0220 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,343.17	
26 24 16 00-0221 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,548.57	
26 24 16 00-0222 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,668.34	
26 24 16 00-0223 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,800.39	
26 24 16 00-0224 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,973.71	
26 24 16 00-0225 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,179.10	
26 24 16 00-0226 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,580.05	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 24 16 00-0227		Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>	
26 24 16 00-0228	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,091.05
26 24 16 00-0229	EA	100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,230.34
26 24 16 00-0230	EA	100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,408.59
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>114.24</i>
26 24 16 00-0231	EA	225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,090.15
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>114.24</i>
26 24 16 00-0232	EA	225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,262.95
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>195.10</i>
26 24 16 00-0233	EA	225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,423.24
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>249.35</i>
26 24 16 00-0234	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,357.46
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>114.24</i>
26 24 16 00-0235	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,549.12
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>195.10</i>
26 24 16 00-0236	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,708.30
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>249.35</i>
26 24 16 00-0237		Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>	
26 24 16 00-0238	EA	100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,348.96
26 24 16 00-0239	EA	100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,465.39
26 24 16 00-0240	EA	100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,560.96
26 24 16 00-0241	EA	225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,675.58
26 24 16 00-0242	EA	225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,831.52
26 24 16 00-0243	EA	225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,949.88
26 24 16 00-0244	EA	400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,274.30
26 24 16 00-0245	EA	400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,386.09
26 24 16 00-0246	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,510.77
26 24 16 00-0247	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,740.53
26 24 16 00-0248	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,931.82
26 24 16 00-0249	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,332.76
26 24 16 00-0250		Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>	
26 24 16 00-0251	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,727.82
26 24 16 00-0252	EA	100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,859.13
26 24 16 00-0253	EA	100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,033.09
26 24 16 00-0254	EA	225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,830.60
26 24 16 00-0255	EA	225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,988.67
26 24 16 00-0256	EA	225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,137.92
26 24 16 00-0257	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	4,699.96
26 24 16 00-0258	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	4,897.99
26 24 16 00-0259	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,067.97
26 24 16 00-0260		480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small> Note: As manufactured by Square D or equal.	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0261 Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0262 EA 125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,012.81	
26 24 16 00-0263 EA 125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,110.86	
26 24 16 00-0264 EA 250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,532.61	
For Door-In-Door (Hinged) Trim Front, Add	114.24	
26 24 16 00-0265 EA 250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,708.26	
For Door-In-Door (Hinged) Trim Front, Add	195.10	
26 24 16 00-0266 EA 250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,860.13	
For Door-In-Door (Hinged) Trim Front, Add	249.35	
26 24 16 00-0267 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,853.30	
For Door-In-Door (Hinged) Trim Front, Add	114.24	
26 24 16 00-0268 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,952.37	
For Door-In-Door (Hinged) Trim Front, Add	195.10	
26 24 16 00-0269 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,120.56	
For Door-In-Door (Hinged) Trim Front, Add	249.35	
26 24 16 00-0270 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,233.63	
For Door-In-Door (Hinged) Trim Front, Add	114.24	
26 24 16 00-0271 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,394.13	
For Door-In-Door (Hinged) Trim Front, Add	195.10	
26 24 16 00-0272 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,613.91	
For Door-In-Door (Hinged) Trim Front, Add	249.35	
26 24 16 00-0273 Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0274 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,079.77	
26 24 16 00-0275 EA 100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,145.47	
26 24 16 00-0276 EA 125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,328.95	
26 24 16 00-0277 EA 125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,453.31	
For Door-In-Door (Hinged) Trim Front, Add	114.24	
26 24 16 00-0278 EA 125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,699.37	
For Door-In-Door (Hinged) Trim Front, Add	195.10	
26 24 16 00-0279 EA 250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,508.79	
For Door-In-Door (Hinged) Trim Front, Add	114.24	
26 24 16 00-0280 EA 250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,662.63	
For Door-In-Door (Hinged) Trim Front, Add	195.10	
26 24 16 00-0281 EA 250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,860.58	
For Door-In-Door (Hinged) Trim Front, Add	249.35	
26 24 16 00-0282 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,981.28	
For Door-In-Door (Hinged) Trim Front, Add	114.24	
26 24 16 00-0283 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,186.68	
For Door-In-Door (Hinged) Trim Front, Add	195.10	
26 24 16 00-0284 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,373.34	
For Door-In-Door (Hinged) Trim Front, Add	249.35	
26 24 16 00-0285 Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0286 EA 125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,634.86	
26 24 16 00-0287 EA 125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,732.91	
26 24 16 00-0288 EA 250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,139.93	
26 24 16 00-0289 EA 250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,422.33	
26 24 16 00-0290 EA 250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,561.92	
26 24 16 00-0291 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,555.10	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0292 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,635.77	
26 24 16 00-0293 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,777.57	
26 24 16 00-0294 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,951.99	
26 24 16 00-0295 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,097.45	
26 24 16 00-0296 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,284.91	
26 24 16 00-0297 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0298 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,834.32	
26 24 16 00-0299 EA 100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,900.02	
26 24 16 00-0300 EA 125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,941.79	
26 24 16 00-0301 EA 125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,060.64	
26 24 16 00-0302 EA 125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,413.44	
26 24 16 00-0303 EA 250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,210.59	
26 24 16 00-0304 EA 250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,346.03	
26 24 16 00-0305 EA 250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,517.60	
26 24 16 00-0306 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,638.29	
26 24 16 00-0307 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,826.83	
26 24 16 00-0308 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,010.92	
26 24 16 00-0309 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
Note: As manufactured by Square D or equal.		
26 24 16 00-0310 Main Lugs, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0311 EA 125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,054.53	
26 24 16 00-0312 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,153.19	
26 24 16 00-0313 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,333.98	
For Door-In-Door (Hinged) Trim Front, Add	114.24	
26 24 16 00-0314 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,593.99	
For Door-In-Door (Hinged) Trim Front, Add	114.24	
26 24 16 00-0315 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,770.99	
For Door-In-Door (Hinged) Trim Front, Add	195.10	
26 24 16 00-0316 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,921.66	
For Door-In-Door (Hinged) Trim Front, Add	249.35	
26 24 16 00-0317 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,934.44	
For Door-In-Door (Hinged) Trim Front, Add	114.24	
26 24 16 00-0318 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,052.98	
For Door-In-Door (Hinged) Trim Front, Add	195.10	
26 24 16 00-0319 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,219.90	
For Door-In-Door (Hinged) Trim Front, Add	249.35	
26 24 16 00-0320 EA 600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,333.20	
For Door-In-Door (Hinged) Trim Front, Add	114.24	
26 24 16 00-0321 EA 600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,494.42	
For Door-In-Door (Hinged) Trim Front, Add	195.10	
26 24 16 00-0322 EA 600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,715.01	
For Door-In-Door (Hinged) Trim Front, Add	249.35	
26 24 16 00-0323 Main Breaker, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0324 EA 100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,294.48	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 24 16 00-0325	EA		100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard.....	2,360.79	
	26 24 16 00-0326	EA		100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard.....	2,557.83	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
	26 24 16 00-0327	EA		125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard.....	2,624.08	
	26 24 16 00-0328	EA		125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard.....	2,748.97	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
	26 24 16 00-0329	EA		125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard.....	2,994.38	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
	26 24 16 00-0330	EA		250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard.....	3,855.01	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
	26 24 16 00-0331	EA		250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard.....	4,010.69	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
	26 24 16 00-0332	EA		250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard.....	4,206.57	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	249.35	
	26 24 16 00-0333	EA		400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard.....	4,396.14	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	114.24	
	26 24 16 00-0334	EA		400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard.....	4,603.53	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	195.10	
	26 24 16 00-0335	EA		400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard.....	4,790.07	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	249.35	
	26 24 16 00-0336			Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
	26 24 16 00-0337	EA		125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	1,676.58	
	26 24 16 00-0338	EA		125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	1,775.24	
	26 24 16 00-0339	EA		125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	1,946.82	
	26 24 16 00-0340	EA		250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	2,201.31	
	26 24 16 00-0341	EA		250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	2,485.05	
	26 24 16 00-0342	EA		250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	2,623.46	
	26 24 16 00-0343	EA		400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	2,638.08	
	26 24 16 00-0344	EA		400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	2,736.37	
	26 24 16 00-0345	EA		400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	2,876.91	
	26 24 16 00-0346	EA		600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	3,051.56	
	26 24 16 00-0347	EA		600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	3,197.45	
	26 24 16 00-0348	EA		600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard.....	3,384.91	
	26 24 16 00-0349			Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
	26 24 16 00-0350	EA		100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	2,901.80	
	26 24 16 00-0351	EA		100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	2,968.11	
	26 24 16 00-0352	EA		100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	3,271.89	
	26 24 16 00-0353	EA		125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	3,236.93	
	26 24 16 00-0354	EA		125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	3,356.30	
	26 24 16 00-0355	EA		125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	3,708.45	
	26 24 16 00-0356	EA		250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	4,556.80	
	26 24 16 00-0357	EA		250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	4,694.09	
	26 24 16 00-0358	EA		250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	4,863.58	
	26 24 16 00-0359	EA		400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard.....	5,053.15	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0360 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,243.37	
26 24 16 00-0361 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,426.84	
26 24 16 00-0362 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small> Note: Square D I-Line or equal.		
26 24 16 00-0363 Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0362)</small>		
26 24 16 00-0364 EA 400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	1,792.04	322.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	193.36	
26 24 16 00-0365 EA 400 Ampere Rating, 45" Breaker Mounted Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	2,099.55	322.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	193.31	
26 24 16 00-0366 EA 400 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	2,331.11	322.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	193.31	
26 24 16 00-0367 EA 600 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	2,656.11	529.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	317.45	
26 24 16 00-0368 EA 600 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	2,835.33	529.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	317.45	
26 24 16 00-0369 EA 600 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	3,032.00	529.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	317.45	
26 24 16 00-0370 EA 800 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	3,273.36	703.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	421.98	
26 24 16 00-0371 EA 800 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	3,445.78	705.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	423.27	
26 24 16 00-0372 EA 800 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	3,516.03	703.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	421.98	
26 24 16 00-0373 EA 800 Ampere Rating, 99" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	4,084.62	703.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	421.98	
26 24 16 00-0374 EA 1,200 Ampere Rating, 27" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	5,320.92	1,058.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	634.90	
26 24 16 00-0375 EA 1,200 Ampere Rating, 45" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	5,707.92	1,058.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	634.90	
26 24 16 00-0376 EA 1,200 Ampere Rating, 63" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	6,024.33	1,058.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	634.90	
26 24 16 00-0377 EA 1,200 Ampere Rating, 99" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	6,410.53	1,058.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	634.90	
26 24 16 00-0378 Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0362)</small>		
26 24 16 00-0379 EA 225 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	3,468.60	329.09
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	197.45	
26 24 16 00-0380 EA 400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	4,554.61	373.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	223.96	
26 24 16 00-0381 EA 400 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	4,778.24	373.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	223.96	
26 24 16 00-0382 EA 400 Ampere Rating, 81" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	5,436.44	373.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	223.96	
26 24 16 00-0383 EA 600 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	7,088.14	611.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	367.13	
26 24 16 00-0384 EA 600 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	7,457.77	613.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	368.11	
26 24 16 00-0385 EA 600 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	7,762.21	611.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	367.13	
26 24 16 00-0386 EA 800 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	8,961.14	817.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	490.81	
26 24 16 00-0387 EA 800 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard	9,398.66	815.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	489.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0388 EA 800 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,834.82 489.08	815.11
26 24 16 00-0389 Residential Lighting And Power Panelboards <small>(26 24 16 00-0001)</small> See CSI section 26 28 16 13-0001 for circuit breakers.		
26 24 16 00-0390 Residential Type Unassembled Load Center <small>(26 24 16 00-0389)</small> Note: Interior box and cover, includes ground bar kit.		
26 24 16 00-0391 Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt <small>(26 24 16 00-0390)</small>		
26 24 16 00-0392 EA 30 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	147.17	54.18
26 24 16 00-0393 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	491.14	216.75
26 24 16 00-0394 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	743.58	309.40
26 24 16 00-0395 EA 125 Ampere Rating, 24 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	1,590.17	650.36
26 24 16 00-0396 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	1,739.50	704.43
26 24 16 00-0397 Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small> Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta.		
26 24 16 00-0398 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard.....	206.07	59.61
26 24 16 00-0399 EA 125 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard.....	371.77	65.02
26 24 16 00-0400 Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof <small>(26 24 16 00-0390)</small>		
26 24 16 00-0401 EA 40 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	209.62	59.61
26 24 16 00-0402 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	233.91	65.02
26 24 16 00-0403 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	814.67	309.40
26 24 16 00-0404 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	1,847.69	704.43
26 24 16 00-0405 Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small> Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.		
26 24 16 00-0406 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	260.16	59.61
26 24 16 00-0407 EA 125 Ampere Rating, 20 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	1,788.15	650.36
26 24 16 00-0408 Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt <small>(26 24 16 00-0390)</small>		
26 24 16 00-0409 EA 125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	1,927.09	650.36
26 24 16 00-0410 EA 150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	2,091.88	704.43
26 24 16 00-0411 EA 300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	7,444.73	1,083.74
26 24 16 00-0412 Main Breaker Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small> Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 V Delta.		
26 24 16 00-0413 EA 125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard.....	2,824.71	650.36
26 24 16 00-0414 EA 150 Ampere Rating, 40 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard.....	3,081.46	704.43
26 24 16 00-0415 EA 300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard.....	8,200.02	1,083.74
26 24 16 00-0416 Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof <small>(26 24 16 00-0390)</small>		
26 24 16 00-0417 EA 125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	2,027.55	650.36
26 24 16 00-0418 EA 150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	2,263.42	704.43
26 24 16 00-0419 Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small> Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.		
26 24 16 00-0420 EA 125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	2,991.32	650.36

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0421	EA		155 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	3,099.54	704.43
26 24 16 00-0422			Residential Type Assembled Load Center (26 24 16 00-0389)		
26 24 16 00-0423			Main Lug Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase (26 24 16 00-0422)		
			Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0424	EA		100 Ampere Rating, Main Lugs, Indoor 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	744.05	309.40
26 24 16 00-0425	EA		100 Ampere Rating, Main Lugs, Indoor 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	906.79	361.42
26 24 16 00-0426	EA		100 Ampere Rating, Main Lugs, Rainproof, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	761.05	309.40
26 24 16 00-0427	EA		100 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	911.43	361.42
26 24 16 00-0428	EA		200 Ampere Rating, Main Lugs, Indoor, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,325.14	481.72
26 24 16 00-0429	EA		200 Ampere Rating, Main Lugs, Indoor, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,562.83	578.18
26 24 16 00-0430	EA		200 Ampere Rating, Main Lugs, Indoor, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,786.83	667.04
26 24 16 00-0431	EA		200 Ampere Rating, Main Lugs, Indoor, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,969.69	722.10
26 24 16 00-0432	EA		200 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,947.96	1,083.74
26 24 16 00-0433	EA		200 Ampere Rating, Main Lugs, Rainproof, 16 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,385.41	481.72
26 24 16 00-0434	EA		200 Ampere Rating, Main Lugs, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,620.01	578.18
26 24 16 00-0435	EA		200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,844.01	667.04
26 24 16 00-0436	EA		200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,023.78	722.10
26 24 16 00-0437	EA		200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,125.69	1,083.74
26 24 16 00-0438	EA		400 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,636.98	1,204.15
26 24 16 00-0439	EA		400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,822.44	1,204.15
26 24 16 00-0440			Main Lug Load Center, 4 Wire, 20 Amperes, 120/208 Volt (26 24 16 00-0422)		
			Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0441	EA		125 Ampere Rating, Main Lugs, Indoor, 12 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	993.34	361.42
26 24 16 00-0442	EA		125 Ampere Rating, Main Lugs, Indoor, 18 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,480.93	541.87
26 24 16 00-0443	EA		125 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,044.34	361.42
26 24 16 00-0444	EA		125 Ampere Rating, Main Lugs, Rainproof, 18 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,527.30	541.87
26 24 16 00-0445	EA		200 Ampere Rating, Main Lugs, Indoor, 24 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,874.92	667.04
26 24 16 00-0446	EA		200 Ampere Rating, Main Lugs, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,047.73	722.53
26 24 16 00-0447	EA		200 Ampere Rating, Main Lugs, Indoor, 36 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,507.29	867.31
26 24 16 00-0448	EA		200 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,009.78	1,083.74
26 24 16 00-0449	EA		200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,929.02	667.04
26 24 16 00-0450	EA		200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,108.78	722.10
26 24 16 00-0451	EA		200 Ampere Rating, Main Lugs, Rainproof, 36 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,714.83	866.67
26 24 16 00-0452	EA		200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,218.42	1,083.74
26 24 16 00-0453	EA		400 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,683.35	1,204.15
26 24 16 00-0454	EA		400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,868.80	1,204.15
26 24 16 00-0455			Main Breaker Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase (26 24 16 00-0422)		
			Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0456	EA		125 Ampere Rating, Main Breaker, Indoor, 12 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	987.16	361.42
26 24 16 00-0457	EA		125 Ampere Rating, Main Breaker, Indoor, 18 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,459.30	541.87
26 24 16 00-0458	EA		200 Ampere Rating, Main Breaker, Indoor, 20 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,689.56	578.18



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 24	16 00-0459	EA	200 Ampere Rating, Main Breaker, Indoor, 24 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,937.40	667.37
	26 24	16 00-0460	EA	200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,132.74	722.53
	26 24	16 00-0461	EA	200 Ampere Rating, Main Breaker, Indoor, 40 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,823.38	963.44
	26 24	16 00-0462	EA	200 Ampere Rating, Main Breaker, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,705.01	578.18
	26 24	16 00-0463	EA	200 Ampere Rating, Main Breaker, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,967.65	667.04
	26 24	16 00-0464	EA	200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,139.69	722.10
	26 24	16 00-0465	EA	200 Ampere Rating, Main Breaker, Rainproof, 40 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,738.38	963.44
	26 24	16 00-0466	EA	400 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	5,228.84	1,204.15
	26 24	16 00-0467	EA	400 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	5,537.94	1,204.15
	26 24	16 00-0468		Main Breaker Load Center, 4 Wire, 20 Amperes, 120/208 Volt (26 24 16 00-0422) Note: Includes 1 pole plug-in breaker.		
	26 24	16 00-0469	EA	200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,565.48	722.53
	26 24	16 00-0470	EA	200 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,504.34	1,083.74
	26 24	16 00-0471	EA	200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,657.44	722.10
	26 24	16 00-0472	EA	200 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,597.06	1,083.74
	26 24	16 00-0473		Panel Mounted Accessories And Fuseholders (26 24 16 00-0001)		
	26 24	16 00-0474		Midget Finger-Safe Fuse Holders (26 24 16 00-0473) Note: 30 Amp capacity. Excludes fuse.		
	26 24	16 00-0475	EA	1 Pole Midget Finger-Safe Fuse Holder	70.56	19.51
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	
	26 24	16 00-0476	EA	1 Pole With Indicator Midget Finger-Safe Fuse Holder	83.44	19.51
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	
	26 24	16 00-0477	EA	2 Pole Midget Finger-Safe Fuse Holder	114.02	29.26
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.51	
	26 24	16 00-0478	EA	2 Pole With Indicators Midget Finger-Safe Fuse Holder	147.66	29.26
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.51	
	26 24	16 00-0479	EA	3 Pole Midget Finger-Safe Fuse Holder	167.92	39.02
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.01	
	26 24	16 00-0480	EA	3 Pole With Indicators Midget Finger-Safe Fuse Holder	212.59	39.02
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.01	
	26 24	16 00-0481	EA	3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder	249.97	39.02
				Note: With indicators.		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.01	
	26 24	16 00-0482	EA	3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder	200.42	39.02
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.01	
	26 24	16 00-0483	EA	4 Pole Midget Finger-Safe Fuse Holder	211.53	48.77
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.51	
	26 24	16 00-0484	EA	4 Pole With Indicator Midget Finger-Safe Fuse Holder	260.60	48.77
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.51	
	26 24	16 00-0485	EA	12 To 24 Volt DC Midget Finger-Safe Fuse Holder	83.49	19.51
				Note: With indicator.		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	
	26 24	16 00-0486	EA	20 To 24 Volt DC Midget Finger-Safe Fuse Holder	90.33	19.51
				Note: With indicator.		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	
	26 24	16 00-0487	EA	35 To 48 Volt DC Midget Finger-Safe Fuse Holder	84.75	19.51
				Note: With indicator.		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	
	26 24	16 00-0488		Removal And Reinstallation Of Panelboards (26 24 16 00-0001) Note: Includes storage, cleaning and supply materials.		
	26 24	16 00-0489	EA	Removal And Reinstallation Of Up To 42 Circuit Capacity Panelboards With Breakers	1,360.91	
				Note: Includes removal and reinstallation of main wiring to panelboard.		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	406.40	
	26 24	16 00-0490	EA	Removal And Reinstallation Of Breaker, 1-2-3 Pole, Any Amperage	72.23	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.13	
	26 24	16 00-0491	EA	Panelboard Filler Plate, Fits 1" Opening	5.18	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.02	
	26 24	19		Motor-Control Centers (26 24)		
	26 24	19 00-0001		Combination Starters With Molded Case Circuit Breakers (26 24 19) Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" o 20" Deep), fully factory assembled and wired internally.		

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0002			230 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small> Note: 1-Speed non-reversing.		
26 24 19 00-0003	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination With Molded Case Circuit .....2,321.08	2,321.08	99.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 59.40		
26 24 19 00-0004	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination With Molded Case Circuit .....2,750.70	2,750.70	103.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 62.37		
26 24 19 00-0005	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination With Molded Case Circuit .....4,099.74	4,099.74	108.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 65.34		
26 24 19 00-0006	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit .....7,441.64	7,441.64	128.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 77.22		
26 24 19 00-0007	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit .....15,003.03	15,003.03	148.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 89.11		
26 24 19 00-0008	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit .....25,248.77	25,248.77	198.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 118.80		
26 24 19 00-0009			480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small> Note: 1-Speed non-reversing.		
26 24 19 00-0010	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination With Molded Case Circuit .....2,321.08	2,321.08	99.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 59.40		
26 24 19 00-0011	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination With Molded Case Circuit .....2,750.70	2,750.70	103.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 62.37		
26 24 19 00-0012	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit .....4,099.74	4,099.74	108.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 65.34		
26 24 19 00-0013	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit .....7,441.64	7,441.64	128.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 77.22		
26 24 19 00-0014	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit .....15,003.03	15,003.03	148.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 89.11		
26 24 19 00-0015	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination With Molded Case Circuit .....25,248.77	25,248.77	198.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 118.80		
26 24 19 00-0016			230 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small> Note: 1-Speed reversing.		
26 24 19 00-0017	EA		230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination With Molded Case Circuit .....3,369.29	3,369.29	99.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 59.40		
26 24 19 00-0018	EA		230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination With Molded Case Circuit .....4,494.02	4,494.02	103.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 62.37		
26 24 19 00-0019	EA		230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination With Molded Case Circuit .....6,447.10	6,447.10	108.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 65.34		
26 24 19 00-0020	EA		230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit .....11,288.03	11,288.03	128.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 77.22		
26 24 19 00-0021	EA		230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit .....22,231.68	22,231.68	148.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 89.11		
26 24 19 00-0022	EA		230 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit .....38,320.29	38,320.29	198.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 118.80		
26 24 19 00-0023			480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small> Note: 1-Speed reversing.		
26 24 19 00-0024	EA		480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination With Molded Case Circuit .....3,369.29	3,369.29	99.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 59.40		
26 24 19 00-0025	EA		480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination With Molded Case Circuit .....4,494.02	4,494.02	103.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 62.37		
26 24 19 00-0026	EA		480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit .....6,447.10	6,447.10	108.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 65.34		
26 24 19 00-0027	EA		480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit .....11,288.03	11,288.03	128.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 77.22		
26 24 19 00-0028	EA		480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit .....22,231.68	22,231.68	148.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 89.11		
26 24 19 00-0029	EA		480 Volt, Full Volt, 1 Speed, Reversing, 400 HP Combination With Molded Case Circuit .....38,320.29	38,320.29	198.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 118.80		
26 24 19 00-0030			230 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0031	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit .....4,094.35	4,094.35	158.41
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 95.04		
26 24 19 00-0032	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit .....5,637.62	5,637.62	168.31
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 100.99		
26 24 19 00-0033	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit .....8,309.02	8,309.02	178.21
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 106.92		
26 24 19 00-0034	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit .....14,863.20	14,863.20	202.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 121.77		
26 24 19 00-0035	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit .....24,635.12	24,635.12	237.61
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 142.57		
26 24 19 00-0036			480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0037	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit .....4,094.35	4,094.35	158.41
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 95.04		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0038 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,637.62 100.99	168.31
26 24 19 00-0039 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,309.02 106.92	178.21
26 24 19 00-0040 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,863.20 121.77	202.96
26 24 19 00-0041 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,635.12 142.57	237.61
26 24 19 00-0042 230 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0043 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,739.51 59.40	99.00
26 24 19 00-0044 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,059.02 62.37	103.96
26 24 19 00-0045 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,667.23 65.34	108.91
26 24 19 00-0046 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,170.23 77.22	128.71
26 24 19 00-0047 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,490.11 89.11	148.51
26 24 19 00-0048 480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0049 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,739.51 59.40	99.00
26 24 19 00-0050 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,059.02 62.37	103.96
26 24 19 00-0051 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,667.23 65.34	108.91
26 24 19 00-0052 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,170.23 77.22	128.71
26 24 19 00-0053 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,490.11 89.11	148.51
26 24 19 00-0054 230 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, auto-transformer.		
26 24 19 00-0055 EA 230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination With Molded Case Circuit.....	7,014.60	103.96
26 24 19 00-0056 EA 230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination With Molded Case Circuit.....	10,745.33	113.85
26 24 19 00-0057 EA 230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit.....	18,119.15	128.71
26 24 19 00-0058 EA 230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit.....	28,034.58	148.51
26 24 19 00-0059 EA 230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit.....	47,967.37	198.01
26 24 19 00-0060 480 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, auto-transformer.		
26 24 19 00-0061 EA 480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination With Molded Case Circuit.....	7,014.60	103.96
26 24 19 00-0062 EA 480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit.....	10,745.33	113.85
26 24 19 00-0063 EA 480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit.....	18,119.15	128.71
26 24 19 00-0064 EA 480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit.....	28,034.58	148.51
26 24 19 00-0065 EA 480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination With Molded Case Circuit.....	47,967.37	198.01
26 24 19 00-0066 230 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, part winding.		
26 24 19 00-0067 EA 230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,780.57 95.04	158.41
26 24 19 00-0068 EA 230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,178.09 109.89	183.16
26 24 19 00-0069 EA 230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,876.89 121.77	202.96
26 24 19 00-0070 EA 230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,549.98 148.51	247.51
26 24 19 00-0071 EA 230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,486.41 190.10	316.82
26 24 19 00-0072 480 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, part winding.		
26 24 19 00-0073 EA 480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,780.57 95.04	158.41
26 24 19 00-0074 EA 480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,178.09 109.89	183.16
26 24 19 00-0075 EA 480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,876.89 121.77	202.96
26 24 19 00-0076 EA 480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,549.98 148.51	247.51
26 24 19 00-0077 EA 480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,486.41 190.10	316.82

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0078			230 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, energy saver.		
26 24 19 00-0079	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7-1/2 HP Combination With Molded Case Circuit.....	19,813.61	128.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.22	
26 24 19 00-0080	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination With Molded Case Circuit.....	21,016.70	158.41
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.04	
26 24 19 00-0081	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination With Molded Case Circuit.....	23,207.05	183.16
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.89	
26 24 19 00-0082	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	35,145.59	202.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.77	
26 24 19 00-0083	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	47,935.36	247.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	148.51	
26 24 19 00-0084	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	65,054.07	316.82
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	190.10	
26 24 19 00-0085			480 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, energy saver.		
26 24 19 00-0086	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination With Molded Case Circuit.....	19,813.61	128.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.22	
26 24 19 00-0087	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination With Molded Case Circuit.....	21,016.70	158.41
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.04	
26 24 19 00-0088	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	23,207.05	183.16
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.89	
26 24 19 00-0089	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	35,145.59	202.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.77	
26 24 19 00-0090	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	47,935.36	247.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	148.51	
26 24 19 00-0091	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination With Molded Case Circuit.....	65,054.07	316.82
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	190.10	
26 24 19 00-0092			Combination Starters With Current Limiting Circuit Breakers <small>(26 24 19)</small> Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and wired internally.		
26 24 19 00-0093			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0094	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	3,109.45	99.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	
26 24 19 00-0095	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination Starters With Current Limiting Circuit.....	3,539.08	103.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.37	
26 24 19 00-0096	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination Starters With Current Limiting Circuit.....	5,478.84	108.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.34	
26 24 19 00-0097	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	10,104.35	128.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.22	
26 24 19 00-0098	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	18,098.80	148.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.11	
26 24 19 00-0099	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	29,506.01	198.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	118.80	
26 24 19 00-0100			480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0101	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination Starters With Current Limiting Circuit.....	3,109.45	99.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	
26 24 19 00-0102	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination Starters With Current Limiting Circuit.....	3,539.08	103.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.37	
26 24 19 00-0103	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	5,478.84	108.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.34	
26 24 19 00-0104	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	10,104.35	128.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.22	
26 24 19 00-0105	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	18,098.80	148.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.11	
26 24 19 00-0106	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination Starters With Current Limiting Circuit.....	29,506.01	198.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	118.80	
26 24 19 00-0107			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Full volt, 1-speed reversing.		
26 24 19 00-0108	EA		230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	4,151.00	99.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0109 EA 230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,266.85 62.37	103.96
26 24 19 00-0110 EA 230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,795.12 65.34	108.91
26 24 19 00-0111 EA 230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,915.22 77.22	128.71
26 24 19 00-0112 EA 230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,265.26 89.11	148.51
26 24 19 00-0113 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 1-speed reversing.		
26 24 19 00-0114 EA 480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,151.00 59.40	99.00
26 24 19 00-0115 EA 480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,266.85 62.37	103.96
26 24 19 00-0116 EA 480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,795.12 65.34	108.91
26 24 19 00-0117 EA 480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,915.22 77.22	128.71
26 24 19 00-0118 EA 480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,265.26 89.11	148.51
26 24 19 00-0119 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0120 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,862.74 95.04	158.41
26 24 19 00-0121 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,394.91 100.99	168.31
26 24 19 00-0122 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,634.82 106.92	178.21
26 24 19 00-0123 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,459.29 121.77	202.96
26 24 19 00-0124 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,644.28 142.57	237.61
26 24 19 00-0125 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0126 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,862.74 95.04	158.41
26 24 19 00-0127 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,394.91 100.99	168.31
26 24 19 00-0128 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,634.82 106.92	178.21
26 24 19 00-0129 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,459.29 121.77	202.96
26 24 19 00-0130 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,644.28 142.57	237.61
26 24 19 00-0131 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 2-speed non-reversing, 1 wind.		
26 24 19 00-0132 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,606.91 89.11	148.51
26 24 19 00-0133 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,911.87 95.04	158.41
26 24 19 00-0134 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,105.19 100.99	168.31
26 24 19 00-0135 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,863.93 115.83	193.06
26 24 19 00-0136 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,597.73 136.63	227.71
26 24 19 00-0137 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 2-speed non-reversing, 1 wind.		

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0138	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit	5,606.91	148.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.11	
26 24 19 00-0139	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit	7,911.87	158.41
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.04	
26 24 19 00-0140	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	11,105.19	168.31
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100.99	
26 24 19 00-0141	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	20,863.93	193.06
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	115.83	
26 24 19 00-0142	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit	34,597.73	227.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	136.63	
26 24 19 00-0143			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
			Note: Reduced volt, auto-transformer.		
26 24 19 00-0144	EA		230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination Starters With Current Limiting Circuit	7,760.79	103.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.37	
26 24 19 00-0145	EA		230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination Starters With Current Limiting Circuit	12,504.19	113.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.31	
26 24 19 00-0146	EA		230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit	21,141.64	128.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.22	
26 24 19 00-0147	EA		230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit	32,034.21	148.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.11	
26 24 19 00-0148	EA		230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit	52,713.18	198.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	118.80	
26 24 19 00-0149			480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
			Note: Reduced volt, auto-transformer.		
26 24 19 00-0150	EA		480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination Starters With Current Limiting Circuit	7,760.79	103.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.37	
26 24 19 00-0151	EA		480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit	12,504.19	113.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.31	
26 24 19 00-0152	EA		480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit	21,141.64	128.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.22	
26 24 19 00-0153	EA		480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit	32,034.21	148.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.11	
26 24 19 00-0154	EA		480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination Starters With Current Limiting Circuit	52,713.18	198.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	118.80	
26 24 19 00-0155			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
			Note: Reduced volt, part winding.		
26 24 19 00-0156	EA		230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination Starters With Current Limiting Circuit	5,548.96	158.41
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.04	
26 24 19 00-0157	EA		230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination Starters With Current Limiting Circuit	6,930.94	183.16
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.89	
26 24 19 00-0158	EA		230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination Starters With Current Limiting Circuit	12,193.82	202.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.77	
26 24 19 00-0159	EA		230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit	21,610.22	247.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	148.51	
26 24 19 00-0160	EA		230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit	31,886.71	316.82
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	190.10	
26 24 19 00-0161			480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
			Note: Reduced volt, part winding.		
26 24 19 00-0162	EA		480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination Starters With Current Limiting Circuit	5,548.96	158.41
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.04	
26 24 19 00-0163	EA		480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination Starters With Current Limiting Circuit	6,930.94	183.16
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.89	
26 24 19 00-0164	EA		480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit	12,193.82	202.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.77	
26 24 19 00-0165	EA		480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit	21,610.22	247.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	148.51	
26 24 19 00-0166	EA		480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination Starters With Current Limiting Circuit	31,886.71	316.82
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	190.10	
26 24 19 00-0167			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
			Note: Reduced volt, energy saving		
26 24 19 00-0168	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7.5 HP Combination Starters With Current Limiting Circuit	20,450.97	128.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.22	
26 24 19 00-0169	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination Starters With Current Limiting Circuit	21,647.40	158.41
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.04	
26 24 19 00-0170	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination Starters With Current Limiting Circuit	23,815.54	183.16
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.89	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0171 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit.....	35,649.71	202.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.77	
26 24 19 00-0172 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit.....	48,326.22	247.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	148.51	
26 24 19 00-0173 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit.....	67,734.56	316.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	190.10	
26 24 19 00-0174 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Reduced volt, energy saving		
26 24 19 00-0175 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination Starters With Current Limiting Circuit.....	20,451.02	128.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.24	
26 24 19 00-0176 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination Starters With Current Limiting Circuit.....	21,647.40	158.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.04	
26 24 19 00-0177 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit.....	23,815.54	183.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.89	
26 24 19 00-0178 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit.....	35,649.71	202.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.77	
26 24 19 00-0179 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit.....	48,326.22	247.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	148.51	
26 24 19 00-0180 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination Starters With Current Limiting Circuit.....	67,734.56	316.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	190.10	
26 24 19 00-0181 Combination Starters With Fusible Switch (26 24 19)		
Note: Includes NEMA 1 enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and Wired Internally.		
26 24 19 00-0182 230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)		
Note: 1-Speed non-reversing.		
26 24 19 00-0183 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,063.47	99.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	
26 24 19 00-0184 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,850.64	103.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.37	
26 24 19 00-0185 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	4,814.83	108.91
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.34	
26 24 19 00-0186 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	8,500.95	128.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.22	
26 24 19 00-0187 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	13,808.25	148.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.11	
26 24 19 00-0188 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	24,638.06	198.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	118.80	
26 24 19 00-0189 480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)		
Note: 1-Speed non-reversing.		
26 24 19 00-0190 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,063.47	99.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	
26 24 19 00-0191 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,850.64	103.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.37	
26 24 19 00-0192 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	4,814.83	108.91
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.34	
26 24 19 00-0193 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	8,500.95	128.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.22	
26 24 19 00-0194 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	13,808.25	148.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.11	
26 24 19 00-0195 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	24,638.06	198.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	118.80	
26 24 19 00-0196 230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)		
Note: 1-Speed reversing.		
26 24 19 00-0197 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	3,340.42	99.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	
26 24 19 00-0198 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	4,982.59	103.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.37	
26 24 19 00-0199 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	7,979.44	108.91
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.34	
26 24 19 00-0200 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	13,011.36	128.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.22	
26 24 19 00-0201 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	20,024.22	148.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.11	
26 24 19 00-0202 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	34,045.29	198.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	118.80	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0203			480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 1-Speed reversing.		
26 24 19 00-0204	EA		10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	3,340.42	99.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	
26 24 19 00-0205	EA		25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	4,982.59	103.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.37	
26 24 19 00-0206	EA		50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	7,979.44	108.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.34	
26 24 19 00-0207	EA		100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	13,011.36	128.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.22	
26 24 19 00-0208	EA		200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	20,024.22	148.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.11	
26 24 19 00-0209	EA		400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	34,045.29	198.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	118.80	
26 24 19 00-0210			230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0211	EA		10 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	3,907.80	158.41
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.04	
26 24 19 00-0212	EA		15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	5,380.01	168.31
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100.99	
26 24 19 00-0213	EA		30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	8,475.58	178.21
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	106.92	
26 24 19 00-0214	EA		50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	15,151.90	202.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.77	
26 24 19 00-0215	EA		100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	24,148.77	237.61
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	142.57	
26 24 19 00-0216			480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0217	EA		10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	3,907.80	158.41
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.04	
26 24 19 00-0218	EA		25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	5,380.01	168.31
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100.99	
26 24 19 00-0219	EA		50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	8,475.58	178.21
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	106.92	
26 24 19 00-0220	EA		100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	15,151.90	202.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.77	
26 24 19 00-0221	EA		200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	24,148.77	237.61
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	142.57	
26 24 19 00-0222			230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0223	EA		7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	4,468.57	99.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	
26 24 19 00-0224	EA		15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	6,819.18	103.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.37	
26 24 19 00-0225	EA		30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	9,822.69	108.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.34	
26 24 19 00-0226	EA		50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	19,809.17	128.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.22	
26 24 19 00-0227			480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0228	EA		10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	4,468.57	99.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	
26 24 19 00-0229	EA		25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	6,819.18	103.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.37	
26 24 19 00-0230	EA		50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	9,822.69	108.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.34	
26 24 19 00-0231	EA		100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	19,809.17	128.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.22	
26 24 19 00-0232			230 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small> Note: Auto-transformer.		
26 24 19 00-0233	EA		15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	6,772.54	103.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.37	
26 24 19 00-0234	EA		30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	11,964.54	113.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.31	
26 24 19 00-0235	EA		50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	19,940.19	128.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.22	
26 24 19 00-0236	EA		100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	26,626.60	148.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.11	
26 24 19 00-0237	EA		200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	44,738.35	198.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	118.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0238 480 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small>		
Note: Auto-transformer.		
26 24 19 00-0239 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer	6,772.54	103.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	62.37	
26 24 19 00-0240 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer	11,964.54	113.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	68.31	
26 24 19 00-0241 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	19,940.19	128.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	77.22	
26 24 19 00-0242 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	26,626.60	148.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	89.11	
26 24 19 00-0243 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	44,738.35	198.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	118.80	
26 24 19 00-0244 230 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small>		
Note: Part winding.		
26 24 19 00-0245 EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	4,809.44	158.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	95.04	
26 24 19 00-0246 EA 25 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	6,369.08	183.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	109.89	
26 24 19 00-0247 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	10,148.48	202.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	121.77	
26 24 19 00-0248 EA 75 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	20,244.44	247.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	148.51	
26 24 19 00-0249 480 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small>		
Note: Part winding.		
26 24 19 00-0250 EA 15 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	4,809.44	158.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	95.04	
26 24 19 00-0251 EA 40 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	6,369.08	183.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	109.89	
26 24 19 00-0252 EA 75 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	10,148.48	202.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	121.77	
26 24 19 00-0253 EA 150 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	20,244.44	247.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	148.51	
26 24 19 00-0254 230 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small>		
Note: Energy saver.		
26 24 19 00-0255 EA 7.5 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	19,811.39	128.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	77.22	
26 24 19 00-0256 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	21,016.70	158.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	95.04	
26 24 19 00-0257 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	23,207.05	183.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	109.89	
26 24 19 00-0258 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	35,145.59	202.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	121.77	
26 24 19 00-0259 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	47,935.36	247.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	148.51	
26 24 19 00-0260 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	65,054.07	316.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	190.10	
26 24 19 00-0261 480 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small>		
Note: Energy saver.		
26 24 19 00-0262 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	19,811.39	128.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	77.22	
26 24 19 00-0263 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	21,016.70	158.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	95.04	
26 24 19 00-0264 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	23,207.05	183.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	109.89	
26 24 19 00-0265 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	35,145.59	202.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	121.77	
26 24 19 00-0266 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	47,935.36	247.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	148.51	
26 24 19 00-0267 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	65,054.07	316.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	190.10	
26 24 19 00-0268 Starter Accessories <small>(26 24 19)</small>		
Note: Additional options or accessories for the Combination Starters		



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 24 19 00-0269		Starter Modifications <small>(26 24 19 00-0269)</small>	
26 24 19 00-0270	EA	Size 1, 2, 50 VA, 60 Hertz, Standard Control Circuit Transformer	174.56
26 24 19 00-0271	EA	Size 3, 4, 150 VA, 60 Hertz, Standard Control Circuit Transformer	346.44
26 24 19 00-0272	EA	Size 5, 6, 50 VA, 60 Hertz, Control Circuit Transformer.....	495.23
26 24 19 00-0273	EA	Extra 50 VA, 60 Hertz, Control Circuit Transformer, All Sizes	124.36
26 24 19 00-0274	EA	Extra 100 VA, 60 Hertz, Control Circuit Transformer, All Sizes	175.44
26 24 19 00-0275	EA	Extra 150 VA, 60 Hertz, Control Circuit Transformer, All Sizes	295.36
26 24 19 00-0276	EA	Overload Relay Heater Elements, 3 Per Starter	73.29
26 24 19 00-0277	EA	N.O. Overload Relay Alarm	62.18
26 24 19 00-0278	EA	Control Circuit Fuses, Primary/Secondary	112.60
26 24 19 00-0279	EA	Control Devices Type PB2 Mount On Device, 2 Unit Pushbutton	139.22
26 24 19 00-0280	EA	Control Devices Type PB2 Mount On Device, 3 Unit Pushbutton	272.29
26 24 19 00-0281	EA	Control Devices Type PB2 Mount On Device, 2 Or 3 Post Select	139.22
26 24 19 00-0282	EA	Control Devices Type PB2 Mount On Device, Individual Light Full V	159.69
26 24 19 00-0283	EA	Control Devices Type PB2 Mount On Device, Individual Light Transformer	192.45
26 24 19 00-0284	EA	Control Devices Type PB2 Mount On Device, Individual Light Push To	227.25
26 24 19 00-0285	EA	Blank Devices Panel	42.99
26 24 19 00-0286	EA	Oversize Or Special Color Starter.....	67.56
26 24 19 00-0287	EA	Mini Voltmeter/Ammeter With Current Transformer	592.71
26 24 19 00-0288	EA	Mini Elapsed Time Meters, Non Resettable	537.43
26 24 19 00-0289	EA	Panel Elapsed Time Meter, Resettable.....	798.45
26 24 19 00-0290	EA	Terminal Blocks, Side Mounted, Press Connection, Plug-In Press.....	67.56
26 24 19 00-0291	EA	Terminal Blocks, Side Mounted, Press Connection, Plug-In Screw	96.22
26 24 19 00-0292	EA	Terminal Blocks, Front Mounted, Press Connection, Standard	67.56
26 24 19 00-0293	EA	Terminal Blocks, Front Mounted, Press Connection, Plug-In.....	96.22
26 24 19 00-0294	EA	Terminal Blocks, Front Mounted, Press Connection, Screw-Type Utility	96.22
26 24 19 00-0295	EA	Terminal Blocks, Front Mounted, Press Connection, Plug-In Screw Type	139.22
26 24 19 00-0296	EA	MOR - A Solid State Modular Overload Relay	345.99
26 24 19 00-0297	EA	Heater Module	73.85
26 24 19 00-0298	EA	LAM - Long Acceleration Module	458.77
26 24 19 00-0299	EA	JAM - Jam Protection Module	525.90
26 24 19 00-0300	EA	PUM - Phase Unbalance Module.....	998.10
26 24 19 00-0301	EA	ULM - Underload Module.....	478.91
26 24 19 00-0302	EA	Wiring To Common Control Circuit Transformer.....	105.18
26 24 19 00-0303	EA	Handle Operator Separable Source Control Circuit	196.93
26 24 19 00-0304	EA	Type SIS Control Wire	82.80
26 24 19 00-0305	EA	Ring Or Spade Terminals Control.....	105.18
26 24 19 00-0306	EA	Ring Terminals Power.....	105.18
26 24 19 00-0307	EA	14 Gauge Control Wire	82.80
26 24 19 00-0308	EA	Wiremakers.....	105.18
26 24 19 00-0309	EA	Wiring Diagram On Door.....	62.66
26 24 19 00-0310	EA	Special Color Or Type Control Wire.....	76.09
26 24 19 00-0311	EA	Current Transformer 12.5 VA.....	597.52
26 24 19 00-0312	EA	Ground Fault Relay-Instant Non-Adjust, Size 1 Thru 4.....	1,908.92
26 24 19 00-0313	EA	Ground Fault Relay-Instant Non-Adjust, Size 5 Thru 6.....	2,148.37

26 24 19 00-0314		Control Relays And Special Components <small>(26 24 19 00-0268)</small>	
26 24 19 00-0315	EA	600 Volt, 2 Pole, Control Relays	494.54
26 24 19 00-0316	EA	600 Volt, 4 Pole, Control Relays	584.62
26 24 19 00-0317	EA	600 Volt, 6 Pole, Control Relays	684.61
26 24 19 00-0318	EA	600 Volt, 8 Pole, Control Relays	761.92
26 24 19 00-0319	EA	Pneumatic Timer, Control Relays	656.53
26 24 19 00-0320	EA	Motor Driven Timer, Control Relays.....	1,710.80
26 24 19 00-0321	EA	7 Days Time Switch, Control Relays.....	2,153.28
26 24 19 00-0322	EA	24 Hour Time Switch, Control Relays	603.81
26 24 19 00-0323	EA	Phase Voltage, Control Relays.....	1,027.12
26 24 19 00-0324	EA	Two Circuit Alternator, Control Relays	1,437.65
26 24 19 00-0325	EA	Manual 120 Volt, Control Relays.....	140.57
26 24 19 00-0326	EA	Over-Current Relay, Control Relays	4,269.89
26 24 19 00-0327	EA	UV-Relay, Control Relays.....	3,616.43
26 24 19 00-0328	EA	Over-Current Relay, Control Relays	3,616.43
26 24 19 00-0329	EA	Teleductor, Control Relays	1,059.07
26 24 19 00-0330	EA	Current Transducer, Control Relays	2,848.14
26 24 19 00-0331	EA	Watt Transducer, Control Relays.....	5,696.29
26 24 19 00-0332	EA	Control Relays, Blank, Add For Each 1x.....	193.28
26 24 19 00-0333	EA	Control Relays, Fixed Mounted Back Pan, 20" Structure With Wireway	289.13
26 24 19 00-0334	EA	Control Relays, Fixed Mounted Back Pan, 24" Structure With Wireway	325.87
26 24 19 00-0335	EA	Control Relays, Fixed Mounted Back Pan, 280" Structure With Wireway	362.61
26 24 19 00-0336	EA	Control Relays, Fixed Mounted Back Pan, 20" Structure Without Wireway	325.87
26 24 19 00-0337	EA	Control Relays, Fixed Mounted Back Pan, 24" Structure Without Wireway	362.61
26 24 19 00-0338	EA	Control Relays, Fixed Mounted Back Pan, 2820" Structure Without Wireway	381.78

26 24 19 00-0339		Circuit Breaker Modifications/Accessories <small>(26 24 19 00-0268)</small>	
26 24 19 00-0340	EA	Shunt Trip, Circuit Breaker.....	340.78
26 24 19 00-0341	EA	Auxiliary Switch, Circuit Breaker	117.71
26 24 19 00-0342	EA	Key Interlock, Circuit Breaker.....	423.36
26 24 19 00-0343	EA	GFR Ground Fault, Circuit Breaker.....	1,951.65
26 24 19 00-0344	EA	Seltronic Breaker, Circuit Breaker.....	1,130.55



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0345 Incoming Line And Feeder Circuit Breakers <small>(26 24 19 00-0268)</small>		
26 24 19 00-0346 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,443.07 38.61	64.35
26 24 19 00-0347 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,501.23 59.40	99.00
26 24 19 00-0348 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/100 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,415.54 38.61	64.35
26 24 19 00-0349 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/150 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,471.66 59.40	99.00
26 24 19 00-0350 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150/150 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,462.55 59.40	99.00
26 24 19 00-0351 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 250 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,749.03 77.24	128.71
26 24 19 00-0352 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 400 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,468.10 83.18	138.60
26 24 19 00-0353 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 600 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,894.23 106.88	178.21
26 24 19 00-0354 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 800 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,926.17 163.41	272.26
26 24 19 00-0355 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 1200 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,805.98 246.72	410.87
26 24 19 00-0356 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2000 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,538.67 326.44	544.53
26 24 19 00-0357 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2500 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,199.48 409.49	683.13
26 24 19 00-0358 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 3000 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53,761.07 475.63	791.94
26 24 19 00-0359 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,735.84 38.61	64.35
26 24 19 00-0360 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,785.81 59.40	99.00
26 24 19 00-0361 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,735.84 38.61	64.35
26 24 19 00-0362 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/50 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,785.81 59.40	99.00
26 24 19 00-0363 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/150 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,958.08 38.61	64.35
26 24 19 00-0364 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150/150 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,049.00 59.40	99.00
26 24 19 00-0365 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,027.61 59.40	99.00
26 24 19 00-0366 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 100 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,644.54 59.40	99.00
26 24 19 00-0367 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 400 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,696.87 163.41	272.26
26 24 19 00-0368 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-225 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,696.87 163.41	272.26
26 24 19 00-0369 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-400 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,028.69 178.13	297.01
26 24 19 00-0370 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-600 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,277.32 207.82	346.51
26 24 19 00-0371 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-800 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,975.22 246.72	410.87
26 24 19 00-0372 Incoming Line And Feeder Fusible Switches <small>(26 24 19 00-0268)</small>		
26 24 19 00-0373 EA 30 To 60 Amperes, Incoming Line And Feeder Fusible Switches.....	1,777.96	99.00
26 24 19 00-0374 EA Incoming Line And Feeder Fusible Switches, 30 Dual / 60 Dual	2,760.39	99.00
26 24 19 00-0375 EA 100 Amperes, Incoming Line And Feeder Fusible Switches.....	2,495.45	123.75
26 24 19 00-0376 EA 200 Amperes, Incoming Line And Feeder Fusible Switches.....	4,062.07	148.51
26 24 19 00-0377 EA 400 Amperes, Incoming Line And Feeder Fusible Switches.....	8,014.82	188.11
26 24 19 00-0378 EA 600 Amperes, Incoming Line And Feeder Fusible Switches.....	11,243.39	247.51
26 24 19 00-0379 EA 800 Amperes, Incoming Line And Feeder Fusible Switches.....	27,365.91	331.66
26 24 19 00-0380 EA 1,200 Amperes, Incoming Line And Feeder Fusible Switches.....	30,868.90	460.38
26 24 19 00-0381 Dry Type Distribution Transformers <small>(26 24 19 00-0268)</small>		
26 24 19 00-0382 EA 500 VA, Phase 1, Dry Type Distribution Transformers	1,396.26	
26 24 19 00-0383 EA 750 VA, Phase 1, Dry Type Distribution Transformers	1,441.30	
26 24 19 00-0384 EA 1,000 VA, Phase 1, Dry Type Distribution Transformers	1,488.39	
26 24 19 00-0385 EA 1,500 VA, Phase 1, Dry Type Distribution Transformers	1,707.45	
26 24 19 00-0386 EA 2,000 VA, Phase 1, Dry Type Distribution Transformers	1,850.77	
26 24 19 00-0387 EA 3,000 VA, Phase 1, Dry Type Distribution Transformers	2,401.25	
26 24 19 00-0388 EA 5,000 VA, Phase 1, Dry Type Distribution Transformers	2,518.19	
26 24 19 00-0389 EA 7,500 VA, Phase 1, Dry Type Distribution Transformers	2,837.57	
26 24 19 00-0390 EA 9,000 VA, Phase 3, Dry Type Distribution Transformers	6,596.42	
26 24 19 00-0391 EA 10,000 VA, Phase 1, Dry Type Distribution Transformers	3,500.90	
26 24 19 00-0392 EA 15,000 VA, Phase 1, Dry Type Distribution Transformers	4,850.07	
26 24 19 00-0393 EA 15,000 VA, Phase 3, Dry Type Distribution Transformers	7,558.66	
26 24 19 00-0394 EA 20,000 VA, Phase 1, Dry Type Distribution Transformers	6,999.74	
26 24 19 00-0395 EA 30,000 VA, Phase 1, Dry Type Distribution Transformers	9,700.14	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0396 EA 30,000 VA, Phase 3, Dry Type Distribution Transformers	11,480.36	
26 24 19 00-0397 EA 45,000 VA, Phase 1, Dry Type Distribution Transformers	15,902.43	
26 24 19 00-0398 Metering Equipment (26 24 19 00-0268)		
26 24 19 00-0399 EA Metering Equipment, Voltmeter, Panel Type	659.23	
26 24 19 00-0400 EA Metering Equipment, Voltmeter, Switchboard Type	1,441.30	
26 24 19 00-0401 EA Metering Equipment, Ammeter, Panel	593.72	
26 24 19 00-0402 EA Metering Equipment, Ammeter, Switchboard Type	1,441.30	
26 24 19 00-0403 EA Metering Equipment, Voltmeter/Ammeter, Switch	800.50	
26 24 19 00-0404 EA Metering Equipment, Control Switch, 4 Circuits	849.63	
26 24 19 00-0405 EA Add For Additional Circuits	123.08	
26 24 19 00-0406 EA Metering Equipment, Indicating Wattmeter	2,972.69	
26 24 19 00-0407 EA Metering Equipment, Indicating Power Factor	3,113.95	
26 24 19 00-0408 EA Metering Equipment, Integrating Watt-hour	2,745.44	
26 24 19 00-0409 EA Add For Demand Attachment	805.64	
26 24 19 00-0410 EA 800 Amperes, Metering Equipment, Current Transformer	820.97	
26 24 19 00-0411 EA 1,000 Amperes, Metering Equipment, Current Transformer	1,416.74	
26 24 19 00-0412 EA 2,000 Amperes, Metering Equipment, Current Transformer	1,650.13	
26 24 19 00-0413 EA Metering Equipment, Potential Transformer	1,375.79	
26 24 19 00-0414 EA Metering Equipment, Surge Arrester	1,480.20	
26 24 19 00-0415 EA Metering Equipment, Ground Detector System	1,132.16	
26 24 19 00-0416 Current Limiting Reactors (26 24 19 00-0268)		
26 24 19 00-0417 EA 600 Amperes, Current Limiting Reactors	25,269.92	
26 24 19 00-0418 EA 800 Amperes, Current Limiting Reactors	36,800.35	
26 24 19 00-0419 EA 1,000 Amperes, Current Limiting Reactors	48,357.40	
26 24 19 00-0420 EA 1,200 Amperes, Current Limiting Reactors	73,608.89	
26 24 19 00-0421 Incoming Line Cable Space Requirements, Main Lugs Only (26 24 19 00-0268)		
26 24 19 00-0422 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Screw	481.91	
26 24 19 00-0423 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Crimp	481.91	
26 24 19 00-0424 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Screw	666.24	
26 24 19 00-0425 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Crimp	1,219.21	
26 24 19 00-0426 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Screw	666.24	
26 24 19 00-0427 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Crimp	850.56	
26 24 19 00-0428 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Screw	850.56	
26 24 19 00-0429 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Crimp	1,216.99	
26 24 19 00-0430 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Screw	850.56	
26 24 19 00-0431 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Crimp	1,216.99	
26 24 19 00-0432 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Screw	1,034.88	
26 24 19 00-0433 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Crimp	3,355.60	
26 24 19 00-0434 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Screw	1,034.88	
26 24 19 00-0435 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Crimp	1,216.99	
26 24 19 00-0436 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Screw	3,355.60	
26 24 19 00-0437 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Crimp	3,355.60	
26 24 19 00-0438 EA Bus Duct Transition Pull Box	1,015.35	
26 24 19 00-0439 EA Throat And Transition To Substation	1,960.12	
26 24 19 00-0440 EA Service Entrance Label	424.49	
26 24 19 00-0441 EA Type W To 5 Star - 10" Transition	887.30	
26 24 19 00-0442 EA 600 Amperes, Sub Feed Lugs On Main Bus	534.86	
26 24 19 00-0443 Standard Structures And Structure Options/Modifications (26 24 19 00-0268)		
26 24 19 00-0444 EA Standard Structure Add For Each Additional 4" Of Structure Width	280.30	
26 24 19 00-0445 EA Standard Structure Add For 8" Vertical Wireway In Lieu Of 4"	280.30	
26 24 19 00-0446 EA Standard Structure Single Corner Section "L", 16" Depth	867.13	
26 24 19 00-0447 EA Standard Structure Single Corner Section "L", 21" Depth	978.04	
26 24 19 00-0448 EA Standard Structure Unused Space/Future Space	83.69	
26 24 19 00-0449 EA Standard Structure NEMA 12 Dustproof	225.86	
26 24 19 00-0450 EA Standard Structure Bottom Plate For NEMA 1 Gasket Enclosure	47.39	
26 24 19 00-0451 EA Standard Structure 150 Watt Space	203.67	
26 24 19 00-0452 EA Standard Structure Thermostat For Space Heater Control	651.23	
26 24 19 00-0453 EA Standard Structure Rear Hinged Structure Door, 72" High	203.67	
26 24 19 00-0454 EA Standard Structure NEMA 2 Drip Shield On Top Of MCC	420.72	
26 24 19 00-0455 EA Standard Structure NEMA 3R N-Walk In Front Mounted	6,002.02	
26 24 19 00-0456 EA Standard Structure NEMA 3R N-Walk In Back-to-back	6,937.45	
26 24 19 00-0457 EA Standard Structure NEMA 3R Walk-In Aisle Front Mounted	6,944.17	
26 24 19 00-0458 Installation Hours For Vertical Sections (26 24 19 00-0268)		
26 24 19 00-0459 EA Install Vertical Section, 230/480 Volt, 1 Section, 600 Amperes	594.01	297.01
26 24 19 00-0460 EA Install Vertical Section, 230/480 Volt, 2 Section, 600 Amperes	891.01	445.53
26 24 19 00-0461 EA Install Vertical Section, 230/480 Volt, 3 Section, 600 Amperes	990.05	495.03
26 24 19 00-0462 EA Install Vertical Section, 230/480 Volt, 4 Section, 600 Amperes	1,188.17	594.03
26 24 19 00-0463 EA Bolt To Floor, Vertical Section, 230/480 Volt, 600 Amperes	99.00	49.50
26 24 19 00-0464 EA Install Vertical Section, 230/480 Volt, 1 Section, 800 Amperes	594.01	297.01
26 24 19 00-0465 EA Install Vertical Section, 230/480 Volt, 2 Section, 800 Amperes	891.01	445.53



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0466 EA Install Vertical Section, 230/480 Volt, 3 Section, 800 Amperes	990.05	495.03
26 24 19 00-0467 EA Install Vertical Section, 230/480 Volt, 4 Section, 800 Amperes	1,188.17	594.03
26 24 19 00-0468 EA Bolt To Floor, Vertical Section, 230/480 Volt, 800 Amperes	99.00	49.50
26 24 19 00-0469 EA Install Vertical Section, 230/480 Volt, 1 Section, 1,200 Amperes	693.05	346.51
26 24 19 00-0470 EA Install Vertical Section, 230/480 Volt, 2 Section, 1,200 Amperes	891.01	445.53
26 24 19 00-0471 EA Install Vertical Section, 230/480 Volt, 3 Section, 1,200 Amperes	1,188.17	594.03
26 24 19 00-0472 EA Install Vertical Section, 230/480 Volt, 4 Section, 1,200 Amperes	1,385.89	692.94
26 24 19 00-0473 EA Bolt To Floor, Vertical Section, 230/480 Volt, 1,200 Amperes	148.50	74.25
26 24 19 00-0474 EA Install Vertical Section, 230/480 Volt, 1 Section, 1,600 Amperes	792.04	396.01
26 24 19 00-0475 EA Install Vertical Section, 230/480 Volt, 2 Section, 1,600 Amperes	1,089.14	544.53
26 24 19 00-0476 EA Install Vertical Section, 230/480 Volt, 3 Section, 1,600 Amperes	1,385.89	692.94
26 24 19 00-0477 EA Install Vertical Section, 230/480 Volt, 4 Section, 1,600 Amperes	1,583.81	791.94
26 24 19 00-0478 EA Bolt To Floor, Vertical Section, 230/480 Volt, 1,600 Amperes	198.01	99.00
26 24 19 00-0479 EA Install Vertical Section, 230/480 Volt, 1 Section, 2,000 Amperes	792.04	396.01
26 24 19 00-0480 EA Install Vertical Section, 230/480 Volt, 2 Section, 2,000 Amperes	1,188.17	594.03
26 24 19 00-0481 EA Install Vertical Section, 230/480 Volt, 3 Section, 2,000 Amperes	1,484.92	742.44
26 24 19 00-0482 EA Install Vertical Section, 230/480 Volt, 4 Section, 2,000 Amperes	1,683.19	841.64
26 24 19 00-0483 EA Bolt To Floor, Vertical Section, 230/480 Volt, 2,000 Amperes	198.01	99.00
26 24 19 00-0484 Motor Control Centers (26 24 19)		
26 24 19 00-0485 2.4 KV Motor Control Centers (26 24 19 00-0484)		
26 24 19 00-0486 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 100 To 300 Hp	16,696.24	198.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.80	
26 24 19 00-0487 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 400 Hp	16,696.24	198.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.80	
26 24 19 00-0488 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 600 Hp	16,696.24	198.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.80	
26 24 19 00-0489 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 700 Hp	16,745.78	222.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	133.67	
26 24 19 00-0490 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,000 Hp	17,782.24	247.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	148.51	
26 24 19 00-0491 EA 2,400 KV CL 11-202, Squirrel Cage Motor Control, 1,250 Hp	17,831.72	272.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	163.35	
26 24 19 00-0492 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,500 Hp	17,881.22	297.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	178.20	
26 24 19 00-0493 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,750 Hp	17,980.26	346.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	207.92	
26 24 19 00-0494 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,000 Hp	18,079.25	396.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	237.61	
26 24 19 00-0495 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,250 Hp	30,480.66	445.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	267.30	
26 24 19 00-0496 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,500 Hp	32,713.18	495.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	297.02	
26 24 19 00-0497 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 100 Hp	24,787.53	198.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.80	
26 24 19 00-0498 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 150 Hp	25,822.18	212.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	127.72	
26 24 19 00-0499 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 200 Hp	29,337.16	232.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	139.60	
26 24 19 00-0500 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 300 Hp	32,656.83	247.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	148.51	
26 24 19 00-0501 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 400 Hp	35,527.53	287.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	172.28	
26 24 19 00-0502 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 600 Hp	38,926.85	306.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	184.15	
26 24 19 00-0503 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 700 Hp	42,324.16	326.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	196.02	
26 24 19 00-0504 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,000 Hp	46,353.50	356.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	213.86	
26 24 19 00-0505 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,250 Hp	53,943.74	396.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	237.61	
26 24 19 00-0506 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,500 Hp	58,445.71	420.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	252.48	
26 24 19 00-0507 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,750 Hp	89,280.46	495.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	297.02	
26 24 19 00-0508 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,000 Hp	95,122.01	544.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	326.74	
26 24 19 00-0509 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,250 Hp	100,205.82	594.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	356.45	
26 24 19 00-0510 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,500 Hp	109,114.05	643.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	386.19	
26 24 19 00-0511 EA 2.4 KV CL 14-202, Synchronous Motor Control, 100 To 300 Hp	23,385.81	198.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.80	
26 24 19 00-0512 EA 2.4 KV CL 14-202, Synchronous Motor Control, 400 Hp	23,435.35	222.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	133.67	
26 24 19 00-0513 EA 2.4 KV CL 14-202, Synchronous Motor Control, 600 Hp	23,484.83	247.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	148.51	
26 24 19 00-0514 EA 2.4 KV CL 14-202, Synchronous Motor Control, 700 Hp	23,534.31	272.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	163.35	
26 24 19 00-0515 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,000 Hp	23,587.80	297.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	178.20	

26 Electrical

26 20 Low-Voltage Electrical Distribution

26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24	19 00-0516	EA	2,400 Volt CL 14-202, Synchronous Motor Control, 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,637.34 193.07	321.76
26 24	19 00-0517	EA	2.4 KV CL 14-202, Synchronous Motor Control, 1,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,686.84 207.92	346.51
26 24	19 00-0518	EA	2.4 KV CL 14-202, Synchronous Motor Control, 1,750 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,884.80 267.30	445.53
26 24	19 00-0519	EA	2.4 KV CL 14-202, Synchronous Motor Control, 2,000 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40,738.68 297.02	495.03
26 24	19 00-0520	EA	2.4 KV CL 14-202, Synchronous Motor Control, 2,250 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40,837.77 326.74	544.53
26 24	19 00-0521	EA	2.4 KV CL 14-202, Synchronous Motor Control, 2,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43,058.32 356.45	594.03
26 24	19 00-0522	EA	Add For Reversing Starters, 100 To 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,190.55 59.40	
26 24	19 00-0523	EA	Add For Reversing Starters, 1,000 To 1,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,469.70 59.40	
26 24	19 00-0524	EA	Add For Reversing Starters, 1,750 To 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,504.33 59.40	
26 24 19 00-0525 4.8 KV Motor Control Centers (26 24 19 00-0484)					
26 24	19 00-0526	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 100 To 600 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,160.37 178.20	297.01
26 24	19 00-0527	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,209.91 193.07	321.76
26 24	19 00-0528	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,259.41 207.92	346.51
26 24	19 00-0529	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,308.94 222.77	371.26
26 24	19 00-0530	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,335.42 237.61	396.01
26 24	19 00-0531	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,750 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,384.98 252.48	420.78
26 24	19 00-0532	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,434.39 267.30	445.53
26 24	19 00-0533	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,483.98 282.18	470.28
26 24	19 00-0534	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,533.43 297.02	495.03
26 24	19 00-0535	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33,120.09 386.19	643.63
26 24	19 00-0536	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33,218.69 415.77	692.94
26 24	19 00-0537	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35,441.24 445.48	742.44
26 24	19 00-0538	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35,540.13 475.14	791.94
26 24	19 00-0539	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 100 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,268.67 178.20	297.01
26 24	19 00-0540	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 150 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,597.35 193.07	321.76
26 24	19 00-0541	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 200 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,854.01 207.92	346.51
26 24	19 00-0542	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 300 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33,183.52 222.77	371.26
26 24	19 00-0543	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 400 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36,024.46 237.61	396.01
26 24	19 00-0544	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 600 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39,433.76 252.48	420.78
26 24	19 00-0545	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42,633.55 267.30	445.53
26 24	19 00-0546	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46,860.39 282.18	470.28
26 24	19 00-0547	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54,287.31 297.02	495.03
26 24	19 00-0548	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59,333.57 311.87	519.78
26 24	19 00-0549	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,750 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64,429.34 341.58	569.28
26 24	19 00-0550	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 2,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68,644.20 356.45	594.03
26 24	19 00-0551	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 2,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	72,619.61 371.27	618.78
26 24	19 00-0552	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78,182.49 386.19	643.63
26 24	19 00-0553	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 3,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123,960.14 475.14	791.94
26 24	19 00-0554	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 3,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	137,857.39 504.96	841.64
26 24	19 00-0555	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 4,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	165,721.43 534.60	891.04
26 24	19 00-0556	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	175,302.17 534.60	891.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0557 EA 4.8 KV CL 14-202, Synchronous Motor Control, 100 To 600 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,945.00 207.92	346.51
26 24 19 00-0558 EA 4.8 KV CL 14-202, Synchronous Motor Control, 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,994.53 222.77	371.26
26 24 19 00-0559 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,043.99 237.61	396.01
26 24 19 00-0560 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,093.55 252.48	420.78
26 24 19 00-0561 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,244.54 267.30	445.53
26 24 19 00-0562 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,750 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,294.13 282.18	470.28
26 24 19 00-0563 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,343.58 297.02	495.03
26 24 19 00-0564 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,393.10 311.87	519.78
26 24 19 00-0565 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,442.67 326.74	544.53
26 24 19 00-0566 EA 4.8 KV CL 14-202, Synchronous Motor Control, 3,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,739.42 415.77	692.94
26 24 19 00-0567 EA 4.8 KV CL 14-202, Synchronous Motor Control, 3,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44,872.44 445.48	742.44
26 24 19 00-0568 EA 4.8 KV CL 14-202, Synchronous Motor Control, 4,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47,084.87 475.14	791.94
26 24 19 00-0569 EA 4.8 KV CL 14-202, Synchronous Motor Control, 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47,084.87 475.14	791.94
26 24 19 00-0570 EA Add For Reversing Starters, 100 To 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,213.73 59.40	
26 24 19 00-0571 EA Add For Reversing Starters, 1,500 To 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,524.64 59.40	
26 24 19 00-0572 EA Add For Reversing Starters, 3,000 To 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,132.12 59.40	
26 24 19 00-0573 2.4/4.8 KV Motor Control Centers, Accessories (26 24 19 00-0484)		
26 24 19 00-0574 EA 2.4/4.8 KV Load Break Disconnect Switch 600 Amperes	13,276.54	198.01
26 24 19 00-0575 EA 2.4/4.8 KV Load Break Disconnect Switch 1,200 Amperes	15,941.83	297.01
26 24 19 00-0576 EA 2.4/4.8 KV NEMA 3 Weather Resistant	5,243.26	
26 24 19 00-0577 EA 2.4/4.8 KV Space Heaters	231.75	14.85
26 24 19 00-0578 EA 2.4/4.8 KV Potential Transformer Fused.....	1,519.01	
26 24 19 00-0579 EA 2.4/4.8 KV Current Transformer 600 Volt, 5 KVA	815.03	
26 24 19 00-0580 EA 2.4/4.8 KV Control Transformer 4 KVA Max	2,427.31	
26 24 19 00-0581 EA 2.4/4.8 KV Pushbuttons Each.....	155.45	
26 24 19 00-0582 EA 2.4/4.8 KV Selector Switch Each	515.22	
26 24 19 00-0583 EA 2.4/4.8 KV Indicating Light.....	155.45	
26 24 19 00-0584 EA 2.4/4.8 KV Push To Test Light.....	470.81	
26 24 19 00-0585 EA 2.4/4.8 KV AC Voltmeter, Switchboard Type	1,252.52	
26 24 19 00-0586 EA 2.4/4.8 KV AC Ammeter, Switchboard Type	1,252.52	
26 24 19 00-0587 EA 2.4/4.8 KV Power Factor Meter.....	3,746.46	
26 24 19 00-0588 EA 2.4/4.8 KV Watt Hr Meter, 2 Element Drawout	2,582.77	
26 24 19 00-0589 EA 2.4/4.8 KV Operation Counter.....	500.51	14.85
26 24 19 00-0590 EA 2.4/4.8 KV Phase Failure Protection.....	3,612.28	49.50
26 24 19 00-0591 EA 2.4/4.8 KV Ground Protection.....	6,916.16	24.75
26 24 19 00-0592 EA 2.4/4.8 KV Synchronous Motor DC Protection.....	2,769.20	24.75
26 24 19 00-0593 EA 2.4/4.8 KV Lightning Arresters.....	4,937.39	14.85
26 24 19 00-0594 EA 2.4/4.8 KV Portable Lifting Mechanism.....	7,153.72	
26 24 19 00-0595 EA 2.4/4.8 KV Auxiliary Timing Relay.....	572.39	49.50
26 24 19 00-0596 EA 2.4/4.8 KV Auxiliary Control Relay.....	412.05	49.50
26 24 19 00-0597 Incoming Section And Feeder Air Circuit Breakers (26 24 19 00-0484)		
Note: 3 Pole. Includes structure.		
26 24 19 00-0598 EA Incoming Section MCC, Air Circuit Breaker, 70 - 100 Amperes, 14,000 Ampere IC, 3-Pole, With Structure Included.....	1,202.50	296.94
26 24 19 00-0599 EA Incoming Section MCC, Air Circuit Breaker, 125 - 225 Amperes, 22,000 Ampere IC, 3-Pole, With Structure Included.....	2,083.78	525.62
26 24 19 00-0600 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	2,475.79	673.00
26 24 19 00-0601 EA Incoming Section MCC, Air Circuit Breaker, 125 - 600 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	3,984.52	1,083.74
26 24 19 00-0602 EA Incoming Section MCC, Air Circuit Breaker, 125 - 1,200 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	4,702.33	1,192.12
26 24 19 00-0603 EA Incoming Section MCC, Air Circuit Breaker, 125 - 2,000 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	6,136.70	1,322.17
26 24 19 00-0604 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 45,000 Ampere IC, 3-Pole, With Structure Included.....	7,138.41	1,549.75
26 24 19 00-0605 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 100,000 Ampere IC, 3-Pole, With Structure Included.....	12,629.94	1,805.51
26 24 19 00-0606 Main Lugs Only (26 24 19 00-0484)		
26 24 19 00-0607 EA 600 Amperes Incoming Section, Main Lugs.....	916.96	379.31
26 24 19 00-0608 EA 800 Amperes Incoming Section, Main Lugs.....	993.68	379.31

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0609	EA		1,200 Amperes Incoming Section, Main Lugs.....	1,382.78	596.05
26 24 19 00-0610	EA		2,000 Amperes Incoming Section, Main Lugs.....	3,515.01	1,083.74
26 24 19 00-0611	EA		3,000 Amperes Incoming Section, Main Lugs.....	5,363.52	1,571.42
26 24 19 00-0612	EA		4,000 Amperes Incoming Section, Main Lugs.....	7,690.21	2,167.48
26 24 19 00-0613			Incoming Main Circuit Breaker Structure <small>(26 24 19 00-0484)</small>		
			Note: Includes structure, main breaker, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.		
26 24 19 00-0614	EA		225 Amperes, Main Circuit Breaker Section.....	6,748.38	524.43
			<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
			<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
			<i>For NEMA 1 With Gaskets, Add</i>	97.00	
			<i>For NEMA 12, Add</i>	245.00	
			<i>For 20" Cabinet Depth, Add</i>	108.00	
26 24 19 00-0615	EA		400 Amperes, Main Circuit Breaker Section.....	14,454.12	673.66
			<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
			<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
			<i>For NEMA 1 With Gaskets, Add</i>	97.00	
			<i>For NEMA 12, Add</i>	245.00	
			<i>For 20" Cabinet Depth, Add</i>	108.00	
26 24 19 00-0616	EA		600 Amperes, Main Circuit Breaker Section.....	14,905.17	1,049.27
			<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
			<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
			<i>For NEMA 1 With Gaskets, Add</i>	97.00	
			<i>For NEMA 12, Add</i>	245.00	
			<i>For 20" Cabinet Depth, Add</i>	108.00	
26 24 19 00-0617	EA		800 Amperes, Main Circuit Breaker Section.....	21,307.50	1,049.27
			<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
			<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
			<i>For NEMA 1 With Gaskets, Add</i>	97.00	
			<i>For NEMA 12, Add</i>	245.00	
			<i>For 20" Cabinet Depth, Add</i>	108.00	
26 24 19 00-0618	EA		1,200 Amperes, Main Circuit Breaker Section.....	30,937.32	1,187.24
			<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
			<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
			<i>For NEMA 1 With Gaskets, Add</i>	97.00	
			<i>For NEMA 12, Add</i>	245.00	
			<i>For 20" Cabinet Depth, Add</i>	108.00	
26 24 19 00-0619			Incoming Fusible Main Disconnect Section <small>(26 24 19 00-0484)</small>		
			Note: Includes structure, fuses, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.		
26 24 19 00-0620	EA		200 Amperes, Fusible Main Disconnect Section.....	5,839.27	525.07
			<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
			<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
			<i>For NEMA 1 With Gaskets, Add</i>	97.00	
			<i>For NEMA 12, Add</i>	245.00	
			<i>For 20" Cabinet Depth, Add</i>	108.00	
26 24 19 00-0621	EA		400 Amperes, Fusible Main Disconnect Section.....	8,077.38	673.98
			<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
			<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
			<i>For NEMA 1 With Gaskets, Add</i>	97.00	
			<i>For NEMA 12, Add</i>	245.00	
			<i>For 20" Cabinet Depth, Add</i>	108.00	
26 24 19 00-0622	EA		600 Amperes, Fusible Main Disconnect Section.....	15,858.26	1,050.15
			<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
			<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
			<i>For NEMA 1 With Gaskets, Add</i>	97.00	
			<i>For NEMA 12, Add</i>	245.00	
			<i>For 20" Cabinet Depth, Add</i>	108.00	
26 24 19 00-0623	EA		800 Amperes, Fusible Main Disconnect Section.....	18,484.62	1,050.15
			<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
			<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
			<i>For NEMA 1 With Gaskets, Add</i>	97.00	
			<i>For NEMA 12, Add</i>	245.00	
			<i>For 20" Cabinet Depth, Add</i>	108.00	
26 24 19 00-0624	EA		1,200 Amperes, Fusible Main Disconnect Section.....	26,118.51	1,188.32
			<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
			<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
			<i>For NEMA 1 With Gaskets, Add</i>	97.00	
			<i>For NEMA 12, Add</i>	245.00	
			<i>For 20" Cabinet Depth, Add</i>	108.00	
26 24 19 00-0625			Circuit Breaker Combination Starters <small>(26 24 19 00-0484)</small>		
26 24 19 00-0626			Class I, Type A <small>(26 24 19 00-0625)</small>		
26 24 19 00-0627	EA		Size 1, Class I, Type A Circuit Breaker Combination Starter.....	1,013.32	220.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	125.43	
26 24 19 00-0628	EA		Size 2, Class I, Type A Circuit Breaker Combination Starter.....	1,181.63	220.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.94	
26 24 19 00-0629	EA		Size 3, Class I, Type A Circuit Breaker Combination Starter.....	1,721.47	312.12
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	186.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0630 EA Size 4, Class I, Type A Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,827.12 246.31	410.74
26 24 19 00-0631 EA Size 5, Class I, Type A Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,119.76 307.88	513.69
26 24 19 00-0632 Class I, Type B <small>(26 24 19 00-0625)</small>		
26 24 19 00-0633 EA Size 1, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	963.29 108.37	191.82
26 24 19 00-0634 EA Size 2, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,125.31 122.04	191.82
26 24 19 00-0635 EA Size 3, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,654.39 166.73	277.44
26 24 19 00-0636 EA Size 4, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,758.70 225.78	376.06
26 24 19 00-0637 EA Size 5, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,064.58 291.33	480.10
26 24 19 00-0638 Class I, Type C <small>(26 24 19 00-0625)</small>		
26 24 19 00-0639 EA Size 1, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,021.47 98.17	177.73
26 24 19 00-0640 EA Size 2, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,192.90 115.29	177.73
26 24 19 00-0641 EA Size 3, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,777.09 159.37	265.52
26 24 19 00-0642 EA Size 4, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,887.56 220.28	367.39
26 24 19 00-0643 EA Size 5, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,185.85 282.23	471.43
26 24 19 00-0644 Class II, Type B <small>(26 24 19 00-0625)</small>		
26 24 19 00-0645 EA Size 1, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,006.88 148.87	263.35
26 24 19 00-0646 EA Size 2, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,404.40 166.22	263.35
26 24 19 00-0647 EA Size 3, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,998.67 210.03	351.13
26 24 19 00-0648 EA Size 4, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,287.14 270.93	449.75
26 24 19 00-0649 EA Size 5, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,981.47 330.41	549.46
26 24 19 00-0650 Class II, Type C <small>(26 24 19 00-0625)</small>		
26 24 19 00-0651 EA Size 1, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,270.74 142.60	249.26
26 24 19 00-0652 EA Size 2, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,461.65 155.71	249.26
26 24 19 00-0653 EA Size 3, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,127.03 203.71	340.29
26 24 19 00-0654 EA Size 4, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,408.06 263.05	438.92
26 24 19 00-0655 EA Size 5, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,117.61 326.43	541.87
26 24 19 00-0656 Fused Disconnect Combination Starter <small>(26 24 19 00-0484)</small>		
26 24 19 00-0657 Class I, Type A <small>(26 24 19 00-0656)</small>		
26 24 19 00-0658 EA Size 1, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	922.66 122.04	202.66
26 24 19 00-0659 EA Size 2, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,395.61 166.22	277.44
26 24 19 00-0660 EA Size 3, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,229.82 216.75	360.88
26 24 19 00-0661 EA Size 4, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,048.38 304.42	506.11
26 24 19 00-0662 EA Size 5, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,376.36 387.05	644.82
26 24 19 00-0663 Class I, Type B <small>(26 24 19 00-0656)</small>		
26 24 19 00-0664 EA Size 1, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	943.51 108.37	180.99
26 24 19 00-0665 EA Size 2, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,270.00 148.87	248.17
26 24 19 00-0666 EA Size 3, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,884.25 199.22	331.62
26 24 19 00-0667 EA Size 4, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,163.05 288.23	479.01

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0668 EA Size 5, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,476.19 366.13	609.07
26 24 19 00-0669 Class I, Type C <small>(26 24 19 00-0656)</small>		
26 24 19 00-0670 EA Size 1, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,001.82 101.48	169.07
26 24 19 00-0671 EA Size 2, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,346.02 138.94	229.76
26 24 19 00-0672 EA Size 3, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,053.75 193.52	319.70
26 24 19 00-0673 EA Size 4, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,331.53 282.23	471.43
26 24 19 00-0674 EA Size 5, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,176.80 361.25	602.56
26 24 19 00-0675 Class II, Type B <small>(26 24 19 00-0656)</small>		
26 24 19 00-0676 EA Size 1, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,186.32 152.21	253.60
26 24 19 00-0677 EA Size 2, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,534.30 189.47	316.45
26 24 19 00-0678 EA Size 3, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,232.21 244.09	407.49
26 24 19 00-0679 EA Size 4, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,650.85 330.41	549.46
26 24 19 00-0680 EA Size 5, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,298.70 410.51	686.01
26 24 19 00-0681 Class II, Type C <small>(26 24 19 00-0656)</small>		
26 24 19 00-0682 EA Size 1, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,235.58 142.60	238.42
26 24 19 00-0683 EA Size 2, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,609.95 179.43	299.11
26 24 19 00-0684 EA Size 3, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,375.70 233.56	389.06
26 24 19 00-0685 EA Size 4, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,803.20 322.54	536.46
26 24 19 00-0686 EA Size 5, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,446.95 398.43	664.33
26 24 19 00-0687 Space Complete With Bus And Hardware <small>(26 24 19 00-0484)</small>		
26 24 19 00-0688 Circuit Breaker Type <small>(26 24 19 00-0687)</small>		
26 24 19 00-0689 EA Circuit Breaker Type, Size 1 Space Complete With Bus And Hardware.....	283.08	73.69
26 24 19 00-0690 EA Circuit Breaker Type, Size 2 Space Complete With Bus And Hardware.....	283.08	73.69
26 24 19 00-0691 EA Circuit Breaker Type, Size 3 Space Complete With Bus And Hardware.....	421.06	107.30
26 24 19 00-0692 EA Circuit Breaker Type, Size 4 Space Complete With Bus And Hardware.....	496.91	140.89
26 24 19 00-0693 EA Circuit Breaker Type, Size 5 Space Complete With Bus And Hardware.....	838.91	214.58
26 24 19 00-0694 Fused Disconnect Type <small>(26 24 19 00-0687)</small>		
26 24 19 00-0695 EA Fused Disconnect Type, Size 1 Space Complete With Bus And Hardware.....	283.08	73.69
26 24 19 00-0696 EA Fused Disconnect Type, Size 2 Space Complete With Bus And Hardware.....	373.25	107.30
26 24 19 00-0697 EA Fused Disconnect Type, Size 3 Space Complete With Bus And Hardware.....	520.31	140.89
26 24 19 00-0698 EA Fused Disconnect Type, Size 4 Space Complete With Bus And Hardware.....	904.19	214.58
26 24 19 00-0699 EA Fused Disconnect Type, Size 5 Space Complete With Bus And Hardware.....	1,257.73	312.12
26 24 19 00-0700 Blank Space For Future Expansion <small>(26 24 19 00-0687)</small>		
Note: Factory modified no labor costs.		
26 24 19 00-0701 EA Blank Space For Future Expansion, Size 1 Factory Modified, No Crew Costs.....	136.23	
26 24 19 00-0702 EA Blank Space For Future Expansion, Size 2 Factory Modified, No Crew Costs.....	136.23	
26 24 19 00-0703 EA Blank Space For Future Expansion, Size 3 Factory Modified, No Crew Costs.....	206.54	
26 24 19 00-0704 EA Blank Space For Future Expansion, Size 4 Factory Modified, No Crew Costs.....	206.54	
26 24 19 00-0705 EA Blank Space For Future Expansion, Size 5 Factory Modified, No Crew Costs.....	410.89	
26 24 19 00-0706 Structure Combination Of Starters To 72" High <small>(26 24 19 00-0687)</small>		
26 24 19 00-0707 EA Structure Combination Of Starters To 72" High.....	3,355.38	570.37
26 24 19 00-0708 Motor Control Center Basic Distribution Section <small>(26 24 19 00-0484)</small>		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0709	EA		20" Wide Basic Section With Vertical Wireway..... <i>For 20" Cabinet Depth, Add</i> <i>For 800 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,600 Amperes, Tin Plated Copper Bus, Add</i> <i>For 2,000 Amperes, Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gasket, Add</i> <i>For NEMA 12, Add</i> <i>For 600 Amperes, Tin Plated Copper Vertical, Add</i>	5,511.36 108.00 182.00 334.00 402.00 506.00 97.00 245.00 210.00	1,485.37
26 24 19 00-0710	EA		25"-35" Wide Basic Section (No Vertical Wireway)..... <i>For 20" Cabinet Depth, Add</i> <i>For 800 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,600 Amperes, Tin Plated Copper Bus, Add</i> <i>For 2,000 Amperes, Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gasket, Add</i> <i>For NEMA 12, Add</i> <i>For 600 Amperes, Tin Plated Copper Vertical, Add</i>	5,511.36 108.00 182.00 334.00 402.00 506.00 97.00 245.00 210.00	1,485.37
26 24 19 00-0711	EA		25" Wide Basic Section With 9" Wide Vertical Wireway <i>For 20" Cabinet Depth, Add</i> <i>For 800 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,600 Amperes, Tin Plated Copper Bus, Add</i> <i>For 2,000 Amperes, Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gasket, Add</i> <i>For NEMA 12, Add</i> <i>For 600 Amperes, Tin Plated Copper Vertical, Add</i>	6,110.01 108.00 182.00 334.00 402.00 506.00 97.00 245.00 210.00	1,485.37
26 24 19 00-0712	EA		Corner Section..... <i>For 20" Cabinet Depth, Add</i> <i>For 800 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,600 Amperes, Tin Plated Copper Bus, Add</i> <i>For 2,000 Amperes, Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gasket, Add</i> <i>For NEMA 12, Add</i> <i>For 600 Amperes, Tin Plated Copper Vertical, Add</i>	6,110.01 108.00 182.00 334.00 402.00 506.00 97.00 245.00 210.00	1,485.37
26 24 19 00-0713			Motor Control Center Starters With HMCP Circuit Breaker <small>(26 24 19 00-0484)</small> Note: Includes door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
26 24 19 00-0714			FVNR Starters With HMCP Circuit Breaker <small>(26 24 19 00-0713)</small>		
26 24 19 00-0715	EA		Class 1, Type A, Size 1 FVNR Starters With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,458.87 125.16	208.62
26 24 19 00-0716	EA		Class 1, Type A, Size 2 FVNR Starters With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,623.93 138.82	231.38
26 24 19 00-0717	EA		Class 1, Type A, Size 3 FVNR Starters With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,830.07 186.64	311.03
26 24 19 00-0718	EA		Class 1, Type A, Size 4 FVNR Starters With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,111.58 246.08	410.08
26 24 19 00-0719	EA		Class 1, Type A, Size 5 FVNR Starters With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,441.82 307.53	512.50
26 24 19 00-0720	EA		Class 1, Type A, Size 6 FVNR Starters With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,195.18 307.53	512.50
26 24 19 00-0721	EA		Class 1, Type B, Size 1 FVNR Starters With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,477.80 108.26	180.45
26 24 19 00-0722	EA		Class 1, Type B, Size 2 FVNR Starters With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,666.75 121.91	203.20
26 24 19 00-0723	EA		Class 1, Type B, Size 3 FVNR Starters With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,900.12 166.46	277.44
26 24 19 00-0724	EA		Class 1, Type B, Size 4 FVNR Starters With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,119.78 225.65	376.06
26 24 19 00-0725	EA		Class 1, Type B, Size 5 FVNR Starters With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,464.10 291.33	485.52
26 24 19 00-0726	EA		Class 1, Type B, Size 6 FVNR Starters With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,354.69 291.33	485.52
26 24 19 00-0727			Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <small>(26 24 19 00-0713)</small>		
26 24 19 00-0728	EA		Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,348.50 156.61	261.08
26 24 19 00-0729	EA		Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,886.34 173.31	288.81
26 24 19 00-0730	EA		Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,771.06 232.90	388.20
26 24 19 00-0731	EA		Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,232.97 307.88	513.15
26 24 19 00-0732	EA		Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,914.68 385.22	642.01
26 24 19 00-0733	EA		Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,391.71 135.24	225.42
26 24 19 00-0734	EA		Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,954.30 152.50	254.14

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0735	EA		Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,864.92 208.41	347.34
26 24 19 00-0736	EA		Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,261.89 282.23	470.34
26 24 19 00-0737	EA		Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,960.02 364.49	607.44
26 24 19 00-0738			Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <small>(26 24 19 00-0713)</small>		
26 24 19 00-0739	EA		Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,577.38 156.61	261.08
26 24 19 00-0740	EA		Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,681.32 173.31	288.81
26 24 19 00-0741	EA		Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,972.89 232.90	388.20
26 24 19 00-0742	EA		Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,497.92 307.88	513.15
26 24 19 00-0743	EA		Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,103.21 385.22	642.01
26 24 19 00-0744	EA		Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,620.59 135.24	225.42
26 24 19 00-0745	EA		Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,749.28 152.50	254.14
26 24 19 00-0746	EA		Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,066.76 208.41	347.34
26 24 19 00-0747	EA		Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,526.84 282.23	470.34
26 24 19 00-0748	EA		Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,148.55 364.49	607.44
26 24 19 00-0749			Motor Control Center Starters With Fusible Disconnect <small>(26 24 19 00-0484)</small> Note: Includes fuses, door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
26 24 19 00-0750			FVNR Starters With Fusible Disconnect <small>(26 24 19 00-0749)</small>		
26 24 19 00-0751	EA		Class 1, Type A, Size 1 FVNR Starters With Fusible Disconnect.....	1,171.27	203.42
26 24 19 00-0752	EA		Class 1, Type A, Size 2 FVNR Starters With Fusible Disconnect.....	1,524.91	276.46
26 24 19 00-0753	EA		Class 1, Type A, Size 3 FVNR Starters With Fusible Disconnect.....	2,559.25	360.23
26 24 19 00-0754	EA		Class 1, Type A, Size 4 FVNR Starters With Fusible Disconnect.....	4,331.99	507.40
26 24 19 00-0755	EA		Class 1, Type A, Size 5 FVNR Starters With Fusible Disconnect.....	8,765.43	645.04
26 24 19 00-0756	EA		Class 1, Type A, Size 6 FVNR Starters With Fusible Disconnect.....	22,382.33	645.04
26 24 19 00-0757	EA		Class 1, Type B, Size 1 FVNR Starters With Fusible Disconnect.....	1,199.48	180.34
26 24 19 00-0758	EA		Class 1, Type B, Size 2 FVNR Starters With Fusible Disconnect.....	1,566.47	247.63
26 24 19 00-0759	EA		Class 1, Type B, Size 3 FVNR Starters With Fusible Disconnect.....	2,640.07	332.06
26 24 19 00-0760	EA		Class 1, Type B, Size 4 FVNR Starters With Fusible Disconnect.....	4,354.31	480.42
26 24 19 00-0761	EA		Class 1, Type B, Size 5 FVNR Starters With Fusible Disconnect.....	8,771.98	610.26
26 24 19 00-0762	EA		Class 1, Type B, Size 6 FVNR Starters With Fusible Disconnect.....	22,526.21	610.26
26 24 19 00-0763			Two Speed 2-Winding (TS2W) With Fusible Disconnect <small>(26 24 19 00-0749)</small>		
26 24 19 00-0764	EA		Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,033.63	254.68
26 24 19 00-0765	EA		Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,835.01	345.60
26 24 19 00-0766	EA		Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	4,403.53	450.07
26 24 19 00-0767	EA		Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	9,281.30	636.05
26 24 19 00-0768	EA		Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	15,148.28	744.31
26 24 19 00-0769	EA		Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,088.57	225.42
26 24 19 00-0770	EA		Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,899.75	309.30
26 24 19 00-0771	EA		Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	4,509.97	415.51
26 24 19 00-0772	EA		Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	9,322.57	599.42
26 24 19 00-0773	EA		Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	15,177.87	701.94
26 24 19 00-0774			Two Speed 1-Winding (TS1W) With Fusible Disconnect <small>(26 24 19 00-0749)</small>		
26 24 19 00-0775	EA		Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,378.48	254.68
26 24 19 00-0776	EA		Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	3,642.20	345.60
26 24 19 00-0777	EA		Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	6,628.25	450.07
26 24 19 00-0778	EA		Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	9,745.17	636.05
26 24 19 00-0779	EA		Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	18,485.37	744.31
26 24 19 00-0780	EA		Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,434.44	225.42
26 24 19 00-0781	EA		Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	3,706.94	309.30
26 24 19 00-0782	EA		Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	6,734.70	415.51
26 24 19 00-0783	EA		Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	9,786.44	599.42
26 24 19 00-0784	EA		Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	18,514.96	701.94
26 24 19 00-0785			Tin Plated Copper Bus Bar And Ground Bus Bar Splice Kit <small>(26 24 19 00-0484)</small> Note: Per section. Labor is included in basic distribution section.		
26 24 19 00-0786	EA		600 Amperes, Horizontal Tin Plated Copper Bus Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	259.08 8.15	
26 24 19 00-0787	EA		800 Amperes, Horizontal Tin Plated Copper Bus Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	318.08 8.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0788 EA 1,200 Amperes, Horizontal Tin Plated Copper Bus Kit.....	382.50	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.77	
26 24 19 00-0789 EA 1,600 Amperes, Horizontal Tin Plated Copper Bus Kit.....	498.47	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.77	
26 24 19 00-0790 EA 2,000 Amperes, Horizontal Tin Plated Copper Bus Kit.....	837.56	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.40	
26 24 19 00-0791 EA 1/4" x 2" Horizontal Tin Plated Copper Ground Bus Kit.....	147.85	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.51	
26 24 19 00-0792 Disconnect Switch For Motor Control Centers <small>(26 24 19 00-0484)</small>		
26 24 19 00-0793 3 Pole Circuit Breaker Disconnect For Motor Control Center <small>(26 24 19 00-0792)</small>		
Note: Includes door, unit support pan, inverse time (Thermal Magnetic) circuit breaker, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0794 EA 150 Amperes Rating, 15 To 100 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	801.34	156.60
26 24 19 00-0795 EA 150 Amperes Rating, 125 To 150 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,376.17	173.40
26 24 19 00-0796 EA 225 Amperes Rating, 70 To 225 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,684.62	233.55
26 24 19 00-0797 EA 400 Amperes Rating, 125 To 400 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	2,774.56	307.78
26 24 19 00-0798 EA 600 Amperes Rating, 300 To 600 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	4,755.39	384.73
26 24 19 00-0799 EA 800 Amperes Rating, 400 To 800 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	5,410.63	384.73
26 24 19 00-0800 EA 1,200 Amperes Rating, 600 To 1,200 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	11,065.93	481.72
26 24 19 00-0801 Fusible Disconnect Switch For Motor Control Center <small>(26 24 19 00-0792)</small>		
Note: Includes door, unit support pan, fuses and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0802 EA 30 Amperes Switch Rating, Fusible Disconnect Switch With 30 Amperes Fuse Clips.....	808.06	152.27
26 24 19 00-0803 EA 60 Amperes Switch Rating, Fusible Disconnect Switch With 60 Amperes Fuse Clips.....	949.16	207.53
26 24 19 00-0804 EA 100 Amperes Switch Rating, Fusible Disconnect Switch With 100 Amperes Fuse Clips.....	1,303.12	265.52
26 24 19 00-0805 EA 200 Amperes Switch Rating, Fusible Disconnect Switch With 200 Amperes Fuse Clips.....	2,443.88	380.39
26 24 19 00-0806 EA 400 Amperes Switch Rating, Fusible Disconnect Switch With 400 Amperes Fuse Clips.....	4,365.74	483.79
26 24 19 00-0807 EA 600 Amperes Switch Rating, Fusible Disconnect Switch With 600 Amperes Fuse Clips.....	10,103.03	483.79
26 24 19 00-0808 EA 800 Amperes Switch Rating, Fusible Disconnect Switch With 800 Amperes Fuse Clips.....	12,488.79	604.73
26 24 19 00-0809 EA 1,200 Amperes Switch Rating, Fusible Disconnect Switch With 1,200 Amperes Fuse Clips.....	18,494.63	604.73
26 24 19 00-0810 Control Circuit Transformer <small>(26 24 19 00-0484)</small>		
26 24 19 00-0811 EA Control Circuit Transformer, Size 1 Factory Installed.....	72.68	
26 24 19 00-0812 EA Control Circuit Transformer, Size 2 Factory Installed.....	72.68	
26 24 19 00-0813 EA Control Circuit Transformer, Size 3 Factory Installed.....	139.97	
26 24 19 00-0814 EA Control Circuit Transformer, Size 4 Factory Installed.....	139.97	
26 24 19 00-0815 EA Control Circuit Transformer, Size 5 Factory Installed.....	194.46	
26 24 19 00-0816 EA Control Circuit Fuse And Holder Small Dim, Dual Element Time Delay.....	52.07	12.27
26 24 19 00-0817 Cover Mounted Control Devices <small>(26 24 19 00-0484)</small>		
26 24 19 00-0818 EA Control Device, 2 Unit Push Button Station Cover Mounted.....	117.83	21.67
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.55	
26 24 19 00-0819 EA Control Device, 2-3 Unit Selector Switch Cover Mounted.....	131.82	21.67
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.94	
26 24 19 00-0820 EA Control Device, Pilot Light Cover Mounted.....	111.88	21.67
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.15	
26 24 19 00-0821 EA Control Device, Hand-Off-Auto Switch Cover Mounted With Pilot Light.....	298.80	73.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.42	
26 24 19 00-0822 EA Auxiliary Contact Add Per Starter.....	369.01	28.07
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.85	
26 24 19 00-0823 Extra Interlocks <small>(26 24 19 00-0484)</small>		
Note: Per contact.		
26 24 19 00-0824 EA Extra Interlocks, Class I, Type A Per Contact.....	76.37	14.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.15	
26 24 19 00-0825 EA Extra Interlocks, Class I, Type B Per Contact.....	106.75	14.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.15	
26 24 19 00-0826 EA Extra Interlocks, Class I, Type C Per Contact.....	119.37	14.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.47	
26 24 19 00-0827 EA Extra Interlocks, Class II, Type B Per Contact.....	107.65	14.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.77	
26 24 19 00-0828 EA Extra Interlocks, Class II, Type C Per Contact.....	114.27	14.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.11	
26 24 19 00-0829 Special Cabinet Provisions <small>(26 24 19 00-0484)</small>		
26 24 19 00-0830 EA Provisions For Bus Duct Entrance Special Cabinet Provisions.....	909.82	
26 24 19 00-0831 Nameplate Requirements <small>(26 24 19 00-0484)</small>		
26 24 19 00-0832 EA Special Cabinet Nameplate Requirements.....	32.30	
26 24 19 00-0833 Auxiliary Relays <small>(26 24 19 00-0484)</small>		

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0834 EA Industrial Control Relay, 10 Amperes, Class A600 With 2 Contacts.....	173.91	27.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.28	
26 24 19 00-0835 EA Timing Relay, Solid State, DPDT 0.1-10 Sec Variable, Off-Delay.....	164.19	24.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.28	
26 24 19 00-0836 EA General Purpose Control Relay, 240 Volt AC, 10 Amperes, With Base.....	91.67	24.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.28	
26 24 19 00-0837 Motor Control Center Accessories (26 24 19 00-0484)		
26 24 19 00-0838 Lighting Transformer With Circuit Breaker (26 24 19 00-0837)		
Note: For 240 V, 480 V, or 600 V primary. Includes door, unit support pan, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure for MCC only.		
26 24 19 00-0839 EA 1 Phase, 5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,222.76	348.60
26 24 19 00-0840 EA 1 Phase, 7.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,430.10	362.55
26 24 19 00-0841 EA 1 Phase, 10 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,941.98	390.43
26 24 19 00-0842 EA 1 Phase, 15 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	7,478.86	418.32
26 24 19 00-0843 EA 1 Phase, 25 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	10,070.64	446.20
26 24 19 00-0844 EA 1 Phase, 37.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	12,376.74	501.98
26 24 19 00-0845 EA 1 Phase, 50 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	16,275.48	557.76
26 24 19 00-0846 EA 3 Phase, 10 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	9,489.15	460.15
26 24 19 00-0847 EA 3 Phase, 15 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	10,309.20	501.98
26 24 19 00-0848 EA 3 Phase, 25 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	11,792.92	557.76
26 24 19 00-0849 EA 3 Phase, 30 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	12,508.25	613.53
26 24 19 00-0850 EA 3 Phase, 37.5 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	15,100.35	669.31
26 24 19 00-0851 EA 3 Phase, 45 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	15,576.41	725.09
26 24 19 00-0852 Bolt-On Lighting Panel (26 24 19 00-0837)		
Note: Includes door, T-handle, unit support pan, neutral bar (10 KA IC RMS), and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. For MCC only.		
26 24 19 00-0853 EA 18 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	2,114.95	563.97
26 24 19 00-0854 EA 30 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	3,275.54	981.66
26 24 19 00-0855 EA 42 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	4,347.94	1,328.12
26 24 19 00-0856 EA 18 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	2,207.42	610.26
26 24 19 00-0857 EA 30 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	3,233.77	960.74
26 24 19 00-0858 EA 42 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	4,513.96	1,411.14
26 24 19 00-0859 EA 18 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	3,633.63	654.15
26 24 19 00-0860 EA 30 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	4,799.53	1,050.15
26 24 19 00-0861 EA 42 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	5,975.75	1,411.14
26 24 19 00-0862 EA 18 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	3,736.52	705.51
26 24 19 00-0863 EA 30 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	4,799.53	1,050.15
26 24 19 00-0864 EA 42 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	6,066.78	1,456.66
26 24 19 00-0865 Factory Installed Bolt-On Branch Circuit Breaker (26 24 19 00-0837)		
Note: For MCC lighting panel only.		
26 24 19 00-0866 EA 15 To 30 Amperes, 1 Pole, Bolt-On Branch Circuit Breaker.....	19.58	
26 24 19 00-0867 EA 15 To 30 Amperes, 1 Pole (GFI) Bolt-On Branch Circuit Breaker.....	280.39	
26 24 19 00-0868 EA 15 To 50 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker.....	38.27	
26 24 19 00-0869 EA 60 To 100 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker.....	88.10	
26 24 19 00-0870 EA 15 To 50 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker.....	103.23	
26 24 19 00-0871 EA 60 To 100 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker.....	156.63	
26 24 19 00-0872 Blank Unit Door (BUD) (26 24 19 00-0837)		
Note: With NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Factory installed.		
26 24 19 00-0873 EA 6" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	74.77	
26 24 19 00-0874 EA 12" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	89.73	
26 24 19 00-0875 EA 18" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	134.59	
26 24 19 00-0876 EA 24" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	179.45	
26 24 19 00-0877 EA 30" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	269.18	
26 24 19 00-0878 EA 48" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	314.04	
26 24 19 00-0879 EA 72" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	358.90	
26 25 Enclosed Bus Assemblies (26 20)		
26 25 13 Low-Voltage Busways (26 25)		
26 25 13 00-0001 Plug-In Bus Duct (26 25 13)		
Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.		
26 25 13 00-0002 600 Volt, 3-Phase, 3-Wire, Copper Conductors (26 25 13 00-0001)		
26 25 13 00-0003 LF 225 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	209.06	32.51
For Up To 25, Add	52.27	
For >25 To 50, Add	31.36	
For >50 To 100, Add	15.68	
26 25 13 00-0004 LF 400 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	352.22	32.51
For Up To 25, Add	88.06	
For >25 To 50, Add	52.83	
For >50 To 100, Add	26.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0005 LF 600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	445.43	43.35
<i>For Up To 25, Add</i>	111.36	
<i>For >25 To 50, Add</i>	66.81	
<i>For >50 To 100, Add</i>	33.41	
26 25 13 00-0006 LF 800 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	612.39	43.35
<i>For Up To 25, Add</i>	153.10	
<i>For >25 To 50, Add</i>	91.86	
<i>For >50 To 100, Add</i>	45.93	
26 25 13 00-0007 LF 1,000 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	646.21	54.18
<i>For Up To 25, Add</i>	161.55	
<i>For >25 To 50, Add</i>	96.93	
<i>For >50 To 100, Add</i>	48.47	
26 25 13 00-0008 LF 1,350 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	897.00	54.18
<i>For Up To 25, Add</i>	224.25	
<i>For >25 To 50, Add</i>	134.55	
<i>For >50 To 100, Add</i>	67.28	
26 25 13 00-0009 LF 1,600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,048.15	56.90
<i>For Up To 25, Add</i>	262.04	
<i>For >25 To 50, Add</i>	157.22	
<i>For >50 To 100, Add</i>	78.61	
26 25 13 00-0010 LF 2,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,273.72	58.52
<i>For Up To 25, Add</i>	318.43	
<i>For >25 To 50, Add</i>	191.06	
<i>For >50 To 100, Add</i>	95.53	
26 25 13 00-0011 LF 2,500 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,569.53	61.77
<i>For Up To 25, Add</i>	392.38	
<i>For >25 To 50, Add</i>	235.43	
<i>For >50 To 100, Add</i>	117.71	
26 25 13 00-0012 LF 3,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,812.45	72.07
<i>For Up To 25, Add</i>	453.11	
<i>For >25 To 50, Add</i>	271.87	
<i>For >50 To 100, Add</i>	135.93	
26 25 13 00-0013 LF 4,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	2,096.36	78.57
<i>For Up To 25, Add</i>	524.09	
<i>For >25 To 50, Add</i>	314.45	
<i>For >50 To 100, Add</i>	157.23	
26 25 13 00-0014 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors <small>(26 25 13 00-0001)</small>		
26 25 13 00-0015 LF 225 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	404.50	32.51
<i>For Up To 25, Add</i>	101.13	
<i>For >25 To 50, Add</i>	60.68	
<i>For >50 To 100, Add</i>	30.34	
26 25 13 00-0016 LF 400 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	581.93	32.51
<i>For Up To 25, Add</i>	145.48	
<i>For >25 To 50, Add</i>	87.29	
<i>For >50 To 100, Add</i>	43.64	
26 25 13 00-0017 LF 600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	657.97	43.35
<i>For Up To 25, Add</i>	164.49	
<i>For >25 To 50, Add</i>	98.70	
<i>For >50 To 100, Add</i>	49.35	
26 25 13 00-0018 LF 800 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	835.12	43.35
<i>For Up To 25, Add</i>	208.78	
<i>For >25 To 50, Add</i>	125.27	
<i>For >50 To 100, Add</i>	62.63	
26 25 13 00-0019 LF 1,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,017.58	54.18
<i>For Up To 25, Add</i>	254.40	
<i>For >25 To 50, Add</i>	152.64	
<i>For >50 To 100, Add</i>	76.32	
26 25 13 00-0020 LF 1,350 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,315.95	54.18
<i>For Up To 25, Add</i>	328.99	
<i>For >25 To 50, Add</i>	197.39	
<i>For >50 To 100, Add</i>	98.70	
26 25 13 00-0021 LF 1,600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,699.53	56.14
<i>For Up To 25, Add</i>	424.88	
<i>For >25 To 50, Add</i>	254.93	
<i>For >50 To 100, Add</i>	127.46	
26 25 13 00-0022 LF 2,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	2,044.80	58.52
<i>For Up To 25, Add</i>	511.20	
<i>For >25 To 50, Add</i>	306.72	
<i>For >50 To 100, Add</i>	153.36	
26 25 13 00-0023 LF 2,500 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	2,533.47	61.23
<i>For Up To 25, Add</i>	633.37	
<i>For >25 To 50, Add</i>	380.02	
<i>For >50 To 100, Add</i>	190.01	
26 25 13 00-0024 LF 3,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	2,924.71	72.07
<i>For Up To 25, Add</i>	731.18	
<i>For >25 To 50, Add</i>	438.71	
<i>For >50 To 100, Add</i>	219.35	
26 25 13 00-0025 LF 4,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	3,389.16	78.57
<i>For Up To 25, Add</i>	847.29	
<i>For >25 To 50, Add</i>	508.37	
<i>For >50 To 100, Add</i>	254.19	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 25 Enclosed Bus Assemblies



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0026			Cable Tap Boxes <small>(26 25 13 00-0001)</small>		
26 25 13 00-0027			600 Volt, 3-Phase, 3-Wire, Copper Conductors <small>(26 25 13 00-0026)</small>		
26 25 13 00-0028	EA		225 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,031.28	151.73
26 25 13 00-0029	EA		400 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,102.47	151.73
26 25 13 00-0030	EA		600 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,274.86	205.91
26 25 13 00-0031	EA		800 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,423.03	205.91
26 25 13 00-0032	EA		1,000 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,600.16	270.94
26 25 13 00-0033	EA		1,350 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,849.34	270.94
26 25 13 00-0034			277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors <small>(26 25 13 00-0026)</small>		
26 25 13 00-0035	EA		225 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,102.47	298.03
26 25 13 00-0036	EA		400 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,287.29	298.03
26 25 13 00-0037	EA		600 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,446.80	406.40
26 25 13 00-0038	EA		800 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,749.85	406.40
26 25 13 00-0039	EA		1,000 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,895.11	541.87
26 25 13 00-0040	EA		1,350 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,292.50	541.87
26 25 13 00-0041			Bus Duct Plug-In Circuit Breaker <small>(26 25 13 00-0001)</small>		
26 25 13 00-0042			240 Volt, 3-Phase <small>(26 25 13 00-0041)</small>		
26 25 13 00-0043	EA		60 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker	920.49	108.38
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.29	
26 25 13 00-0044	EA		100 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker	1,820.76	108.38
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	76.11	
26 25 13 00-0045			600 Volt, 3-Phase <small>(26 25 13 00-0041)</small>		
26 25 13 00-0046	EA		60 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker	1,764.69	108.38
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.29	
26 25 13 00-0047	EA		100 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker	2,285.52	108.38
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	76.11	
26 25 13 00-0048			120/208 Volt, 3-Phase, 4-Wire <small>(26 25 13 00-0041)</small>		
26 25 13 00-0049	EA		60 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker	1,059.86	130.05
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.73	
26 25 13 00-0050	EA		100 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker	1,267.11	130.05
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.67	
26 25 13 00-0051			277/480 Volt, 3-Phase, 4-Wire <small>(26 25 13 00-0041)</small>		
26 25 13 00-0052	EA		60 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	1,210.66	130.05
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.73	
26 25 13 00-0053	EA		100 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	1,857.59	130.05
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.67	
26 25 13 00-0054	EA		225 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	2,731.60	449.75
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	194.92	
26 25 13 00-0055	EA		400 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	6,509.04	449.75
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	423.34	
26 25 13 00-0056	EA		600 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	7,301.44	1,300.49
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	588.99	
26 25 13 00-0057	EA		800 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	9,212.03	1,300.49
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,042.06	
26 25 13 00-0058			Bus Duct Plug-In Fusible Switch <small>(26 25 13 00-0001)</small>		
26 25 13 00-0059			240 Volt, 3-Pole, 3-Fuse <small>(26 25 13 00-0058)</small>		
26 25 13 00-0060	EA		30 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	918.42	108.38
26 25 13 00-0061	EA		60 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,009.86	108.38
26 25 13 00-0062	EA		100 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,393.87	130.05
26 25 13 00-0063	EA		200 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,353.67	260.09
26 25 13 00-0064	EA		400 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	5,935.93	585.22
26 25 13 00-0065	EA		600 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	8,893.95	1,018.72
26 25 13 00-0066			600 Volt, 3-Pole, 3-Fuse <small>(26 25 13 00-0058)</small>		
26 25 13 00-0067	EA		30 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	953.45	119.21
26 25 13 00-0068	EA		60 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,042.63	119.21
26 25 13 00-0069	EA		100 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,404.30	119.21
26 25 13 00-0070	EA		200 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,409.69	249.26
26 25 13 00-0071	EA		400 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	5,906.99	563.54
26 25 13 00-0072	EA		600 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	9,099.20	1,083.74
26 25 13 00-0073	EA		800 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	14,887.50	1,408.86
26 25 13 00-0074			120/208 Volt, 4-pole, 3 Fuse <small>(26 25 13 00-0058)</small>		
26 25 13 00-0075	EA		30 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,062.44	140.89



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0076 EA 60 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,142.48	140.89
26 25 13 00-0077 EA 100 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,544.51	140.89
26 25 13 00-0078 EA 200 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,617.85	292.61
26 25 13 00-0079 EA 400 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	6,517.38	650.25
26 25 13 00-0080 EA 600 AAmperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	9,489.88	997.04
26 25 13 00-0081 277/480 Volt, 4-pole, 3-Fuse <small>(26 25 13 00-0058)</small>		
26 25 13 00-0082 EA 30 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,097.12	140.89
26 25 13 00-0083 EA 60 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,177.16	119.54
26 25 13 00-0084 EA 100 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,646.79	162.56
26 25 13 00-0085 EA 200 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,727.33	292.61
26 25 13 00-0086 EA 400 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	6,517.38	650.25
26 25 13 00-0087 EA 600 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	9,489.88	997.04
26 25 13 00-0088 EA 800 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	14,996.53	1,322.17
26 25 16 Low-Voltage Cablebus Systems <small>(26 25)</small>		
26 25 16 00-0001 Feeder Bus Duct <small>(26 25 16)</small>		
<small>Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.</small>		
26 25 16 00-0002 600 Volt, 3 Phase, 3 Wire, Ventilated Low Impedance <small>(26 25 16 00-0001)</small>		
<small>Note: Copper conductors.</small>		
26 25 16 00-0003 LF 800 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	732.09	45.51
For Up To 25, Add	183.02	
For >25 To 50, Add	109.81	
For >50 To 100, Add	54.91	
26 25 16 00-0004 LF 1,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	742.39	45.51
For Up To 25, Add	185.60	
For >25 To 50, Add	111.36	
For >50 To 100, Add	55.68	
26 25 16 00-0005 LF 1,350 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	970.50	45.51
For Up To 25, Add	242.63	
For >25 To 50, Add	145.58	
For >50 To 100, Add	72.79	
26 25 16 00-0006 LF 1,600 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	1,164.85	45.51
For Up To 25, Add	291.21	
For >25 To 50, Add	174.73	
For >50 To 100, Add	87.36	
26 25 16 00-0007 LF 2,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	1,423.32	45.51
For Up To 25, Add	355.83	
For >25 To 50, Add	213.50	
For >50 To 100, Add	106.75	
26 25 16 00-0008 LF 3,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	1,942.52	108.38
For Up To 25, Add	485.63	
For >25 To 50, Add	291.38	
For >50 To 100, Add	145.69	
26 25 16 00-0009 LF 4,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	2,683.61	108.38
For Up To 25, Add	670.90	
For >25 To 50, Add	402.54	
For >50 To 100, Add	201.27	
26 25 16 00-0010 LF 5,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	3,175.08	108.38
For Up To 25, Add	793.77	
For >25 To 50, Add	476.26	
For >50 To 100, Add	238.13	
26 25 16 00-0011 LF 6,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	3,909.89	108.38
For Up To 25, Add	977.47	
For >25 To 50, Add	586.48	
For >50 To 100, Add	293.24	
26 25 16 00-0012 277/480 Volt, 3 Phase, 4 Wire, Half Neutral, Ventilated <small>(26 25 16 00-0001)</small>		
<small>Note: Low impedance, copper conductors.</small>		
26 25 16 00-0013 LF 800 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....	838.69	48.77
For Up To 25, Add	209.67	
For >25 To 50, Add	125.80	
For >50 To 100, Add	62.90	
26 25 16 00-0014 LF 1,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....	852.31	48.77
For Up To 25, Add	213.08	
For >25 To 50, Add	127.85	
For >50 To 100, Add	63.92	
26 25 16 00-0015 LF 1,350 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....	1,095.81	48.77
For Up To 25, Add	273.95	
For >25 To 50, Add	164.37	
For >50 To 100, Add	82.19	
26 25 16 00-0016 LF 1,600 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....	1,298.97	48.77
For Up To 25, Add	324.74	
For >25 To 50, Add	194.85	
For >50 To 100, Add	97.42	
26 25 16 00-0017 LF 2,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....	1,568.81	48.77
For Up To 25, Add	392.20	
For >25 To 50, Add	235.32	
For >50 To 100, Add	117.66	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 25 Enclosed Bus Assemblies



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 16 00-0018	LF		3,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	2,409.56	83.45
			<i>For Up To 25, Add</i>	602.39	
			<i>For >25 To 50, Add</i>	361.43	
			<i>For >50 To 100, Add</i>	180.72	
26 25 16 00-0019	LF		4,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	3,021.92	83.45
			<i>For Up To 25, Add</i>	755.48	
			<i>For >25 To 50, Add</i>	453.29	
			<i>For >50 To 100, Add</i>	226.64	
26 25 16 00-0020	LF		5,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	3,575.81	154.97
			<i>For Up To 25, Add</i>	893.95	
			<i>For >25 To 50, Add</i>	536.37	
			<i>For >50 To 100, Add</i>	268.19	
26 25 16 00-0021	LF		6,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	4,408.69	154.97
			<i>For Up To 25, Add</i>	1,102.17	
			<i>For >25 To 50, Add</i>	661.30	
			<i>For >50 To 100, Add</i>	330.65	

26 27 Low-Voltage Distribution Equipment (26 20)

26 27 13 Electricity Metering (26 27)

26 27 13 00-0001 Revenue Metering (26 27 13)

26 27 13 00-0002 Meter Socket Base (26 27 13 00-0001)
 Note: NEMA 3R.

26 27 13 00-0003	EA		100 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	242.46	70.44
26 27 13 00-0004	EA		100 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	256.81	70.44
26 27 13 00-0005	EA		200 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	331.21	86.69
26 27 13 00-0006	EA		200 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	335.29	86.69
26 27 13 00-0007	EA		200 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release.....	643.11	97.54
26 27 13 00-0008	EA		320 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release.....	853.69	108.38
26 27 13 00-0009	EA		400 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release.....	2,098.60	119.21
26 27 13 00-0010	EA		Combination Motor And Current Transformer Cabinet, 15 To 30 Amperes, 13 Terminal, Underground, With Test Switch And Transformer, Socket Base	2,439.12	541.87

26 27 13 00-0011 Meter Device (26 27 13 00-0001)
 Note: Direct read, with 15 minute demand.

26 27 13 00-0012	EA		100 To 200 Amperes, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter.....	237.55	21.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.33	
26 27 13 00-0013	EA		200 Amperes, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter.....	666.27	21.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.57	

26 27 13 00-0014 Current Transformer Enclosure (26 27 13 00-0001)

26 27 13 00-0015	EA		18" x 24" x 9", NEMA 3R, Screwed Cover, Current Transformer Enclosure	502.74	140.89
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26 27 13 00-0016 120/240 Volt Meter Center And Main Breaker, Indoor Housing (26 27 13 00-0001)

26 27 13 00-0017 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max., 2 Pole (26 27 13 00-0016)

26 27 13 00-0018	EA		3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	924.65	67.74
26 27 13 00-0019	EA		4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,216.37	81.28
26 27 13 00-0020	EA		5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,506.52	94.82
26 27 13 00-0021	EA		6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,745.62	108.38
26 27 13 00-0022	EA		7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,270.99	121.92
26 27 13 00-0023	EA		8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,452.83	135.46
26 27 13 00-0024	EA		10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,862.93	162.56

26 27 13 00-0025 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max., 2 Pole (26 27 13 00-0016)

26 27 13 00-0026	EA		3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	1,698.38	67.74
26 27 13 00-0027	EA		4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	2,236.14	81.28
26 27 13 00-0028	EA		6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	3,079.53	108.38
26 27 13 00-0029	EA		7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	3,416.09	121.92
26 27 13 00-0030	EA		8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	4,294.28	135.46

26 27 13 00-0031 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0016)

26 27 13 00-0032	EA		3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,415.22	94.82
26 27 13 00-0033	EA		4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,857.04	108.38
26 27 13 00-0034	EA		5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,270.99	121.92
26 27 13 00-0035	EA		6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,669.47	135.46
26 27 13 00-0036	EA		7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,361.96	149.02
26 27 13 00-0037	EA		8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,528.33	162.56
26 27 13 00-0038	EA		10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,371.70	189.66

26 27 13 00-0039 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0016)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0040 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,185.85	94.82
26 27 13 00-0041 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,862.87	108.38
26 27 13 00-0042 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,031.22	135.46
26 27 13 00-0043 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,321.37	149.02
26 27 13 00-0044 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,524.49	162.56
26 27 13 00-0045 120/208 Volt Meter Center And Main Breaker, Indoor Housing <small>(26 27 13 00-0001)</small>		
26 27 13 00-0046 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max., 2 Pole <small>(26 27 13 00-0045)</small>		
26 27 13 00-0047 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,007.46	81.28
26 27 13 00-0048 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,316.19	94.82
26 27 13 00-0049 EA 5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,623.37	108.38
26 27 13 00-0050 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,884.13	121.92
26 27 13 00-0051 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,313.56	135.46
26 27 13 00-0052 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,495.39	149.02
26 27 13 00-0053 EA 10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	3,075.72	176.11
26 27 13 00-0054 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0045)</small>		
26 27 13 00-0055 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,787.38	81.28
26 27 13 00-0056 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,356.09	94.82
26 27 13 00-0057 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,400.62	121.92
26 27 13 00-0058 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,737.21	135.46
26 27 13 00-0059 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,522.57	149.02
26 27 13 00-0060 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0045)</small>		
26 27 13 00-0061 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,498.05	108.38
26 27 13 00-0062 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,946.04	121.92
26 27 13 00-0063 EA 5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,406.43	135.46
26 27 13 00-0064 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,804.91	149.02
26 27 13 00-0065 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,528.37	162.56
26 27 13 00-0066 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,694.70	176.11
26 27 13 00-0067 EA 10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,600.00	203.20
26 27 13 00-0068 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0045)</small>		
26 27 13 00-0069 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,290.34	108.38
26 27 13 00-0070 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,013.78	121.92
26 27 13 00-0071 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,321.40	149.02
26 27 13 00-0072 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,518.69	162.56
26 27 13 00-0073 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,737.32	176.11
26 27 13 00-0074 120/240 Volt Meter Center And Main Breaker, NEMA 3R Housing <small>(26 27 13 00-0001)</small>		
26 27 13 00-0075 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0074)</small>		
26 27 13 00-0076 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	924.65	67.74
26 27 13 00-0077 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,216.37	81.28
26 27 13 00-0078 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,745.62	108.38
26 27 13 00-0079 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,270.99	121.92
26 27 13 00-0080 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,808.74	135.46
26 27 13 00-0081 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0074)</small>		
26 27 13 00-0082 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,698.37	67.74
26 27 13 00-0083 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,236.13	81.28
26 27 13 00-0084 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,234.26	108.38
26 27 13 00-0085 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,570.84	121.92
26 27 13 00-0086 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,294.28	135.46
26 27 13 00-0087 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0074)</small>		
26 27 13 00-0088 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,415.22	94.82
26 27 13 00-0089 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,857.04	108.38
26 27 13 00-0090 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,669.47	135.46
26 27 13 00-0091 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,361.96	149.02
26 27 13 00-0092 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,528.33	162.56

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 27	Low-Voltage Distribution Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0093	1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0074)</small>	
26 27 13 00-0094 EA	3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,185.87 94.82
26 27 13 00-0095 EA	4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,862.87 108.38
26 27 13 00-0096 EA	6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,031.22 135.46
26 27 13 00-0097 EA	7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,321.37 149.02
26 27 13 00-0098 EA	8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,524.53 162.56
26 27 13 00-0099	120/208 Volt Meter Center And Main Breaker, NEMA 3R Housing <small>(26 27 13 00-0001)</small>	
26 27 13 00-0100	800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0099)</small>	
26 27 13 00-0101 EA	3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,007.46 81.28
26 27 13 00-0102 EA	4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,316.19 94.82
26 27 13 00-0103 EA	6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,844.13 121.92
26 27 13 00-0104 EA	7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,468.30 135.46
26 27 13 00-0105 EA	8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,804.88 149.02
26 27 13 00-0106	1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0099)</small>	
26 27 13 00-0107 EA	3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,787.37 81.28
26 27 13 00-0108 EA	4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,356.07 94.82
26 27 13 00-0109 EA	6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,245.87 121.92
26 27 13 00-0110 EA	7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,582.46 135.46
26 27 13 00-0111 EA	8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,522.54 149.02
26 27 13 00-0112	800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0099)</small>	
26 27 13 00-0113 EA	3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,498.03 108.38
26 27 13 00-0114 EA	4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,946.02 121.92
26 27 13 00-0115 EA	6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,804.88 149.02
26 27 13 00-0116 EA	7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,528.33 162.56
26 27 13 00-0117 EA	8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,694.70 176.11
26 27 13 00-0118	1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0099)</small>	
26 27 13 00-0119 EA	3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,290.32 108.38
26 27 13 00-0120 EA	4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,013.76 121.92
26 27 13 00-0121 EA	6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,321.37 149.02
26 27 13 00-0122 EA	7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,518.69 162.56
26 27 13 00-0123 EA	8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,737.32 176.11
26 27 13 00-0124	Watt/Hour Meters <small>(26 27 13)</small>	
26 27 13 00-0125 EA	Single Phase M-90 Meter, Socket, NEMA 3R Enclosure	987.06 65.02
26 27 13 00-0126 EA	Three Phase M-90 Meter/Main Breaker Combination With Socket, NEMA 3R Enclosure	2,994.59 130.05
26 27 13 00-0127 EA	Three Phase M-90 Meter In Line Secondary With Socket, NEMA 3R Enclosure	1,592.70 97.54
26 27 13 00-0128 EA	Three Phase M-90 Meter, Primary Side Transformer Mount With Socket Totally Enclosed, NEMA 3R Enclosure	1,946.11 97.54
26 27 13 00-0129 EA	Three Phase M-90 Meter, Primary Side Pole Mount With Socket, NEMA 3R Enclosure	1,644.61 97.54
26 27 13 00-0130 EA	C.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	1,112.57 89.95
26 27 13 00-0131 EA	P.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	1,902.50 162.56
26 27 13 00-0132	Watt/Hour Meter Systems <small>(26 27 13)</small>	
Note: Includes NEMA 3R enclosure with C.T. and NEMA 3R C.T. enclosure. systems with main breakers include an additional NEMA 3R enclosure.		
26 27 13 00-0133	Watt/Hour Meter System Without Main Breaker <small>(26 27 13 00-0132)</small>	
26 27 13 00-0134 EA	400 Amperes System; 200 Amperes M-90 Meter And Enclosure	4,888.15 650.36
26 27 13 00-0135 EA	600 To 800 Amperes System; 200 Amperes M-90 Meter And Enclosure	5,722.19 650.36
26 27 13 00-0136	Watt/Hour Meter System With Main Breaker <small>(26 27 13 00-0132)</small>	
26 27 13 00-0137 EA	400 Amperes System; 400 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	8,550.00 650.36
26 27 13 00-0138 EA	600 Amperes System; 600 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	10,368.66 650.36
26 27 13 00-0139 EA	800 Amperes System; 800 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	11,139.95 650.36
26 27 16	Electrical Cabinets and Enclosures <small>(26 27)</small>	
Note: Can be used as enclosure or pull/junction boxes.		
26 27 16 00-0001	NEMA 1 Enclosures, Lockable <small>(26 27 16)</small>	
26 27 16 00-0002	Hinged Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0001)</small>	
26 27 16 00-0003	4" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0002)</small>	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0004 EA 6" x 4" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	69.12	21.67
26 27 16 00-0005 EA 6" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	77.57	23.84
26 27 16 00-0006 EA 8" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	86.08	26.01
26 27 16 00-0007 EA 8" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	100.50	30.35
26 27 16 00-0008 EA 10" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	109.52	32.51
26 27 16 00-0009 EA 10" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	119.19	34.68
26 27 16 00-0010 EA 12" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	118.85	34.68
26 27 16 00-0011 EA 12" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	128.79	36.85
26 27 16 00-0012 EA 12" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	139.23	39.02
26 27 16 00-0013 EA 16" x 12" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	180.42	52.02
26 27 16 00-0014 EA 16" x 16" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	218.88	62.86
26 27 16 00-0015 EA 18" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	207.86	60.69
26 27 16 00-0016 6" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0002)		
26 27 16 00-0017 EA 6" x 6" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	86.75	26.01
26 27 16 00-0018 EA 8" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	105.43	30.35
26 27 16 00-0019 EA 10" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	125.81	36.85
26 27 16 00-0020 EA 10" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	135.99	39.02
26 27 16 00-0021 EA 12" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	146.38	41.18
26 27 16 00-0022 EA 12" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	157.27	43.35
26 27 16 00-0023 EA 16" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	199.58	56.36
26 27 16 00-0024 EA 16" x 16" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	241.88	69.36
26 27 16 00-0025 EA 18" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	233.23	67.20
26 27 16 00-0026 EA 18" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	303.81	86.69
26 27 16 00-0027 EA 24" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	390.98	99.71
26 27 16 00-0028 EA 24" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	447.28	108.38
26 27 16 00-0029 EA 30" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	498.45	114.87
26 27 16 00-0030 EA 36" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	544.21	119.21
26 27 16 00-0031 EA 24-1/2" x 12-1/2" x 6-1/2", Hinged Cover, Galvanized Steel NEMA 1 Enclosure (Control Products MH3803L)	378.66	86.69
26 27 16 00-0032 Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0001)		
26 27 16 00-0033 3" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0034 EA 4" x 4" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	46.41	15.17
26 27 16 00-0035 EA 6" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	66.32	21.67
26 27 16 00-0036 EA 8" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	73.90	23.84
26 27 16 00-0037 4" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0038 EA 4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	51.98	17.34
26 27 16 00-0039 EA 6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	64.48	21.67
26 27 16 00-0040 EA 6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	71.95	23.84
26 27 16 00-0041 EA 8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	79.51	26.01
26 27 16 00-0042 EA 8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	92.77	30.35
26 27 16 00-0043 EA 10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	100.68	32.51
26 27 16 00-0044 EA 10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	108.95	34.68
26 27 16 00-0045 EA 12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	108.67	34.68
26 27 16 00-0046 EA 12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	117.29	36.85
26 27 16 00-0047 EA 12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	126.14	39.02
26 27 16 00-0048 EA 16" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	165.25	52.02
26 27 16 00-0049 EA 16" x 16" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	204.91	65.02
26 27 16 00-0050 EA 18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	190.23	60.69
26 27 16 00-0051 EA 18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	246.25	78.03
26 27 16 00-0052 EA 24" x 24" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	351.74	97.54
26 27 16 00-0053 6" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0054 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	79.92	26.01
26 27 16 00-0055 EA 8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	88.03	28.18
26 27 16 00-0056 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	101.48	32.51
26 27 16 00-0057 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	115.20	36.85
26 27 16 00-0058 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	123.93	39.02
26 27 16 00-0059 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	132.74	41.18
26 27 16 00-0060 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	141.91	43.35
26 27 16 00-0061 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	181.90	56.36
26 27 16 00-0062 EA 16" x 16" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	223.53	69.36
26 27 16 00-0063 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	212.76	67.20
26 27 16 00-0064 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	276.47	86.69
26 27 16 00-0065 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	343.14	99.71
26 27 16 00-0066 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	391.80	108.38
26 27 16 00-0067 EA 30" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	422.48	114.87
26 27 16 00-0068 EA 36" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	460.50	119.21
26 27 16 00-0069 8" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0070 EA 8" x 8" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	115.20	36.85
26 27 16 00-0071 EA 12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	156.50	47.69
26 27 16 00-0072 EA 16" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	198.98	60.69

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 27 Low-Voltage Distribution Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0073	EA		16" x 16" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	247.10	75.86
26 27 16 00-0074	EA		18" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	236.46	73.69
26 27 16 00-0075	EA		18" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	292.85	91.04
26 27 16 00-0076	EA		24" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	327.22	104.04
26 27 16 00-0077	EA		24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	377.01	110.54
26 27 16 00-0078	EA		24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	431.96	119.21
26 27 16 00-0079	EA		30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	459.34	125.71
26 27 16 00-0080	EA		30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	482.07	130.05
26 27 16 00-0081	EA		36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	493.96	130.05
26 27 16 00-0082			10" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0032)</small>		
26 27 16 00-0083	EA		18" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	268.04	82.36
26 27 16 00-0084	EA		18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	352.22	106.20
26 27 16 00-0085	EA		24" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	357.83	112.71
26 27 16 00-0086	EA		24" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	457.99	121.38
26 27 16 00-0087	EA		24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	525.74	134.38
26 27 16 00-0088	EA		30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	580.85	138.72
26 27 16 00-0089	EA		36" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	618.93	145.22
26 27 16 00-0090			12" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0032)</small>		
26 27 16 00-0091	EA		18" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	388.80	117.04
26 27 16 00-0092	EA		24" x 12" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	388.97	123.55
26 27 16 00-0093	EA		24" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	503.78	134.38
26 27 16 00-0094	EA		24" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	574.05	147.38
26 27 16 00-0095	EA		30" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	641.28	153.89
26 27 16 00-0096	EA		36" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	675.89	160.40
26 27 16 00-0097			NEMA 1 Enclosures For Up To 6 Boards, Lockable <small>(26 27 16)</small>		
26 27 16 00-0098			4.5" Depth, Hinged Cover, Powder Coated Steel, NEMA 1 Enclosures <small>(26 27 16 00-0097)</small>		
26 27 16 00-0099	EA		24" High x 18" Wide x 4.5" Deep, 18 Gauge, Powder Coated Steel, NEMA 1 Enclosure (RS2 Technologies NCL-12).....	1,120.58	95.37
26 27 16 00-0100			NEMA 12 Enclosures, Lockable <small>(26 27 16)</small>		
			Note: Dust-tight enclosures.		
26 27 16 00-0101			Hinged Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0100)</small>		
26 27 16 00-0102			4" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0101)</small>		
26 27 16 00-0103	EA		4" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	99.82	17.34
26 27 16 00-0104	EA		6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	129.86	23.84
26 27 16 00-0105	EA		8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	160.55	30.35
26 27 16 00-0106	EA		10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	173.86	32.51
26 27 16 00-0107	EA		12" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	195.37	34.68
26 27 16 00-0108	EA		12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	210.52	36.85
26 27 16 00-0109			6" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0101)</small>		
26 27 16 00-0110	EA		6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	144.21	26.01
26 27 16 00-0111	EA		8" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	158.94	28.18
26 27 16 00-0112			Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0100)</small>		
26 27 16 00-0113			4" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0112)</small>		
26 27 16 00-0114	EA		4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	186.18	17.34
26 27 16 00-0115	EA		6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	223.74	23.84
26 27 16 00-0116	EA		8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	252.89	26.01
26 27 16 00-0117	EA		8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	289.40	30.35
26 27 16 00-0118	EA		10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	297.84	32.51
26 27 16 00-0119	EA		10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	351.25	34.68
26 27 16 00-0120	EA		12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	377.10	36.85
26 27 16 00-0121	EA		12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	428.72	39.02
26 27 16 00-0122			6" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0112)</small>		
26 27 16 00-0123	EA		6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	272.00	26.01
26 27 16 00-0124	EA		8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	307.33	28.18
26 27 16 00-0125	EA		8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	335.24	32.51
26 27 16 00-0126	EA		10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	396.58	39.02
26 27 16 00-0127	EA		12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	430.81	43.35
26 27 16 00-0128	EA		16" x 14" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	597.74	56.36
26 27 16 00-0129	EA		18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	926.19	86.69
26 27 16 00-0130	EA		24" x 16" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,211.35	99.71
26 27 16 00-0131	EA		24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,365.21	108.38



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0132 8" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0112)</small>		
26 27 16 00-0133 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,263.97	110.54
26 27 16 00-0134 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,455.57	119.21
26 27 16 00-0135 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,599.29	125.71
26 27 16 00-0136 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,762.15	130.05
26 27 16 00-0137 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,738.12	130.05
26 27 16 00-0138 Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0100)</small>		
26 27 16 00-0139 8" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>		
26 27 16 00-0140 EA 60" x 48" x 8" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	5,518.48	176.11
26 27 16 00-0141 10" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>		
26 27 16 00-0142 EA 60" x 48" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	5,573.78	195.07
26 27 16 00-0143 EA 60" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	6,392.07	208.62
26 27 16 00-0144 EA 72" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	7,355.67	260.09
26 27 16 00-0145 EA 72" x 72" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	8,215.21	306.70
26 27 16 00-0146 12" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>		
26 27 16 00-0147 EA 60" x 48" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	5,955.77	306.70
26 27 16 00-0148 EA 60" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	6,637.48	325.12
26 27 16 00-0149 EA 72" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	7,536.50	346.80
26 27 16 00-0150 EA 72" x 72" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	8,312.77	346.80
26 27 16 00-0151 NEMA 3 Enclosures, Lockable <small>(26 27 16)</small> Note: Can be used underground or encased in concrete.		
26 27 16 00-0152 2" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0153 EA 4" x 4" x 2" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	283.77	75.86
26 27 16 00-0154 3" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0155 EA 4" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	304.66	75.86
26 27 16 00-0156 EA 5" x 5" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	389.17	78.57
26 27 16 00-0157 EA 6" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	403.39	78.57
26 27 16 00-0158 EA 6" x 6" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	506.68	81.28
26 27 16 00-0159 4" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0160 EA 4" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	385.33	78.57
26 27 16 00-0161 EA 5" x 5" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	422.51	78.57
26 27 16 00-0162 EA 6" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	440.42	81.28
26 27 16 00-0163 EA 6" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	554.62	81.28
26 27 16 00-0164 EA 8" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	609.67	86.69
26 27 16 00-0165 EA 8" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	656.26	92.12
26 27 16 00-0166 EA 10" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	683.42	92.12
26 27 16 00-0167 EA 10" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	812.64	94.82
26 27 16 00-0168 EA 12" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	881.58	97.54
26 27 16 00-0169 EA 12" x 12" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,206.91	108.38
26 27 16 00-0170 6" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0171 EA 6" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	585.76	83.99
26 27 16 00-0172 EA 8" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	738.16	94.82
26 27 16 00-0173 EA 8" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	864.88	97.54
26 27 16 00-0174 EA 10" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	996.74	100.25
26 27 16 00-0175 EA 10" x 10" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,060.81	100.25
26 27 16 00-0176 EA 12" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,206.57	108.38
26 27 16 00-0177 EA 12" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,395.66	121.92
26 27 16 00-0178 EA 16" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,315.12	116.50
26 27 16 00-0179 EA 18" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	2,556.90	216.75
26 27 16 00-0180 EA 18" x 18" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	4,430.23	270.94
26 27 16 00-0181 8" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0182 EA 8" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,070.80	102.95
26 27 16 00-0183 EA 12" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,610.36	135.46
26 27 16 00-0184 EA 12" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,636.52	135.46
26 27 16 00-0185 EA 16" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	2,217.02	203.20
26 27 16 00-0186 EA 18" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	2,920.32	216.75
26 27 16 00-0187 EA 24" x 24" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	7,411.58	379.31

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 27 Low-Voltage Distribution Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0188			10" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0189	EA		18" x 12" x 10" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	3,894.02	270.94
26 27 16 00-0190			12" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0191	EA		18" x 18" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	5,989.52	325.12
26 27 16 00-0192	EA		24" x 12" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	4,925.55	298.03
26 27 16 00-0193			NEMA 3R Enclosures, Lockable (26 27 16) Note: Rain-tight enclosures.		
26 27 16 00-0194			Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0193)		
26 27 16 00-0195			4" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0196	EA		6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	90.63	21.67
26 27 16 00-0197	EA		6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	100.07	23.84
26 27 16 00-0198	EA		8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	148.26	26.01
26 27 16 00-0199			6" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0200	EA		8" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	186.63	32.51
26 27 16 00-0201	EA		10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	208.54	36.85
26 27 16 00-0202	EA		12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	244.72	41.18
26 27 16 00-0203	EA		12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	264.59	43.35
26 27 16 00-0204	EA		16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	344.48	56.36
26 27 16 00-0205	EA		16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	411.90	69.36
26 27 16 00-0206	EA		18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	470.36	86.69
26 27 16 00-0207			8" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0208	EA		24" x 20" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	714.72	110.54
26 27 16 00-0209	EA		24" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	792.73	119.21
26 27 16 00-0210	EA		30" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	892.52	125.71
26 27 16 00-0211	EA		30" x 30" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	938.77	130.05
26 27 16 00-0212			10" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0213	EA		12" x 48" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	886.28	134.38
26 27 16 00-0214	EA		12" x 54" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,001.17	151.73
26 27 16 00-0215	EA		12" x 60" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,108.39	167.98
26 27 16 00-0216	EA		12" x 66" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,221.12	185.32
26 27 16 00-0217	EA		12" x 72" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,329.42	201.58
26 27 16 00-0218	EA		18" x 18" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	576.67	106.20
26 27 16 00-0219	EA		24" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	886.28	134.38
26 27 16 00-0220	EA		30" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,049.75	138.72
26 27 16 00-0221	EA		36" x 36" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,329.27	151.73
26 27 16 00-0222			12" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0223	EA		12" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	860.06	107.30
26 27 16 00-0224	EA		12" x 54" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	964.39	120.30
26 27 16 00-0225	EA		12" x 60" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,067.65	133.30
26 27 16 00-0226	EA		12" x 66" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,180.81	147.38
26 27 16 00-0227	EA		12" x 72" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,285.13	160.40
26 27 16 00-0228	EA		18" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	642.58	80.20
26 27 16 00-0229	EA		18" x 32" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	860.06	107.30
26 27 16 00-0230	EA		18" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	964.39	120.30
26 27 16 00-0231	EA		18" x 42" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,135.30	140.89
26 27 16 00-0232	EA		18" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,285.13	160.40
26 27 16 00-0233	EA		30" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,221.35	158.23
26 27 16 00-0234	EA		36" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,285.13	160.40
26 27 16 00-0235	EA		36" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,353.81	164.73
26 27 16 00-0236	EA		36" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,508.20	173.40
26 27 16 00-0237	EA		42" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,635.88	182.07
26 27 16 00-0238			Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0193)		
26 27 16 00-0239			4" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0240	EA		4" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	64.03	17.34
26 27 16 00-0241	EA		6" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	77.45	21.67
26 27 16 00-0242	EA		6" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	85.52	23.84
26 27 16 00-0243	EA		8" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	94.78	26.01
26 27 16 00-0244	EA		8" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	110.08	30.35
26 27 16 00-0245	EA		10" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	119.93	32.51
26 27 16 00-0246	EA		10" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	130.62	34.68
26 27 16 00-0247	EA		12" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	130.05	34.68



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0248	EA			12" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	142.07	36.85
26 27 16 00-0249	EA			12" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	152.77	39.02
26 27 16 00-0250	EA			18" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	230.95	60.69
26 27 16 00-0251	EA			18" x 18" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	307.81	78.03
26 27 16 00-0252				6" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0238)</small>		
26 27 16 00-0253	EA			6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	89.13	26.01
26 27 16 00-0254	EA			8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	121.46	32.51
26 27 16 00-0255	EA			10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	137.59	36.85
26 27 16 00-0256	EA			10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	149.07	39.02
26 27 16 00-0257	EA			12" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	148.23	39.02
26 27 16 00-0258	EA			12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	160.38	41.18
26 27 16 00-0259	EA			12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	172.65	43.35
26 27 16 00-0260	EA			16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	225.31	56.36
26 27 16 00-0261	EA			18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	259.53	67.20
26 27 16 00-0262	EA			18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	346.12	86.69
26 27 16 00-0263	EA			24" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	361.50	93.20
26 27 16 00-0264	EA			24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	412.75	99.71
26 27 16 00-0265	EA			24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	464.68	108.38
26 27 16 00-0266				8" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0238)</small>		
26 27 16 00-0267	EA			12" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	193.20	47.69
26 27 16 00-0268	EA			18" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	280.09	73.69
26 27 16 00-0269	EA			18" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	382.91	95.37
26 27 16 00-0270	EA			24" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	456.72	110.54
26 27 16 00-0271	EA			24" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	516.39	119.21
26 27 16 00-0272	EA			30" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	573.28	125.71
26 27 16 00-0273				10" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0238)</small>		
26 27 16 00-0274	EA			18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	422.50	106.20
26 27 16 00-0275	EA			24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	568.04	134.38
26 27 16 00-0276	EA			30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	622.67	138.72
26 27 16 00-0277				12" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0238)</small>		
26 27 16 00-0278	EA			24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	627.46	147.38
26 27 16 00-0279	EA			30" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	871.20	160.40
26 27 16 00-0280	EA			36" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	900.33	164.73
26 27 16 00-0281	EA			36" x 36" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	1,051.80	173.40
26 27 16 00-0282				NEMA 4 Enclosures, Lockable <small>(26 27 16)</small>		
				Note: Water-tight enclosures.		
26 27 16 00-0283				Hinge Cover, Painted Steel NEMA 4 Enclosures <small>(26 27 16 00-0282)</small>		
26 27 16 00-0284	EA			4" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	110.39	15.17
26 27 16 00-0285	EA			6" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	128.55	18.43
26 27 16 00-0286	EA			8" x 6" x 3.5" Hinge Cover, Painted Steel NEMA 4 Enclosure	160.56	23.84
26 27 16 00-0287	EA			6" x 6" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	152.33	23.84
26 27 16 00-0288	EA			10" x 8" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	203.34	32.51
26 27 16 00-0289	EA			12" x 10" x 5" Hinge Cover, Painted Steel NEMA 4 Enclosure	253.90	39.02
26 27 16 00-0290	EA			10" x 8" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	234.23	36.85
26 27 16 00-0291	EA			12" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	272.93	43.35
26 27 16 00-0292	EA			14" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	321.59	49.85
26 27 16 00-0293	EA			16" x 14" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	388.88	62.86
26 27 16 00-0294				Clamp Cover, Painted Steel NEMA 4 Enclosures <small>(26 27 16 00-0282)</small>		
26 27 16 00-0295	EA			4" x 4" x 3" Clamp Cover, Painted Steel NEMA 4 Enclosure	100.82	15.17
26 27 16 00-0296	EA			6" x 6" x 4" Clamp Cover, Painted Steel NEMA 4 Enclosure	142.78	23.84
26 27 16 00-0297				Screw Cover, Fiberglass NEMA 4 Or 4x Enclosures <small>(26 27 16 00-0282)</small>		
26 27 16 00-0298	EA			6" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	125.93	20.81
26 27 16 00-0299	EA			8" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	133.62	22.55
26 27 16 00-0300	EA			10" x 8" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	163.32	29.47
26 27 16 00-0301	EA			12" x 10" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	191.54	32.51
26 27 16 00-0302	EA			14" x 12" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure	248.25	41.18
26 27 16 00-0303	EA			16" x 14" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure	290.05	48.77
26 27 16 00-0304	EA			18" x 16" x 10", Screw Cover, Fiberglass NEMA 4 Enclosure	404.70	78.03
26 27 16 00-0305				NEMA 4X Enclosures, Lockable <small>(26 27 16)</small>		
				Note: Water-tight enclosures.		
26 27 16 00-0306				Clamp Cover, Aluminum NEMA 4X Enclosures <small>(26 27 16 00-0305)</small>		
26 27 16 00-0307	EA			6" x 4" x 3" Clamp Cover, Aluminum NEMA 4X Enclosure	224.78	17.34

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 27 Low-Voltage Distribution Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0308	EA		6" x 6" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	263.67	23.84
26 27 16 00-0309	EA		10" x 8" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	333.30	32.51
26 27 16 00-0310	EA		12" x 10" x 5" Clamp Cover, Aluminum NEMA 4X Enclosure	404.81	39.02
26 27 16 00-0311	EA		14" x 12" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	498.39	49.85
26 27 16 00-0312	EA		16" x 14" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	586.97	62.86
26 27 16 00-0313			Clamp Cover, 304 Stainless Steel NEMA 4X Enclosures <small>(26 27 16 00-0305)</small>		
26 27 16 00-0314	EA		4" x 4" x 3", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	275.74	15.17
			<i>For 316 Stainless Steel, Add</i>	38.05	
26 27 16 00-0315	EA		6" x 4" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	358.48	21.67
			<i>For 316 Stainless Steel, Add</i>	48.69	
26 27 16 00-0316	EA		6" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	406.28	23.84
			<i>For 316 Stainless Steel, Add</i>	55.47	
26 27 16 00-0317	EA		8" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	465.08	26.01
			<i>For 316 Stainless Steel, Add</i>	64.01	
26 27 16 00-0318	EA		10" x 8" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	571.16	32.51
			<i>For 316 Stainless Steel, Add</i>	78.38	
26 27 16 00-0319	EA		12" x 10" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	803.72	41.18
			<i>For 316 Stainless Steel, Add</i>	112.12	
26 27 16 00-0320	EA		14" x 12" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	1,002.08	49.85
			<i>For 316 Stainless Steel, Add</i>	140.39	
26 27 16 00-0321	EA		16" x 14" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	1,207.84	62.86
			<i>For 316 Stainless Steel, Add</i>	168.11	
26 27 16 00-0322			Screw Cover, Polycarbonate NEMA 4X Enclosures <small>(26 27 16 00-0305)</small>		
			Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0323	EA		6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	136.19	23.84
26 27 16 00-0324	EA		8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	153.70	26.01
26 27 16 00-0325	EA		8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	175.63	30.35
26 27 16 00-0326	EA		10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	191.13	32.51
26 27 16 00-0327	EA		12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	221.10	36.85
26 27 16 00-0328	EA		10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	207.00	36.85
26 27 16 00-0329	EA		12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	241.95	41.18
26 27 16 00-0330	EA		14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	304.00	49.85
26 27 16 00-0331	EA		16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	386.33	68.28
26 27 16 00-0332	EA		18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	492.90	98.29
26 27 16 00-0333	EA		6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	147.29	23.84
26 27 16 00-0334	EA		8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	166.81	26.01
26 27 16 00-0335	EA		8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	189.74	30.35
26 27 16 00-0336	EA		10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	208.25	32.51
26 27 16 00-0337	EA		12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	239.24	36.85
26 27 16 00-0338	EA		10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	224.14	36.85
26 27 16 00-0339	EA		12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	265.20	41.18
26 27 16 00-0340	EA		14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	316.09	49.85
26 27 16 00-0341	EA		16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	411.54	68.28
26 27 16 00-0342	EA		18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	520.10	98.29
26 27 16 00-0343			Hinged Cover, Polycarbonate NEMA 4X Enclosures <small>(26 27 16 00-0305)</small>		
			Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0344	EA		6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	167.44	23.84
26 27 16 00-0345	EA		8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	178.90	26.01
26 27 16 00-0346	EA		8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	202.83	30.35
26 27 16 00-0347	EA		10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	219.34	32.51
26 27 16 00-0348	EA		12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	260.41	36.85
26 27 16 00-0349	EA		10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	238.24	36.85
26 27 16 00-0350	EA		12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	294.41	41.18
26 27 16 00-0351	EA		14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	349.35	49.85
26 27 16 00-0352	EA		16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	425.64	68.28
26 27 16 00-0353	EA		18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	544.28	98.29
26 27 16 00-0354	EA		6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	175.50	23.84
26 27 16 00-0355	EA		8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	194.00	26.01
26 27 16 00-0356	EA		8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	216.94	30.35
26 27 16 00-0357	EA		10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	234.45	32.51
26 27 16 00-0358	EA		12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	280.57	36.85
26 27 16 00-0359	EA		10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	255.36	36.85
26 27 16 00-0360	EA		12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	315.58	41.18
26 27 16 00-0361	EA		14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	359.43	49.85
26 27 16 00-0362	EA		16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	458.89	68.28
26 27 16 00-0363	EA		18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	579.56	98.29
26 27 16 00-0364			NEMA 7/9 Enclosures, Lockable <small>(26 27 16)</small>		
			Note: Nominal inside dimensions.		
26 27 16 00-0365			4" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0366	EA		6" x 6" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,262.44	121.92
			<i>For Mounting Pan, Add</i>	53.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0367 EA 6" x 8" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	1,005.30 100.47	130.05
26 27 16 00-0368 EA 8" x 10" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	1,969.50 138.54	146.30
26 27 16 00-0369 6" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0370 EA 8" x 8" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	1,750.69 70.45	146.30
26 27 16 00-0371 EA 8" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	2,282.72 138.54	150.37
26 27 16 00-0372 EA 8" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	2,335.46 105.98	162.56
26 27 16 00-0373 EA 10" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	2,396.96 123.99	162.56
26 27 16 00-0374 EA 10" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	3,390.06 162.67	203.20
26 27 16 00-0375 EA 12" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	3,196.12 101.57	182.88
26 27 16 00-0376 EA 12" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	3,305.85 151.98	203.20
26 27 16 00-0377 EA 12" x 24" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	5,104.51 204.47	365.76
26 27 16 00-0378 EA 14" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	4,054.84 199.08	243.84
26 27 16 00-0379 EA 16" x 16" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	5,317.97 182.77	406.40
26 27 16 00-0380 EA 18" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	6,376.95 297.12	406.40
26 27 16 00-0381 8" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0382 EA 8" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	2,726.03 105.98	182.88
26 27 16 00-0383 EA 10" x 10" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	2,745.14 123.99	182.88
26 27 16 00-0384 EA 10" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	3,109.18 162.67	182.88
26 27 16 00-0385 EA 12" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	3,445.35 101.57	203.20
26 27 16 00-0386 EA 12" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	5,005.90 151.98	365.76
26 27 16 00-0387 EA 12" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	6,091.45 204.47	447.05
26 27 16 00-0388 EA 12" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	9,573.25 307.50	528.33
26 27 16 00-0389 EA 14" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	5,483.47 199.08	447.05
26 27 16 00-0390 EA 16" x 16" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	5,633.28 182.77	447.05
26 27 16 00-0391 EA 16" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	8,399.55 273.96	487.69
26 27 16 00-0392 EA 18" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	6,936.00 297.12	447.05
26 27 16 00-0393 EA 18" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	9,269.03 434.48	487.69
26 27 16 00-0394 EA 18" x 30" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	9,205.43 579.22	487.69
26 27 16 00-0395 EA 18" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	14,295.79 723.92	650.25
26 27 16 00-0396 EA 24" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	10,879.08 673.12	528.33
26 27 16 00-0397 EA 24" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	19,715.75 921.49	812.81
26 27 16 00-0398 10" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0399 EA 12" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	9,958.63 307.50	528.33
26 27 16 00-0400 EA 16" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	9,167.13 273.96	487.69
26 27 16 00-0401 EA 18" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	9,987.31 434.48	528.33
26 27 16 00-0402 EA 18" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	12,619.76 723.92	568.97
26 27 16 00-0403 EA 24" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	11,164.21 673.12	568.97
26 27 16 00-0404 EA 24" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	21,481.19 921.49	812.81

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 27 16 00-0405		12" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0406	EA	12" x 24" x 12" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	6,228.90 204.47	447.05
26 27 16 00-0407		Breaker Enclosures <small>(26 27 16)</small> See CSI section 26 24 16 00-0001 for lighting and power panel boards.		
26 27 16 00-0408		15 To 100 Amperes, F-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0409	EA	NEMA 1, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	351.40	86.69
26 27 16 00-0410	EA	NEMA 3R, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	644.30	86.69
26 27 16 00-0411	EA	NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	1,586.14	119.21
26 27 16 00-0412	EA	NEMA 7, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	2,149.34	130.05
26 27 16 00-0413	EA	NEMA 9, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	1,568.25	130.05
26 27 16 00-0414	EA	NEMA 12, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	553.94	119.21
26 27 16 00-0415		15 To 250 Amperes, H Or J-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0416	EA	NEMA 1, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	560.52	119.21
26 27 16 00-0417	EA	NEMA 3R, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	1,029.55	119.21
26 27 16 00-0418	EA	NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	3,510.26	151.73
26 27 16 00-0419	EA	NEMA 12, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	851.56	151.73
26 27 16 00-0420		125 To 400 Amperes, L-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0421	EA	NEMA 1, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	878.98	238.42
26 27 16 00-0422	EA	NEMA 3R, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	2,036.60	238.42
26 27 16 00-0423	EA	NEMA 3/3R/4/4X/5/12, Stainless Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	5,949.76	303.45
26 27 16 00-0424	EA	NEMA 12, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	1,457.25	303.45
26 27 16 00-0425		300 To 800 Amperes, M-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0426	EA	NEMA 1, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	1,721.29	455.18
26 27 16 00-0427	EA	NEMA 3R, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	2,943.75	455.18
26 27 16 00-0428	EA	NEMA 3/3R/4/4X/5/12, Stainless Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	10,706.06	585.22
26 27 16 00-0429	EA	NEMA 12, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	5,802.11	585.22
26 27 16 00-0430		250 To 1,200 Amperes, P-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0431	EA	NEMA 1, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	2,097.07	455.18
26 27 16 00-0432	EA	NEMA 3R, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	3,538.02	455.18
26 27 16 00-0433	EA	NEMA 3R/5/12, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	7,290.16	585.22
26 27 16 00-0434		Legend Plates <small>(26 27 16)</small>		
26 27 16 00-0435	EA	3" Phenolic Plastic Cabinet Legend Plate Engraved With 1/2" Letters.....	18.78	5.42
26 27 16 00-0436	EA	3" Engraved Aluminum Cabinet Legend Plate Engraved With 1/2" Letters.....	21.10	5.42
26 27 23		Indoor Service Poles <small>(26 27)</small>		
26 27 23 00-0001		Communication And Power Poles <small>(26 27 23)</small> Note: Includes separate compartments for power and communication cable. Includes removable cover plates with knock-outs for modular jacks and openings to accept modular furniture adapters for communication devices. Includes all necessary mounting plates and assemblies. Excludes electrical and communications wire, power outlets and communication devices. Wiremold Tele-Power Pole series.		
26 27 23 00-0002		Steel Communication And Power Poles <small>(26 27 23 00-0001)</small>		
26 27 23 00-0003		2-1/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0002)</small>		
26 27 23 00-0004		2-1/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0003)</small>		
26 27 23 00-0005	EA	2-1/4" x 2-5/16", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	279.22	48.02
26 27 23 00-0006	EA	2-1/4" x 2-5/16", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	303.02	48.02
26 27 23 00-0007	EA	2-1/4" x 2-5/16", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	330.55	48.02
26 27 23 00-0008		Additional Cover Plates For 2-1/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0003)</small> Note: Excludes receptacles, communication jacks and wiring.		
26 27 23 00-0009	EA	Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One Single Receptacle.....	57.17	9.90
26 27 23 00-0010	EA	Add-On 2-1/4" Width Steel Cover Plate For Three Duplex Receptacles.....	49.66	9.90
26 27 23 00-0011	EA	Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One GFCI Receptacle.....	56.13	9.90
26 27 23 00-0012	EA	Add-On 2-1/4" Width Steel Cover Plate For Data And A/V Modular Devices.....	41.78	9.90
26 27 23 00-0013	EA	Add-On 2-1/4" Width Steel Cover Plate Radius Control Entrance End Fitting.....	34.54	9.90
26 27 23 00-0014		2-3/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0002)</small>		



Electrical	26	26
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 23 00-0015 2-3/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0014)</small>		
26 27 23 00-0016 EA 2-3/4" x 1-17/32", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	360.84	48.02
26 27 23 00-0017 EA 2-3/4" x 1-17/32", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	411.99	48.02
26 27 23 00-0018 EA 2-3/4" x 1-17/32", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	439.59	48.02
26 27 23 00-0019 Additional Cover Plates For 2-3/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0014)</small>		
Note: Excludes receptacles and communication jacks.		
26 27 23 00-0020 EA Add-On 2-3/4" Width Steel Cover Plate For One Single Receptacle.....	38.58	9.90
26 27 23 00-0021 EA Add-On 2-3/4" Width Steel Cover Plate For One Duplex Receptacle.....	34.76	9.90
26 27 23 00-0022 EA Add-On 2-3/4" Width Steel Cover Plate For Data And A/V Modular Devices.....	37.49	9.90
26 27 23 00-0023 3" Width, Steel Communication And Power Poles <small>(26 27 23 00-0002)</small>		
26 27 23 00-0024 3" Width, Steel Communication And Power Poles <small>(26 27 23 00-0023)</small>		
26 27 23 00-0025 EA 3" x 2-3/4", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	469.23	48.02
26 27 23 00-0026 EA 3" x 2-3/4", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	530.80	48.02
26 27 23 00-0027 EA 3" x 2-3/4", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	571.38	48.02
26 27 23 00-0028 Additional Cover Plates For 3" Width, Steel Communication And Power Poles <small>(26 27 23 00-0023)</small>		
Note: Excludes receptacles and communication jacks.		
26 27 23 00-0029 EA Add-On 3" Width Steel Steel Cover Plate For One Single Receptacle.....	38.58	9.90
26 27 23 00-0030 EA Add-On 3" Width Steel Cover Plate For One Duplex Receptacle.....	34.76	9.90
26 27 23 00-0031 EA Add-On 3" Width Steel Cover Plate For Data And A/V Modular Devices.....	37.49	9.90
26 27 23 00-0032 Aluminum Communication And Power Poles <small>(26 27 23 00-0001)</small>		
26 27 23 00-0033 2-1/8" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0032)</small>		
26 27 23 00-0034 2-1/8" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0033)</small>		
26 27 23 00-0035 EA 2-1/8" x 2-3/8", 10'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	376.85	48.02
26 27 23 00-0036 EA 2-1/8" x 2-3/8", 12'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	419.90	48.02
26 27 23 00-0037 EA 2-1/8" x 2-3/8", 15'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	468.16	48.02
26 27 23 00-0038 Additional Cover Plates For 2-1/8" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0033)</small>		
26 27 23 00-0039 EA Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One Single Receptacle.....	58.64	9.90
26 27 23 00-0040 EA Add-On 2-1/8" Width Aluminum Cover Plate For Three Duplex Receptacles.....	59.86	9.90
26 27 23 00-0041 EA Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One GFCI Receptacle.....	63.90	9.90
26 27 23 00-0042 EA Add-On 2-1/8" Width Aluminum Cover Plate For Data And A/V Modular Devices.....	44.05	9.90
26 27 23 00-0043 EA Add-On 2-1/8" Width Aluminum Radius Control Entrance End Fitting.....	34.54	9.90
26 27 23 00-0044 2-1/4" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0032)</small>		
26 27 23 00-0045 EA 2-1/4" x 2-5/16", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	363.41	48.02
26 27 23 00-0046 EA 2-1/4" x 2-5/16", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	407.56	48.02
26 27 23 00-0047 EA 2-1/4" x 2-5/16", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	459.57	48.02
26 27 23 00-0048 5" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0032)</small>		
26 27 23 00-0049 EA 5" x 4-3/4", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	756.65	48.02
26 27 23 00-0050 EA 5" x 4-3/4", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	864.93	48.02
26 27 23 00-0051 EA 5" x 4-3/4", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	986.20	48.02
26 27 23 00-0052 2" Diameter, Round Aluminum Communication And Power Pole <small>(26 27 23 00-0032)</small>		
26 27 23 00-0053 EA 2" Diameter, 10'-4" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	412.75	48.02
26 27 23 00-0054 EA 2" Diameter, 10'-4" Height, Painted White Finish, Aluminum Communication And Power Pole.....	390.94	48.02
26 27 23 00-0055 EA 2" Diameter, 10'-4" Height, Polished Anodized Finish, Aluminum Communication And Power Pole.....	499.84	48.02
26 27 26 Wiring Devices <small>(26 27)</small>		
Note: Includes device, installation, wire connections, support clips (where necessary) and testing. Assemblies include outlet device, cover plate, mounting and appropriate box.		
26 27 26 00-0001 Receptacles <small>(26 27 26)</small>		
26 27 26 00-0002 General Use Receptacles <small>(26 27 26 00-0001)</small>		
26 27 26 00-0003 Receptacle Assemblies <small>(26 27 26 00-0002)</small>		
Note: Includes 4" square steel box, bracket, mud ring, receptacle and cover plate.		
26 27 26 00-0004 EA 15 Amperes, 1 Gang, NEMA 5-15, Duplex Receptacle Assembly.....	95.42	38.48
26 27 26 00-0005 EA 20 Amperes, 1 Gang, NEMA 5-20, Duplex Receptacle Assembly.....	102.30	41.18
26 27 26 00-0006 EA 15 Amperes, 2 Gang, NEMA 5-15, Duplex Receptacle Assembly.....	122.90	49.31

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 27 Low-Voltage Distribution Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0007	EA		20 Amperes, 2 Gang, NEMA 5-20, Duplex Receptacle Assembly	136.68	54.73
26 27 26 00-0008	EA		15 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly	115.34	38.48
26 27 26 00-0009	EA		20 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly	123.27	41.18
26 27 26 00-0010			Receptacle Components <small>(26 27 26 00-0002)</small>		
26 27 26 00-0011	EA		15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Single Receptacle	27.11	10.84
26 27 26 00-0012	EA		15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Duplex Receptacle	25.94	10.84
26 27 26 00-0013	EA		15 Amperes, 120/277 Volt, 3 Wire, Single Receptacle	32.79	10.84
26 27 26 00-0014	EA		15 Amperes, 120/277 Volt, 3 Wire, Duplex Receptacle	36.76	10.84
26 27 26 00-0015	EA		15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Single Receptacle	47.23	13.54
26 27 26 00-0016	EA		15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Duplex Receptacle	60.24	13.54
26 27 26 00-0017	EA		20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Single Receptacle	28.63	10.84
26 27 26 00-0018	EA		20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Duplex Receptacle	27.41	10.84
26 27 26 00-0019	EA		20 Amperes, 120/277 Volt, Single Receptacle	45.27	10.84
26 27 26 00-0020	EA		20 Amperes, 120/277 Volt, Duplex Receptacle	35.51	10.84
26 27 26 00-0021	EA		20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Single Receptacle	47.23	13.54
26 27 26 00-0022	EA		20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Duplex Receptacle	60.24	13.54
26 27 26 00-0023	EA		20 Amperes, 125/250 Volt, 1 Phase, NEMA 14-20, Single Receptacle	101.98	13.54
26 27 26 00-0024	EA		20 Amperes, 250 Volt, 3 Phase, NEMA 15-20, Single Receptacle	101.98	13.54
26 27 26 00-0025	EA		25 Amperes, 120/277 Volt, Duplex Receptacle	80.60	16.26
26 27 26 00-0026			Specialty Receptacles <small>(26 27 26 00-0001)</small>		
26 27 26 00-0027			Specialty Receptacles <small>(26 27 26 00-0026)</small>		
26 27 26 00-0028	EA		30 Amperes, 125 Volt, 1 Phase, NEMA 5-30, Single Receptacle	67.47	18.97
26 27 26 00-0029	EA		30 Amperes, 250 Volt, 1 Phase, NEMA 6-30, Single Receptacle	67.47	18.97
26 27 26 00-0030	EA		30 Amperes, 125/250 Volt, NEMA 10-30, Single Receptacles	76.66	18.97
26 27 26 00-0031	EA		30 Amperes, 125/250 Volt, 1 Phase, NEMA 14-30, Single Receptacle	112.81	18.97
26 27 26 00-0032	EA		30 Amperes, 250 Volt, 3 Phase, NEMA 15-30, Single Receptacle	118.23	21.67
26 27 26 00-0033	EA		50 Amperes, 125 Volt, 1 Phase, NEMA 5-50, Single Receptacle	107.41	21.67
26 27 26 00-0034	EA		50 Amperes, 250 Volt, 1 Phase, NEMA 6-50, Single Receptacle	104.36	21.67
26 27 26 00-0035	EA		50 Amperes, 277 Volt, NEMA 7-50, Single Receptacle	88.64	21.67
26 27 26 00-0036	EA		50 Amperes, 125/250 Volt, NEMA 10-50, Single Receptacle	92.94	21.67
26 27 26 00-0037	EA		50 Amperes, 125/250 Volt, 1 Phase, NEMA 14-50, Single Receptacle	134.87	21.67
26 27 26 00-0038	EA		50 Amperes, 250 Volt, 3 Phase, NEMA 15-50, Single Receptacle	140.29	24.38
26 27 26 00-0039	EA		60 Amperes, 125/250 Volt, 1 Phase, NEMA 14-60, Single Receptacle	154.02	27.10
26 27 26 00-0040	EA		60 Amperes, 250 Volt, 3 Phase, NEMA 15-60, Single Receptacle	164.86	32.51
26 27 26 00-0041	EA		100 Amperes, 480 Volt, 3 Phase, Joy Receptacle With Box, Complete	1,620.46	254.68
26 27 26 00-0042	EA		400 Amperes, 4 Pole Weatherproof Generator Receptacle With Box, Complete	4,303.75	311.58
26 27 26 00-0043	EA		30 Amperes, 230 Volt, Dryer Receptacle	81.54	21.67
26 27 26 00-0044	EA		60 Amperes, 230 Volt, Range Receptacle	118.52	32.51
26 27 26 00-0045	EA		15 Or 20 Amperes, 120/277 Volt, Clock Hanger Receptacle	83.95	13.54
26 27 26 00-0046	EA		Cable Reel With 20 Amperes, 120 Volt Receptacle, Complete	1,632.38	329.99
26 27 26 00-0047			Isolated Ground Receptacles <small>(26 27 26 00-0026)</small>		
26 27 26 00-0048	EA		15 Amperes, 125 Volt, NEMA 5-15R Isolated Ground Receptacle, Simplex	86.45	10.84
			Note: 2 Pole, 3 wire.		
26 27 26 00-0049	EA		20 Amperes, 120 Volt Isolated Ground Receptacles, Simplex	69.14	13.54
26 27 26 00-0050	EA		20 Amperes, 120 Volt Isolated Ground Receptacles, Duplex	68.84	13.54
26 27 26 00-0051	EA		30 Amperes, 120 Volt Isolated Ground Receptacles, Simplex	92.60	21.67
26 27 26 00-0052	EA		Locking 15 Amperes, 250 Volt Isolated Ground Receptacles	79.16	13.54
26 27 26 00-0053	EA		Locking 15 Amperes, 277 Volt Isolated Ground Receptacles	71.36	13.54
26 27 26 00-0054	EA		Locking 20 Amperes, 120/208 Volt Isolated Ground Receptacles	101.15	16.26
26 27 26 00-0055	EA		Locking 20 Amperes, 277/480 Volt Isolated Ground Receptacles	76.88	16.26
26 27 26 00-0056	EA		Locking 20 Amperes, 347/600 Volt Isolated Ground Receptacles	104.03	16.26
26 27 26 00-0057	EA		Locking 30 Amperes, 120/208 Volt Isolated Ground Receptacles	130.49	16.26
26 27 26 00-0058	EA		Locking 30 Amperes, 277 Volt Isolated Ground Receptacles	122.67	21.67
26 27 26 00-0059			Explosion Proof Receptacles <small>(26 27 26 00-0026)</small>		
26 27 26 00-0060	EA		1/2", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly	884.65	27.10
26 27 26 00-0061	EA		3/4", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly	814.10	29.80
26 27 26 00-0062	EA		3/4", 30 Amperes, 2 Watt, 3 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,352.56	54.18
26 27 26 00-0063	EA		3/4", 30 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,706.66	54.18
26 27 26 00-0064	EA		1-1/4", 60 Amperes, 2 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	2,156.94	81.28
26 27 26 00-0065	EA		1-1/4", 60 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	2,054.42	81.28
26 27 26 00-0066			Ground Fault Circuit Interrupter (GFCI) <small>(26 27 26 00-0026)</small>		
26 27 26 00-0067	EA		15 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle	43.16	13.54
26 27 26 00-0068	EA		20 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle	59.23	16.26
26 27 26 00-0069	EA		15 Amperes, 120 Volt, Ground Fault Circuit Interrupter (GFCI), Weatherproof Duplex Receptacle	46.60	18.46
26 27 26 00-0070	EA		20 Amperes, 120 Volt, Ground Fault Circuit Interrupter (GFCI), Weatherproof Duplex Receptacle	79.66	21.67
26 27 26 00-0071			Arc Fault Circuit Interrupter (AFCI) <small>(26 27 26 00-0026)</small>		
26 27 26 00-0072	EA		15 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle	86.61	13.54



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0073 EA 20 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle.....	96.26	13.54
26 27 26 00-0074 Locking Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0075 EA NEMA L5-15, 125 Volt, 2 Pole, 15 Amperes, Locking Receptacle.....	51.45	13.54
26 27 26 00-0076 EA NEMA L6-15, 250 Volt, 2 Pole, 15 Amperes, Locking Receptacle.....	64.09	13.54
26 27 26 00-0077 EA NEMA L5-20, 125 Volt, 2 Pole, 20 Amperes, Locking Receptacle.....	56.72	16.26
26 27 26 00-0078 EA NEMA L6-20, 250 Volt, 2 Pole, 20 Amperes, Locking Receptacle.....	56.16	16.26
26 27 26 00-0079 EA NEMA L8-20, 480 Volt, 2 Pole, 20 Amperes, Locking Receptacle.....	67.27	16.26
26 27 26 00-0080 EA NEMA L9-20, 600 Volt, 2 Pole, 20 Amperes, Locking Receptacle.....	81.65	16.26
26 27 26 00-0081 EA NEMA L10-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle.....	80.06	16.26
26 27 26 00-0082 EA NEMA L14-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle.....	69.55	16.26
26 27 26 00-0083 EA NEMA L5-30, 125 Volt, 2 Pole, 30 Amperes, Locking Receptacle.....	78.49	21.67
26 27 26 00-0084 EA NEMA L6-30, 250 Volt, 2 Pole, 30 Amperes, Locking Receptacle.....	79.83	21.67
26 27 26 00-0085 EA NEMA L15-30, 250 Volt, 3 Pole, 30 Amperes, Locking Receptacle.....	133.39	21.67
26 27 26 00-0086 Weathertight Pin And Sleeve Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0087 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R4W).....	263.44	54.18
26 27 26 00-0088 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R6W).....	262.80	54.18
26 27 26 00-0089 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R7W).....	274.89	54.18
26 27 26 00-0090 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R12W).....	337.01	59.61
26 27 26 00-0091 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R9W).....	338.02	59.61
26 27 26 00-0092 EA 20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R7W).....	335.69	59.61
26 27 26 00-0093 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R4W).....	403.56	66.65
26 27 26 00-0094 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R6W).....	383.89	66.65
26 27 26 00-0095 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R7W).....	414.68	66.65
26 27 26 00-0096 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R12W).....	417.38	73.15
26 27 26 00-0097 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R9W).....	417.00	73.15
26 27 26 00-0098 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R7W).....	419.79	73.15
26 27 26 00-0099 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R4W).....	591.28	86.69
26 27 26 00-0100 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R6W).....	567.47	86.69
26 27 26 00-0101 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R7W).....	582.97	86.69
26 27 26 00-0102 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R12W).....	649.24	96.45
26 27 26 00-0103 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R9W).....	649.70	96.45
26 27 26 00-0104 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R7W).....	650.16	96.45
26 27 26 00-0105 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R6W).....	722.37	108.38
26 27 26 00-0106 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R7W).....	752.90	108.38
26 27 26 00-0107 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R12W).....	809.34	119.21
26 27 26 00-0108 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R9W).....	807.05	119.21
26 27 26 00-0109 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R7W).....	811.36	119.21
26 27 26 00-0110 Corrosion Resistant Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0111 EA 15/20 Amperes, 125 Volt Corrosion Resistant, Power Receptacles.....	91.11	10.84
26 27 26 00-0112 EA 15/20 Amperes, 250 Volt Corrosion Resistant, Power Receptacles.....	191.20	13.54
26 27 26 00-0113 Tamper Resistant Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0114 EA 15 Amperes, 125 Volt Duplex Tamper Resistant Receptacle.....	27.09	10.84
Note: Pass & Seymour 3232-TR.		
26 27 26 00-0115 EA 20 Amperes, 125 Volt Duplex Tamper Resistant Receptacle.....	29.88	10.84
Note: Pass & Seymour TR20.		
26 27 26 00-0116 EA 15 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle.....	37.88	10.84
Note: Pass & Seymour TR5251.		
26 27 26 00-0117 EA 20 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle.....	41.64	10.84
Note: Pass & Seymour TR5351.		
26 27 26 00-0118 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Tamper Resistant Receptacle.....	64.19	10.84
Note: Pass & Seymour S1595-TR*CC8.		
26 27 26 00-0119 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle.....	69.56	10.84
Note: Pass & Seymour 1595-TRS.		
26 27 26 00-0120 EA 20 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle.....	74.69	10.84
Note: Pass & Seymour 2095-TRS.		
26 27 26 00-0121 USB Charger/Duplex Tamper-Resistant Receptacles <small>(26 27 26 00-0026)</small>		
26 27 26 00-0122 EA 15 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	66.20	10.84
26 27 26 00-0123 EA 20 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	71.76	10.84
26 27 26 00-0124 Television Receptacle <small>(26 27 26 00-0001)</small>		
26 27 26 00-0125 EA TV Receptacle With Cover (Type F), Complete.....	79.56	25.14
26 27 26 00-0126 Switches <small>(26 27 26)</small>		
26 27 26 00-0127 Switches <small>(26 27 26 00-0126)</small>		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0128			Switch Assemblies <small>(26 27 26 00-0127)</small>		
			Note: Includes 4" square steel box, bracket, mud ring, switch and cover plate.		
26 27 26 00-0129	EA		1 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	100.74	37.93
26 27 26 00-0130	EA		1 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	107.96	41.18
26 27 26 00-0131	EA		2 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	136.25	49.58
26 27 26 00-0132	EA		2 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	148.52	55.00
26 27 26 00-0133	EA		3 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	233.27	85.07
26 27 26 00-0134	EA		3 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	251.68	93.20
26 27 26 00-0135	EA		4 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	268.97	96.18
26 27 26 00-0136	EA		4 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	293.53	107.01
26 27 26 00-0137			Switch Components <small>(26 27 26 00-0127)</small>		
26 27 26 00-0138	EA		15 Amperes, 120/277 Volt, SPST Switch.....	32.35	10.84
26 27 26 00-0139	EA		15 Amperes, 120/277 Volt, 3-Way Switch.....	41.13	13.54
26 27 26 00-0140	EA		15 Amperes, 120/277 Volt, 4-Way Switch.....	84.06	21.67
26 27 26 00-0141	EA		15 Amperes, 120/277 Volt, DPST Switch	38.56	10.84
26 27 26 00-0142	EA		15 Amperes, 120/277 Volt, Thermal Switch.....	80.18	13.54
26 27 26 00-0143	EA		20 Amperes, 120/277 Volt, SPST Switch.....	38.50	13.54
26 27 26 00-0144	EA		20 Amperes, 120/277 Volt, 3-Way Switch.....	48.10	16.26
26 27 26 00-0145	EA		20 Amperes, 120/277 Volt, 4-Way Switch.....	121.00	21.67
26 27 26 00-0146	EA		20 Amperes, 120/277 Volt, DPST Switch	48.45	13.54
26 27 26 00-0147	EA		20 Amperes, 120/277 Volt, DPDT Switch	52.86	13.54
26 27 26 00-0148	EA		15 Amperes, 120/277 Volt, Single Pole, Toggle, Three Position, Center Off, Momentary Contact Switch	80.10	13.57
26 27 26 00-0149	EA		15 Amperes, 120/277 Volt, Key Operated, Single Pole, Three Position, Center Off, Momentary Contact Switch	101.33	13.57
26 27 26 00-0150	EA		Momentary Contact Switch With Separate Neon Pilot.....	76.75	16.29
			Note: Neon Pilot is 125 V, 1 / 125W.		
26 27 26 00-0151	EA		20 Amperes, 125 Volt AC, Single Pole, Maintained Contact Switch With Center Off.....	60.05	18.97
			Note: Or 250 VAC 10 Amp, double throw BAT handle.		
26 27 26 00-0152	EA		20 Amperes, 125 Volt AC, Double Pole, Maintained Contact Switch.....	75.57	21.67
			Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.		
26 27 26 00-0153	EA		20 Amperes, 125 Volt AC, Three Pole, Maintained Contact Switch.....	121.10	21.67
			Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.		
26 27 26 00-0154	EA		30 Amperes, 120/277 Volt, Single Pole, Local Switch	79.66	21.71
26 27 26 00-0155	EA		30 Amperes, 120/277 Volt, Double Pole, Local Switch	98.75	21.71
26 27 26 00-0156	EA		30 Amperes, 120/277 Volt, Three-Way Local Switch.....	102.79	27.15
26 27 26 00-0157	EA		30 Amperes, 120/277 Volt, Four-Way Local Switch.....	144.37	29.86
26 27 26 00-0158	EA		15 Amperes, 120/277 Volt, Local Switch With Neon Pilot.....	66.87	17.76
26 27 26 00-0159	EA		15 Amperes, 120/277 Volt, Local Switch With Separate Neon Pilot	95.96	17.76
			Note: Neon pilot is 125V, 1/25W. Requires 2 gang installation.		
26 27 26 00-0160	EA		15 Amperes, 120 Volt, Clear Toggle, Lighted In On Position, Single Pole, Lighted Toggle Switch.....	83.42	17.76
26 27 26 00-0161	EA		15 Amperes, 120 Volt, Ivory Toggle, Lighted In Off Position, Lighted Toggle Switch.....	79.10	17.76
26 27 26 00-0162	EA		6 Amperes, 125 Volt, Door Open-Light On, Automatic Door Switch	89.86	8.80
26 27 26 00-0163	EA		6 Amperes, 125 Volt, Door Closed-Light On, Automatic Door Switch.....	95.71	8.80
26 27 26 00-0164	EA		15 Amperes, 120/277 Volt, Three Position, Center Off, Toggle, Single Pole Momentary Contact Switch	100.41	33.88
26 27 26 00-0165	EA		Three Position, Center Off, Key Operated, Momentary Contact Switch.....	121.64	33.88
			Note: 15A, 120/277 V, Single Pole		
26 27 26 00-0166	EA		Single Pole, Slide Dimmer (Leviton IP710-LFZ)	147.10	10.86
26 27 26 00-0167	EA		8 Amperes, 120/277 Volt, 0 To 10 Volt Dimmer LED Control Switch, White (Lutron DVSTV-WH)	90.09	10.86
26 27 26 00-0168	EA		120/277 Volt, (8 Amperes Lighting/3 Amperes Fan), Wireless Dimming Switch (Lutron MRF2-8S-DV-WH).....	250.17	10.84
26 27 26 00-0169	EA		120 Volt, Companion Wireless Dimmer Switch (Lutron MA-AS-WH).....	47.45	10.84
26 27 26 00-0170	EA		1200VA 0-10V LED And Fluorescent, Sunrise Electronic Wall Dimmer (Philips SR1200ZTUNV).....	96.41	10.86
26 27 26 00-0171	EA		1 Zone, 2 Button Wireless Scheduling Switch (LG 9SSA2B1T520.ALWB000).....	111.55	10.86
26 27 26 00-0172	EA		2 Zone, 4 Button Wireless Scheduling Switch (LG 9SSA2B2T520.ALWB000).....	144.57	10.86
26 27 26 00-0173	EA		Wireless Single Rocker Remote Switch (Leviton WSS0S-S9).....	151.51	10.86
26 27 26 00-0174			Specialty Switches <small>(26 27 26 00-0126)</small>		
26 27 26 00-0175			Dimmers With SPST Switch <small>(26 27 26 00-0174)</small>		
26 27 26 00-0176	EA		600 Watt Dimmers With SPST Switch	71.84	24.38
26 27 26 00-0177	EA		1,000 Watt Dimmers With SPST Switch	143.87	24.38
26 27 26 00-0178	EA		1,500 Watt Dimmers With SPST Switch	264.48	39.23
26 27 26 00-0179	EA		2,000 Watt Dimmers With SPST Switch	356.39	39.23
26 27 26 00-0180	EA		600 Watt Fluorescent Dimmer Switch.....	190.32	28.93
26 27 26 00-0181	EA		1,000 Watt Fluorescent Dimmer Switch	269.40	28.93
26 27 26 00-0182	EA		1,500 Watt Fluorescent Dimmer Switch.....	497.63	43.68
26 27 26 00-0183	EA		Remote Speed Switch For Paddle Fan	123.08	36.09
26 27 26 00-0184	EA		600 Watt Combination Remote Speed Switch/Incandescent Dimmer	209.52	53.86
26 27 26 00-0185			Time Switches <small>(26 27 26 00-0174)</small>		
26 27 26 00-0186	EA		40 Amperes, 125 Volt, SPST, Standard Time Switch	148.22	32.51
26 27 26 00-0187	EA		40 Amperes, 277 Volt, SPST, Standard Time Switch	152.38	32.51
26 27 26 00-0188	EA		40 Amperes, 125 Volt, DPST, Standard Time Switch	148.22	32.51
26 27 26 00-0189	EA		40 Amperes, 277 Volt, DPST, Standard Time Switch.....	152.38	32.51
26 27 26 00-0190	EA		40 Amperes, 125 Volt, SPST, 7-Day Time Switch	175.95	32.51
26 27 26 00-0191	EA		40 Amperes, 277 Volt, SPST, 7-Day Time Switch	175.95	32.51
26 27 26 00-0192	EA		40 Amperes, 125 Volt, DPDT, 7-Day Time Switch.....	339.58	32.51
26 27 26 00-0193	EA		40 Amperes, 277 Volt, DPDT, 7-Day Time Switch.....	339.58	32.51
26 27 26 00-0194	EA		20 Amperes, 125 Volt, SPST, Programmable Time Switch	287.08	32.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0195 EA 20 Amperes, 277 Volt, SPST, Programmable Time Switch	319.14	32.51
26 27 26 00-0196 EA 20 Amperes, 277 Volt, SPST, Weatherproof Programmable Time Switch	319.14	32.51
26 27 26 00-0197 EA 40 Amperes, 125 Volt, 4PST, Astro Dial Time Switch	394.91	32.51
26 27 26 00-0198 EA 40 Amperes, 277 Volt, 4PST, Astro Dial Time Switch	407.67	32.51
26 27 26 00-0199 EA 40 Amperes, 125 Volt, SPST, Weatherproof Standard Time Switch	148.22	32.51
26 27 26 00-0200 EA 40 Amperes, 277 Volt, SPST, Weatherproof Standard Time Switch	152.38	32.51
26 27 26 00-0201 EA 40 Amperes, 125 Volt, DPST, Weatherproof Standard Time Switch	148.22	32.51
26 27 26 00-0202 EA 40 Amperes, 277 Volt, DPST, Weatherproof Standard Time Switch	152.38	32.51
26 27 26 00-0203 EA 40 Amperes, 125 Volt, SPST, Weatherproof 7-Day Time Switch	175.95	32.51
26 27 26 00-0204 EA 40 Amperes, 277 Volt, SPST, Weatherproof 7-Day Time Switch	175.95	32.51
26 27 26 00-0205 EA 40 Amperes, 125 Volt, DPDT, Weatherproof 7-Day Time Switch	339.58	32.51
26 27 26 00-0206 EA 40 Amperes, 277 Volt, DPDT, Weatherproof 7-Day Time Switch	339.58	32.51
26 27 26 00-0207 EA 40 Amperes, 125 Volt, 4PST, Weatherproof Astro Dial Time Switch	394.91	32.51
26 27 26 00-0208 EA 40 Amperes, 277 Volt, 4PST, Weatherproof Astro Dial Time Switch	407.67	32.51
26 27 26 00-0209 Low Voltage Switching (26 27 26 00-0174)		
26 27 26 00-0210 EA 36 Pin Male Or Female Connector	290.66	10.84
26 27 26 00-0211 Other Switches (26 27 26 00-0174)		
26 27 26 00-0212 EA Pull Chain Switch 120/277 Volt AC Installed In Light Fixture	37.65	16.26
26 27 26 00-0213 EA SPST Locking Switch For Concealed Devices	122.47	43.35
26 27 26 00-0214 EA 3-Way Locking Switch For Concealed Devices	124.68	43.35
26 27 26 00-0215 EA Emergency Off Switch, With 1 Non-Closing Contact, Circular, Red, With Guard	144.42	40.53
26 27 26 00-0216 EA 15 Amperes Momentary Contact Switch	135.34	40.53
26 27 26 00-0217 EA 20 Amperes Momentary Contact Switch	144.90	40.53
26 27 26 00-0218 EA 2-1/4" Handy Box Cover Units Fuseholder Switch	124.41	48.86
26 27 26 00-0219 EA 2-3/4" Handy Box Cover Units Fuseholder Switch	127.08	48.86
26 27 26 00-0220 EA 4" Square Box Cover Units With 2 Fuseholders And 2 Switches	156.79	59.72
26 27 26 00-0221 EA 4" Square Box Cover Units With 1 Fuseholder And 1 Switch	142.60	54.28
26 27 26 00-0222 EA 4" Octagon Box Cover Units With 1 Fuseholder And 1 Switch	143.27	54.28
26 27 26 00-0223 Plates And Covers (26 27 26)		
26 27 26 00-0224 Wall Plates (26 27 26 00-0223)		
26 27 26 00-0225 Nylon Wall Plates (26 27 26 00-0224)		
26 27 26 00-0226 EA 1 Gang Nylon Switch Wall Plates	1.77	0.54
26 27 26 00-0227 EA 2 Gang Nylon Switch Wall Plates	3.02	0.81
26 27 26 00-0228 EA 3 Gang Nylon Switch Wall Plates	4.31	1.08
26 27 26 00-0229 EA 4 Gang Nylon Switch Wall Plate	6.24	1.36
26 27 26 00-0230 EA 1 Gang Duplex Nylon Wall Plate	1.79	0.54
26 27 26 00-0231 EA 2 Gang Duplex Nylon Wall Plate	3.10	0.81
26 27 26 00-0232 Plastic Wall Plates (26 27 26 00-0224)		
26 27 26 00-0233 EA 1 Gang Plastic Switch Wall Plates	1.63	0.54
26 27 26 00-0234 EA 2 Gang Plastic Switch Wall Plates	2.75	0.81
26 27 26 00-0235 EA 3 Gang Plastic Switch Wall Plates	3.86	1.08
26 27 26 00-0236 EA 4 Gang Plastic Switch Wall Plates	6.24	1.36
26 27 26 00-0237 EA 1 Gang Duplex Plastic Wall Plate	1.63	0.54
26 27 26 00-0238 EA 2 Gang Duplex Plastic Wall Plate	2.75	0.81
26 27 26 00-0239 Brass Wall Plates (26 27 26 00-0224)		
26 27 26 00-0240 EA 1 Gang, 0.04" Brass Switch Wall Plates	17.97	2.44
26 27 26 00-0241 EA 2 Gang, 0.04" Brass Switch Wall Plates	34.06	2.82
26 27 26 00-0242 EA 3 Gang, 0.04" Brass Switch Wall Plates	50.04	3.15
26 27 26 00-0243 EA 4 Gang, 0.04" Brass Switch Wall Plates	78.16	3.42
26 27 26 00-0244 EA 5 Gang, 0.04" Brass Switch Wall Plates	95.31	3.64
26 27 26 00-0245 EA 6 Gang, 0.04" Brass Switch Wall Plates	110.41	3.80
26 27 26 00-0246 EA 1 Gang, 0.04" Brass Duplex Receptacle Wall Plate	17.97	2.44
26 27 26 00-0247 EA 2 Gang, 0.04" Brass Duplex Receptacle Wall Plate	40.02	2.82
26 27 26 00-0248 EA 3 Gang 0.04" Brass Duplex Receptacle Wall Plate	57.90	3.15
26 27 26 00-0249 Stainless Steel Wall Plates (26 27 26 00-0224)		
26 27 26 00-0250 EA 1 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	9.37	2.44
26 27 26 00-0251 EA 2 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	15.25	2.82
26 27 26 00-0252 EA 3 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	21.48	3.15
26 27 26 00-0253 EA 4 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	31.78	3.42
26 27 26 00-0254 EA 5 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	37.50	3.64
26 27 26 00-0255 EA 6 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	45.49	3.80
26 27 26 00-0256 EA 1 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	10.31	2.44
26 27 26 00-0257 EA 2 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	17.48	2.82
26 27 26 00-0258 EA 3 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	28.87	3.15
26 27 26 00-0259 EA 4 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	34.98	3.42

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 27 Low-Voltage Distribution Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0260			Chrome Wall Plates <small>(26 27 26 00-0224)</small>		
26 27 26 00-0261	EA		1 Gang, 0.040" Chrome Switch Wall Plate.....	36.50	2.44
26 27 26 00-0262	EA		2 Gang 0.040" Chrome Switch Wall Plate.....	68.77	2.82
26 27 26 00-0263	EA		3 Gang 0.040" Chrome Switch Wall Plate.....	101.03	3.15
26 27 26 00-0264	EA		1 Gang 0.040" Chrome Duplex Receptacle Wall Plate.....	36.47	2.44
26 27 26 00-0265			Weatherproof Covers <small>(26 27 26 00-0223)</small>		
26 27 26 00-0266			Stamped Metallic Weatherproof Covers <small>(26 27 26 00-0265)</small>		
			Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0267	EA		Blank Cover, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FBC).....	11.06	0.54
26 27 26 00-0268	EA		Duplex Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FAC).....	11.99	0.54
26 27 26 00-0269	EA		Single Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FRC).....	11.99	0.54
26 27 26 00-0270	EA		Toggle Switch, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FTC).....	11.99	0.54
26 27 26 00-0271	EA		Blank Cover, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FBC).....	14.71	0.81
26 27 26 00-0272	EA		Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FAC).....	16.70	0.81
26 27 26 00-0273	EA		Single Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FRC).....	16.90	0.81
26 27 26 00-0274	EA		Toggle Switch, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTC).....	16.90	0.81
26 27 26 00-0275	EA		Toggle Switch And Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTAC).....	22.98	0.81
26 27 26 00-0276	EA		Blank Cover, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FB).....	21.76	1.08
26 27 26 00-0277	EA		Toggle Switch, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FT).....	23.80	1.08
26 27 26 00-0278			Cast Metallic Weatherproof Covers <small>(26 27 26 00-0265)</small>		
			Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0279	EA		Blank Cover, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSBC).....	13.55	0.54
26 27 26 00-0280	EA		Duplex Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLA).....	43.31	0.54
26 27 26 00-0281	EA		Single Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLR).....	48.57	0.54
26 27 26 00-0282	EA		Guarded Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSTG).....	13.45	0.54
26 27 26 00-0283	EA		Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLT).....	36.71	0.54
26 27 26 00-0284	EA		Lever Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSPT).....	61.08	0.54
26 27 26 00-0285	EA		Plunger Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FST).....	77.77	0.54
26 27 26 00-0286	EA		Blank Cover, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FSBC).....	16.90	0.81
26 27 26 00-0287	EA		Plunger Operated Toggle Switch, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FST).....	122.86	0.81
26 27 26 00-0288	EA		Blank Cover, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FSBC).....	28.29	1.08
26 27 26 00-0289	EA		Plunger Operated Toggle Switch, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FST).....	117.36	1.08
26 27 26 00-0290			Die Cast Aluminum Weatherproof Covers <small>(26 27 26 00-0265)</small>		
			Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0291	EA		Duplex Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5027).....	4.91	0.54
26 27 26 00-0292	EA		Single Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5026).....	6.31	0.54
26 27 26 00-0293	EA		Duplex Receptacles, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5032).....	8.47	0.81
26 27 26 00-0294	EA		Toggle Switch, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5041).....	9.19	0.81
26 27 26 00-0295	EA		Toggle Switch And Duplex Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5042).....	9.19	0.81
26 27 26 00-0296	EA		Toggle Switch And Single Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5043).....	10.24	0.81
26 27 26 00-0297			Heavy Duty Die Cast Aluminum Weatherproof Covers <small>(26 27 26 00-0265)</small>		
			Note: Includes baked on lacquer finish and neoprene gasket.		
26 27 26 00-0298	EA		Duplex Receptacle, Single Gang, Heavy Duty Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Pass & Seymour Legrand® 4510).....	50.48	0.54
26 27 26 00-0299			Polycarbonate Weatherproof Covers <small>(26 27 26 00-0265)</small>		
			Note: Includes neoprene gasket.		
26 27 26 00-0300	EA		Toggle Switch, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730).....	10.14	0.54
26 27 26 00-0301	EA		Duplex Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730).....	10.14	0.54
26 27 26 00-0302	EA		Single Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730).....	10.14	0.54
26 27 26 00-0303	EA		Duplex Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775).....	12.53	0.81
26 27 26 00-0304	EA		Toggle Switch And Single Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775).....	12.53	0.81
26 27 26 00-0305			High Impact Thermoplastic Weatherproof Covers <small>(26 27 26 00-0265)</small>		
			Note: Includes neoprene gasket.		
26 27 26 00-0306	EA		Duplex Receptacle, Single Gang, High Impact Thermoplastic Weatherproof Cover With Self Closing Lid (Hubbell® HBL522).....	85.22	0.54
26 27 26 00-0307			Non Metallic (PVC) Weatherproof Covers <small>(26 27 26 00-0265)</small>		
			Note: Includes neoprene gasket.		
26 27 26 00-0308	EA		Blank Cover, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	13.53	0.54
26 27 26 00-0309	EA		Blank Cover, Two Gang, Non Metallic (PVC) Weatherproof Cover.....	14.44	0.81
26 27 26 00-0310	EA		Toggle Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	13.57	0.54
26 27 26 00-0311	EA		Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	30.16	0.54
26 27 26 00-0312	EA		Duplex Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	35.00	0.54
26 27 26 00-0313	EA		20 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	28.33	0.54



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0314 EA 30 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	21.06	0.54
26 27 26 00-0315 EA 50 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	24.68	0.54
26 27 26 00-0316 EA Plunger Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	22.05	0.54
26 27 26 00-0317 EA Double Duplex Receptacle, Two Gang, Non Metallic (PVC) Weatherproof Cover	31.73	0.81
26 27 26 00-0318 Removal And Reinstallation Of Wiring Devices <small>(26 27 26)</small>		
Note: Includes storage and cleaning.		
26 27 26 00-0319 EA Removal And Reinstallation Of Receptacle, Switch, Outlet Or Special System Device.....	71.30	
26 27 26 00-0320 EA Removal And Reinstallation Of Receptacle Or Switch Outlet Cover Plate	9.03	
26 27 26 00-0321 In Line Midget Fuseholders <small>(26 27 26)</small>		
See CSI section 26 28 13 00-0078 for fuses.		
26 27 26 00-0322 EA Single Pole Water Resistant In Line Midget Fuseholder	81.65	
26 27 26 00-0323 EA Double Pole Water Resistant In Line Midget Fuseholder	193.71	
26 27 26 00-0324 Relay Systems <small>(26 27 26)</small>		
26 27 26 00-0325 EA 10 Amperes, 24 Volt Coil, 2 Position Relay	84.45	24.38
26 27 26 00-0326 EA 20 Amperes, 120 Volt Coil, Up To 4 Contacts, Industrial Control Relay	367.11	81.28
26 27 26 00-0327 EA 20 Amperes, 120 Volt Coil, 12 Contacts, Industrial Control Relay	626.16	108.38
26 27 26 00-0328 Limit Switches <small>(26 27 26)</small>		
26 27 26 00-0329 Heavy Duty Precision Oiltight <small>(26 27 26 00-0328)</small>		
26 27 26 00-0330 Lever Arm, Plunger, Wobble Stick Type <small>(26 27 26 00-0329)</small>		
26 27 26 00-0331 EA Limit Switch, Heavy Duty, Lever Arm Weatherproof, 10 Amperes Rated	422.58	68.28
26 27 33 Power Distribution Units <small>(26 27)</small>		
Note: Includes wiring connections and testing.		
26 27 33 00-0001 Liebert Precision Power Center <small>(26 27 33)</small>		
Note: With K20 Trans Spike Suppression Modules Lighting/ Surge Arrestors. Includes start-up.		
26 27 33 00-0002 EA PDU 15 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC015C)	19,697.97	333.25
26 27 33 00-0003 EA PDU 30 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC030C)	23,792.61	361.21
26 27 33 00-0004 EA PDU 50 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC050C)	27,117.56	400.98
26 27 33 00-0005 EA PDU 75 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC075C)	31,206.57	433.49
26 27 33 00-0006 EA PDU 100 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC100C)	34,038.80	541.87
26 27 33 00-0007 EA PDU 125 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC125C)	38,178.78	650.25
26 27 33 00-0008 EA PDU 150 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC150C)	44,049.58	758.62
26 27 33 00-0009 EA PDU 200 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC200C)	46,304.87	866.99
26 27 33 00-0010 EA PDU 225 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC225C)	48,906.31	975.37
26 27 33 00-0011 EA Ex Panelboard 10-30 KVA	1,732.19	108.38
26 27 33 00-0012 EA Ex Panelboard 50-125 KVA	2,594.10	135.46
26 27 33 00-0013 EA Ex Panelboard 150-220 KVA	5,879.17	162.56
26 27 33 00-0014 EA Removal And Reinstallation Of Power Distribution Unit.....	1,733.99	
Note: Includes disconnection / reconnection of branch circuits, storage and cleaning.		
26 27 33 00-0015 EA Start-Up Liebert Power Distribution Unit Line Item Applies To A Relocation Only	1,300.49	
26 27 73 Door Chimes <small>(26 27)</small>		
26 27 73 00-0001 Door Bell Chime And Door Button With Built-In Viewer <small>(26 27 73)</small>		
Note: Non-electric chime, mounted on door		
26 27 73 00-0002 EA Mechanical Door Bell Chime And Door Button With Built-In Viewer (Newhouse Hardware MCHBV)	78.78	16.66
26 27 73 00-0003 Wireless Door Bell System <small>(26 27 73)</small>		
26 27 73 00-0004 EA Wireless Doorbell Chime And Push Button (Broan LA542WH)	128.99	
Note: Includes 2 push buttons		
26 27 73 00-0005 EA Wireless Doorbell Chime And Push Button (STI-3350G).....	121.26	
Note: Includes 2 push buttons		
26 27 73 00-0006 EA Wireless Doorbell Chime And Push Button (GE 19300)	89.70	
Note: Includes 2 push buttons		
26 27 73 00-0007 Door Bell Buzzer System, Wired <small>(26 27 73)</small>		
26 27 73 00-0008 EA Door Bell, Push-Button And Transformer, Complete	676.33	225.75
26 27 73 00-0009 EA Visual Flashing Doorbell Indicator, Wire To Existing System, Complete	319.42	54.18
26 27 73 00-0010 EA Removal And Replacement Of Bell/Buzzer, Complete	123.51	27.10
Note: Includes removal of existing.		
26 28 Low-Voltage Circuit Protective Devices <small>(26 28)</small>		
26 28 13 Fuses <small>(26 28)</small>		
26 28 13 00-0001 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuses <small>(26 28 13)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0042 EA 400 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	220.21	13.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.78	
26 28 13 00-0043 EA 450 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	483.50	13.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.78	
26 28 13 00-0044 EA 500 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	459.11	16.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.73	
26 28 13 00-0045 EA 600 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	359.61	16.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.73	
26 28 13 00-0046 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses ⁽²⁶		
<small>28 13 00-0013)</small>		
26 28 13 00-0047 EA 1 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	52.38	7.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 28 13 00-0048 EA 2 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	49.00	7.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 28 13 00-0049 EA 3 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	46.17	7.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 28 13 00-0050 EA 4 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	47.11	7.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 28 13 00-0051 EA 5 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	46.30	7.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 28 13 00-0052 EA 10 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	46.59	7.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 28 13 00-0053 EA 15 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	43.51	7.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 28 13 00-0054 EA 20 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	43.20	7.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 28 13 00-0055 EA 25 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	42.79	7.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 28 13 00-0056 EA 30 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	43.40	7.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 28 13 00-0057 EA 35 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	61.69	7.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 28 13 00-0058 EA 40 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	61.84	7.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 28 13 00-0059 EA 45 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	60.68	7.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 28 13 00-0060 EA 50 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	61.23	7.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 28 13 00-0061 EA 60 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	61.71	7.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 28 13 00-0062 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuses ^{(26 28}		
<small>13 00-0013)</small>		
26 28 13 00-0063 EA 70 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	113.86	9.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 28 13 00-0064 EA 80 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	116.95	10.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.15	
26 28 13 00-0065 EA 90 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	116.34	10.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.15	
26 28 13 00-0066 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	116.82	10.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.15	
26 28 13 00-0067 EA 110 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	210.55	10.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.15	
26 28 13 00-0068 EA 125 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	213.67	10.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.15	
26 28 13 00-0069 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	211.97	13.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.78	
26 28 13 00-0070 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	211.46	13.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.78	
26 28 13 00-0071 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	398.27	13.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.78	
26 28 13 00-0072 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	401.87	16.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.73	
26 28 13 00-0073 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	452.33	16.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.73	
26 28 13 00-0074 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	410.45	16.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.73	
26 28 13 00-0075 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	731.96	16.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.73	
26 28 13 00-0076 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	654.20	19.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.01	
26 28 13 00-0077 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	571.61	19.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.01	
26 28 13 00-0078 600 Volt AC, Class CC Midget Fuses ^(26 28 13)		
Note: 250/300 Volt DC.		
26 28 13 00-0079 EA 1 Amperes, 600 Volt AC, Class CC Midget Fuse.....	39.75	7.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	
26 28 13 00-0080 EA 2 Amperes, 600 Volt AC, Class CC Midget Fuse.....	40.31	7.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.20	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0081	EA		3 Amperes, 600 Volt AC, Class CC Midget Fuse.....	40.15	7.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.20	
26 28 13 00-0082	EA		5 Amperes, 600 Volt AC, Class CC Midget Fuse.....	39.97	7.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.20	
26 28 13 00-0083	EA		6 Amperes, 600 Volt AC, Class CC Midget Fuse.....	42.62	7.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.20	
26 28 13 00-0084	EA		8 Amperes, 600 Volt AC, Class CC Midget Fuse.....	38.38	7.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.20	
26 28 13 00-0085	EA		10 Amperes, 600 Volt AC, Class CC Midget Fuse.....	43.36	7.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.20	
26 28 13 00-0086	EA		15 Amperes, 600 Volt AC, Class CC Midget Fuse.....	39.99	7.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.20	
26 28 13 00-0087	EA		20 Amperes, 600 Volt AC, Class CC Midget Fuse.....	39.30	7.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.20	
26 28 13 00-0088	EA		25 Amperes, 600 Volt AC, Class CC Midget Fuse.....	37.71	7.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.20	
26 28 13 00-0089	EA		30 Amperes, 600 Volt AC, Class CC Midget Fuse.....	39.06	7.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.20	
26 28 13 00-0090			200,000 Ampere Interrupting Capacity, 600 Volt AC, Class J Bolted Fuse ⁽²⁶⁾		
			^(28 13)		
26 28 13 00-0091	EA		1 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	49.28	5.42
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.25	
26 28 13 00-0092	EA		3 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	49.65	5.42
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.25	
26 28 13 00-0093	EA		6 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	43.44	6.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.90	
26 28 13 00-0094	EA		10 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	43.75	8.13
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 28 13 00-0095	EA		15 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	44.63	8.13
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 28 13 00-0096	EA		20 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	43.84	8.13
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 28 13 00-0097	EA		25 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	56.00	10.84
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.50	
26 28 13 00-0098	EA		30 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	47.18	10.84
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.50	
26 28 13 00-0099	EA		35 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	80.09	10.84
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.50	
26 28 13 00-0100	EA		40 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	68.75	10.84
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.50	
26 28 13 00-0101	EA		45 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	78.36	10.84
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.50	
26 28 13 00-0102	EA		50 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	70.75	13.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.13	
26 28 13 00-0103	EA		60 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	69.52	13.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.13	
26 28 13 00-0104	EA		70 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	106.52	16.26
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.75	
26 28 13 00-0105	EA		80 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	113.25	16.26
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.75	
26 28 13 00-0106	EA		90 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	111.53	16.26
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.75	
26 28 13 00-0107	EA		100 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	99.10	18.97
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.38	
26 28 13 00-0108	EA		110 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	224.64	18.97
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.38	
26 28 13 00-0109	EA		125 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	191.74	18.97
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.38	
26 28 13 00-0110	EA		150 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	183.89	21.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	
26 28 13 00-0111	EA		175 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	186.51	21.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	
26 28 13 00-0112	EA		200 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	155.90	21.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	
26 28 13 00-0113	EA		225 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	384.77	21.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	
26 28 13 00-0114	EA		250 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	356.21	21.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	
26 28 13 00-0115	EA		300 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	328.72	21.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	
26 28 13 00-0116	EA		350 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	357.97	21.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	
26 28 13 00-0117	EA		400 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	297.41	24.38
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.63	
26 28 13 00-0118	EA		450 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	623.78	24.38
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.63	
26 28 13 00-0119	EA		500 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	531.31	27.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.26	
26 28 13 00-0120	EA		600 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	397.22	27.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0121 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuses <small>(26 28 13)</small>		
EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,183.87	13.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.13	
EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,186.20	13.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.13	
EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,188.37	13.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.13	
EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,185.44	16.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.75	
EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,092.19	16.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.75	
EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,169.17	18.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.38	
EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,076.60	18.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.38	
EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,203.37	18.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.38	
EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,180.02	18.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.38	
EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,051.16	21.67
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	
EA 601 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,079.25	21.67
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	
EA 650 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,432.40	21.67
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	
EA 700 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,046.06	21.67
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	
EA 750 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,603.22	24.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.63	
EA 800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	927.04	24.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.63	
EA 900 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,349.83	24.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.63	
EA 1,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	911.58	24.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.63	
EA 1,200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	938.46	24.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.63	
EA 1,350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,075.79	24.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.63	
EA 1,400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,046.75	24.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.63	
EA 1,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,847.47	24.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.63	
EA 1,600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,158.42	27.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.25	
EA 1,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,444.36	27.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.25	
EA 2,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,568.31	27.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.25	
EA 2,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,116.73	27.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.25	
EA 2,501 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,599.17	27.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.25	
EA 3,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,359.57	29.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.88	
EA 3,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	4,868.18	29.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.88	
EA 3,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	5,647.05	29.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.88	
EA 4,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,269.86	29.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.88	
EA 5,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	5,154.16	29.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.88	
EA 6,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	8,525.18	29.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.88	
26 28 16 Enclosed Switches and Circuit Breakers <small>(26 28)</small>		
26 28 16 13 Enclosed Circuit Breakers <small>(26 28 16)</small>		
26 28 16 13-0001 Branch Circuit Breakers <small>(26 28 16 13)</small>		
<i>Note: For installation in existing and new panelboards. Use task modifier for installation in new panelboards.</i>		
26 28 16 13-0002 Branch Circuit Breakers 10,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
<i>Note: Includes connection of electrical wire.</i>		
EA 1 Pole, 120/240 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	52.09	19.51
<i>For Bolt-On, Add</i>	14.10	
<i>For Installation In New Panelboard, Deduct</i>	-10.84	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.01	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0004 EA 1 Pole, 120/240 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	52.09	19.51
For Bolt-On, Add	14.10	
For Installation In New Panelboard, Deduct	-10.84	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.01	
26 28 16 13-0005 EA 1 Pole, 120/240 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	74.36	24.38
For Bolt-On, Add	18.78	
For Installation In New Panelboard, Deduct	-13.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.25	
26 28 16 13-0006 EA 1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	109.05	24.38
For Bolt-On, Add	23.11	
For Installation In New Panelboard, Deduct	-13.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.25	
26 28 16 13-0007 EA 1 Pole GFI, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity	148.71	24.38
For Bolt-On, Add	28.07	
For Installation In New Panelboard, Deduct	-13.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.25	
26 28 16 13-0008 EA 1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity	171.33	24.38
For Bolt-On, Add	30.90	
For Installation In New Panelboard, Deduct	-13.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.25	
26 28 16 13-0009 EA 1 Pole GFI, 15 To 20 Amperes, 120/240 Volt, "Arc Fault" Circuit Breaker, 10,000 Amperes Interrupting Capacity	87.19	24.38
For Bolt-On, Add	20.38	
For Installation In New Panelboard, Deduct	-13.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.25	
26 28 16 13-0010 EA 2 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	85.20	29.26
For Bolt-On, Add	22.03	
For Installation In New Panelboard, Deduct	-16.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.51	
26 28 16 13-0011 EA 2 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	85.20	29.26
For Bolt-On, Add	22.03	
For Installation In New Panelboard, Deduct	-16.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.51	
26 28 16 13-0012 EA 2 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	127.05	39.02
For Bolt-On, Add	31.05	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 28 16 13-0013 EA 2 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	205.92	48.77
For Bolt-On, Add	44.71	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0014 EA 2 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	241.63	54.18
For Bolt-On, Add	51.07	
For Installation In New Panelboard, Deduct	-29.80	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.76	
26 28 16 13-0015 EA 2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	201.94	34.68
For Bolt-On, Add	38.90	
For Installation In New Panelboard, Deduct	-19.51	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.41	
26 28 16 13-0016 EA 2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity	266.83	34.68
For Bolt-On, Add	47.01	
For Installation In New Panelboard, Deduct	-19.51	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.41	
26 28 16 13-0017 EA 3 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	157.32	39.02
For Bolt-On, Add	34.84	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 28 16 13-0018 EA 3 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	157.32	39.02
For Bolt-On, Add	34.84	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 28 16 13-0019 EA 3 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	205.54	48.77
For Bolt-On, Add	44.66	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0020 EA 3 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	306.56	58.52
For Bolt-On, Add	61.08	
For Installation In New Panelboard, Deduct	-32.51	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.02	
26 28 16 13-0021 EA 3 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	389.29	68.28
For Bolt-On, Add	75.21	
For Installation In New Panelboard, Deduct	-37.93	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.52	
26 28 16 13-0022 Branch Circuit Breakers 14,000 Amperes Interrupting Capacity, Plug-On^(26 28)		
^{16 13-0001} Note: Includes connection of electrical wire.		
26 28 16 13-0023 EA 1 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	72.65	19.51
For Bolt-On, Add	16.67	
For Installation In New Panelboard, Deduct	-10.84	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.01	
26 28 16 13-0024 EA 1 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	72.65	19.51
For Bolt-On, Add	16.67	
For Installation In New Panelboard, Deduct	-10.84	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.01	
26 28 16 13-0025 EA 1 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	126.90	24.38
For Bolt-On, Add	25.34	
For Installation In New Panelboard, Deduct	-13.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.25	
26 28 16 13-0026 EA 1 Pole GFI, 277/480 Volt, 15 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	193.60	24.38
For Bolt-On, Add	33.68	
For Installation In New Panelboard, Deduct	-13.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.25	
26 28 16 13-0027 EA 2 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	139.31	29.26
For Bolt-On, Add	28.79	
For Installation In New Panelboard, Deduct	-16.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.51	
26 28 16 13-0028 EA 2 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	139.31	29.26
For Bolt-On, Add	28.79	
For Installation In New Panelboard, Deduct	-16.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.51	
26 28 16 13-0029 EA 2 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	269.21	39.02
For Bolt-On, Add	48.82	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 28 16 13-0030 EA 2 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	365.58	48.77
For Bolt-On, Add	64.66	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0031 EA 2 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	532.22	54.18
For Bolt-On, Add	87.39	
For Installation In New Panelboard, Deduct	-29.80	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.76	
26 28 16 13-0032 EA 3 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	220.09	39.02
For Bolt-On, Add	42.68	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 28 16 13-0033 EA 3 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	220.09	39.02
For Bolt-On, Add	42.68	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 28 16 13-0034 EA 3 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	326.54	48.77
For Bolt-On, Add	59.78	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0035 EA 3 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	461.55	58.52
For Bolt-On, Add	80.45	
For Installation In New Panelboard, Deduct	-32.51	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.02	
26 28 16 13-0036 EA 3 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	708.52	68.28
For Bolt-On, Add	115.12	
For Installation In New Panelboard, Deduct	-37.93	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.52	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0037 EA 3 Pole, 277/480 Volt, 175 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	816.07	73.15
For Bolt-On, Add	130.46	
For Installation In New Panelboard, Deduct	-40.64	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.77	
26 28 16 13-0038 EA 3 Pole, 277/480 Volt, 200 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	876.57	78.03
For Bolt-On, Add	139.92	
For Installation In New Panelboard, Deduct	-43.35	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.02	
26 28 16 13-0039 EA 3 Pole, 277/480 Volt, 225 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	1,034.67	82.90
For Bolt-On, Add	161.58	
For Installation In New Panelboard, Deduct	-46.06	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.27	
26 28 16 13-0040 Branch Circuit Breakers 18,000 Amperes Interrupting Capacity, Plug-On ^(26 28)		
^{16 13-0001)}		
Note: Includes connection of electrical wire.		
26 28 16 13-0041 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	86.16	19.51
For Bolt-On, Add	18.36	
For Installation In New Panelboard, Deduct	-10.84	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.01	
26 28 16 13-0042 EA 35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	86.16	19.51
For Bolt-On, Add	18.36	
For Installation In New Panelboard, Deduct	-10.84	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.01	
26 28 16 13-0043 EA 70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	140.24	24.38
For Bolt-On, Add	27.01	
For Installation In New Panelboard, Deduct	-13.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.25	
26 28 16 13-0044 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	174.51	29.26
For Bolt-On, Add	33.19	
For Installation In New Panelboard, Deduct	-16.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.51	
26 28 16 13-0045 EA 35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	174.51	29.26
For Bolt-On, Add	33.19	
For Installation In New Panelboard, Deduct	-16.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.51	
26 28 16 13-0046 EA 70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	302.97	39.02
For Bolt-On, Add	53.04	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 28 16 13-0047 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	763.53	48.77
For Bolt-On, Add	114.41	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0048 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	278.19	39.02
For Bolt-On, Add	49.94	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 28 16 13-0049 EA 35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	278.19	39.02
For Bolt-On, Add	49.94	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 28 16 13-0050 EA 70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	368.82	48.77
For Bolt-On, Add	65.07	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0051 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	944.71	58.52
For Bolt-On, Add	140.85	
For Installation In New Panelboard, Deduct	-32.51	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.02	
26 28 16 13-0052 Branch Circuit Breakers 22,000 Amperes Interrupting Capacity, Plug-On ^(26 28)		
^{16 13-0001)}		
Note: Includes connection of electrical wire.		
26 28 16 13-0053 EA 15 To 30 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	97.62	19.51
For Bolt-On, Add	19.79	
For Installation In New Panelboard, Deduct	-10.84	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0054 EA 35 To 60 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	97.62	19.51
For Bolt-On, Add	19.79	
For Installation In New Panelboard, Deduct	-10.84	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.01	
26 28 16 13-0055 EA 70 To 100 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	115.42	24.38
For Bolt-On, Add	23.91	
For Installation In New Panelboard, Deduct	-13.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.25	
26 28 16 13-0056 EA 15 To 30 Amperes, 1 Pole GFI, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	192.06	24.38
For Bolt-On, Add	33.49	
For Installation In New Panelboard, Deduct	-13.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.25	
26 28 16 13-0057 EA 15 To 30 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	204.44	29.26
For Bolt-On, Add	36.93	
For Installation In New Panelboard, Deduct	-16.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.51	
26 28 16 13-0058 EA 35 To 60 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	204.44	29.26
For Bolt-On, Add	36.93	
For Installation In New Panelboard, Deduct	-16.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.51	
26 28 16 13-0059 EA 70 To 100 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	248.76	39.02
For Bolt-On, Add	46.27	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 28 16 13-0060 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	356.84	48.77
For Bolt-On, Add	63.57	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0061 EA 150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	459.28	54.18
For Bolt-On, Add	78.27	
For Installation In New Panelboard, Deduct	-29.80	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.76	
26 28 16 13-0062 EA 250 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	572.58	63.40
For Bolt-On, Add	96.23	
For Installation In New Panelboard, Deduct	-35.22	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.27	
26 28 16 13-0063 EA 300 To 400 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	618.90	73.15
For Bolt-On, Add	105.81	
For Installation In New Panelboard, Deduct	-40.64	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.77	
26 28 16 13-0064 EA 15 To 30 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	249.26	39.02
For Bolt-On, Add	46.33	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 28 16 13-0065 EA 35 To 60 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	249.26	39.02
For Bolt-On, Add	46.33	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 28 16 13-0066 EA 70 To 100 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	293.10	48.77
For Bolt-On, Add	55.60	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0067 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	441.74	58.52
For Bolt-On, Add	77.98	
For Installation In New Panelboard, Deduct	-32.51	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.02	
26 28 16 13-0068 EA 150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	579.50	75.86
For Bolt-On, Add	101.83	
For Installation In New Panelboard, Deduct	-42.00	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.39	
26 28 16 13-0069 EA 250 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	714.64	87.79
For Bolt-On, Add	123.47	
For Installation In New Panelboard, Deduct	-48.77	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.52	
26 28 16 13-0070 EA 300 To 400 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	759.84	93.20
For Bolt-On, Add	131.01	
For Installation In New Panelboard, Deduct	-51.48	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.77	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 28 16 13-0071			Branch Circuit Breakers 25,000 Amperes Interrupting Capacity, Plug-On <small>(26 28)</small> <small>16 13-0001</small> Note: Includes connection of electrical wire.		
26 28 16 13-0072	EA		15 To 30 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	211.91	29.26
			<i>For Bolt-On, Add</i>	37.87	
			<i>For Installation In New Panelboard, Deduct</i>	-16.26	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.51	
26 28 16 13-0073	EA		35 To 60 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	211.91	29.26
			<i>For Bolt-On, Add</i>	37.87	
			<i>For Installation In New Panelboard, Deduct</i>	-16.26	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.51	
26 28 16 13-0074	EA		70 To 100 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	321.03	39.02
			<i>For Bolt-On, Add</i>	55.30	
			<i>For Installation In New Panelboard, Deduct</i>	-21.67	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.01	
26 28 16 13-0075	EA		110 To 125 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	518.34	48.77
			<i>For Bolt-On, Add</i>	83.76	
			<i>For Installation In New Panelboard, Deduct</i>	-27.10	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.51	
26 28 16 13-0076	EA		150 To 225 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	804.17	60.69
			<i>For Bolt-On, Add</i>	124.23	
			<i>For Installation In New Panelboard, Deduct</i>	-33.87	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.64	
26 28 16 13-0077	EA		250 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	910.33	63.40
			<i>For Bolt-On, Add</i>	138.45	
			<i>For Installation In New Panelboard, Deduct</i>	-35.22	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.27	
26 28 16 13-0078	EA		300 To 400 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	995.53	73.15
			<i>For Bolt-On, Add</i>	152.89	
			<i>For Installation In New Panelboard, Deduct</i>	-40.64	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.77	
26 28 16 13-0079	EA		15 To 30 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	303.88	39.02
			<i>For Bolt-On, Add</i>	53.16	
			<i>For Installation In New Panelboard, Deduct</i>	-21.67	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.01	
26 28 16 13-0080	EA		35 To 60 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	303.88	39.02
			<i>For Bolt-On, Add</i>	53.16	
			<i>For Installation In New Panelboard, Deduct</i>	-21.67	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.01	
26 28 16 13-0081	EA		70 To 100 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	382.72	48.77
			<i>For Bolt-On, Add</i>	66.81	
			<i>For Installation In New Panelboard, Deduct</i>	-27.10	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.51	
26 28 16 13-0082	EA		110 To 125 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	644.34	58.52
			<i>For Bolt-On, Add</i>	103.30	
			<i>For Installation In New Panelboard, Deduct</i>	-32.51	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.02	
26 28 16 13-0083	EA		150 To 225 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	939.57	75.86
			<i>For Bolt-On, Add</i>	146.84	
			<i>For Installation In New Panelboard, Deduct</i>	-42.00	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.39	
26 28 16 13-0084	EA		250 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,109.52	87.79
			<i>For Bolt-On, Add</i>	172.83	
			<i>For Installation In New Panelboard, Deduct</i>	-48.77	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.52	
26 28 16 13-0085	EA		300 To 400 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,199.90	93.20
			<i>For Bolt-On, Add</i>	186.02	
			<i>For Installation In New Panelboard, Deduct</i>	-51.48	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.77	
26 28 16 13-0086			Branch Circuit Breakers 30,000 Amperes Interrupting Capacity, Plug-On <small>(26 28)</small> <small>16 13-0001</small> Note: Includes connection of electrical wire.		
26 28 16 13-0087	EA		2 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	219.34	29.26
			<i>For Bolt-On, Add</i>	38.80	
			<i>For Installation In New Panelboard, Deduct</i>	-16.26	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.51	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0088 EA 2 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....	219.34	29.26
For Bolt-On, Add	38.80	
For Installation In New Panelboard, Deduct	-16.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.51	
26 28 16 13-0089 EA 2 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....	389.61	39.02
For Bolt-On, Add	63.87	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 28 16 13-0090 EA 2 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....	708.51	48.77
For Bolt-On, Add	107.53	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0091 EA 2 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....	1,118.53	60.69
For Bolt-On, Add	163.52	
For Installation In New Panelboard, Deduct	-33.87	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 28 16 13-0092 EA 2 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....	1,271.87	63.40
For Bolt-On, Add	183.64	
For Installation In New Panelboard, Deduct	-35.22	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.27	
26 28 16 13-0093 EA 2 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....	1,385.68	73.15
For Bolt-On, Add	201.66	
For Installation In New Panelboard, Deduct	-40.64	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.77	
26 28 16 13-0094 EA 3 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....	355.32	39.02
For Bolt-On, Add	59.59	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 28 16 13-0095 EA 3 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....	355.32	39.02
For Bolt-On, Add	59.59	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 28 16 13-0096 EA 3 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....	471.89	48.77
For Bolt-On, Add	77.95	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0097 EA 3 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....	861.63	58.52
For Bolt-On, Add	130.46	
For Installation In New Panelboard, Deduct	-32.51	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.02	
26 28 16 13-0098 EA 3 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....	1,088.95	75.86
For Bolt-On, Add	165.52	
For Installation In New Panelboard, Deduct	-42.00	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.39	
26 28 16 13-0099 EA 3 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....	1,730.26	87.79
For Bolt-On, Add	250.42	
For Installation In New Panelboard, Deduct	-48.77	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.52	
26 28 16 13-0100 EA 3 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity.....	1,842.62	93.20
For Bolt-On, Add	266.36	
For Installation In New Panelboard, Deduct	-51.48	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.77	
26 28 16 13-0101 Branch Circuit Breakers 35,000 Amperes Interrupting Capacity, Plug-On <small>(2628</small>		
<small>16 13-0001)</small>		
Note: Includes connection of electrical wire.		
26 28 16 13-0102 EA 1 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity.....	116.34	19.51
For Bolt-On, Add	22.13	
For Installation In New Panelboard, Deduct	-10.84	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.01	
26 28 16 13-0103 EA 1 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity.....	116.34	19.51
For Bolt-On, Add	22.13	
For Installation In New Panelboard, Deduct	-10.84	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.01	
26 28 16 13-0104 EA 1 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity.....	199.27	24.38
For Bolt-On, Add	34.39	
For Installation In New Panelboard, Deduct	-13.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.25	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0105 EA 2 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	249.76	29.26
For Bolt-On, Add	42.60	
For Installation In New Panelboard, Deduct	-16.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.51	
26 28 16 13-0106 EA 2 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	249.76	29.26
For Bolt-On, Add	42.60	
For Installation In New Panelboard, Deduct	-16.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.51	
26 28 16 13-0107 EA 2 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	452.56	39.02
For Bolt-On, Add	71.74	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 28 16 13-0108 EA 2 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	834.25	48.77
For Bolt-On, Add	123.25	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0109 EA 2 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,615.18	60.69
For Bolt-On, Add	225.60	
For Installation In New Panelboard, Deduct	-33.87	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 28 16 13-0110 EA 3 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	410.21	39.02
For Bolt-On, Add	66.45	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 28 16 13-0111 EA 3 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	410.21	39.02
For Bolt-On, Add	66.45	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 28 16 13-0112 EA 3 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	548.15	48.77
For Bolt-On, Add	87.49	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0113 EA 3 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,027.38	58.52
For Bolt-On, Add	151.18	
For Installation In New Panelboard, Deduct	-32.51	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.02	
26 28 16 13-0114 EA 3 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	2,008.17	75.86
For Bolt-On, Add	280.42	
For Installation In New Panelboard, Deduct	-42.00	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.39	
26 28 16 13-0115 Branch Circuit Breakers 42,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
Note: Includes connection of electrical wire.		
26 28 16 13-0116 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	169.09	19.51
For Bolt-On, Add	28.72	
For Installation In New Panelboard, Deduct	-10.84	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.01	
26 28 16 13-0117 EA 35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Ampere Interrupting Capacity	169.09	19.51
For Bolt-On, Add	28.72	
For Installation In New Panelboard, Deduct	-10.84	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.01	
26 28 16 13-0118 EA 70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	255.37	24.38
For Bolt-On, Add	41.40	
For Installation In New Panelboard, Deduct	-13.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.25	
26 28 16 13-0119 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	310.79	29.26
For Bolt-On, Add	50.23	
For Installation In New Panelboard, Deduct	-16.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.51	
26 28 16 13-0120 EA 35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	310.79	29.26
For Bolt-On, Add	50.23	
For Installation In New Panelboard, Deduct	-16.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.51	
26 28 16 13-0121 EA 70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	583.94	39.02
For Bolt-On, Add	88.16	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0122 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	1,057.15	48.77
For Bolt-On, Add	151.11	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0123 EA 150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	2,102.49	54.18
For Bolt-On, Add	283.67	
For Installation In New Panelboard, Deduct	-29.80	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.76	
26 28 16 13-0124 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	532.50	39.02
For Bolt-On, Add	81.73	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 28 16 13-0125 EA 35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	532.50	39.02
For Bolt-On, Add	81.73	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 28 16 13-0126 EA 70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	737.08	48.77
For Bolt-On, Add	111.10	
For Installation In New Panelboard, Deduct	-27.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 28 16 13-0127 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	1,193.13	58.52
For Bolt-On, Add	171.90	
For Installation In New Panelboard, Deduct	-32.51	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.02	
26 28 16 13-0128 EA 150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	2,654.22	75.86
For Bolt-On, Add	361.17	
For Installation In New Panelboard, Deduct	-42.00	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.39	
26 28 16 13-0129 Branch Circuit Breakers 65,000 Amperes Interrupting Capacity, Plug-On ^{(26 28}		
^{16 13-0001)}		
Note: Includes connection of electrical wire.		
26 28 16 13-0130 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	78.05	19.51
For Bolt-On, Add	17.34	
For Installation In New Panelboard, Deduct	-10.84	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.01	
26 28 16 13-0131 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	162.80	29.26
For Bolt-On, Add	31.73	
For Installation In New Panelboard, Deduct	-16.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.51	
26 28 16 13-0132 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	257.01	39.02
For Bolt-On, Add	47.30	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 28 16 13-0133 EA 15 To 30 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	160.05	19.51
For Bolt-On, Add	27.59	
For Installation In New Panelboard, Deduct	-10.84	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.01	
26 28 16 13-0134 EA 35 To 60 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	160.05	19.51
For Bolt-On, Add	27.59	
For Installation In New Panelboard, Deduct	-10.84	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.01	
26 28 16 13-0135 EA 70 To 100 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	318.74	39.02
For Bolt-On, Add	55.01	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 28 16 13-0136 EA 15 To 30 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	361.05	29.26
For Bolt-On, Add	56.51	
For Installation In New Panelboard, Deduct	-16.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.51	
26 28 16 13-0137 EA 35 To 60 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	361.05	29.26
For Bolt-On, Add	56.51	
For Installation In New Panelboard, Deduct	-16.26	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.51	
26 28 16 13-0138 EA 70 To 100 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	697.23	39.02
For Bolt-On, Add	102.32	
For Installation In New Panelboard, Deduct	-21.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0139 EA 110 To 125 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	1,182.89	48.77
<i>For Bolt-On, Add</i>	166.83	
<i>For Installation In New Panelboard, Deduct</i>	-27.10	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.51	
26 28 16 13-0140 EA 150 To 225 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	2,602.41	60.69
<i>For Bolt-On, Add</i>	349.01	
<i>For Installation In New Panelboard, Deduct</i>	-33.87	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.64	
26 28 16 13-0141 EA 15 To 30 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	604.41	39.02
<i>For Bolt-On, Add</i>	90.72	
<i>For Installation In New Panelboard, Deduct</i>	-21.67	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.01	
26 28 16 13-0142 EA 35 To 60 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	604.41	39.02
<i>For Bolt-On, Add</i>	90.72	
<i>For Installation In New Panelboard, Deduct</i>	-21.67	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.01	
26 28 16 13-0143 EA 70 To 100 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	841.48	48.77
<i>For Bolt-On, Add</i>	124.15	
<i>For Installation In New Panelboard, Deduct</i>	-27.10	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.51	
26 28 16 13-0144 EA 110 To 125 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	1,284.58	58.52
<i>For Bolt-On, Add</i>	183.33	
<i>For Installation In New Panelboard, Deduct</i>	-32.51	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.02	
26 28 16 13-0145 EA 150 To 225 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	3,236.01	75.86
<i>For Bolt-On, Add</i>	433.90	
<i>For Installation In New Panelboard, Deduct</i>	-42.00	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.39	

26 28 16 16 Enclosed Switches (26 28 16)

26 28 16 16-0001	Motor And Circuit Disconnects (26 28 16 16)		
	<i>Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the disconnect.</i>		
26 28 16 16-0002	NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0001)		
26 28 16 16-0003	Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0002)		
	<i>Note: Includes fuses and neutral bar.</i>		
26 28 16 16-0004	240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)		
26 28 16 16-0005 EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	409.03	108.38
26 28 16 16-0006 EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	645.75	130.59
26 28 16 16-0007 EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	889.50	152.81
26 28 16 16-0008 EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,533.77	240.59
26 28 16 16-0009 EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,271.73	373.89
26 28 16 16-0010 EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,468.73	552.71
26 28 16 16-0011 EA	800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,468.03	650.25
26 28 16 16-0012 EA	1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	10,035.02	758.62
26 28 16 16-0013	600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)		
26 28 16 16-0014 EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	625.76	120.41
26 28 16 16-0015 EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	755.00	145.11
26 28 16 16-0016 EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,205.15	169.61
26 28 16 16-0017 EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,780.62	267.68
26 28 16 16-0018 EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,897.67	415.29
26 28 16 16-0019 EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,078.49	613.83
26 28 16 16-0020 EA	800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	9,002.28	722.10



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0021 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	12,309.45	842.93
26 28 16 16-0022 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0023 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	580.71	170.15
26 28 16 16-0024 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	857.54	225.96
26 28 16 16-0025 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,158.46	250.89
26 28 16 16-0026 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,832.84	392.85
26 28 16 16-0027 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,819.42	644.82
26 28 16 16-0028 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,222.81	903.30
26 28 16 16-0029 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0030 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	761.22	188.02
26 28 16 16-0031 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	966.65	250.89
26 28 16 16-0032 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,430.51	282.32
26 28 16 16-0033 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,105.30	430.24
26 28 16 16-0034 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,707.58	694.68
26 28 16 16-0035 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,583.59	1,003.54
26 28 16 16-0036 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	12,096.05	1,192.12
26 28 16 16-0037 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	15,474.24	1,354.68
26 28 16 16-0038 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0039 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	562.24	170.15
26 28 16 16-0040 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	833.67	225.96
26 28 16 16-0041 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,115.05	250.89
26 28 16 16-0042 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,892.56	392.85
26 28 16 16-0043 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,155.93	644.82
26 28 16 16-0044 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,729.05	903.30
26 28 16 16-0045 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	11,162.74	1,137.93
26 28 16 16-0046 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	13,771.22	1,300.49
26 28 16 16-0047 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0048 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	828.97	188.02
26 28 16 16-0049 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,049.91	250.89
26 28 16 16-0050 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,552.26	282.32
26 28 16 16-0051 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,287.56	430.24
26 28 16 16-0052 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,096.43	694.68
26 28 16 16-0053 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	8,270.35	1,003.54
26 28 16 16-0054 EA 800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	13,236.24	1,192.12
26 28 16 16-0055 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	16,705.88	1,354.68
26 28 16 16-0056 Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small>		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 28 16 16-0057		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>			
26 28 16 16-0058	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	397.35		156.82
26 28 16 16-0059	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	618.40		218.16
26 28 16 16-0060	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	854.55		250.89
26 28 16 16-0061	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,338.36		401.42
26 28 16 16-0062	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,706.77		668.99
26 28 16 16-0063	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,434.11		912.30
26 28 16 16-0064	EA	800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,344.68		1,083.74
26 28 16 16-0065	EA	1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,385.71		1,264.84
26 28 16 16-0066		600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>			
26 28 16 16-0067	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	438.89		173.08
26 28 16 16-0068	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	700.43		244.82
26 28 16 16-0069	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	966.09		278.74
26 28 16 16-0070	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,499.32		436.32
26 28 16 16-0071	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,912.35		716.78
26 28 16 16-0072	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,904.35		1,003.44
26 28 16 16-0073	EA	800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	7,041.66		1,083.74
26 28 16 16-0074	EA	1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,340.20		1,264.84
26 28 16 16-0075		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>			
26 28 16 16-0076	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	462.83		140.89
26 28 16 16-0077	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	709.48		196.15
26 28 16 16-0078	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	959.29		225.96
26 28 16 16-0079	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,506.80		361.42
26 28 16 16-0080	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,023.53		602.02
26 28 16 16-0081	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,882.43		820.93
26 28 16 16-0082	EA	800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,426.21		975.37
26 28 16 16-0083	EA	1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	10,987.66		1,137.93
26 28 16 16-0084		480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>			
26 28 16 16-0085	EA	30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	504.84		155.51
26 28 16 16-0086	EA	60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	779.98		220.55
26 28 16 16-0087	EA	100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,045.73		250.89
26 28 16 16-0088	EA	200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,625.64		392.85
26 28 16 16-0089	EA	400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,239.48		644.82
26 28 16 16-0090	EA	600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,278.09		903.30
26 28 16 16-0091	EA	800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,887.34		975.37
26 28 16 16-0092		600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>			



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0093 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	539.22	155.73
26 28 16 16-0094 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	838.61	220.32
26 28 16 16-0095 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,141.08	250.89
26 28 16 16-0096 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,772.52	392.64
26 28 16 16-0097 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,444.93	645.04
26 28 16 16-0098 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,886.13	903.08
26 28 16 16-0099 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,581.46	975.37
26 28 16 16-0100 EA 1,200 Amperes, 600 Volt Class, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	12,542.82	1,137.93
26 28 16 16-0101 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0096)</small>		
26 28 16 16-0102 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	793.06	141.10
26 28 16 16-0103 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	957.15	196.38
26 28 16 16-0104 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,470.12	225.75
26 28 16 16-0105 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,205.45	361.21
26 28 16 16-0106 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0096)</small>		
26 28 16 16-0107 EA 30 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	858.75	155.51
26 28 16 16-0108 EA 60 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,045.37	220.55
26 28 16 16-0109 EA 100 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,593.06	250.89
26 28 16 16-0110 EA 200 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,374.20	392.85
26 28 16 16-0111 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0096)</small>		
26 28 16 16-0112 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	954.45	155.73
26 28 16 16-0113 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,150.93	220.32
26 28 16 16-0114 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,782.88	250.89
26 28 16 16-0115 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,650.72	392.64
26 28 16 16-0116 General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0092)</small>		
Note: Includes fuses and neutral bar.		
26 28 16 16-0117 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small>		
26 28 16 16-0118 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	283.15	94.28
26 28 16 16-0119 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	386.48	113.47
26 28 16 16-0120 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	596.01	132.65
26 28 16 16-0121 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,104.53	209.27
26 28 16 16-0122 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,633.31	324.58
26 28 16 16-0123 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,929.19	480.42
26 28 16 16-0124 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small>		
26 28 16 16-0125 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	390.63	148.15
26 28 16 16-0126 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	551.88	196.38
26 28 16 16-0127 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	767.00	218.16

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0128 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,370.08	341.48
26 28 16 16-0129 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,108.52	560.95
26 28 16 16-0130 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,543.93	785.28
26 28 16 16-0131 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small>		
26 28 16 16-0132 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	435.28	148.15
26 28 16 16-0133 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	623.87	196.38
26 28 16 16-0134 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	832.50	218.16
26 28 16 16-0135 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,535.11	341.48
26 28 16 16-0136 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,390.62	560.95
26 28 16 16-0137 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,722.74	785.28
26 28 16 16-0138 General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small>		
26 28 16 16-0139 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0138)</small>		
26 28 16 16-0140 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	386.80	131.13
26 28 16 16-0141 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	515.69	150.75
26 28 16 16-0142 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,168.28	240.92
26 28 16 16-0143 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,509.74	400.98
26 28 16 16-0144 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,349.97	546.42
26 28 16 16-0145 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0138)</small>		
26 28 16 16-0146 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	365.46	122.68
26 28 16 16-0147 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	500.66	170.69
26 28 16 16-0148 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	763.78	196.38
26 28 16 16-0149 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,315.44	314.18
26 28 16 16-0150 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,755.92	523.66
26 28 16 16-0151 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,686.69	713.75
26 28 16 16-0152 NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0001)</small>		
26 28 16 16-0153 Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0152)</small>		
Note: With fuses, neutral bar, and hub if required.		
26 28 16 16-0154 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0153)</small>		
26 28 16 16-0155 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	601.83	127.33
26 28 16 16-0156 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	959.14	152.81
26 28 16 16-0157 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,199.23	177.73
26 28 16 16-0158 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,755.01	270.94
26 28 16 16-0159 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,883.78	433.49
26 28 16 16-0160 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	6,813.14	578.18
26 28 16 16-0161 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	10,222.58	650.25
26 28 16 16-0162 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	13,549.55	758.62



Electrical	26	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 28 16 16-0163	600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ⁽²⁶⁾		
	<small>28 16 16-0153)</small>		
26 28 16 16-0164	EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,037.51	169.71
26 28 16 16-0165	EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,235.23	208.07
26 28 16 16-0166	EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,755.22	238.96
26 28 16 16-0167	EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,472.23	358.40
26 28 16 16-0168	EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,386.75	586.41
26 28 16 16-0169	EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,915.67	806.41
26 28 16 16-0170	EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	14,587.53	928.55
26 28 16 16-0171	EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	16,068.82	1,045.26
26 28 16 16-0172	240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ⁽²⁶⁾		
	<small>28 16 16-0153)</small>		
26 28 16 16-0173	EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	766.38	200.50
26 28 16 16-0174	EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,218.35	265.52
26 28 16 16-0175	EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,469.44	291.53
26 28 16 16-0176	EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,178.14	451.38
26 28 16 16-0177	EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,718.33	752.66
26 28 16 16-0178	EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,879.56	1,003.54
26 28 16 16-0179	600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ⁽²⁶⁾		
	<small>28 16 16-0153)</small>		
26 28 16 16-0180	EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,175.48	237.67
26 28 16 16-0181	EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,402.23	291.31
26 28 16 16-0182	EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,879.31	334.45
26 28 16 16-0183	EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,729.44	501.77
26 28 16 16-0184	EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,756.14	821.04
26 28 16 16-0185	EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,410.00	1,128.93
26 28 16 16-0186	EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	14,746.83	1,300.49
26 28 16 16-0187	EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	17,655.91	1,463.05
26 28 16 16-0188	240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ⁽²⁶⁾		
	<small>28 16 16-0153)</small>		
26 28 16 16-0189	EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	842.09	200.50
26 28 16 16-0190	EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,220.54	265.52
26 28 16 16-0191	EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,575.90	291.53
26 28 16 16-0192	EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,249.14	451.38
26 28 16 16-0193	EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,783.47	752.66
26 28 16 16-0194	EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,596.01	1,003.54
26 28 16 16-0195	EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	14,366.70	1,137.93
26 28 16 16-0196	EA 1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	17,912.63	1,300.49

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 28 16 16-0197		600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0153)			
26 28 16 16-0198	EA	30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,218.92		237.88
26 28 16 16-0199	EA	60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,451.07		291.53
26 28 16 16-0200	EA	100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,987.86		334.34
26 28 16 16-0201	EA	200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,800.00		501.77
26 28 16 16-0202	EA	400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	6,011.24		820.93
26 28 16 16-0203	EA	600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	10,703.09		1,128.72
26 28 16 16-0204	EA	800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	15,669.73		1,300.49
26 28 16 16-0205	EA	1,200 Amperes, 600 Volt Class, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	18,872.41		1,463.05
26 28 16 16-0206		Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0152)			
26 28 16 16-0207		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0206)			
26 28 16 16-0208	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	571.72		111.52
26 28 16 16-0209	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	934.65		154.43
26 28 16 16-0210	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,229.98		177.09
26 28 16 16-0211	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,634.38		286.76
26 28 16 16-0212	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,645.47		478.36
26 28 16 16-0213	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	6,657.68		637.78
26 28 16 16-0214	EA	800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	10,722.37		758.95
26 28 16 16-0215	EA	1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	14,160.60		867.31
26 28 16 16-0216		600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0206)			
26 28 16 16-0217	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	643.81		122.89
26 28 16 16-0218	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,059.33		171.99
26 28 16 16-0219	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,389.10		194.21
26 28 16 16-0220	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,814.64		301.06
26 28 16 16-0221	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,138.98		501.77
26 28 16 16-0222	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	7,188.89		668.99
26 28 16 16-0223	EA	800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	11,435.72		795.04
26 28 16 16-0224	EA	1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	15,097.41		903.08
26 28 16 16-0225		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0206)			
26 28 16 16-0226	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	683.22		167.22
26 28 16 16-0227	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,089.03		231.59
26 28 16 16-0228	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,407.05		265.63
26 28 16 16-0229	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,921.09		430.13
26 28 16 16-0230	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,178.34		717.43
26 28 16 16-0231	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	7,402.25		956.40
26 28 16 16-0232	EA	800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	11,600.57		1,137.93
26 28 16 16-0233	EA	1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	15,367.21		1,300.49



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0234 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small>		
26 28 16 16-0235 EA 30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	742.26	184.24
26 28 16 16-0236 EA 60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,186.68	258.04
26 28 16 16-0237 EA 100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,521.03	291.31
26 28 16 16-0238 EA 200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,039.86	451.60
26 28 16 16-0239 EA 400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,444.45	752.55
26 28 16 16-0240 EA 600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	7,887.86	1,003.44
26 28 16 16-0241 EA 800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,374.79	1,192.12
26 28 16 16-0242 EA 1,200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	16,385.68	1,354.68
26 28 16 16-0243 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small>		
26 28 16 16-0244 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	396.87	184.24
26 28 16 16-0245 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,231.36	258.04
26 28 16 16-0246 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,583.32	291.31
26 28 16 16-0247 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,115.67	451.60
26 28 16 16-0248 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,640.72	752.55
26 28 16 16-0249 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	7,857.87	1,003.44
26 28 16 16-0250 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,357.99	1,192.12
26 28 16 16-0251 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	16,362.82	1,354.68
26 28 16 16-0252 General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0152)</small> Note: With fuses, neutral bar, and hub if required.		
26 28 16 16-0253 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0252)</small>		
26 28 16 16-0254 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	366.78	110.75
26 28 16 16-0255 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	518.50	132.87
26 28 16 16-0256 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	682.74	154.54
26 28 16 16-0257 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,403.55	235.60
26 28 16 16-0258 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,441.57	376.92
26 28 16 16-0259 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,107.12	502.85
26 28 16 16-0260 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0252)</small>		
26 28 16 16-0261 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	494.89	174.59
26 28 16 16-0262 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	715.08	230.94
26 28 16 16-0263 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	879.98	253.38
26 28 16 16-0264 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,718.62	392.64
26 28 16 16-0265 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,998.55	654.37
26 28 16 16-0266 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,855.44	872.85

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 28 16 16-0267		240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 16 16-0252)			
26 28 16 16-0268	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	557.47		174.48
26 28 16 16-0269	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	777.84		230.94
26 28 16 16-0270	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,082.03		253.38
26 28 16 16-0271	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,849.12		392.64
26 28 16 16-0272	EA	400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,082.37		654.47
26 28 16 16-0273	EA	600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	7,509.80		872.85
26 28 16 16-0274	EA	800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	10,742.72		988.80
26 28 16 16-0275		General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0152)			
26 28 16 16-0276		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0275)			
26 28 16 16-0277	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	331.08		97.00
26 28 16 16-0278	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	542.86		134.27
26 28 16 16-0279	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	570.08		154.00
26 28 16 16-0280	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,431.50		249.26
26 28 16 16-0281	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,520.31		415.94
26 28 16 16-0282	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	6,213.45		554.55
26 28 16 16-0283		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0275)			
26 28 16 16-0284	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	518.50		145.44
26 28 16 16-0285	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	746.75		201.36
26 28 16 16-0286	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,096.06		230.94
26 28 16 16-0287	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,885.06		373.99
26 28 16 16-0288		NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 16-0001)			
26 28 16 16-0289		Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 16-0288)			
		Note: With fuses and neutral bar (stainless steel).			
26 28 16 16-0290		240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 16-0289)			
26 28 16 16-0291	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,608.03		108.38
26 28 16 16-0292	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,931.64		130.59
26 28 16 16-0293	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,945.76		152.59
26 28 16 16-0294	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,456.15		240.81
26 28 16 16-0295	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,097.32		373.67
26 28 16 16-0296	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,950.88		552.50
26 28 16 16-0297		600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 16-0289)			
26 28 16 16-0298	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,041.39		120.41
26 28 16 16-0299	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,269.62		145.01
26 28 16 16-0300	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,265.95		169.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0301 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,027.79	267.68
26 28 16 16-0302 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,523.45	415.51
26 28 16 16-0303 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	16,522.18	613.83
26 28 16 16-0304 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0305 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,804.87	170.36
26 28 16 16-0306 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,261.66	225.75
26 28 16 16-0307 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,322.39	250.89
26 28 16 16-0308 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,142.84	392.64
26 28 16 16-0309 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,982.53	645.04
26 28 16 16-0310 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	17,100.81	903.08
26 28 16 16-0311 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0312 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,182.47	188.14
26 28 16 16-0313 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,487.44	250.89
26 28 16 16-0314 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,503.55	282.21
26 28 16 16-0315 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,369.59	430.03
26 28 16 16-0316 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	12,373.64	694.68
26 28 16 16-0317 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	17,606.53	1,003.44
26 28 16 16-0318 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0319 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,158.89	170.36
26 28 16 16-0320 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,704.22	225.75
26 28 16 16-0321 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,207.96	250.89
26 28 16 16-0322 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,353.80	392.64
26 28 16 16-0323 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	14,365.87	645.04
26 28 16 16-0324 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	20,376.10	903.08
26 28 16 16-0325 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0326 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,600.78	188.14
26 28 16 16-0327 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,961.80	250.89
26 28 16 16-0328 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,407.49	282.21
26 28 16 16-0329 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,590.68	430.03
26 28 16 16-0330 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	14,789.14	694.68
26 28 16 16-0331 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	20,926.46	1,003.44
26 28 16 16-0332 Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
26 28 16 16-0333 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0334 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,542.71	108.38
26 28 16 16-0335 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,877.07	150.75

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0336	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,537.46	173.40
26 28 16 16-0337	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,906.74	277.00
26 28 16 16-0338	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,934.60	461.24
26 28 16 16-0339	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	12,797.69	628.35
26 28 16 16-0340		600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0341	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,754.55	119.54
26 28 16 16-0342	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,138.59	169.07
26 28 16 16-0343	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,031.79	192.69
26 28 16 16-0344	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,576.70	301.06
26 28 16 16-0345	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,147.69	495.48
26 28 16 16-0346	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	14,577.03	693.59
26 28 16 16-0347		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0348	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,608.19	141.10
26 28 16 16-0349	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,943.09	196.38
26 28 16 16-0350	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,027.05	225.75
26 28 16 16-0351	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,913.14	361.21
26 28 16 16-0352	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,556.84	602.13
26 28 16 16-0353	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,563.10	821.04
26 28 16 16-0354		600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0355	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,826.80	155.73
26 28 16 16-0356	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,241.10	220.32
26 28 16 16-0357	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,148.18	250.89
26 28 16 16-0358	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,759.81	392.64
26 28 16 16-0359	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,505.25	645.04
26 28 16 16-0360	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,430.32	903.08
26 28 16 16-0361		240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0362	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,213.41	141.10
26 28 16 16-0363	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,652.98	196.38
26 28 16 16-0364	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,978.31	225.75
26 28 16 16-0365	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,119.22	361.21
26 28 16 16-0366		600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0367	EA	30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,518.49	155.73
26 28 16 16-0368	EA	60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,023.77	220.32
26 28 16 16-0369	EA	100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,818.02	250.89



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0370 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,381.58	392.64
26 28 16 16-0371 Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
26 28 16 16-0372 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0371)</small>		
26 28 16 16-0373 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,928.58	188.02
26 28 16 16-0374 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,336.80	250.89
26 28 16 16-0375 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,004.30	282.32
26 28 16 16-0376 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,812.96	430.24
26 28 16 16-0377 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0371)</small>		
26 28 16 16-0378 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,743.18	155.51
26 28 16 16-0379 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,143.17	220.55
26 28 16 16-0380 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,676.68	250.89
26 28 16 16-0381 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,714.29	392.85
26 28 16 16-0382 Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
26 28 16 16-0383 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0382)</small>		
26 28 16 16-0384 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,349.78	188.02
26 28 16 16-0385 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,808.12	250.89
26 28 16 16-0386 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,895.63	282.32
26 28 16 16-0387 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0382)</small>		
26 28 16 16-0388 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,141.72	155.51
26 28 16 16-0389 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,589.43	220.55
26 28 16 16-0390 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,532.22	250.89
26 28 16 16-0391 NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches <small>(26 28 16 16-0001)</small>		
Note: Class 1, groups C and D, division 1 or 2, NEMA 7; Class 2, groups E, F and G, division 1 or 2, NEMA 9; or Class 3, division 1 Or 2, NEMA 9, hazardous locations as defined in NEC article 500.		
26 28 16 16-0392 Heavy Duty Fusible, NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches <small>(26 28 16 16-0391)</small>		
Note: With fuses and neutral bar.		
26 28 16 16-0393 EA 30 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	2,646.67	216.75
26 28 16 16-0394 EA 60 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	2,988.10	258.04
26 28 16 16-0395 EA 100 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	3,313.54	291.31
26 28 16 16-0396 EA 200 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	7,037.89	451.60
26 28 16 16-0397 Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0391)</small>		
26 28 16 16-0398 EA 60 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	2,052.22	258.04
26 28 16 16-0399 EA 100 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	2,402.10	291.31
26 28 16 16-0400 EA 200 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	4,419.30	451.60
26 28 16 16-0401 NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0001)</small>		
26 28 16 16-0402 Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0401)</small>		
Note: With fuses and neutral bar.		
26 28 16 16-0403 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0404 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	584.19	108.38
26 28 16 16-0405 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	763.33	130.59
26 28 16 16-0406 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,042.60	152.81
26 28 16 16-0407 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,759.16	240.59
26 28 16 16-0408 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,759.71	373.89
26 28 16 16-0409 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,793.05	552.71
26 28 16 16-0410 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0411 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	919.29	120.30
26 28 16 16-0412 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	947.01	145.22
26 28 16 16-0413 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,365.68	169.61
26 28 16 16-0414 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,136.57	267.68
26 28 16 16-0415 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,668.39	415.08
26 28 16 16-0416 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	9,243.31	613.94
26 28 16 16-0417 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0418 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	811.12	170.15
26 28 16 16-0419 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,124.00	225.96
26 28 16 16-0420 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,536.70	250.89
26 28 16 16-0421 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,283.27	392.85
26 28 16 16-0422 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,487.00	644.82
26 28 16 16-0423 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	7,208.89	903.30
26 28 16 16-0424 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0425 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,081.90	188.02
26 28 16 16-0426 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,223.60	250.89
26 28 16 16-0427 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,807.36	282.32
26 28 16 16-0428 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,629.51	430.24
26 28 16 16-0429 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,519.79	694.68
26 28 16 16-0430 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	10,397.97	1,003.54
26 28 16 16-0431 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0432 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	867.29	170.15
26 28 16 16-0433 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,162.58	225.96
26 28 16 16-0434 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,657.81	250.89
26 28 16 16-0435 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,435.31	392.85
26 28 16 16-0436 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,894.09	644.82
26 28 16 16-0437 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	7,483.91	903.30
26 28 16 16-0438 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0439 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,147.01	188.02
26 28 16 16-0440 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,397.29	250.89
26 28 16 16-0441 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,926.78	282.32
26 28 16 16-0442 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,857.46	430.24
26 28 16 16-0443 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,888.86	694.68
26 28 16 16-0444 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	10,701.90	1,003.54
26 28 16 16-0445 Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches		
<small>(26 28 16 16-0401)</small>		
26 28 16 16-0446 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches		
<small>(26 28 16 16-0445)</small>		
26 28 16 16-0447 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	611.53	156.60
26 28 16 16-0448 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	810.61	218.37
26 28 16 16-0449 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,076.19	250.89
26 28 16 16-0450 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,533.35	401.52
26 28 16 16-0451 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,379.89	669.21
26 28 16 16-0452 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,357.43	912.51
26 28 16 16-0453 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches		
<small>(26 28 16 16-0445)</small>		
26 28 16 16-0454 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	681.69	172.86
26 28 16 16-0455 EA 60 Amperes, Non-Fused, NEMA 12, Heavy Duty Disconnect Switch, 600 Volt, 1 Phase.....	900.85	244.93
26 28 16 16-0456 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,199.49	278.52
26 28 16 16-0457 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,666.01	436.21
26 28 16 16-0458 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,578.43	716.89
26 28 16 16-0459 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,919.30	1,003.54
26 28 16 16-0460 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches		
<small>(26 28 16 16-0445)</small>		
26 28 16 16-0461 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	787.48	140.89
26 28 16 16-0462 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,035.26	196.15
26 28 16 16-0463 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,381.13	225.96
26 28 16 16-0464 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,968.46	361.42
26 28 16 16-0465 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,158.41	602.02
26 28 16 16-0466 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	6,571.91	820.93
26 28 16 16-0467 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches		
<small>(26 28 16 16-0445)</small>		
26 28 16 16-0468 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	769.52	155.51
26 28 16 16-0469 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,119.00	220.55
26 28 16 16-0470 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,478.69	250.89
26 28 16 16-0471 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,941.40	392.85
26 28 16 16-0472 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,172.22	644.82
26 28 16 16-0473 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	7,830.86	903.30
26 28 16 16-0474 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches		
<small>(26 28 16 16-0445)</small>		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0475 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	948.15	140.89
26 28 16 16-0476 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,126.64	196.15
26 28 16 16-0477 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,755.46	225.96
26 28 16 16-0478 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,783.46	361.42
26 28 16 16-0479 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,049.24	460.59
26 28 16 16-0480 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0481 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	984.45	155.51
26 28 16 16-0482 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,227.55	220.55
26 28 16 16-0483 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,874.91	250.89
26 28 16 16-0484 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,858.65	392.85
26 28 16 16-0485 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,362.98	606.89
26 28 16 16-0486 Double Throw Safety Switches <small>(26 28 16 16-0001)</small>		
26 28 16 16-0487 NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0486)</small>		
26 28 16 16-0488 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0489 EA 30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	733.17	139.26
26 28 16 16-0490 EA 60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,084.15	182.07
26 28 16 16-0491 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,521.50	237.88
26 28 16 16-0492 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,029.26	309.40
26 28 16 16-0493 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	4,912.74	386.90
26 28 16 16-0494 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	8,941.57	620.44
26 28 16 16-0495 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0496 EA 30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	924.29	195.07
26 28 16 16-0497 EA 60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,290.99	254.68
26 28 16 16-0498 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,945.63	333.25
26 28 16 16-0499 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,859.60	433.49
26 28 16 16-0500 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	6,769.30	541.87
26 28 16 16-0501 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	9,440.81	866.99
26 28 16 16-0502 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0503 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,228.82	243.84
26 28 16 16-0504 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,789.44	318.62
26 28 16 16-0505 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,182.52	416.16
26 28 16 16-0506 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	4,360.82	540.79
26 28 16 16-0507 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	8,807.66	677.33
26 28 16 16-0508 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,132.89	1,085.36
26 28 16 16-0509 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0510 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,253.44	182.07
26 28 16 16-0511 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,886.49	237.88
26 28 16 16-0512 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,782.70	309.40
26 28 16 16-0513 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	6,578.43	386.90
26 28 16 16-0514 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	9,721.48	620.44
26 28 16 16-0515 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0516 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,398.50	254.68
26 28 16 16-0517 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,076.66	333.25
26 28 16 16-0518 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,029.84	433.49
26 28 16 16-0519 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	6,888.13	541.87
26 28 16 16-0520 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	10,216.13	866.99



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0521 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0522 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,895.37	318.62
26 28 16 16-0523 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,335.84	416.16
26 28 16 16-0524 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	4,677.33	540.79
26 28 16 16-0525 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	9,482.51	677.33
26 28 16 16-0526 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,888.80	1,085.36
26 28 16 16-0527 NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0486)</small>		
26 28 16 16-0528 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0527)</small>		
26 28 16 16-0529 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,905.26	237.88
26 28 16 16-0530 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,384.77	309.40
26 28 16 16-0531 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	14,401.60	386.90
26 28 16 16-0532 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	24,807.05	620.44
26 28 16 16-0533 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0527)</small>		
26 28 16 16-0534 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,495.94	332.71
26 28 16 16-0535 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,036.40	432.95
26 28 16 16-0536 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	14,839.70	541.87
26 28 16 16-0537 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	16,109.26	868.62
26 28 16 16-0538 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0527)</small>		
26 28 16 16-0539 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,410.56	243.95
26 28 16 16-0540 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,988.20	318.41
26 28 16 16-0541 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,192.23	416.05
26 28 16 16-0542 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	6,066.24	541.01
26 28 16 16-0543 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	10,315.88	677.33
26 28 16 16-0544 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	12,015.17	1,085.47
26 28 16 16-0545 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0527)</small>		
26 28 16 16-0546 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,617.15	182.07
26 28 16 16-0547 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,463.91	237.88
26 28 16 16-0548 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,493.21	309.40
26 28 16 16-0549 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	8,658.97	386.90
26 28 16 16-0550 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	11,564.92	620.44
26 28 16 16-0551 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0527)</small>		
26 28 16 16-0552 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,828.87	254.68
26 28 16 16-0553 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,758.96	332.71
26 28 16 16-0554 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,944.23	432.95
26 28 16 16-0555 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	9,383.70	541.87
26 28 16 16-0556 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	12,602.25	868.62
26 28 16 16-0557 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0527)</small>		
26 28 16 16-0558 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,012.74	318.41
26 28 16 16-0559 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,203.48	416.05
26 28 16 16-0560 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	6,222.52	541.01
26 28 16 16-0561 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	10,297.43	677.33
26 28 16 16-0562 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	12,116.88	1,085.47
26 28 16 16-0563 NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0486)</small>		
26 28 16 16-0564 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0563)</small>		
26 28 16 16-0565 EA 30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	1,932.70	139.36
26 28 16 16-0566 EA 60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,187.70	181.96
26 28 16 16-0567 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,473.41	237.77
26 28 16 16-0568 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,401.36	309.19
26 28 16 16-0569 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,367.53	387.01
26 28 16 16-0570 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	9,334.60	620.22

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 28 16 16-0571		240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0563)</small>		
26 28 16 16-0572	EA	30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,218.72	195.07
26 28 16 16-0573	EA	60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,622.84	254.68
26 28 16 16-0574	EA	100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,110.60	332.71
26 28 16 16-0575	EA	200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,338.88	432.95
26 28 16 16-0576	EA	400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	7,924.12	541.87
26 28 16 16-0577	EA	600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	10,461.22	868.62
26 28 16 16-0578		240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0563)</small>		
26 28 16 16-0579	EA	30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,317.95	243.95
26 28 16 16-0580	EA	60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,879.91	318.41
26 28 16 16-0581	EA	100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,320.79	416.05
26 28 16 16-0582	EA	200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	7,229.45	541.01
26 28 16 16-0583	EA	400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	13,403.91	677.33
26 28 16 16-0584	EA	600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	16,638.66	1,085.47
26 28 16 16-0585		600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0563)</small>		
26 28 16 16-0586	EA	60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,889.89	181.96
26 28 16 16-0587	EA	100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,035.90	237.77
26 28 16 16-0588	EA	200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,764.91	309.19
26 28 16 16-0589	EA	400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	8,322.98	387.01
26 28 16 16-0590	EA	600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	11,169.05	620.22
26 28 16 16-0591		600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0563)</small>		
26 28 16 16-0592	EA	60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,168.38	254.68
26 28 16 16-0593	EA	100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,360.95	332.71
26 28 16 16-0594	EA	200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,282.66	432.95
26 28 16 16-0595	EA	400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	9,029.71	541.87
26 28 16 16-0596	EA	600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	12,185.13	868.62
26 28 16 16-0597		600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0563)</small>		
26 28 16 16-0598	EA	60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,919.91	318.41
26 28 16 16-0599	EA	100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,615.88	416.05
26 28 16 16-0600	EA	200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	7,403.38	541.01
26 28 16 16-0601	EA	400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	13,778.29	677.33
26 28 16 16-0602	EA	600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	17,134.90	1,085.47
26 28 16 16-0603		Removal And Reinstallation Of Disconnect Switches <small>(26 28 16 16-0001)</small>		
		Note: Includes storage and cleaning.		
26 28 16 16-0604	EA	Removal And Reinstallation Of Up To 100 Amperes Safety Disconnect Switch	541.87	
26 28 16 16-0605	EA	Removal And Reinstallation Of >100 To 200 Amperes Safety Disconnect Switch	704.46	
26 28 16 16-0606	EA	Removal And Reinstallation Of >200 To 300 Amperes Safety Disconnect Switch	785.77	
26 28 16 16-0607	EA	Removal And Reinstallation Of >300 To 400 Amperes Safety Disconnect Switch	921.24	
26 28 16 16-0608		Bolted Contact Switches <small>(26 28 16 16)</small>		
		Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the switch.		
26 28 16 16-0609		Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0608)</small>		
26 28 16 16-0610		Top Feed, Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0609)</small>		
26 28 16 16-0611	EA	800 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833T120480)	9,262.10	1,083.74
26 28 16 16-0612	EA	1,200 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233T120480)	9,999.99	1,300.49
26 28 16 16-0613	EA	1,600 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633T120480)	10,860.79	1,517.24
26 28 16 16-0614	EA	2,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033T120480)	11,440.63	1,733.99
26 28 16 16-0615	EA	2,500 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533T120480)	12,921.94	1,950.73
26 28 16 16-0616	EA	3,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033T120480)	16,264.70	2,167.48
26 28 16 16-0617	EA	4,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033T120480)	21,990.21	2,600.98
26 28 16 16-0618		Bottom Feed, Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0609)</small>		
26 28 16 16-0619	EA	800 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833B120480)	9,829.90	1,083.74
26 28 16 16-0620	EA	1,200 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233B120480)	10,679.01	1,300.49
26 28 16 16-0621	EA	1,600 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633B120480)	11,533.96	1,517.24
26 28 16 16-0622	EA	2,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033B120480)	12,406.49	1,733.99
26 28 16 16-0623	EA	2,500 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533B120480)	13,963.89	1,950.73
26 28 16 16-0624	EA	3,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033B120480)	18,219.82	2,167.48
26 28 16 16-0625	EA	4,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033B120480)	24,027.28	2,600.98



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0626 Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0608)</small>		
26 28 16 16-0627 Top Feed, Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0626)</small>		
26 28 16 16-0628 EA 800 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833T480)	6,709.91	1,083.74
26 28 16 16-0629 EA 1,200 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233T480)	7,478.24	1,300.49
26 28 16 16-0630 EA 1,600 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633T480)	8,294.56	1,517.24
26 28 16 16-0631 EA 2,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033T480)	9,103.86	1,733.99
26 28 16 16-0632 EA 2,500 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533T480)	9,971.70	1,950.73
26 28 16 16-0633 EA 3,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033T480)	13,314.46	2,167.48
26 28 16 16-0634 EA 4,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033T480)	18,969.73	2,600.98
26 28 16 16-0635 Bottom Feed, Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0626)</small>		
26 28 16 16-0636 EA 800 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833B480)	7,085.71	1,083.74
26 28 16 16-0637 EA 1,200 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233B480)	8,046.04	1,300.49
26 28 16 16-0638 EA 1,600 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633B480)	8,844.80	1,517.24
26 28 16 16-0639 EA 2,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033B480)	9,830.88	1,733.99
26 28 16 16-0640 EA 2,500 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533B480)	10,884.87	1,950.73
26 28 16 16-0641 EA 3,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033B480)	15,123.24	2,167.48
26 28 16 16-0642 EA 4,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033B480)	20,866.31	2,600.98
26 29 Low-Voltage Controllers <small>(26 20)</small>		
26 29 13 Enclosed Controllers <small>(26 29)</small>		
26 29 13 13 Across-The-Line Motor Controllers <small>(26 29 13)</small>		
26 29 13 13-0001 Manual Motor Starters <small>(26 29 13 13)</small>		
26 29 13 13-0002 Fractional HP Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0003 EA NEMA 1, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG1)	219.99	54.28
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-3.09	
For Oversized Enclosure, Add	31.09	
For Pilot Light, Add	45.60	
26 29 13 13-0004 EA NEMA 1, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG2)	288.33	70.57
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-3.09	
For Oversized Enclosure, Add	31.09	
For Pilot Light, Add	45.60	
26 29 13 13-0005 EA NEMA 1, 1 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG3)	251.08	54.28
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-3.09	
For Oversized Enclosure, Add	31.09	
For Pilot Light, Add	45.60	
26 29 13 13-0006 EA NEMA 1, 2 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG4)	319.41	70.57
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-3.09	
For Oversized Enclosure, Add	31.09	
For Pilot Light, Add	45.60	
26 29 13 13-0007 EA NEMA 1, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG5)	233.47	54.28
For Oversized Enclosure, Add	31.09	
26 29 13 13-0008 EA NEMA 1, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG6)	305.94	70.57
For Oversized Enclosure, Add	31.09	
26 29 13 13-0009 EA NEMA 4, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW1)	484.20	65.14
For Pilot Light, Add	119.18	
26 29 13 13-0010 EA NEMA 4, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW2)	555.64	81.43
For Pilot Light, Add	119.18	
26 29 13 13-0011 EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR1)	515.29	65.14
26 29 13 13-0012 EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR2)	583.62	81.43
26 29 13 13-0013 Non Reversing Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0014 EA NEMA 1, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG1)	174.58	54.28
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	15.00	
For Pilot Light, Add	72.00	
26 29 13 13-0015 EA NEMA 1, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG2)	290.14	70.57
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	15.00	
For Pilot Light, Add	72.00	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0016 EA NEMA 1, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG5).....	197.43	59.72
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	15.00	
For Pilot Light, Add	72.00	
26 29 13 13-0017 EA NEMA 1, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG6).....	313.99	76.00
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	15.00	
For Pilot Light, Add	72.00	
26 29 13 13-0018 EA NEMA 1, Non Reversing, 2 Pole, Key Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG3)	203.58	54.28
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	15.00	
For Pilot Light, Add	72.00	
26 29 13 13-0019 EA NEMA 1, Non Reversing, 3 Pole, Key Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG4).....	320.14	70.57
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	15.00	
For Pilot Light, Add	72.00	
26 29 13 13-0020 EA NEMA 4, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW1).....	444.28	65.14
For Pilot Light, Add	113.99	
26 29 13 13-0021 EA NEMA 4, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW2)	548.84	81.43
For Pilot Light, Add	113.99	
26 29 13 13-0022 EA NEMA 4, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW5)	468.14	70.57
For Pilot Light, Add	113.99	
26 29 13 13-0023 EA NEMA 4, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW6)	569.70	86.85
For Pilot Light, Add	113.99	
26 29 13 13-0024 EA NEMA 3R, 7 And 9, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR1).....	472.27	65.14
26 29 13 13-0025 EA NEMA 3R, 7 And 9, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR2).....	584.84	81.43
26 29 13 13-0026 EA Open Type, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO1).....	128.00	38.00
For Pilot Light, Add	72.00	
26 29 13 13-0027 EA Open Type, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO2).....	243.57	54.28
For Pilot Light, Add	72.00	
26 29 13 13-0028 EA Open Type, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO5).....	150.85	43.43
For Pilot Light, Add	72.00	
26 29 13 13-0029 EA Open Type, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO6).....	266.42	59.72
For Pilot Light, Add	72.00	
26 29 13 13-0030 Reversing Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0031 EA NEMA 1, Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG11)	482.42	97.72
For Pilot Light, Add	115.99	
26 29 13 13-0032 EA NEMA 1, Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG22)	701.56	130.29
For Pilot Light, Add	115.99	
26 29 13 13-0033 Two Speed Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0034 EA NEMA 1, Two Speed, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG11)	482.42	97.72
26 29 13 13-0035 EA NEMA 1, Two Speed, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG22).....	701.56	130.29
26 29 13 13-0036 Non-Reversing Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0037 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG1)	448.46	65.14
26 29 13 13-0038 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG1)	448.46	65.14
26 29 13 13-0039 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW11).....	942.73	76.00
26 29 13 13-0040 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW1)	942.73	76.00
26 29 13 13-0041 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR1)	1,237.04	76.00
26 29 13 13-0042 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA1)	572.76	76.00
26 29 13 13-0043 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO1)	384.80	48.86
26 29 13 13-0044 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG1)	533.93	70.57



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0045 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG1).....	533.93	70.57
26 29 13 13-0046 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW11)	1,130.80	81.43
26 29 13 13-0047 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW1).....	1,130.80	81.43
26 29 13 13-0048 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR1).....	1,447.91	81.43
26 29 13 13-0049 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA1)	658.24	81.43
26 29 13 13-0050 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO1).....	470.27	54.28
26 29 13 13-0051 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG2).....	705.41	76.00
26 29 13 13-0052 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG2).....	705.41	76.00
26 29 13 13-0053 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW12)	1,346.85	86.85
26 29 13 13-0054 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW2)	1,346.85	86.85
26 29 13 13-0055 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR2)	1,650.49	86.85
26 29 13 13-0056 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA2)	832.84	86.85
26 29 13 13-0057 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO2).....	644.86	59.72
26 29 13 13-0058 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG2)	555.13	81.43
26 29 13 13-0059 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG2).....	555.13	81.43
26 29 13 13-0060 EA NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW12).....	1,049.40	92.29
26 29 13 13-0061 EA NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW2).....	1,049.40	92.29
26 29 13 13-0062 EA NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR2).....	1,352.01	92.29
26 29 13 13-0063 EA Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA2).....	680.47	92.29
26 29 13 13-0064 EA Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO2)	494.58	65.14
26 29 13 13-0065 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG3).....	640.61	86.85
26 29 13 13-0066 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG3).....	640.61	86.85
26 29 13 13-0067 EA NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW13)	1,237.47	97.72
26 29 13 13-0068 EA NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW3).....	1,237.47	97.72
26 29 13 13-0069 EA NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR3).....	1,561.84	97.72
26 29 13 13-0070 EA Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA3)	764.91	97.72
26 29 13 13-0071 EA Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO3).....	576.95	70.57
26 29 13 13-0072 Reversing Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0073 EA NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBG1)	1,314.61	114.00
26 29 13 13-0074 EA NEMA 1, Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511TBG1)	1,314.61	114.00
26 29 13 13-0075 EA Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBO1)	1,161.38	81.43
26 29 13 13-0076 EA NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCG1).....	1,557.05	124.86
26 29 13 13-0077 EA Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCO1)	1,403.82	92.29
26 29 13 13-0078 Two Speed Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0079 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBG1)	1,314.61	114.00
26 29 13 13-0080 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBO1)	1,161.38	81.43
26 29 13 13-0081 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCG1).....	1,557.05	124.86
26 29 13 13-0082 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCO1).....	1,403.82	92.29
26 29 13 13-0083 Magnetic Contactors/Starters (26 29 13 13)		
26 29 13 13-0084 Non Reversing, Magnetic Contactors (26 29 13 13-0083)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0085			Open Enclosure, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
26 29 13 13-0086	EA		Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAO11).....	514.56	108.58
26 29 13 13-0087	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAO12).....	579.81	119.43
26 29 13 13-0088	EA		Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO5).....	558.09	108.58
26 29 13 13-0089	EA		Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO1).....	624.37	119.43
26 29 13 13-0090	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO2).....	689.62	130.29
26 29 13 13-0091	EA		Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO3).....	871.86	162.86
26 29 13 13-0092	EA		Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO4).....	1,099.70	195.43
26 29 13 13-0093	EA		Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO5).....	652.35	119.43
26 29 13 13-0094	EA		Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO1).....	717.60	130.29
26 29 13 13-0095	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO2).....	784.90	141.15
26 29 13 13-0096	EA		Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO3).....	1,000.75	190.01
26 29 13 13-0097	EA		Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO4).....	1,227.57	222.58
26 29 13 13-0098	EA		Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO1).....	1,117.61	130.29
26 29 13 13-0099	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO2).....	1,239.75	162.86
26 29 13 13-0100	EA		Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO3).....	1,614.65	217.14
26 29 13 13-0101	EA		Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO1).....	1,683.30	162.86
26 29 13 13-0102	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO2).....	1,911.03	217.14
26 29 13 13-0103	EA		Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO3).....	2,432.07	271.43
26 29 13 13-0104	EA		Size 3, 3 Phase, 5 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO4).....	3,485.77	325.72
26 29 13 13-0105	EA		Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO1).....	3,819.69	271.43
26 29 13 13-0106	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO2).....	4,194.61	325.72
26 29 13 13-0107	EA		Size 4, 3 Phase, 4 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO3).....	5,689.76	380.00
26 29 13 13-0108	EA		Size 5, 1 Phase, 2 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGO1).....	7,752.28	325.72
26 29 13 13-0109	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGO2).....	8,590.18	434.28
26 29 13 13-0110	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHO2).....	22,380.51	651.44
26 29 13 13-0111	EA		Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SJO2).....	32,036.51	977.15
26 29 13 13-0112			NEMA 1, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
26 29 13 13-0113	EA		Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAG11).....	546.69	108.58
26 29 13 13-0114	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAG12).....	611.93	119.43
26 29 13 13-0115	EA		Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG5).....	590.21	108.58
26 29 13 13-0116	EA		Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG1).....	657.53	119.43
26 29 13 13-0117	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG2).....	722.78	130.29
26 29 13 13-0118	EA		Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG3).....	907.09	162.86
26 29 13 13-0119	EA		Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG4).....	1,135.97	195.43
26 29 13 13-0120	EA		Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG5).....	686.55	119.43
26 29 13 13-0121	EA		Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG1).....	753.87	130.29
26 29 13 13-0122	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG2).....	819.10	141.15
26 29 13 13-0123	EA		Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG3).....	1,035.99	190.01
26 29 13 13-0124	EA		Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG4).....	1,261.77	222.58
26 29 13 13-0125	EA		Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG1).....	1,270.99	130.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0126 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG2).....	1,394.16	162.86
26 29 13 13-0127 EA Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG3).....	1,768.02	217.14
26 29 13 13-0128 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG1).....	1,984.86	162.86
26 29 13 13-0129 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG2).....	2,211.56	217.14
26 29 13 13-0130 EA Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG3).....	2,733.63	271.43
26 29 13 13-0131 EA Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFG1).....	4,444.59	271.43
26 29 13 13-0132 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFG2).....	4,819.51	325.72
26 29 13 13-0133 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGG2).....	9,729.09	434.28
26 29 13 13-0134 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHG2).....	27,389.03	651.44
26 29 13 13-0135 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SJG2).....	37,059.54	977.15
26 29 13 13-0136 NEMA 12, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
26 29 13 13-0137 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBA1).....	834.74	119.43
26 29 13 13-0138 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBA2).....	899.99	130.29
26 29 13 13-0139 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCA2).....	996.31	141.15
26 29 13 13-0140 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDA1).....	1,594.32	130.29
26 29 13 13-0141 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDA2).....	1,718.53	162.86
26 29 13 13-0142 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEA1).....	2,368.30	162.86
26 29 13 13-0143 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEA2).....	2,593.96	217.14
26 29 13 13-0144 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCA2).....	6,089.00	325.72
26 29 13 13-0145 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGA2).....	12,977.94	434.28
26 29 13 13-0146 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHA2).....	31,372.63	651.44
26 29 13 13-0147 NEMA 4/4X, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
Note: Brushed stainless steel enclosure.		
26 29 13 13-0148 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBW12).....	1,239.90	130.29
26 29 13 13-0149 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW11).....	1,285.50	130.29
26 29 13 13-0150 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW12).....	1,350.73	141.15
26 29 13 13-0151 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW13).....	1,567.62	190.01
26 29 13 13-0152 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDW12).....	2,457.42	162.86
26 29 13 13-0153 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEW12).....	3,716.30	217.14
26 29 13 13-0154 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFW12).....	7,388.54	325.72
26 29 13 13-0155 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGW12).....	12,977.94	434.28
26 29 13 13-0156 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHW2).....	34,767.61	651.44
26 29 13 13-0157 NEMA 7/9, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
Note: Bolted cast iron enclosure.		
26 29 13 13-0158 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBT2).....	2,492.61	173.72
26 29 13 13-0159 Non Reversing, Magnetic Starters <small>(26 29 13 13-0083)</small>		
26 29 13 13-0160 Open Enclosure, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0161 EA Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAO11).....	617.16	108.58
26 29 13 13-0162 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAO12).....	638.88	119.43
26 29 13 13-0163 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO1).....	689.66	119.43
26 29 13 13-0164 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO2).....	763.19	130.29

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0165 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO4).....	1,229.24	195.43
26 29 13 13-0166 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO1).....	785.99	130.29
26 29 13 13-0167 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO3).....	924.81	141.15
26 29 13 13-0168 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO2).....	968.33	141.15
26 29 13 13-0169 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDO6).....	1,211.92	130.29
26 29 13 13-0170 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDO1).....	1,373.44	162.86
26 29 13 13-0171 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEO1).....	2,131.77	217.14
26 29 13 13-0172 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFO1).....	4,534.52	325.72
26 29 13 13-0173 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGO1).....	10,352.95	434.28
26 29 13 13-0174 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SHO2).....	23,848.97	651.44
26 29 13 13-0175 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SJO2).....	34,349.57	977.15
26 29 13 13-0176 NEMA 1, Non Reversing, Magnetic Starters (26 29 13 13-0159)		
26 29 13 13-0177 EA Size 00, 1 Phase, 2 Pole, .34 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAG1).....	651.36	108.58
26 29 13 13-0178 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAG12).....	673.08	119.43
26 29 13 13-0179 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBG1).....	723.86	119.43
26 29 13 13-0180 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBG2).....	797.39	130.29
26 29 13 13-0181 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG1).....	819.15	130.29
26 29 13 13-0182 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG3).....	893.72	141.15
26 29 13 13-0183 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG2).....	1,003.57	141.15
26 29 13 13-0184 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDG6).....	1,366.33	130.29
26 29 13 13-0185 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDG1).....	1,527.85	162.86
26 29 13 13-0186 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEG1).....	2,433.34	217.14
26 29 13 13-0187 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFG1).....	5,159.42	325.72
26 29 13 13-0188 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGG1).....	11,494.97	434.28
26 29 13 13-0189 NEMA 12, Non Reversing, Magnetic Starters (26 29 13 13-0159)		
26 29 13 13-0190 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBA1).....	901.07	119.43
26 29 13 13-0191 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBA2).....	974.60	130.29
26 29 13 13-0192 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA1).....	996.37	130.29
26 29 13 13-0193 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA3).....	1,070.93	141.15
26 29 13 13-0194 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA2).....	1,180.78	141.15
26 29 13 13-0195 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDA6).....	1,690.70	130.29
26 29 13 13-0196 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDA1).....	1,851.18	162.86
26 29 13 13-0197 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEA1).....	2,815.74	217.14
26 29 13 13-0198 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFA1).....	6,427.87	325.72
26 29 13 13-0199 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGA1).....	14,740.72	434.28
26 29 13 13-0200 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SHA2).....	35,218.41	651.44
26 29 13 13-0201 NEMA 3R, Non Reversing, Magnetic Starters (26 29 13 13-0159)		
26 29 13 13-0202 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBH1).....	901.07	119.43
26 29 13 13-0203 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBH2).....	974.60	130.29
26 29 13 13-0204 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH1).....	996.37	130.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0205 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH3).....	1,070.93	141.15
26 29 13 13-0206 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH2).....	1,180.78	141.15
26 29 13 13-0207 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDH6).....	1,690.70	130.29
26 29 13 13-0208 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDH1).....	1,851.18	162.86
26 29 13 13-0209 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEH1).....	2,815.74	217.14
26 29 13 13-0210 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFH1).....	6,427.87	325.72
26 29 13 13-0211 NEMA 3R/4/4X/7/9, Non Reversing, Magnetic Starters (26 29 13 13-0159) Note: Bolted cast aluminum enclosure.		
26 29 13 13-0212 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT4).....	2,597.22	184.57
26 29 13 13-0213 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCR1).....	3,200.36	184.57
26 29 13 13-0214 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCR3).....	3,296.69	195.43
26 29 13 13-0215 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDR1).....	5,125.69	217.14
26 29 13 13-0216 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SET43).....	6,179.39	271.43
26 29 13 13-0217 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFT41).....	9,856.79	380.00
26 29 13 13-0218 NEMA 4/4X, Non Reversing, Magnetic Starters (26 29 13 13-0159) Note: Brushed stainless steel enclosure.		
26 29 13 13-0219 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBW11).....	1,239.94	119.43
26 29 13 13-0220 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBW12).....	1,314.51	130.29
26 29 13 13-0221 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW11).....	1,350.79	130.29
26 29 13 13-0222 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW13).....	1,425.35	141.15
26 29 13 13-0223 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 7-1/2 HP At 460/575 Volt, 36 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW12).....	1,535.20	141.15
26 29 13 13-0224 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDW16).....	2,427.52	130.29
26 29 13 13-0225 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEW11).....	3,937.03	217.14
26 29 13 13-0226 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFW11).....	7,726.38	325.72
26 29 13 13-0227 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGW11).....	17,237.21	434.28
26 29 13 13-0228 NEMA 4X, Non Reversing, Magnetic Starters (26 29 13 13-0159) Note: Glass polyester enclosure.		
26 29 13 13-0229 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDW21).....	2,591.11	162.86
26 29 13 13-0230 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEW21).....	4,813.76	217.14
26 29 13 13-0231 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFW21).....	9,496.41	325.72
26 29 13 13-0232 NEMA 7/9, Non Reversing, Magnetic Starters (26 29 13 13-0159) Note: Bolted cast iron enclosure.		
26 29 13 13-0233 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT1).....	2,514.37	173.72
26 29 13 13-0234 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT2).....	2,597.22	184.57
26 29 13 13-0235 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT1).....	2,634.53	184.57
26 29 13 13-0236 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT3).....	2,713.25	195.43
26 29 13 13-0237 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 36 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT2).....	2,839.68	195.43
26 29 13 13-0238 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDT1).....	4,188.86	217.14
26 29 13 13-0239 Reversing, Magnetic Starters (26 29 13 13-0083)		
26 29 13 13-0240 Open Enclosure, Reversing, Magnetic Starters (26 29 13 13-0239)		
26 29 13 13-0241 EA Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO13).....	1,176.63	141.15

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0242	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO16).....	1,241.92	141.15
26 29 13 13-0243	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO1).....	1,375.55	152.00
26 29 13 13-0244	EA		Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO2).....	1,426.29	162.86
26 29 13 13-0245	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO10).....	1,462.56	162.86
26 29 13 13-0246	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO2).....	1,565.10	173.72
26 29 13 13-0247	EA		Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO3).....	1,628.76	190.01
26 29 13 13-0248	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO7).....	1,666.07	190.01
26 29 13 13-0249	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDO1).....	2,868.59	217.14
26 29 13 13-0250	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEO1).....	4,695.15	325.72
26 29 13 13-0251	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFO1).....	10,853.25	488.58
26 29 13 13-0252	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SGO1).....	20,276.79	651.44
26 29 13 13-0253	EA		Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SJO1).....	65,863.01	1,194.30
26 29 13 13-0254			NEMA 1, Reversing, Magnetic Starters <small>(26 29 13 13-0239)</small>		
26 29 13 13-0255	EA		Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG13).....	1,217.10	130.29
26 29 13 13-0256	EA		Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG15).....	1,269.90	141.15
26 29 13 13-0257	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG16).....	1,307.21	141.15
26 29 13 13-0258	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG1).....	1,437.73	152.00
26 29 13 13-0259	EA		Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG2).....	1,490.54	162.86
26 29 13 13-0260	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG4).....	1,527.85	162.86
26 29 13 13-0261	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG2).....	1,658.37	173.72
26 29 13 13-0262	EA		Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG6).....	1,722.03	190.01
26 29 13 13-0263	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG8).....	1,759.34	190.01
26 29 13 13-0264	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDG2).....	3,111.09	217.14
26 29 13 13-0265	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEG2).....	5,114.86	325.72
26 29 13 13-0266	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFG3).....	11,624.27	488.58
26 29 13 13-0267			NEMA 12, Reversing, Magnetic Starters <small>(26 29 13 13-0239)</small>		
26 29 13 13-0268	EA		Size 0, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA2).....	1,755.84	162.86
26 29 13 13-0269	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA4).....	1,793.14	162.86
26 29 13 13-0270	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCA4).....	2,024.64	190.01
26 29 13 13-0271	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDA1).....	3,554.63	217.14
26 29 13 13-0272			NEMA 4X, Reversing, Magnetic Starters <small>(26 29 13 13-0239)</small>		
			Note: Brushed stainless steel enclosure.		
26 29 13 13-0273	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBW14).....	2,205.60	162.86
26 29 13 13-0274	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCW11).....	2,603.49	173.72
26 29 13 13-0275			Magnetic Contactor/Starters Accessories <small>(26 29 13 13-0083)</small>		
26 29 13 13-0276	EA		NEMA 1 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA2).....	164.23	13.57
			<i>For Factory Installed Accessory, Deduct</i>	-27.15	
26 29 13 13-0277	EA		NEMA 12 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA3).....	281.23	13.57
			<i>For Factory Installed Accessory, Deduct</i>	-27.15	
26 29 13 13-0278	EA		NEMA 1 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC2).....	164.23	13.57
			<i>For Factory Installed Accessory, Deduct</i>	-27.15	
26 29 13 13-0279	EA		NEMA 12 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC8).....	281.23	13.57
			<i>For Factory Installed Accessory, Deduct</i>	-27.15	
26 29 13 13-0280	EA		NEMA 1 And 12 Enclosure Red Pilot Light Kit, Contactor/Starter Accessory (Square D 9999SP2R).....	281.23	13.57
			<i>For Factory Installed Accessory, Deduct</i>	-27.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0281 EA Internal Nonconvertible Contact Block Kit, 1 Contact, Contactor/Starter Accessory (Square D 9999SX11).....	138.70	10.86
<i>For Factory Installed Accessory, Deduct</i>	-21.71	
26 29 13 13-0282 EA External Convertible Field Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX6)	123.34	10.86
<i>For Factory Installed Accessory, Deduct</i>	-21.71	
26 29 13 13-0283 EA External Convertible Field Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX8)	164.23	13.57
<i>For Factory Installed Accessory, Deduct</i>	-27.15	
26 29 13 13-0284 EA External Field Non Convertible Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX13).....	138.70	10.86
<i>For Factory Installed Accessory, Deduct</i>	-21.71	
26 29 13 13-0285 EA External Field Non Convertible Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX15)	185.51	13.57
<i>For Factory Installed Accessory, Deduct</i>	-27.15	
26 29 13 13-0286 EA 30 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB6)	208.43	10.86
<i>For Factory Installed Accessory, Deduct</i>	-21.71	
26 29 13 13-0287 EA 45 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB11)	360.88	10.86
<i>For Factory Installed Accessory, Deduct</i>	-21.71	
26 29 13 13-0288 EA 60 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB21)	383.33	10.86
<i>For Factory Installed Accessory, Deduct</i>	-21.71	
26 29 13 13-0289 EA 30 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB8)	458.49	13.57
<i>For Factory Installed Accessory, Deduct</i>	-27.15	
26 29 13 13-0290 EA 45 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB13)	802.39	13.57
<i>For Factory Installed Accessory, Deduct</i>	-27.15	
26 29 13 13-0291 EA 60 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB23)	802.39	13.57
<i>For Factory Installed Accessory, Deduct</i>	-27.15	
26 29 13 13-0292 EA Adapter Bracket For Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SBT1).....	47.14	8.15
<i>For Factory Installed Accessory, Deduct</i>	-16.29	
26 29 13 13-0293 EA 1 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF3).....	97.34	10.86
<i>For Factory Installed Accessory, Deduct</i>	-21.71	
26 29 13 13-0294 EA 2 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF4).....	128.78	13.57
<i>For Factory Installed Accessory, Deduct</i>	-27.15	
26 29 13 13-0295 EA Transient Suppression Module, Contactor/Starter Accessory (Square D 9999ST1).....	100.42	13.57
<i>For Factory Installed Accessory, Deduct</i>	-27.15	
26 29 13 13-0296 EA Terminal Block, Contactor/Starter Accessory (Square D 9999T7).....	55.65	8.15
<i>For Factory Installed Accessory, Deduct</i>	-16.29	
26 29 13 13-0297 EA Closing Plate For NEMA 1 Enclosures, Contactor/Starter Accessory (Square D 9999SG1)	33.20	8.15
<i>For Factory Installed Accessory, Deduct</i>	-16.29	
26 29 13 13-0298 EA 1 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R39)	181.25	10.86
<i>For Factory Installed Accessory, Deduct</i>	-21.71	
26 29 13 13-0299 EA 2 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R40)	314.32	13.57
<i>For Factory Installed Accessory, Deduct</i>	-27.15	
26 29 13 13-0300 Definite Purpose Starters <small>(26 29 13 13)</small>		
26 29 13 13-0301 Open Enclosure, Definite Purpose Starter <small>(26 29 13 13-0300)</small>		
26 29 13 13-0302 EA Open Enclosure, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO13)	568.37	130.29
<i>For Factory Installed Accessory, Deduct</i>	-260.58	
26 29 13 13-0303 EA Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO22)	567.33	130.29
<i>For Factory Installed Accessory, Deduct</i>	-260.58	
26 29 13 13-0304 EA Open Enclosure, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO23)	613.91	141.15
<i>For Factory Installed Accessory, Deduct</i>	-282.29	
26 29 13 13-0305 EA Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO32)	605.67	130.29
<i>For Factory Installed Accessory, Deduct</i>	-260.58	
26 29 13 13-0306 EA Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO33)	658.47	141.15
<i>For Factory Installed Accessory, Deduct</i>	-282.29	
26 29 13 13-0307 EA Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO42)	638.84	130.29
<i>For Factory Installed Accessory, Deduct</i>	-260.58	
26 29 13 13-0308 EA Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO43)	739.21	162.86
<i>For Factory Installed Accessory, Deduct</i>	-325.72	
26 29 13 13-0309 EA Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO52)	825.22	162.86
<i>For Factory Installed Accessory, Deduct</i>	-325.72	
26 29 13 13-0310 EA Open Enclosure, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO53)	1,041.17	190.01
<i>For Factory Installed Accessory, Deduct</i>	-380.00	
26 29 13 13-0311 NEMA 1, Definite Purpose Starter <small>(26 29 13 13-0300)</small>		
26 29 13 13-0312 EA NEMA 1, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG12)	582.92	119.43
<i>For Factory Installed Accessory, Deduct</i>	-238.86	
26 29 13 13-0313 EA NEMA 1, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG13)	629.51	130.29
<i>For Factory Installed Accessory, Deduct</i>	-260.58	
26 29 13 13-0314 EA NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG22)	627.44	130.29
<i>For Factory Installed Accessory, Deduct</i>	-260.58	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 29 Low-Voltage Controllers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0315	EA		NEMA 1, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG23) .....677.13 <i>For Factory Installed Accessory, Deduct</i> .....-282.29	677.13	141.15
26 29 13 13-0316	EA		NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG32) .....666.82 <i>For Factory Installed Accessory, Deduct</i> .....-260.58	666.82	130.29
26 29 13 13-0317	EA		NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG33) .....720.65 <i>For Factory Installed Accessory, Deduct</i> .....-282.29	720.65	141.15
26 29 13 13-0318	EA		NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG42) .....702.05 <i>For Factory Installed Accessory, Deduct</i> .....-260.58	702.05	130.29
26 29 13 13-0319	EA		NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG43) .....801.39 <i>For Factory Installed Accessory, Deduct</i> .....-325.72	801.39	162.86
26 29 13 13-0320	EA		NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG52) .....884.29 <i>For Factory Installed Accessory, Deduct</i> .....-325.72	884.29	162.86
26 29 13 13-0321	EA		NEMA 1, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG53) .....1,101.28 <i>For Factory Installed Accessory, Deduct</i> .....-380.00	1,101.28	190.01
26 29 13 13-0322			Definite Purpose Starter Accessory (26 29 13 13-0300)		
26 29 13 13-0323	EA		Start-Stop Push Button Kit, Definite Purpose Starter Accessory .....185.51 Note: Or Hand-Off-Auto Selector Switch Kit <i>For Factory Installed Accessory, Deduct</i> .....-27.15	185.51	13.57
26 29 13 13-0324			Panel Mounted Miniature Contactor (26 29 13 13)		
26 29 13 13-0325			Non Reversing, Panel Mounted Miniature Contactor (26 29 13 13-0324)		
26 29 13 13-0326	EA		3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K) .....167.65	167.65	54.28
26 29 13 13-0327	EA		3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K) .....197.15	197.15	59.72
26 29 13 13-0328	EA		3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K) .....197.15	197.15	59.72
26 29 13 13-0329	EA		3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K) .....219.41	219.41	65.14
26 29 13 13-0330	EA		3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K) .....186.30	186.30	54.28
26 29 13 13-0331	EA		3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K) .....196.67	196.67	54.28
26 29 13 13-0332	EA		3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K) .....214.77	214.77	59.72
26 29 13 13-0333	EA		3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K) .....225.13	225.13	59.72
26 29 13 13-0334	EA		3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K) .....220.99	220.99	59.72
26 29 13 13-0335	EA		3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K) .....225.13	225.13	59.72
26 29 13 13-0336	EA		3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K) .....240.14	240.14	65.14
26 29 13 13-0337	EA		3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K) .....231.35	231.35	59.72
26 29 13 13-0338	EA		3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K) .....250.50	250.50	65.14
26 29 13 13-0339	EA		3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K) .....233.42	233.42	59.72
26 29 13 13-0340	EA		3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K) .....233.42	233.42	59.72
26 29 13 13-0341	EA		3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K) .....260.87	260.87	65.14
26 29 13 13-0342	EA		3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K) .....260.87	260.87	65.14



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0343 Reversing, Panel Mounted Miniature Contactor <small>(26 29 13 13-0324)</small>		
26 29 13 13-0344 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	243.30	54.28
26 29 13 13-0345 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	264.03	54.28
26 29 13 13-0346 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	292.49	59.72
26 29 13 13-0347 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	292.49	59.72
26 29 13 13-0348 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	313.22	59.72
26 29 13 13-0349 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	328.23	65.14
26 29 13 13-0350 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	328.23	65.14
26 29 13 13-0351 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	281.64	54.28
26 29 13 13-0352 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	302.37	54.28
26 29 13 13-0353 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	328.77	59.72
26 29 13 13-0354 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	349.49	59.72
26 29 13 13-0355 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	370.72	65.14
26 29 13 13-0356 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	391.44	65.14
26 29 13 13-0357 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	317.37	59.72
26 29 13 13-0358 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	366.07	59.72
26 29 13 13-0359 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	414.24	65.14
26 29 13 13-0360 Panel Mounted Miniature Contactor Accessories <small>(26 29 13 13-0324)</small>		
26 29 13 13-0361 EA 2 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN02)	70.55	27.15
26 29 13 13-0362 EA 4 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN40)	78.55	27.15
26 29 13 13-0363 EA Electronic Time Delay Contact, 2 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA2KT2U).....	93.04	27.15
26 29 13 13-0364 EA Overload Relay, Panel Mounted Miniature Contactor Accessory (Square D LR2K0301)	121.86	27.15
26 29 13 13-0365 Reduced Voltage Auto Transformer Type 240-600 Volt, 3 Pole <small>(26 29 13 13)</small>		
26 29 13 13-0366 NEMA 1 Enclosure <small>(26 29 13 13-0365)</small>		
26 29 13 13-0367 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	7,044.34	520.20
For NEMA 4, Add	747.73	
26 29 13 13-0368 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	12,315.68	693.59
For NEMA 4, Add	1,365.78	
26 29 13 13-0369 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	21,584.13	823.65
For NEMA 4, Add	2,492.76	
26 29 13 13-0370 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	52,697.56	1,007.88
For NEMA 4, Add	6,336.33	
26 29 13 13-0371 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing	84,094.74	1,289.65
For NEMA 4, Add	10,189.30	
26 29 13 13-0372 NEMA 12 Enclosure <small>(26 29 13 13-0365)</small>		
26 29 13 13-0373 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	6,994.51	531.25
26 29 13 13-0374 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	12,224.67	694.68
26 29 13 13-0375 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	21,418.02	821.04
26 29 13 13-0376 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	52,275.34	1,003.44
26 29 13 13-0377 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	83,415.78	1,290.19
26 29 13 13-0378 Factory Modifications Pilot Devices <small>(26 29 13 13-0365)</small>		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0379 EA Start-Stop Push-button, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	176.17	
26 29 13 13-0380 EA H-O-A Select Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	194.29	
26 29 13 13-0381 EA Forward-Reverse-Stop, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	330.72	
26 29 13 13-0382 EA Pilot Light, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	179.69	
26 29 13 13-0383 EA Fused Control Circuit, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	258.38	
26 29 13 13-0384 EA Auxiliary Interlock, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	129.19	
26 29 13 13-0385 EA Auxiliary Relay, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	421.67	
26 29 13 13-0386 Factory Modifications Meters (26 29 13 13-0365)		
26 29 13 13-0387 EA Ammeter And Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	1,694.96	
26 29 13 13-0388 EA Voltmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	1,637.10	
26 29 13 13-0389 EA Wattmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	578.77	
26 29 13 13-0390 EA Elapsed-time Meter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	479.57	
26 29 13 13-0391 Factory Modifications Main Circuit Breakers (26 29 13 13-0365)		
26 29 13 13-0392 EA Reduced Voltage Auto Transformer Starter, Size 3, Circuit Breaker, Factory Modification Main Circuit Breaker.....	2,240.14	
26 29 13 13-0393 EA Reduced Voltage Auto Transformer Starter, Size 4, Circuit Breaker, Factory Modification Main Circuit Breaker.....	4,096.94	
26 29 13 13-0394 EA Reduced Voltage Auto Transformer Starter, Size 5-7, Circuit Breaker, Factory Modification Main Circuit Breaker.....	8,714.59	
26 29 13 13-0395 Factory Modifications Addition (26 29 13 13-0365)		
Note: For reversing service auto transformer type.		
26 29 13 13-0396 EA Reduced Voltage Auto Transformer Starter, Size 3, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	376.21	
26 29 13 13-0397 EA Reduced Voltage Auto Transformer Starter, Size 4, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	376.21	
26 29 13 13-0398 EA Reduced Voltage Auto Transformer Starter, Size 5, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	376.21	
26 29 13 13-0399 EA Reduced Voltage Auto Transformer Starter, Size 6, 7, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	376.21	
26 29 13 13-0400 Combination Starters Non-Reversing (26 29 13 13)		
26 29 13 13-0401 240-600 Volt, 3-Pole (26 29 13 13-0400)		
26 29 13 13-0402 NEMA 1 With Disconnect Switch (26 29 13 13-0401)		
26 29 13 13-0403 EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	1,696.39	249.26
For Electronic Overloads, Add	226.99	
26 29 13 13-0404 EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,045.62	390.14
For Electronic Overloads, Add	239.46	
26 29 13 13-0405 EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,898.59	455.18
For Electronic Overloads, Add	379.14	
26 29 13 13-0406 EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,450.32	563.54
For Electronic Overloads, Add	631.07	
26 29 13 13-0407 EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	8,212.78	899.50
For Electronic Overloads, Add	1,217.24	
26 29 13 13-0408 EA Combination Starter, Size 5, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	16,641.87	1,127.09
For Electronic Overloads, Add	2,732.98	
26 29 13 13-0409 NEMA 1 With Circuit Breaker (26 29 13 13-0401)		
26 29 13 13-0410 EA Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,169.01	249.26
For Electronic Overloads, Add	316.78	
26 29 13 13-0411 EA Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,518.24	390.14
For Electronic Overloads, Add	329.25	
26 29 13 13-0412 EA Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,358.07	455.18
For Electronic Overloads, Add	466.44	
26 29 13 13-0413 EA Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,699.76	563.54
For Electronic Overloads, Add	678.46	
26 29 13 13-0414 EA Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	9,643.75	899.50
For Electronic Overloads, Add	1,489.13	
26 29 13 13-0415 EA Combination Starter, Size 5, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	20,435.90	1,127.09
For Electronic Overloads, Add	3,453.84	
26 29 13 13-0416 Factory Modifications For NEMA 1 Enclosure (26 29 13 13-0401)		
26 29 13 13-0417 EA Start-Stop Push-button, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	215.22	
26 29 13 13-0418 EA H-O-A Select Switch, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	505.51	
26 29 13 13-0419 EA Pilot Light, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	348.89	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0420 NEMA 4 With Disconnect Switch <small>(26 29 13 13-0401)</small>		
26 29 13 13-0421 EA Combination Starter, Size 0, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,123.93	325.12
<i>For Electronic Overloads, Add</i>	466.44	
26 29 13 13-0422 EA Combination Starter, Size 1, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,423.71	455.18
<i>For Electronic Overloads, Add</i>	478.91	
26 29 13 13-0423 EA Combination Starter, Size 2, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,941.91	498.52
<i>For Electronic Overloads, Add</i>	748.31	
26 29 13 13-0424 EA Combination Starter, Size 3, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	7,912.65	606.89
<i>For Electronic Overloads, Add</i>	1,274.61	
26 29 13 13-0425 EA Combination Starter, Size 4, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	12,545.07	899.50
<i>For Electronic Overloads, Add</i>	2,040.38	
26 29 13 13-0426 EA Combination Starter, Size 5, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	27,695.77	1,127.09
<i>For Electronic Overloads, Add</i>	4,833.22	
26 29 13 13-0427 NEMA 4 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0428 EA Combination Starter, Size 0, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,596.55	325.12
<i>For Electronic Overloads, Add</i>	556.24	
26 29 13 13-0429 EA Combination Starter, Size 1, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,896.33	455.18
<i>For Electronic Overloads, Add</i>	568.71	
26 29 13 13-0430 EA Combination Starter, Size 2, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,401.39	498.52
<i>For Electronic Overloads, Add</i>	835.61	
26 29 13 13-0431 EA Combination Starter, Size 3, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	8,162.08	606.89
<i>For Electronic Overloads, Add</i>	1,322.00	
26 29 13 13-0432 EA Combination Starter, Size 4, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	13,976.04	899.50
<i>For Electronic Overloads, Add</i>	2,312.26	
26 29 13 13-0433 EA Combination Starter, Size 5, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	26,212.29	1,127.09
<i>For Electronic Overloads, Add</i>	4,551.36	
26 29 13 13-0434 Factory Modifications For NEMA 4 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0435 EA Start-Stop Push-button, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	215.25	
26 29 13 13-0436 EA H-O-A Select Switch, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	505.51	
26 29 13 13-0437 EA Pilot Light, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	348.89	
26 29 13 13-0438 NEMA 12 With Disconnect Switch <small>(26 29 13 13-0401)</small>		
26 29 13 13-0439 EA Combination Starter, Size 0, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	1,756.12	250.89
<i>For Electronic Overloads, Add</i>	238.33	
26 29 13 13-0440 EA Combination Starter, Size 1, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,108.64	392.64
<i>For Electronic Overloads, Add</i>	251.43	
26 29 13 13-0441 EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,998.36	451.60
<i>For Electronic Overloads, Add</i>	398.10	
26 29 13 13-0442 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,616.39	564.42
<i>For Electronic Overloads, Add</i>	662.62	
26 29 13 13-0443 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	8,533.10	903.19
<i>For Electronic Overloads, Add</i>	1,278.10	
26 29 13 13-0444 EA Combination Starter, Size 5, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	17,361.06	1,128.82
<i>For Electronic Overloads, Add</i>	2,869.62	
26 29 13 13-0445 NEMA 12 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0446 EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,320.46	250.89
<i>For Electronic Overloads, Add</i>	345.56	
26 29 13 13-0447 EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,675.65	392.64
<i>For Electronic Overloads, Add</i>	359.16	
26 29 13 13-0448 EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,581.08	451.60
<i>For Electronic Overloads, Add</i>	508.81	
26 29 13 13-0449 EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,024.12	564.42
<i>For Electronic Overloads, Add</i>	740.09	
26 29 13 13-0450 EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	10,355.69	903.19
<i>For Electronic Overloads, Add</i>	1,624.40	
26 29 13 13-0451 EA Combination Starter, Size 5, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	22,087.16	1,128.82
<i>For Electronic Overloads, Add</i>	3,767.58	
26 29 13 13-0452 Factory Modifications For NEMA 12 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0453 EA Start-Stop Push-button, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	213.46	
26 29 13 13-0454 EA H-O-A Select Switch, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	501.31	
26 29 13 13-0455 EA Pilot Light, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	345.98	
26 29 13 13-0456 NEMA 7 Or 9 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0457 EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,109.68	520.20
26 29 13 13-0458 EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,568.21	693.59
26 29 13 13-0459 EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	6,046.50	953.69
26 29 13 13-0460 EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	8,988.83	1,300.49
26 29 13 13-0461 EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	13,549.48	1,820.68
26 29 13 13-0462 Factory Modifications For NEMA 7 Or 9 Enclosure <small>(26 29 13 13-0401)</small>		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0463 EA Start-Stop Push-button, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,279.97	
26 29 13 13-0464 EA H-0-A Select Switch, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,279.97	
26 29 13 13-0465 EA Pilot Light, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,279.97	
26 29 13 13-0466 Combination Starters Reversing (26 29 13 13)		
26 29 13 13-0467 240-600 Volt, 3 Pole (26 29 13 13-0466)		
26 29 13 13-0468 NEMA 1 With Disconnect Switch (26 29 13 13-0467)		
26 29 13 13-0469 EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,092.62	325.12
26 29 13 13-0470 EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,422.10	455.18
26 29 13 13-0471 EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	3,542.52	498.52
26 29 13 13-0472 EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	5,411.56	606.89
26 29 13 13-0473 EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	10,618.27	899.50
26 29 13 13-0474 NEMA 1 With Circuit Breaker (26 29 13 13-0467)		
26 29 13 13-0475 EA Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,341.99	325.12
26 29 13 13-0476 EA Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,688.28	455.18
26 29 13 13-0477 EA Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,854.13	498.52
26 29 13 13-0478 EA Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,982.56	606.89
26 29 13 13-0479 EA Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	11,461.13	899.50
26 29 13 13-0480 NEMA 12 With Disconnect Switch (26 29 13 13-0467)		
26 29 13 13-0481 EA Combination Starter, Size 0, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,237.63	334.55
26 29 13 13-0482 EA Combination Starter, Size 1, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,576.81	451.60
26 29 13 13-0483 EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	3,801.14	501.77
26 29 13 13-0484 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	5,840.11	602.13
26 29 13 13-0485 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	11,515.83	903.19
26 29 13 13-0486 NEMA 12 With Circuit Breaker (26 29 13 13-0467)		
26 29 13 13-0487 EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,512.39	334.55
26 29 13 13-0488 EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,870.20	451.60
26 29 13 13-0489 EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,144.49	501.77
26 29 13 13-0490 EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,367.41	602.13
26 29 13 13-0491 EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	12,444.54	903.19
26 29 13 13-0492 NEMA 7 Or 9 With Circuit Breaker (26 29 13 13-0467)		
26 29 13 13-0493 EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,980.07	693.59
26 29 13 13-0494 EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,343.29	866.99
26 29 13 13-0495 EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	7,690.20	1,127.09
26 29 13 13-0496 EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	12,255.41	1,473.88
26 29 13 13-0497 EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	22,414.43	1,994.08
26 29 13 13-0498 Solid State Motor Controllers (26 29 13 13)		
26 29 13 13-0499 Adjustable Voltage Drives, DC Motors (26 29 13 13-0498)		
26 29 13 13-0500 EA 0.5-1.5 HP DC Solid State Motor Controller, Reversing With Dynamic Braking	1,667.22	195.07
26 29 13 13-0501 EA 0.5-2.0 HP DC Solid State Motor Controller, Non-Reversing With Dynamic Braking.....	2,016.16	195.07
26 29 13 13-0502 Removal And Reinstallation Of Motor Starters (26 29 13 13)		
Note: Includes storage and cleaning.		
26 29 13 13-0503 EA Removal And Reinstallation Of Up To 25 HP Motor Starter With Disconnect.....	774.10	
26 29 13 13-0504 Auxiliary Devices (26 29 13 13)		
26 29 13 13-0505 EA Normally Open, Auxiliary Contact	488.42	108.38
26 29 13 13-0506 EA Normally Closed, Auxiliary Contact.....	488.42	108.38
26 29 13 13-0507 EA Pilot Light Kit.....	515.84	108.38
26 29 23 Variable-Frequency Motor Controllers (26 29)		
26 29 23 00-0001 208/230 Volt, Ultra Low Harmonic (ULH) Variable Frequency Drives (26 29 23)		
Note: 1 or 3 phase. Wall mounted. ABB ACH580 Series. Includes full voltage bypass with main input circuit breaker. NEMA 1 enclosure.		
26 29 23 00-0002 EA 3/4 HP, 208/230 Volt Variable Frequency Drive	2,231.44	407.72
For 6-Pulse Drive Package, Deduct	-778.75	
26 29 23 00-0003 EA 1 HP, 208/230 Volt Variable Frequency Drive	2,517.16	445.62
For 6-Pulse Drive Package, Deduct	-896.53	
26 29 23 00-0004 EA 1-1/2 HP, 208/230 Volt Variable Frequency Drive	2,932.51	489.99
For 6-Pulse Drive Package, Deduct	-1,073.90	
26 29 23 00-0005 EA 2 HP, 208/230 Volt Variable Frequency Drive	3,104.87	470.98
For 6-Pulse Drive Package, Deduct	-1,189.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 23 00-0006 EA 3 HP, 208/230 Volt Variable Frequency Drive <i>For 6-Pulse Drive Package, Deduct</i>	3,325.95 -1,264.42	513.51
26 29 23 00-0007 EA 5 HP, 208/230 Volt Variable Frequency Drive <i>For 6-Pulse Drive Package, Deduct</i>	3,609.38 -1,420.31	513.51
26 29 23 00-0008 EA 7.5 HP, 208/230 Volt Variable Frequency Drive <i>For 6-Pulse Drive Package, Deduct</i>	4,312.50 -1,697.44	613.12
26 29 23 00-0009 EA 10 HP, 208/230 Volt Variable Frequency Drive <i>For 6-Pulse Drive Package, Deduct</i>	4,721.91 -1,922.62	613.12
26 29 23 00-0010 EA 15 HP, 208/230 Volt Variable Frequency Drive <i>For 6-Pulse Drive Package, Deduct</i>	6,192.31 -2,390.28	923.17
26 29 23 00-0011 EA 20 HP, 208/230 Volt Variable Frequency Drive <i>For 6-Pulse Drive Package, Deduct</i>	7,326.05 -3,013.84	923.17
26 29 23 00-0012 EA 25 HP, 208/230 Volt Variable Frequency Drive <i>For 6-Pulse Drive Package, Deduct</i>	8,908.55 -3,550.78	1,226.35
26 29 23 00-0013 EA 30 HP, 208/230 Volt Variable Frequency Drive <i>For 6-Pulse Drive Package, Deduct</i>	10,325.71 -4,330.22	1,226.35
26 29 23 00-0014 EA 40 HP, 208/230 Volt Variable Frequency Drive <i>For 6-Pulse Drive Package, Deduct</i>	11,553.92 -5,005.73	1,226.35
26 29 23 00-0015 EA 50 HP, 208/230 Volt Variable Frequency Drive <i>For 6-Pulse Drive Package, Deduct</i>	15,256.51 -6,685.86	1,550.26
26 29 23 00-0016 EA 60 HP, 208/230 Volt Variable Frequency Drive <i>For 6-Pulse Drive Package, Deduct</i>	18,406.34 -8,106.17	1,833.92
26 29 23 00-0017 EA 75 HP, 208/230 Volt Variable Frequency Drive <i>For 6-Pulse Drive Package, Deduct</i>	20,925.74 -9,491.84	1,833.92
26 29 23 00-0018 460/480 Volt, Ultra Low Harmonic (ULH) Variable Frequency Drives <small>(26 29 23)</small> Note: 3 Phase. ABB ACH580 Series. Includes full voltage bypass with main circuit breaker. NEMA 1 enclosure.		
26 29 23 00-0019 EA 3 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	5,372.25 -2,147.79	733.59
26 29 23 00-0020 EA 5 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	5,561.20 -2,251.71	733.59
26 29 23 00-0021 EA 7.5 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	6,062.53 -2,372.96	874.08
26 29 23 00-0022 EA 10 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	6,094.02 -2,390.28	874.08
26 29 23 00-0023 EA 15 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	8,129.99 -3,013.84	1,325.14
26 29 23 00-0024 EA 20 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	8,570.88 -3,256.32	1,325.14
26 29 23 00-0025 EA 25 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	10,267.13 -3,723.99	1,748.16
26 29 23 00-0026 EA 30 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	11,841.75 -4,590.03	1,748.16
26 29 23 00-0027 EA 40 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	13,479.36 -5,490.72	1,748.16
26 29 23 00-0028 EA 50 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	17,667.92 -7,274.77	2,220.59
26 29 23 00-0029 EA 60 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	23,658.30 -10,115.39	2,633.34
26 29 23 00-0030 EA 75 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	25,169.94 -10,946.79	2,633.34
26 29 23 00-0031 EA 100 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	29,173.06 -12,817.45	2,934.36
26 29 23 00-0032 EA 125 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	30,810.67 -13,718.13	2,934.36
26 29 23 00-0033 EA 150 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	34,211.86 -15,588.79	2,934.36
26 29 23 00-0034 EA 200 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	39,457.13 -17,805.86	3,541.42
26 29 23 00-0035 EA 250 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	49,578.74 -23,198.88	3,699.48
26 29 23 00-0036 EA 300 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	58,172.61 -27,325.41	4,245.02
26 29 23 00-0037 EA 350 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	67,001.60 -31,786.58	4,603.85

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 29 Low-Voltage Controllers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29	23 00-0038	EA	400 HP, 480 Volt Variable Frequency Drive Note: Floor mounted.	77,755.75	4,971.21
			<i>For 6-Pulse Drive Package, Deduct</i>	-37,297.39	
26 29	23 00-0039	EA	450 HP, 480 Volt Variable Frequency Drive Note: Floor mounted.	83,792.44	5,390.75
			<i>For 6-Pulse Drive Package, Deduct</i>	-40,156.02	

26 30 Facility Electrical Power Generating and Storing Equipment

(26)

26 31 Photovoltaic Collectors (26 30)

26 31 00 00-0002 Rigid Photovoltaic Modules (26 31)

26 31 00 00-0003 Sanyo Rigid Photovoltaic Modules (26 31 00 00-0002)

26 31 00 00-0004	EA	205 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.3% Module Efficiency (Sanyo HIP-205NHKA6).....	2,019.82	102.95
		<i>For >50, Deduct</i>	-181.39	
26 31 00 00-0005	EA	210 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.7% Module Efficiency (Sanyo HIP-210NHKA6).....	2,118.15	102.95
		<i>For >50, Deduct</i>	-191.22	
26 31 00 00-0006	EA	215 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 17.1% Module Efficiency (Sanyo HIP-215HNKA6).....	1,981.25	102.95
		<i>For >50, Deduct</i>	-177.53	

26 31 00 00-0007 Sharp Rigid Photovoltaic Modules (26 31 00 00-0002)

26 31 00 00-0008	EA	224 Watt Polycrystalline Photovoltaic Module, 64.6" x 39.1", 13.74% Module Efficiency (Sharp ND-224UC1).....	1,577.07	102.95
		<i>For >50, Deduct</i>	-137.12	
26 31 00 00-0009	EA	230 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.1% Module Efficiency (Sharp NU-U230F3).....	1,796.55	102.95
		<i>For >50, Deduct</i>	-159.06	
26 31 00 00-0010	EA	235 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.4% Module Efficiency (Sharp NU-U235F1).....	1,831.31	102.95
		<i>For >50, Deduct</i>	-162.54	
26 31 00 00-0011	EA	240 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.7% Module Efficiency (Sharp NU-U240F1).....	1,722.66	102.95
		<i>For >50, Deduct</i>	-151.68	

26 31 00 00-0012 BP Solar Rigid Photovoltaic Modules (26 31 00 00-0002)

Note: Approved for applications in NEC Class 1, Division 2, Groups C and D hazardous locations.

26 31 00 00-0013	EA	50 Watt Polycrystalline Photovoltaic Module, 33" x 21.1" (BP SX350J).....	768.61	102.95
		<i>For >50, Deduct</i>	-56.27	
26 31 00 00-0014	EA	75 Watt Polycrystalline Photovoltaic Module, 47.6" x 21.14" (BP SX375J).....	953.31	102.95
		<i>For >50, Deduct</i>	-74.74	
26 31 00 00-0015	EA	80 Watt Polycrystalline Photovoltaic Module, 47.6" x 20.9" (BP SX380J).....	1,027.20	102.95
		<i>For >50, Deduct</i>	-82.13	

26 31 00 00-0016 Photovoltaic Inverters (26 31)

26 31 00 00-0017 Fronius Photovoltaic Inverters (26 31 00 00-0016)

26 31 00 00-0018	EA	3 KW Photovoltaic Inverter (Fronius IG Plus 3.0-1).....	4,836.75	108.38
26 31 00 00-0019	EA	5 KW Photovoltaic Inverter (Fronius IG Plus 5.0-1).....	6,385.99	108.38
26 31 00 00-0020	EA	6 KW Photovoltaic Inverter (Fronius IG Plus 6.0-1).....	6,741.93	108.38
26 31 00 00-0021	EA	7.5 KW Photovoltaic Inverter (Fronius IG Plus 7.5-1).....	7,540.50	108.38
26 31 00 00-0022	EA	10 KW Photovoltaic Inverter (Fronius IG Plus 10.0-1).....	11,951.42	108.38
26 31 00 00-0023	EA	12 KW Photovoltaic Inverter (Fronius IG Plus 12.0-3-1).....	13,895.79	108.38
26 31 00 00-0024	EA	11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3 Delta).....	11,293.80	216.75
26 31 00 00-0025	EA	11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3).....	14,303.64	216.75
26 31 00 00-0026	EA	Inverter Display Stand (Fronius 4,045,894).....	416.29	54.18

26 31 00 00-0027 SMA Photovoltaic Inverters (26 31 00 00-0016)

26 31 00 00-0028	EA	4 KW AC Photovoltaic Inverter (SMA Sunny Boy 4000TL-US-22).....	3,591.47	108.38
26 31 00 00-0029	EA	5 KW AC Photovoltaic Inverter (SMA Sunny Boy 5000TL-US-22).....	4,314.82	108.38
26 31 00 00-0030	EA	6 KW AC Photovoltaic Inverter (SMA Sunny Boy 6000TL-US-22).....	4,988.93	108.38
26 31 00 00-0031	EA	7 KW AC Photovoltaic Inverter (SMA Sunny Boy 7000TL-US-22).....	5,503.57	108.38
26 31 00 00-0032	EA	8 KW AC Photovoltaic Inverter (SMA Sunny Boy 8000TL-US-12).....	5,330.21	108.38

26 31 00 00-0033 PVPowered Photovoltaic Inverters (26 31 00 00-0016)

26 31 00 00-0034	EA	120 Volt, 1.1 KW Photovoltaic Inverter (PVPowered PVP1100).....	4,443.52	108.38
26 31 00 00-0035	EA	240 Volt, 2 KW Photovoltaic Inverter (PVPowered PVP2000).....	4,648.17	108.38
26 31 00 00-0036	EA	240 Volt, 2.5 KW Photovoltaic Inverter (PVPowered PVP2500).....	5,137.60	108.38
26 31 00 00-0037	EA	240 Volt, 3.5 KW Photovoltaic Inverter (PVPowered PVP3500).....	6,090.52	135.46
26 31 00 00-0038	EA	208 Volt, 4.6 KW Photovoltaic Inverter (PVPowered PVP4600).....	7,426.07	162.56
26 31 00 00-0039	EA	240 Volt, 4.8 KW Photovoltaic Inverter (PVPowered PVP4800).....	7,488.37	162.56
26 31 00 00-0040	EA	240 Volt, 5.2 KW Photovoltaic Inverter (PVPowered PVP5200).....	7,903.02	162.56
26 31 00 00-0041	EA	208 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW).....	94,407.20	866.99
26 31 00 00-0042	EA	480 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW).....	94,532.35	866.99
26 31 00 00-0043	EA	208 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW).....	102,305.01	866.99
26 31 00 00-0044	EA	480 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW).....	94,831.01	866.99



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0045	Solectria Photovoltaic Inverters <small>(26 31 00 00-0016)</small>	
26 31 00 00-0046 EA 208 Or 480 Volt, 10 KW Photovoltaic Inverter (Solectria PVI)	14,847.42	216.75
26 31 00 00-0047 EA 208 Or 480 Volt, 13 KW Photovoltaic Inverter (Solectria PVI)	14,847.42	216.75
26 31 00 00-0048 EA 208 Volt, 15 KW, Photovoltaic Inverter (Solectria PVI)	15,282.74	216.75
26 31 00 00-0049 EA 480 Volt, 15 KW Photovoltaic Inverter (Solectria PVI)	15,282.74	216.75
26 31 00 00-0050 EA 208 Volt, 50 KW Photovoltaic Inverter (Solectria PVI)	46,525.39	650.25
26 31 00 00-0051 EA 480 Volt, 50 KW Photovoltaic Inverter (Solectria PVI)	44,348.79	650.25
26 31 00 00-0052 EA 208 Volt, 60 KW Photovoltaic Inverter (Solectria PVI)	50,878.59	650.25
26 31 00 00-0053 EA 480 Volt, 60 KW Photovoltaic Inverter (Solectria PVI)	49,669.37	650.25
26 31 00 00-0054 EA 208 Volt, 75 KW Photovoltaic Inverter (Solectria PVI)	54,022.57	650.25
26 31 00 00-0055 EA 480 Volt, 75 KW Photovoltaic Inverter (Solectria PVI)	51,604.13	650.25
26 31 00 00-0056 EA 208 Volt, 85 KW Photovoltaic Inverter (Solectria PVI)	56,874.51	866.99
26 31 00 00-0057 EA 480 Volt, 85 KW Photovoltaic Inverter (Solectria PVI)	54,214.22	866.99
26 31 00 00-0058 EA 208 Volt, 100 KW Photovoltaic Inverter (Solectria PVI)	59,051.11	866.99
26 31 00 00-0059 EA 480 Volt, 100 KW Photovoltaic Inverter (Solectria PVI)	55,907.14	866.99
26 31 00 00-0060	Xantrex Photovoltaic Inverters <small>(26 31 00 00-0016)</small>	
26 31 00 00-0061 EA 0.6 KW Photovoltaic Inverter (Xantrex 806-1206)	617.53	27.10
26 31 00 00-0062 EA 1 KW Photovoltaic Inverter (Xantrex 806-1210)	673.48	27.10
26 31 00 00-0063 EA 2 KW Photovoltaic Inverter (Xantrex 806-1220)	1,084.70	27.10
26 31 00 00-0064	Photovoltaic DC-DC Converters <small>(26 31)</small>	
26 31 00 00-0065 EA 15 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-20)	359.42	40.64
Note: Hazardous locations.		
26 31 00 00-0066 EA 20 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-23)	237.74	40.64
26 31 00 00-0067 EA 60 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-60)	672.34	40.64
26 31 00 00-0068	Photovoltaic Combiner Boxes <small>(26 31)</small>	
26 31 00 00-0069	Midnight Solar Photovoltaic Combiner Boxes <small>(26 31 00 00-0068)</small>	
26 31 00 00-0070 EA 3 - 150 Volt DC Breaker Or 3 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV3)	421.94	108.38
26 31 00 00-0071 EA 6 - 150 Volt DC Breaker Or 4 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV6)	410.67	108.38
26 31 00 00-0072 EA 12 - 150 Volt DC Breaker Or 10 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12)	654.86	162.56
26 31 00 00-0073 EA 6 - 300 Volt DC Breaker, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12-250)	658.81	162.56
26 31 00 00-0074 EA 16, 600 Volt DC Breakers, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV16)	1,024.35	162.56
26 31 00 00-0075	SMA Photovoltaic Combiner Boxes <small>(26 31 00 00-0068)</small>	
26 31 00 00-0076 EA 6 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SBCB-6)	953.81	108.38
26 31 00 00-0077 EA 12 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-12)	1,145.86	108.38
26 31 00 00-0078 EA 28 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-28)	2,218.31	216.75
26 31 00 00-0079 EA 52 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-52)	5,142.25	216.75
26 31 00 00-0080 EA 4 Input NEMA 3R, Steel Combination DC Disconnect And Photovoltaic Combiner Box (SMA Combi-Switch)	849.89	108.38
26 31 00 00-0081	Photovoltaic Charge Controller <small>(26 31)</small>	
26 31 00 00-0082 EA 35 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-35)	285.54	40.64
26 31 00 00-0083 EA 40 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-40)	383.33	40.64
26 31 00 00-0084 EA 60 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-60)	448.52	40.64
26 31 00 00-0085 EA Remote Digital Meter For Xantrex C-35, 40 And 60	342.04	40.64
26 31 00 00-0086 EA MPPT Charge Controller (Xantrex XW SCC)	1,199.12	54.18
26 31 00 00-0087	Photovoltaic Batteries <small>(26 31)</small>	
26 31 00 00-0088	Concorde Photovoltaic Batteries <small>(26 31 00 00-0087)</small>	
26 31 00 00-0089 EA 34 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-340T)	267.04	16.26
26 31 00 00-0090 EA 45 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-420T)	336.51	21.67
26 31 00 00-0091 EA 49 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-490T)	364.85	21.67
26 31 00 00-0092 EA 56 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-560T)	416.81	32.51
26 31 00 00-0093 EA 69 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-690T)	475.44	32.51
26 31 00 00-0094 EA 89 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-890T)	564.46	37.93
26 31 00 00-0095 EA 104 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1040T)	647.22	43.35
26 31 00 00-0096 EA 108 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1080T)	639.79	43.35
26 31 00 00-0097 EA 210 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2120T)	1,177.87	51.48
26 31 00 00-0098 EA 255 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2580T)	1,363.10	54.18
26 31 00 00-0099	Deka Photovoltaic Batteries <small>(26 31 00 00-0087)</small>	
26 31 00 00-0100 EA 31 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8GU1)	278.10	27.15
26 31 00 00-0101 EA 50 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G22NF)	384.58	27.15
26 31 00 00-0102 EA 74 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G24)	569.28	27.15

26 Electrical
26 30 Facility Electrical Power Generating and Storing Equipment
26 31 Photovoltaic Collectors



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0103	EA		86 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G27).....	651.86	27.15
26 31 00 00-0104	EA		98 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G31).....	654.03	27.15
26 31 00 00-0105	EA		183 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G4D).....	1,271.16	27.15
26 31 00 00-0106	EA		225 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G8D).....	1,471.08	27.15
26 31 00 00-0107 Battery Enclosures <small>(26 31 00 00-0087)</small>					
26 31 00 00-0108	EA		14" x 12" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge 55-2501-010).....	314.94	27.10
26 31 00 00-0109	EA		22" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS1GC).....	1,560.17	27.15
26 31 00 00-0110	EA		37" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS2GCL).....	1,466.73	27.15
26 31 00 00-0111	EA		37" x 16" x 14.5" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS4GC).....	1,955.66	27.15
26 31 00 00-0112	EA		15" x 17.1" x 8.4" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSLCF1).....	869.16	27.15
26 31 00 00-0113	EA		31" x 36" x 14" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSBR827BP).....	2,049.09	27.15
26 31 00 00-0114 Photovoltaic System Monitoring <small>(26 31)</small>					
26 31 00 00-0115	EA		Solar Inverter Monitor (Xantrex 864-0203).....	665.10	54.18
26 31 00 00-0116	EA		Photovoltaic System Monitoring, Remote Diagnosis, Data Storage Communication Hub (SMA Sunny WebBox).....	1,388.95	27.10
26 31 00 00-0117	EA		Sun Radiation And Temperature Monitor (SMA Sunny SensorBox).....	1,159.75	27.10
26 31 00 00-0118	EA		PT100 Ambient Temperature Sensor For Sunny SensorBox (SMA).....	210.24	27.10
26 31 00 00-0119	EA		Wind Sensor Accessory For Sunny SensorBox (SMA).....	521.86	54.18
26 31 00 00-0120	EA		Sunny Boy Control with RS485 (SMA).....	1,366.13	27.10
26 31 00 00-0121	EA		RS 485 Module (SMA).....	307.10	27.10
26 31 00 00-0122	EA		RS 232 Module (SMA).....	314.94	27.10
26 31 00 00-0123	EA		Wireless Monitor with Bluetooth (SMA Sunny Beam).....	590.15	
26 31 00 00-0124	EA		Bluetooth Piggy-Back Computer Card (SMA).....	319.17	27.10
26 31 00 00-0125	EA		RS485-N Communication Computer Card (SMA).....	316.98	27.10
26 31 00 00-0126	EA		Bluetooth Repeater (SMA).....	602.78	27.10
26 31 00 00-0127	EA		Sunny Boy PC Service Cable (SMA).....	287.21	8.13
26 31 00 00-0128	EA		Integrated Revenue Grade Meter, Option (PVPowered).....	5,573.74	
26 31 00 00-0129	EA		Data Monitoring Module (PVPowered PVM1010).....	601.50	27.10
26 31 00 00-0130	EA		Wireless IG Personal Display (Fronius 4,240,108).....	599.69	
26 31 00 00-0131	EA		DatCom Power Supply (Fronius 43,0001,2311).....	196.35	
26 31 00 00-0132	EA		Wireless Card For IG Personal Display (Fronius 4,240,008,Z).....	356.18	27.10
26 31 00 00-0133	EA		Retrofit Solar Inverter Interface And Power Supply Option Communication Card (Fronius 4,240,001,Z).....	300.55	27.10
26 31 00 00-0134	EA		Datalogger Pro Box (Fronius 4,240,102).....	1,195.62	27.10
26 31 00 00-0135	EA		Datalogger Easy Box (Fronius 4,240,103).....	775.91	27.10
26 31 00 00-0136	EA		Datalogger Interface Box (Fronius 4,240,105).....	1,350.50	27.10
26 31 00 00-0137	EA		Datalogger Web (Fronius 4,240,122).....	2,324.42	27.10
26 31 00 00-0138	EA		Interface Box (Fronius 4,240,109).....	620.69	27.10
26 31 00 00-0139	EA		Interface Card (Fronius 4,240,009,Z).....	441.38	27.10
26 31 00 00-0140	EA		Interface Card Easy (Fronius 4,240,013,Z).....	289.26	27.10
26 31 00 00-0141	EA		Sensor Box (Fronius 4,240,104).....	1,248.94	27.10
26 31 00 00-0142	EA		Ambient Temperature Sensor (Fronius 43,0001,1188).....	133.83	27.10
26 31 00 00-0143	EA		Irradiance Sensor (Fronius 43,0001,1188).....	430.33	27.10
26 31 00 00-0144	EA		Module Temperature Sensor (Fronius 43,0001,1190).....	479.87	27.10
26 31 00 00-0145	EA		Wind Speed Sensor (Fronius 42,0411,0027).....	246.21	54.18
26 31 00 00-0146 Photovoltaic System Accessories <small>(26 31)</small>					
26 31 00 00-0147	EA		Four Inverter Bypass Switch (OutBack AC-IOB-100Q).....	915.06	54.18
26 31 00 00-0148	EA		Line Communication Filter (Enphase LCF).....	1,996.44	108.38
26 31 00 00-0149	EA		15 Meter RS 485 Communication Cable (SMA).....	153.16	8.13
26 31 00 00-0150	EA		15 Meter RS 232 Communication Cable (SMA).....	231.39	8.13
26 31 00 00-0151	EA		24" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	34.83	2.69
26 31 00 00-0152	EA		36" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	37.45	2.69
26 31 00 00-0153	EA		48" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	38.93	2.69
26 31 00 00-0154	EA		72" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	43.04	2.69
26 31 00 00-0155	EA		120" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	49.20	2.69
26 31 00 00-0156	EA		240" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	77.86	5.36
26 31 00 00-0157	EA		360" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	96.98	5.36
26 31 00 00-0158	EA		420" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	127.05	8.05
26 31 00 00-0159	EA		36" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	44.07	2.69
26 31 00 00-0160	EA		120" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	61.52	2.69
26 31 00 00-0161	EA		240" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	90.19	5.36
26 31 00 00-0162	EA		360" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	120.99	5.36
26 31 00 00-0163	EA		600" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	195.76	10.73
26 31 00 00-0164	EA		1200" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	204.46	10.73
26 31 00 00-0165	EA		Lighting Kit, 9 Watt Fluorescent, 12 Volt, 4.5 Ampere Hours Battery.....	3,644.03	292.61
			Note: Tamper proof enclosure.		
26 31 00 00-0166 Photovoltaic Mounting Systems <small>(26 31)</small>					
26 31 00 00-0167	LF		Anodized Aluminum Photovoltaic Module Mounting Rail (UNIRAC SolarMount Standard).....	12.17	2.71
26 31 00 00-0168	EA		Splice Bar For Photovoltaic Module Mounting Rail (UNIRAC 310229).....	33.91	13.54
26 31 00 00-0169	EA		Splice Plate For Photovoltaic Module Mounting Rail (UNIRAC 310216).....	43.59	13.54
26 31 00 00-0170	EA		8" x 3/8" Hanger Bolt (UNIRAC 310046).....	23.31	5.42
			Note: Supports mounting rail above tile or metal roof.		
26 31 00 00-0171	EA		Mounting Rail Grounding Clip (UNIRAC 980006).....	10.83	4.06
			Note: One grounding clip for every two top mounting clamps (end clamps + mid clamps) in your installation. Only one of the two rails in each row requires grounding clips.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0172 EA Mounting Rail Grounding Lugs (UNIRAC 980012) Note: Two grounding lugs for each rail splice and one additional lug for each rail.	23.76	5.42
26 31 00 00-0173 EA Anodized Aluminum Photovoltaic Module Mounting End Clamp (UNIRAC 320002) Note: Four for each row of modules you plan to mount.	6.31	1.81
26 31 00 00-0174 EA Anodized Aluminum Photovoltaic Module Mounting Mid Clamp (UNIRAC 320008) Note: For each row, take one less than the number of modules in the row and multiply that figure by 2.	6.63	1.81
26 31 00 00-0175 EA Photovoltaic Module Mount L-Feet (UNIRAC 310065)	16.26	5.42
26 31 00 00-0176 EA 12" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310121) Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.	97.68	27.10
26 31 00 00-0177 EA 30" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310122) Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.	108.64	27.10
26 31 00 00-0178 EA 44" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310123) Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.	117.46	27.10
26 31 00 00-0179 EA 12" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310107) Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	143.34	40.64
26 31 00 00-0180 EA 44" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310108) Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	176.20	40.64
26 31 00 00-0181 EA 72" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310109) Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	206.01	40.64
26 31 00 00-0182 EA 18" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310111) Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	225.20	54.18
26 31 00 00-0183 EA 64" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310112) Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	303.69	54.18
26 31 00 00-0184 EA 104" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310110) Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	426.01	81.28
26 31 00 00-0185 EA Ballasted Photovoltaic Module Frame (UNIRAC 310351) Note: Excludes ballast.	207.84	
26 31 00 00-0186 EA Ballasted Photovoltaic Module Frame With Module Mount (UNIRAC 310355) Note: Excludes ballast.	388.57	
26 31 00 00-0187 EA 3" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310051)	75.81	27.10
26 31 00 00-0188 EA 4" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310052)	76.81	27.10
26 31 00 00-0189 EA 6" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310053)	77.74	27.10
26 31 00 00-0190 EA 7" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310054)	80.04	27.10
26 31 00 00-0191 EA 3" High Aluminum Photovoltaic Module Standoff (UNIRAC 310553)	69.70	27.10
26 31 00 00-0192 EA 4" High Aluminum Photovoltaic Module Standoff (UNIRAC 310554)	70.86	27.10
26 31 00 00-0193 EA 6" High Aluminum Photovoltaic Module Standoff (UNIRAC 310555)	74.26	27.10
26 31 00 00-0194 EA 7" High Aluminum Photovoltaic Module Standoff (UNIRAC 310556)	73.30	27.10
26 31 00 00-0195 EA 3" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310390)	147.60	40.64
26 31 00 00-0196 EA 4" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310391)	148.30	40.64
26 31 00 00-0197 EA 7" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310394)	150.37	40.64
26 31 00 00-0198 EA Photovoltaic Module Rapidfoot Standoff Assembly (UNIRAC 310370)	148.21	40.64
26 31 00 00-0199 EA Photovoltaic Module Standoff Flashing (UNIRAC 990103)	29.96	5.42
26 31 00 00-0200 EA Photovoltaic Module Standoff Ethylene Propylene Diene Monomer (EPDM) Patch (UNIRAC 990161)	19.38	5.42
26 31 00 00-0201 EA 1/4" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004030M-0100)	37.19	8.13
26 31 00 00-0202 EA 3/8" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004031M-0100)	38.77	8.13
26 31 00 00-0203 EA Photovoltaic Module Standing Seam Metal Roof Mounting Clamp (UNIRAC 004032M-0100) Note: Mid or end clamp.	10.91	1.81
26 31 00 00-0204 EA Photovoltaic Module Tile Roof Mounting Hook (UNIRAC 905011C-0024)	50.29	5.42
26 31 00 00-0205 EA Photovoltaic Module Wire Clip (UNIRAC 908002S-0100)	2.48	

26 32 Packaged Generator Assemblies (26.30)

26 32 13 Engine Generators (26.32)

26 32 13 13 Diesel-Engine-Driven Generator Sets (26.32 13)

See CSI section 01 22 23 00-0736 for fuel reimbursement for commissioning.

26 32 13 13-0001 Diesel Generator Sets (Cummins) (26.32 13 13)

Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel, fuel tank, enclosure, active diesel particulate filter, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0715 for loadbank rental, 26 36 23 00-0000 for automatic transfer switch.

26 32 13 13-0002	EA	25 KW Diesel Generator Set, 3 Phase (Cummins DSKCA)..... <i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	30,390.24 4,610.18 10,848.65 14,464.87 11,738.33 17,026.92 22,702.56	956.43
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26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 32 Packaged Generator Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0003 EA 35 KW Diesel Generator Set, 3 Phase (Cummins DSFAA)	32,230.46	1,177.60
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,610.18	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	10,848.65	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	14,464.87	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	11,738.33	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	17,026.92	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	22,702.56	
26 32 13 13-0004 EA 40 KW Diesel Generator Set, 3 Phase (Cummins DSFAB)	33,237.12	1,291.18
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,610.18	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	10,848.65	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	14,464.87	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	11,738.33	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	17,026.92	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	22,702.56	
26 32 13 13-0005 EA 50 KW Diesel Generator Set, 3 Phase (Cummins DSFAC)	38,976.75	1,482.47
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,610.18	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	10,848.65	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	14,464.87	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	11,738.33	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	17,026.92	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	22,702.56	
26 32 13 13-0006 EA 60 KW Diesel Generator Set, 3 Phase (Cummins DSFAD)	41,990.46	1,703.64
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,610.18	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	10,848.65	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	14,464.87	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	11,738.33	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	17,026.92	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	22,702.56	
26 32 13 13-0007 EA 80 KW Diesel Generator Set, 3 Phase (Cummins DSFAE)	49,313.43	1,996.55
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,610.18	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	10,848.65	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	14,464.87	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	11,738.33	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	17,026.92	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	22,702.56	
26 32 13 13-0008 EA 100 KW Diesel Generator Set, 3 Phase (Cummins DSGAA)	53,002.62	2,319.35
For Weather Resistant Steel Diesel Generator Enclosure, Add	6,992.67	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	16,586.65	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	22,115.53	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	15,060.49	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	18,105.81	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	24,141.08	
26 32 13 13-0009 EA 125 KW Diesel Generator Set, 3 Phase (Cummins DSGAB)	54,253.76	2,749.74
For Weather Resistant Steel Diesel Generator Enclosure, Add	6,992.67	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	16,586.65	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	22,115.53	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	15,060.49	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	18,105.81	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	24,141.08	
26 32 13 13-0010 EA 150 KW Diesel Generator Set, 3 Phase (Cummins DSGAC)	59,968.22	3,030.69
For Weather Resistant Steel Diesel Generator Enclosure, Add	6,992.67	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	16,586.65	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	22,115.53	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	15,060.49	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	18,105.81	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	24,141.08	
26 32 13 13-0011 EA 175 KW Diesel Generator Set, 3 Phase (Cummins DSHAB)	62,997.31	3,383.37
For Weather Resistant Steel Diesel Generator Enclosure, Add	6,992.67	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	16,586.65	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	22,115.53	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	15,060.49	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	18,105.81	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	24,141.08	
26 32 13 13-0012 EA 200 KW Diesel Generator Set, 3 Phase (Cummins DSHAC)	66,937.49	3,706.17
For Weather Resistant Steel Diesel Generator Enclosure, Add	6,992.67	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	16,586.65	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	22,115.53	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	15,060.49	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	18,105.81	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	24,141.08	
26 32 13 13-0013 EA 230 KW Diesel Generator Set, 3 Phase (Cummins DSHAD)	72,131.20	3,915.40
For Weather Resistant Steel Diesel Generator Enclosure, Add	6,992.67	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	16,586.65	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	22,115.53	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	15,060.49	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	18,105.81	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	24,141.08	
26 32 13 13-0014 EA 250 KW Diesel Generator Set, 3 Phase (Cummins DQDAA)	75,167.49	4,076.79
For Weather Resistant Steel Diesel Generator Enclosure, Add	45,349.20	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	50,214.73	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	66,952.97	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	55,001.77	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	61,381.07	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	81,841.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0015 EA 275 KW Diesel Generator Set, 3 Phase (Cummins DQHAA)	81,772.03	4,297.97
For Weather Resistant Steel Diesel Generator Enclosure, Add	45,349.20	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	50,214.73	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	66,952.97	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	55,001.77	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	61,381.07	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	81,841.43	
26 32 13 13-0016 EA 300 KW Diesel Generator Set, 3 Phase (Cummins DQHAB)	83,562.97	4,489.25
For Weather Resistant Steel Diesel Generator Enclosure, Add	45,349.20	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	50,214.73	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	66,952.97	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	55,001.77	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	61,381.07	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	81,841.43	
26 32 13 13-0017 EA 350 KW Diesel Generator Set, 3 Phase (Cummins DFEG)	94,147.98	5,021.27
For Weather Resistant Steel Diesel Generator Enclosure, Add	45,349.20	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	50,214.73	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	66,952.97	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	55,001.77	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	61,381.07	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	81,841.43	
26 32 13 13-0018 EA 400 KW Diesel Generator Set, 3 Phase (Cummins DFEH)	101,334.34	5,499.48
For Weather Resistant Steel Diesel Generator Enclosure, Add	45,349.20	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	50,214.73	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	66,952.97	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	55,001.77	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	61,381.07	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	81,841.43	
26 32 13 13-0019 EA 450 KW Diesel Generator Set, 3 Phase (Cummins DFEJ)	114,337.84	5,923.90
For Weather Resistant Steel Diesel Generator Enclosure, Add	45,349.20	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	50,214.73	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	66,952.97	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	55,001.77	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	61,381.07	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	81,841.43	
26 32 13 13-0020 EA 500 KW Diesel Generator Set, 3 Phase (Cummins DF EK)	120,237.40	6,312.45
For Weather Resistant Steel Diesel Generator Enclosure, Add	45,349.20	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	50,214.73	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	66,952.97	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	55,001.77	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	61,381.07	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	81,841.43	
26 32 13 13-0021 EA 600 KW Diesel Generator Set, 3 Phase (Cummins DQCA)	174,450.25	6,952.06
For Weather Resistant Steel Diesel Generator Enclosure, Add	92,640.09	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	111,560.32	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	148,747.09	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	108,962.80	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	129,966.09	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	173,288.12	
26 32 13 13-0022 EA 750 KW Diesel Generator Set, 3 Phase (Cummins DQCB)	199,735.63	7,645.47
For Weather Resistant Steel Diesel Generator Enclosure, Add	92,640.09	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	111,560.32	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	148,747.09	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	108,962.80	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	129,966.09	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	173,288.12	
26 32 13 13-0023 EA 800 KW Diesel Generator Set, 3 Phase (Cummins DQCC)	208,553.45	7,812.86
For Weather Resistant Steel Diesel Generator Enclosure, Add	92,640.09	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	111,560.32	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	148,747.09	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	108,962.80	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	129,966.09	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	173,288.12	
26 32 13 13-0024 EA 900 KW Diesel Generator Set, 3 Phase (Cummins DQFAC)	254,276.77	8,422.58
For Weather Resistant Steel Diesel Generator Enclosure, Add	92,640.09	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	111,560.32	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	148,747.09	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	108,962.80	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	129,966.09	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	173,288.12	
26 32 13 13-0025 EA 1,000 KW Diesel Generator Set, 3 Phase (Cummins DQFAD)	284,087.63	8,966.55
For Weather Resistant Steel Diesel Generator Enclosure, Add	92,640.09	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	111,560.32	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	148,747.09	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	108,962.80	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	129,966.09	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	173,288.12	

26 32 13 19 Natural Gas-Engine-Driven Generator Sets (26 32 13)

26 Electrical
26 30 Facility Electrical Power Generating and Storing Equipment
26 32 Packaged Generator Assemblies



MINOR TOTAL DIRECT DEMOLITION
 CSI UOM DESCRIPTION UNIT COST UNIT COST

MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0001	Natural Gas Or Propane Generator Sets (Cummins) <small>(26 32 13 19)</small> Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel, fuel tank, enclosure, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0715 for loadbank rental, 01 22 23 00-0736 for fuel reimbursement, 26 36 23 00-0000 for automatic transfer switches.		
26 32 13 19-0002	EA 20 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMA).....	12,949.15	801.02
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,193.03	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	10,848.65	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	14,464.87	
	For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	4,541.36	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	7,534.55	
26 32 13 19-0003	EA 25 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMB).....	14,623.81	956.43
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,193.03	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	10,848.65	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	14,464.87	
	For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	4,541.36	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	7,534.55	
26 32 13 19-0004	EA 29 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMC).....	16,861.38	1,064.03
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,193.03	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	10,848.65	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	14,464.87	
	For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	4,541.36	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	7,534.55	
26 32 13 19-0005	EA 35 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPA).....	19,112.38	1,177.60
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,193.03	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	10,848.65	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	14,464.87	
	For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	12,845.71	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	21,560.76	
26 32 13 19-0006	EA 40 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPB).....	21,434.92	1,291.18
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,193.03	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	10,848.65	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	14,464.87	
	For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	12,845.71	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	21,560.76	
26 32 13 19-0007	EA 45 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPC).....	23,222.48	1,392.80
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,193.03	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	10,848.65	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	14,464.87	
	For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	12,845.71	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	21,560.76	
26 32 13 19-0008	EA 60 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHE).....	25,428.48	1,703.64
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,193.03	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	10,848.65	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	14,464.87	
	For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	12,845.71	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	21,560.76	
26 32 13 19-0009	EA 70 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHF).....	27,292.24	1,906.88
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,193.03	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	10,848.65	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	14,464.87	
	For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	12,845.71	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	21,560.76	
26 32 13 19-0010	EA 85 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHG).....	35,720.70	2,038.40
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	7,642.06	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	16,586.65	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	22,115.53	
	For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	15,060.49	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	21,560.76	
26 32 13 19-0011	EA 100 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHH).....	42,998.42	2,295.44
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	7,642.06	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	16,586.65	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	22,115.53	
	For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	15,060.49	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	21,560.76	
26 32 13 19-0012	EA 125 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGIA).....	49,275.43	2,749.74
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	7,642.06	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	16,586.65	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	22,115.53	
	For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	15,060.49	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	21,560.76	
26 32 13 19-0013	EA 150 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGIB).....	58,506.55	3,030.69
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	7,642.06	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	16,586.65	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	22,115.53	
	For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	15,060.49	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	21,560.76	
26 32 13 19-0014	EA 175 KW Natural Gas Generator Set, 3 Phase (Cummins GFBA).....	94,320.61	8,061.41
	For Weather Resistant Steel Natural Gas Generator Enclosure, Add	40,782.03	
	For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	45,144.39	
	For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	60,192.52	
	For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	44,590.15	
	For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	66,912.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0015 EA 205 KW Natural Gas Generator Set, 3 Phase (Cummins GFBB) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	107,028.76 40,782.03 45,144.39 60,192.52 44,590.15 66,912.11	3,640.42
26 32 13 19-0016 EA 250 KW Natural Gas Generator Set, 3 Phase (Cummins GFBC) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	115,110.02 40,782.03 45,144.39 60,192.52 44,590.15 66,912.11	4,076.79
26 32 13 19-0017 EA 300 KW Natural Gas Generator Set, 3 Phase (Cummins GFEA) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	148,707.98 40,782.03 45,144.39 60,192.52 44,590.15 66,912.11	4,489.25
26 32 13 19-0018 EA 350 KW Natural Gas Generator Set, 3 Phase (Cummins GFEB) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	159,645.34 40,782.03 45,144.39 60,192.52 44,590.15 66,912.11	5,021.27
26 32 13 19-0019 EA 450 KW Natural Gas Generator Set, 3 Phase (Cummins GFGA) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	224,060.82 89,049.14 94,614.04 126,152.05 101,144.41 142,952.12	5,923.90
26 32 13 19-0020 EA 500 KW Natural Gas Generator Set, 3 Phase (Cummins GFJB) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	286,392.64 89,049.14 94,614.04 126,152.05 101,144.41 142,952.12	6,312.45
26 32 13 19-0021 EA 550 KW Natural Gas Generator Set, 3 Phase (Cummins GFJC) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	320,377.36 89,049.14 94,614.04 126,152.05 101,144.41 142,952.12	6,653.18
26 32 13 19-0022 EA 600 KW Natural Gas Generator Set, 3 Phase (Cummins GFLA) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	364,794.70 89,049.14 94,614.04 126,152.05 101,144.41 142,952.12	6,952.06
26 32 13 19-0023 EA 650 KW Natural Gas Generator Set, 3 Phase (Cummins GFLB) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	381,413.87 89,049.14 94,614.04 126,152.05 101,144.41 142,952.12	7,215.08
26 32 13 19-0024 EA 725 KW Natural Gas Generator Set, 3 Phase (Cummins GFLC) <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	403,429.57 89,049.14 94,614.04 126,152.05 101,144.41 142,952.12	7,711.24
26 32 13 19-0025 Small Natural Gas Or Propane Air Cooled Generator Sets <small>(26 32 13 19)</small>		
26 32 13 19-0026 EA 7.5 KW Natural Gas Or Propane Air Cooled Generator Set Note: Includes weatherproof composite enclosure and 100 A automatic transfer switch.	4,360.97	501.98
26 32 13 19-0027 EA 10 KW Natural Gas Or Propane Air Cooled Generator Set Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.	5,496.11	557.76
26 32 13 19-0028 EA 14 KW Natural Gas Or Propane Air Cooled Generator Set Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.	6,304.99	597.14

26 32 29 Rotary Converters (26 32)

26 32 29 00-0001 60 Hz AC Input 230 Or 460 Volt, 125 Volt DC Output <small>(26 32 29)</small>		
26 32 29 00-0002 EA 3 KW, 24 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	9,081.29	216.75
26 32 29 00-0003 EA 5 KW, 40 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	11,070.50	216.75
26 32 29 00-0004 EA 7.5 KW, 60 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	14,678.58	216.75
26 32 29 00-0005 EA 10 KW, 80 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	14,794.37	216.75
26 32 29 00-0006 EA 15 KW, 120 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	16,416.88	270.94
26 32 29 00-0007 EA 20 KW, 160 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	17,783.65	270.94
26 32 29 00-0008 EA 25 KW, 200 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	18,624.14	270.94
26 32 29 00-0009 EA 40 KW, 320 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	22,673.37	357.63
26 32 29 00-0010 EA 50 KW, 400 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	25,207.24	357.63

26 Electrical
26 30 Facility Electrical Power Generating and Storing Equipment
26 32 Packaged Generator Assemblies



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 29 00-0011 60 Hz AC Input, 230 Or 460 Volt, 250 Volts DC Output <small>(26 32 29)</small>		
26 32 29 00-0012 EA 3 KW, 12 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	10,521.38	216.75
26 32 29 00-0013 EA 5 KW, 20 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	12,554.23	216.75
26 32 29 00-0014 EA 7.5 KW, 30 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	14,365.25	216.75
26 32 29 00-0015 EA 10 KW, 40 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	14,764.98	216.75
26 32 29 00-0016 EA 15 KW, 60 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	16,719.29	270.94
26 32 29 00-0017 EA 20 KW, 80 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	18,392.42	270.94
26 32 29 00-0018 EA 25 KW, 100 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	19,001.18	270.94
26 32 29 00-0019 EA 40 KW, 160 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	22,583.04	357.63
26 32 29 00-0020 EA 50 KW, 200 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	23,961.59	357.63
26 32 29 00-0021 460 Volt 3 Phase AC Motor Drive 250 Volt DC <small>(26 32 29)</small>		
26 32 29 00-0022 EA 33 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	25,893.91	4,184.39
26 32 29 00-0023 EA 40 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	28,650.61	4,184.39
26 32 29 00-0024 EA 50 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	32,552.62	5,977.70
26 32 29 00-0025 EA 65 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	38,060.84	5,977.70
26 32 29 00-0026 EA 85 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	43,261.19	5,977.70
26 32 29 00-0027 EA 100 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	50,690.20	8,966.55
26 32 29 00-0028 EA 125 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	61,319.15	8,966.55
26 32 29 00-0029 4,160 Volt 3 Phase AC Motor Drive 250 Or 500 Volt DC <small>(26 32 29)</small>		
26 32 29 00-0030 EA 170 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	90,241.26	11,955.40
26 32 29 00-0031 EA 200 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	98,304.83	11,955.40
26 32 29 00-0032 EA 240 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	118,300.90	15,542.02
26 32 29 00-0033 EA 320 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	134,431.81	18,889.53
26 32 29 00-0034 EA 400 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	159,388.36	18,889.53
26 32 29 00-0035 EA 560 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	226,227.53	28,214.75
26 32 29 00-0036 EA 640 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	233,812.17	28,214.75
26 32 29 00-0037 EA 800 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	269,408.71	32,877.36
26 33 Battery Equipment <small>(26 30)</small>		
26 33 13 Batteries <small>(26 33)</small>		
26 33 13 00-0001 Standby Batteries <small>(26 33 13)</small>		
26 33 13 00-0002 EA 12 Volt, 100 Ampere Hours To 10.5 Volt Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery.....	1,111.99	27.15
26 33 13 00-0003 EA 12 Volt, 100 Ampere Hours To 10.5 Volt Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery With Steel Jacket.....	1,201.62	27.15
26 33 13 00-0004 EA 725CCA, Group 31, 12 Volt Lead Calcium Standby Battery	270.02	27.15
26 33 13 00-0005 EA 810CCA, Group 24, 12 Volt Lead Calcium Standby Battery	246.30	27.15
26 33 13 00-0006 EA 1080CCA, Group 4D, 12 Volt Lead Calcium Standby Battery	415.49	27.15
26 33 13 00-0007 EA 1400CCA, Group 8D, 12 Volt Lead Calcium Standby Battery	481.05	27.15
26 33 43 Battery Chargers <small>(26 33)</small>		
26 33 43 00-0001 Solid State Chargers, Single Phase <small>(26 33 43)</small>		
Note: Includes wall bracket, 10' of DC charging cable and standard connector, 208/240/480 V.		
26 33 43 00-0002 EA Solid State Battery Charger, 6 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....	3,095.37	618.78
26 33 43 00-0003 EA Solid State Battery Charger, 9 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....	3,621.95	618.78
26 33 43 00-0004 EA Solid State Battery Charger, 12 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....	3,988.66	618.78
26 33 43 00-0005 EA Solid State Battery Charger, 18 Cell Single Phase With Wall Bracket, 208/240/480 Volt.....	4,215.95	732.64
26 33 53 Static Uninterruptible Power Supply <small>(26 33)</small>		
26 33 53 00-0001 Single Phase, Uninterruptible Power Supply Systems (UPS) <small>(26 33 53)</small>		
26 33 53 00-0002 Single Phase, Uninterruptible Power Supply Systems (UPS) <small>(26 33 53 00-0001)</small>		
26 33 53 00-0003 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) <small>(26 33 53 00-0002)</small>		
Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0004 EA 0.5 kVA, 450 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-500RT120).....	1,034.76	107.30
Note: Includes 12 minutes of battery backup at full load.		
26 33 53 00-0005 EA 0.7 kVA, 630 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT120).....	1,236.02	125.17
Note: Includes 6 minutes of battery backup at full load.		
26 33 53 00-0006 EA 1 kVA, 900 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT120).....	1,523.45	143.05
Note: Includes 5 minutes of battery backup at full load.		
26 33 53 00-0007 EA 1.5 kVA, 1,350 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT120).....	1,861.01	160.94
Note: Includes 5 minutes of battery backup at full load.		
26 33 53 00-0008 EA 2 kVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT120).....	2,387.94	178.82
Note: Includes 4 minutes of battery backup at full load.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 53 00-0009 EA 3 KVA, 2,700 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT120) Note: Includes 4 minutes of battery backup at full load.	3,845.67	214.58
26 33 53 00-0010 208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002) Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0011 EA 3 KVA, 2,700 Watt, 208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT208) Note: Includes 4 minutes of battery backup at full load.	3,774.88	214.58
26 33 53 00-0012 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002) Note: Rack mount or tower configuration. Includes 50 or 60 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0013 EA 5 KVA, 4,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT208) Note: Includes 5 minutes of battery backup at full load.	5,822.99	286.11
26 33 53 00-0014 EA 6 KVA, 4,800 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT208) Note: Includes 4 minutes of battery backup at full load.	6,367.92	321.88
26 33 53 00-0015 EA 8 KVA, 7,200 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-8000RT208) Note: Includes 7 minutes of battery backup at full load.	9,521.58	393.40
26 33 53 00-0016 EA 10 KVA, 9,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT208) Note: Includes 4-1/2 minutes of battery backup at full load.	10,945.09	429.16
26 33 53 00-0017 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002) Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0018 EA 0.7 KVA, 630 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT230) Note: Includes 11 minutes of battery backup at full load.	1,236.02	125.17
26 33 53 00-0019 EA 1 KVA, 900 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT230) Note: Includes 6 minutes of battery backup at full load.	1,523.45	143.05
26 33 53 00-0020 EA 1.5 KVA, 1,350 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT230) Note: Includes 4 minutes of battery backup at full load.	1,881.92	160.94
26 33 53 00-0021 EA 2 KVA, 1,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT230) Note: Includes 4 minutes of battery backup at full load.	2,392.98	178.82
26 33 53 00-0022 EA 3 KVA, 2,700 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT230) Note: Includes 4 minutes of battery backup at full load.	3,861.39	214.58
26 33 53 00-0023 EA 5 KVA, 4,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT230) Note: Includes 9 minutes of battery backup at full load.	5,586.58	286.11
26 33 53 00-0024 EA 6 KVA, 4,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT230) Note: Includes 6 minutes of battery backup at full load.	6,859.42	321.88
26 33 53 00-0025 EA 10 KVA, 9,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT230) Note: Includes 3 minutes of battery backup at full load.	10,607.15	429.16
26 33 53 00-0026 Optional Accessories For Single Phase, Uninterruptible Power Supply Systems (26 33 53 00-0001)		
26 33 53 00-0027 EA External Battery Cabinet For 0.5 To 2 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-48VBATT) Note: Rack mount or tower configuration.	686.18	32.51
26 33 53 00-0028 EA External Battery Cabinet For 3 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-72VBATT) Note: Rack mount or tower configuration.	898.83	32.51
26 33 53 00-0029 EA External Battery Cabinet For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATT) Note: Rack mount or tower configuration.	875.16	32.51
26 33 53 00-0030 EA External Battery Cabinet For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTVBATT) Note: Rack mount or tower configuration.	594.58	32.51
26 33 53 00-0031 EA Internal Replacement Battery For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATKIT) Note: Rack mount or tower configuration.	879.22	107.30
26 33 53 00-0032 EA Internal Replacement Battery For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTBKIT) Note: Rack mount or tower configuration.	987.59	143.05
26 33 53 00-0033 Three Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53)		

26 Electrical

26 30 Facility Electrical Power Generating and Storing Equipment

26 33 Battery Equipment



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 33 53 00-0034	208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) With Internal Battery <small>(26 33 53 00-0033)</small>		
	Note: Includes start-up, 60 Hz frequency, bypass switch and diagnostics.		
26 33 53 00-0035	EA 10 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	38,721.95	429.16
26 33 53 00-0036	EA 15 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	42,861.44	572.21
26 33 53 00-0037	EA 20 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	47,904.82	715.27
26 33 53 00-0038	EA 30 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	51,953.92	858.32
26 33 53 00-0039	EA 40 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	62,511.09	1,001.38
26 33 53 00-0040	208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery <small>(26 33 53 00-0033)</small>		
	Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.		
26 33 53 00-0041	EA 60 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	84,781.60	1,706.89
26 33 53 00-0042	EA 80 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	92,165.08	2,113.29
26 33 53 00-0043	EA 100 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	101,926.26	2,465.52
26 33 53 00-0044	EA 120 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	125,879.14	2,790.63
26 33 53 00-0045	EA 140 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	130,668.87	3,115.75
26 33 53 00-0046	EA 160 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	135,839.08	3,440.88
26 33 53 00-0047	EA 180 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	142,093.97	3,766.00
26 33 53 00-0048	EA 200 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	148,348.87	4,091.12
26 33 53 00-0049	480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery <small>(26 33 53 00-0033)</small>		
	Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.		
26 33 53 00-0050	EA 50 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	79,150.79	1,408.86
26 33 53 00-0051	EA 100 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	102,468.60	2,476.35
26 33 53 00-0052	EA 150 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	140,096.99	2,861.07
26 33 53 00-0053	EA 200 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	165,044.16	3,142.85
26 33 53 00-0054	EA 250 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	193,064.59	3,467.97
26 33 53 00-0055	Optional Accessories For Three Phase, Uninterruptible Power Supply Systems <small>(26 33 53 00-0033)</small>		
26 33 53 00-0056	EA Programmable Relay Board For Three Phase Uninterruptible Power Supply Systems.....	612.02	54.18
26 33 53 00-0057	EA Network Interface Card For Three Phase Uninterruptible Power Supply Systems.....	985.11	54.18
26 33 53 00-0058	EA Remote Status Panel With 100' Of Cable For Three Phase Uninterruptible Power Supply Systems.....	1,890.88	108.38
26 33 53 00-0059	EA Slim Line Distribution Panel With Two 42 Pole Panels For Three Phase Uninterruptible Power Supply Systems.....	5,884.40	433.49
26 33 53 00-0060	EA 12 Volt, 491 Watt, 3 Phase, 134 Ampere Hours, Battery For Uninterruptible Power Supply Systems (C&D UPS12-490MR).....	588.01	54.18
26 33 53 00-0061	EA 12 Volt, 204 Watt, 3 Phase, 55 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX200).....	320.14	54.18
26 33 53 00-0062	EA 12 Volt, 257 Watt, 3 Phase, 65 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX250).....	359.23	54.18
26 33 53 00-0063	EA 12 Volt, 311 Watt, 3 Phase, 75 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX300).....	398.32	54.18
26 33 53 00-0064	EA 12 Volt, 374 Watt, 3 Phase, 90 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX350).....	468.68	54.18
26 33 53 00-0065	EA 12 Volt, 415 Watt, 3 Phase, 100 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX400).....	492.13	54.18
26 33 53 00-0066	EA 12 Volt, 493 Watt, 3 Phase, 135 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX500).....	613.30	54.18
26 33 53 00-0067	EA 12 Volt, 540 Watt, 3 Phase, 150 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX540).....	642.62	54.18
26 33 53 00-0068	Other Uninterruptable Power Supply Equipment <small>(26 33 53)</small>		
26 33 53 00-0069	EA Uninterrupted Power Supply Slim-Line Distribution Panel 42 Pole GE Plug-In.....	5,763.54	99.00
26 33 53 00-0070	EA Uninterrupted Power Supply Slim-Line Distribution Panel 84 Pole GE Plug-In.....	6,921.11	198.01
26 33 53 00-0071	EA 1 Pole, 15 To 60 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	29.15	5.94
26 33 53 00-0072	EA 2 Pole, 15 To 40 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	53.23	7.42
26 33 53 00-0073	EA 2 Pole, 50 To 80 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	101.21	7.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 53 00-0074 EA 3 Pole, 15 To 60 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	148.38	9.90
26 33 53 00-0075 EA 3 Pole, 70 To 100 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	211.71	9.90
26 33 53 00-0076 EA Uninterrupted Power Supply Remote Status Panel.....	3,940.35	99.00
26 33 53 00-0077 EA Uninterrupted Power Supply Remote Contact Board.....	1,299.98	74.25

26 35 Power Filters and Conditioners (26 30)

26 35 33 Power Factor Correction Equipment (26 35)

26 35 33 16 Low-Voltage Power Factor Correction Equipment (26 35 33)

26 35 33 16-0001 Power Factor Correction Capacitors (26 35 33 16)

26 35 33 16-0002 EA Power Factor Correction Capacitors, 2.0 KVAC	710.08	
26 35 33 16-0003 EA Power Factor Correction Capacitors, 3.0 KVAC	786.43	
26 35 33 16-0004 EA Power Factor Correction Capacitors, 4.0 KVAC	862.78	
26 35 33 16-0005 EA Power Factor Correction Capacitors, 5.0 KVAC	936.08	
26 35 33 16-0006 EA Power Factor Correction Capacitors, 7.5 KVAC	1,149.87	
26 35 33 16-0007 EA Power Factor Correction Capacitors, 10.0 KVAC	1,404.89	
26 35 33 16-0008 EA Power Factor Correction Capacitors, 15.0 KVAC	2,169.94	
26 35 33 16-0009 EA Power Factor Correction Capacitors, 20.0 KVAC	2,635.69	
26 35 33 16-0010 EA Power Factor Correction Capacitors, 25.0 KVAC	3,405.33	
26 35 33 16-0011 EA Power Factor Correction Capacitors, 30.0 KVAC	3,872.60	
26 35 33 16-0012 EA Power Factor Correction Capacitors, 50.0 KVAC	6,795.38	
26 35 33 16-0013 EA Power Factor Correction Capacitors, 75.0 KVAC	10,217.50	
26 35 33 16-0014 EA Power Factor Correction Capacitors, 100.0 KVAC	13,624.36	
26 35 33 16-0015 EA Power Factor Correction Capacitors, Fuse Kit.....	632.20	

26 35 43 Static-Frequency Converters (26 35)

26 35 43 00-0001 Rotary Phase Converter With NEMA 1 Indoor Enclosure (26 35 43)

26 35 43 00-0002 EA 750 Watt Output Rotary Phase Converter With NEMA 1 Enclosure.....	654.33	108.38
26 35 43 00-0003 EA 2 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	1,144.13	130.05
26 35 43 00-0004 EA 3 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	1,311.13	173.40
26 35 43 00-0005 EA 5 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	1,801.75	216.75
26 35 43 00-0006 EA 7 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	2,483.71	281.78
26 35 43 00-0007 EA 11 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	3,211.65	346.80
26 35 43 00-0008 EA 15 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	4,031.59	411.82
26 35 43 00-0009 EA 21 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	4,921.82	466.01
26 35 43 00-0010 EA 29 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	5,714.79	563.54
26 35 43 00-0011 EA 36 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	6,545.55	633.99
26 35 43 00-0012 EA 44 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	7,376.32	704.43
26 35 43 00-0013 EA 55 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	9,163.67	850.73
26 35 43 00-0014 EA 74 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	11,925.05	1,024.13
26 35 43 00-0015 EA 87 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	15,128.89	1,246.30
26 35 43 00-0016 EA 110 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	17,299.26	1,457.63
26 35 43 00-0017 EA 125 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	22,326.42	1,625.61
26 35 43 00-0018 EA 165 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	34,257.92	1,842.36
26 35 43 00-0019 EA 220 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	51,248.55	2,059.11

26 35 53 Voltage Regulators (26 35)

26 35 53 00-0001 Voltage Regulators, 480/277 Or 208/120 Volt, 3 Phase (26 35 53)

Note: For diesel motor generator sets mounted in switchgear cabinet.

26 35 53 00-0002 EA 50 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear.....	6,574.68	1,723.15
26 35 53 00-0003 EA 75 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear.....	7,471.38	2,167.48
26 35 53 00-0004 EA 100 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear.....	8,297.08	2,579.31

26 36 Transfer Switches (26 30)

26 36 13 Manual Transfer Switches (26 36)

26 36 13 00-0001 Fused Manual Transfer Switches (26 36 13)

26 36 13 00-0002 EA 30 Amperes, Manual Transfer Switch, Fused, 3 Pole, 480 Volt.....	1,299.76	189.66
26 36 13 00-0003 EA 60 Amperes, Manual Transfer Switch, Fused, 3 Pole, 480 Volt.....	1,511.30	235.60

26 36 13 00-0004 Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure

26 36 13 00-0005 EA 40 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT40).....	2,688.85	278.88
<i>For NEMA 3R Enclosure, Add</i>	<i>838.64</i>	
<i>For NEMA 12 Enclosure, Add</i>	<i>789.30</i>	
26 36 13 00-0006 EA 70 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT70).....	2,984.92	334.66
<i>For NEMA 3R Enclosure, Add</i>	<i>838.64</i>	
<i>For NEMA 12 Enclosure, Add</i>	<i>789.30</i>	
26 36 13 00-0007 EA 125 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT125).....	3,390.44	390.43
<i>For NEMA 3R Enclosure, Add</i>	<i>838.64</i>	
<i>For NEMA 12 Enclosure, Add</i>	<i>789.30</i>	

26 Electrical

26 30 Facility Electrical Power Generating and Storing Equipment

26 36 Transfer Switches



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 13 00-0008	EA		150 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT150).....	4,200.94	446.20
			<i>For NEMA 3R Enclosure, Add</i>	986.63	
			<i>For NEMA 12 Enclosure, Add</i>	789.30	
26 36 13 00-0009	EA		225 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT225).....	5,188.35	501.98
			<i>For NEMA 3R Enclosure, Add</i>	986.63	
			<i>For NEMA 12 Enclosure, Add</i>	789.30	
26 36 13 00-0010	EA		260 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT260).....	5,831.76	557.76
			<i>For NEMA 3R Enclosure, Add</i>	986.63	
			<i>For NEMA 12 Enclosure, Add</i>	789.30	
26 36 13 00-0011	EA		300 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT300).....	6,485.13	613.53
			<i>For NEMA 3R Enclosure, Add</i>	1,164.22	
			<i>For NEMA 12 Enclosure, Add</i>	986.63	
26 36 13 00-0012	EA		400 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT400).....	7,602.53	669.31
			<i>For NEMA 3R Enclosure, Add</i>	1,164.22	
			<i>For NEMA 12 Enclosure, Add</i>	986.63	
26 36 13 00-0013	EA		600 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT600).....	10,043.85	836.64
			<i>For NEMA 3R Enclosure, Add</i>	1,164.22	
			<i>For NEMA 12 Enclosure, Add</i>	986.63	
26 36 13 00-0014	EA		800 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT800).....	11,313.78	1,003.97
			<i>For NEMA 3R Enclosure, Add</i>	1,430.60	
			<i>For NEMA 12 Enclosure, Add</i>	1,381.28	
26 36 13 00-0015	EA		1,000 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT1000).....	15,141.13	1,434.65
			<i>For NEMA 3R Enclosure, Add</i>	1,430.60	
			<i>For NEMA 12 Enclosure, Add</i>	1,381.28	

26 36 23 Automatic Transfer Switches (26 36)

26 36 23 00-0001 Automatic Transfer Switch (26 36 23)

26 36 23 00-0002 Automatic Transfer Switch, 2 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23

00-0001)

Note: Programmable, 120/240 volt single phase, 3 wire.

26 36 23 00-0003	EA		100 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	2,460.08	390.43
26 36 23 00-0004	EA		225 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	3,340.28	501.98
26 36 23 00-0005	EA		400 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	5,281.15	669.31
26 36 23 00-0006	EA		600 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	8,533.30	836.64

26 36 23 00-0007 Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23

00-0001)

26 36 23 00-0008	EA		40 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC40).....	3,978.72	278.88
			<i>For NEMA 3R Enclosure, Add</i>	838.64	
			<i>For NEMA 4 Enclosure, Add</i>	887.96	
			<i>For NEMA 12 Enclosure, Add</i>	887.96	
26 36 23 00-0009	EA		70 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC70).....	4,595.89	334.66
			<i>For NEMA 3R Enclosure, Add</i>	838.64	
			<i>For NEMA 4 Enclosure, Add</i>	887.96	
			<i>For NEMA 12 Enclosure, Add</i>	887.96	
26 36 23 00-0010	EA		125 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC125).....	5,056.59	390.43
			<i>For NEMA 3R Enclosure, Add</i>	838.64	
			<i>For NEMA 4 Enclosure, Add</i>	887.96	
			<i>For NEMA 12 Enclosure, Add</i>	887.96	
26 36 23 00-0011	EA		150 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC150).....	6,012.09	446.20
			<i>For NEMA 3R Enclosure, Add</i>	986.63	
			<i>For NEMA 4 Enclosure, Add</i>	1,282.61	
			<i>For NEMA 12 Enclosure, Add</i>	887.96	
26 36 23 00-0012	EA		225 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC225).....	6,863.55	501.98
			<i>For NEMA 3R Enclosure, Add</i>	986.63	
			<i>For NEMA 4 Enclosure, Add</i>	1,282.61	
			<i>For NEMA 12 Enclosure, Add</i>	887.96	
26 36 23 00-0013	EA		260 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC260).....	7,574.80	557.76
			<i>For NEMA 3R Enclosure, Add</i>	986.63	
			<i>For NEMA 4 Enclosure, Add</i>	1,282.61	
			<i>For NEMA 12 Enclosure, Add</i>	887.96	
26 36 23 00-0014	EA		300 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC300).....	7,920.63	613.53
			<i>For NEMA 3R Enclosure, Add</i>	1,164.22	
			<i>For NEMA 4 Enclosure, Add</i>	1,381.28	
			<i>For NEMA 12 Enclosure, Add</i>	986.63	
26 36 23 00-0015	EA		400 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC400).....	8,952.99	669.31
			<i>For NEMA 3R Enclosure, Add</i>	1,164.22	
			<i>For NEMA 4 Enclosure, Add</i>	1,381.28	
			<i>For NEMA 12 Enclosure, Add</i>	986.63	
26 36 23 00-0016	EA		600 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC600).....	12,254.53	836.64
			<i>For NEMA 3R Enclosure, Add</i>	1,164.22	
			<i>For NEMA 4 Enclosure, Add</i>	1,381.28	
			<i>For NEMA 12 Enclosure, Add</i>	986.63	
26 36 23 00-0017	EA		800 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC800).....	13,755.12	1,003.97
			<i>For NEMA 3R Enclosure, Add</i>	1,430.60	
			<i>For NEMA 4 Enclosure, Add</i>	1,578.61	
			<i>For NEMA 12 Enclosure, Add</i>	1,381.28	
26 36 23 00-0018	EA		1,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1000).....	17,994.93	1,434.65
			<i>For NEMA 3R Enclosure, Add</i>	1,430.60	
			<i>For NEMA 4 Enclosure, Add</i>	1,578.61	
			<i>For NEMA 12 Enclosure, Add</i>	1,381.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0019 EA 1,200 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1200).....	23,292.08	1,554.20
<i>For NEMA 3R Enclosure, Add</i>	3,157.20	
<i>For NEMA 4 Enclosure, Add</i>	1,775.92	
<i>For NEMA 12 Enclosure, Add</i>	1,479.94	
26 36 23 00-0020 EA 1,600 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1600).....	24,860.27	1,793.31
<i>For NEMA 3R Enclosure, Add</i>	5,130.44	
<i>For NEMA 4 Enclosure, Add</i>	6,314.39	
<i>For NEMA 12 Enclosure, Add</i>	5,130.44	
26 36 23 00-0021 EA 2,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC2000).....	28,420.97	2,032.42
<i>For NEMA 3R Enclosure, Add</i>	5,130.44	
<i>For NEMA 4 Enclosure, Add</i>	6,314.39	
<i>For NEMA 12 Enclosure, Add</i>	5,130.44	
26 36 23 00-0022 EA 3,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC3000).....	34,336.71	2,510.63
<i>For NEMA 3R Enclosure, Add</i>	5,130.44	
26 36 23 00-0023 EA 4,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC4000).....	59,320.27	2,988.85
<i>For NEMA 3R Enclosure, Add</i>	24,113.04	
26 36 23 00-0024 Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure <small>(26 36 23 00-0001)</small>		
26 36 23 00-0025 EA 150 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC150)....	19,919.82	2,119.48
<i>For NEMA 3R Enclosure, Add</i>	1,726.60	
<i>For NEMA 4 Enclosure, Add</i>	1,775.92	
<i>For NEMA 12 Enclosure, Add</i>	937.30	
26 36 23 00-0026 EA 225 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC225)....	20,796.18	2,231.04
<i>For NEMA 3R Enclosure, Add</i>	1,726.60	
<i>For NEMA 4 Enclosure, Add</i>	1,775.92	
<i>For NEMA 12 Enclosure, Add</i>	937.30	
26 36 23 00-0027 EA 260 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC260)....	21,800.86	2,342.59
<i>For NEMA 3R Enclosure, Add</i>	1,726.60	
<i>For NEMA 4 Enclosure, Add</i>	1,775.92	
<i>For NEMA 12 Enclosure, Add</i>	937.30	
26 36 23 00-0028 EA 300 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC300)....	24,308.31	2,398.37
<i>For NEMA 3R Enclosure, Add</i>	1,726.60	
<i>For NEMA 4 Enclosure, Add</i>	1,775.92	
<i>For NEMA 12 Enclosure, Add</i>	937.30	
26 36 23 00-0029 EA 400 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC400)....	28,020.91	2,454.14
<i>For NEMA 3R Enclosure, Add</i>	1,726.60	
<i>For NEMA 4 Enclosure, Add</i>	1,775.92	
<i>For NEMA 12 Enclosure, Add</i>	937.30	
26 36 23 00-0030 EA 600 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC600)....	33,603.16	2,565.70
<i>For NEMA 3R Enclosure, Add</i>	1,726.60	
<i>For NEMA 4 Enclosure, Add</i>	1,775.92	
<i>For NEMA 12 Enclosure, Add</i>	986.63	
26 36 23 00-0031 EA 800 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC800)....	37,027.85	2,677.24
<i>For NEMA 3R Enclosure, Add</i>	1,775.92	
<i>For NEMA 4 Enclosure, Add</i>	1,775.92	
<i>For NEMA 12 Enclosure, Add</i>	1,085.29	
26 36 23 00-0032 EA 1,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1000).....	46,499.34	3,123.45
<i>For NEMA 3R Enclosure, Add</i>	1,775.92	
<i>For NEMA 4 Enclosure, Add</i>	1,775.92	
<i>For NEMA 12 Enclosure, Add</i>	1,085.29	
26 36 23 00-0033 EA 1,200 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1200).....	61,060.46	3,586.62
<i>For NEMA 3R Enclosure, Add</i>	7,892.98	
<i>For NEMA 4 Enclosure, Add</i>	9,866.22	
<i>For NEMA 12 Enclosure, Add</i>	7,892.98	
26 36 23 00-0034 EA 1,600 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1600).....	79,532.49	3,825.72
<i>For NEMA 3R Enclosure, Add</i>	16,772.57	
<i>For NEMA 4 Enclosure, Add</i>	16,772.57	
<i>For NEMA 12 Enclosure, Add</i>	15,628.10	
26 36 23 00-0035 EA 2,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC2000).....	90,281.97	4,184.39
<i>For NEMA 3R Enclosure, Add</i>	16,772.57	
<i>For NEMA 4 Enclosure, Add</i>	16,772.57	
<i>For NEMA 12 Enclosure, Add</i>	15,628.10	
26 36 23 00-0036 EA 3,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC3000).....	144,101.91	4,782.16
<i>For NEMA 3R Enclosure, Add</i>	20,719.06	
26 36 23 00-0037 EA 4,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC4000).....	155,575.75	5,379.93
<i>For NEMA 3R Enclosure, Add</i>	20,719.06	
26 36 23 00-0038 Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure <small>(26 36 23 00-0001)</small>		
26 36 23 00-0039 EA 40 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE40).....	6,467.99	278.88
<i>For NEMA 3R Enclosure, Add</i>	493.31	
<i>For NEMA 12 Enclosure, Add</i>	887.96	

26 Electrical
26 30 Facility Electrical Power Generating and Storing Equipment
26 36 Transfer Switches



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0040	EA		70 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE70).....	6,999.25	334.66
			For NEMA 3R Enclosure, Add	493.31	
			For NEMA 12 Enclosure, Add	887.96	
26 36 23 00-0041	EA		125 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE125).....	7,529.60	390.43
			For NEMA 3R Enclosure, Add	493.31	
			For NEMA 12 Enclosure, Add	887.96	
26 36 23 00-0042	EA		150 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE150).....	9,039.56	446.20
			For Four Pole Circuit Breaker, Add	2,466.56	
			For NEMA 3R Enclosure, Add	493.31	
			For NEMA 12 Enclosure, Add	887.96	
26 36 23 00-0043	EA		225 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE225).....	11,759.79	501.98
			For Four Pole Circuit Breaker, Add	2,466.56	
			For NEMA 3R Enclosure, Add	493.31	
			For NEMA 12 Enclosure, Add	887.96	
26 36 23 00-0044	EA		250 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE250).....	12,523.51	557.76
			For Four Pole Circuit Breaker, Add	2,466.56	
			For NEMA 3R Enclosure, Add	493.31	
			For NEMA 12 Enclosure, Add	887.96	
26 36 23 00-0045	EA		300 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE300).....	13,028.54	613.53
			For Four Pole Circuit Breaker, Add	3,354.52	
			For NEMA 3R Enclosure, Add	1,282.61	
			For NEMA 12 Enclosure, Add	986.63	
26 36 23 00-0046	EA		400 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE400).....	14,740.20	669.31
			For Four Pole Circuit Breaker, Add	3,354.52	
			For NEMA 3R Enclosure, Add	1,282.61	
			For NEMA 12 Enclosure, Add	986.63	
26 36 23 00-0047	EA		600 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE600).....	17,888.87	836.64
			For Four Pole Circuit Breaker, Add	3,354.52	
			For NEMA 3R Enclosure, Add	1,282.61	
			For NEMA 12 Enclosure, Add	986.63	
26 36 23 00-0048	EA		800 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE800).....	18,654.08	1,003.97
			For Four Pole Circuit Breaker, Add	4,785.12	
			For NEMA 3R Enclosure, Add	2,210.04	
			For NEMA 12 Enclosure, Add	1,381.28	
26 36 23 00-0049	EA		1,000 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE1000).....	22,228.15	1,434.65
			For Four Pole Circuit Breaker, Add	4,785.12	
			For NEMA 3R Enclosure, Add	2,210.04	
			For NEMA 12 Enclosure, Add	1,381.28	

26 36 23 00-0050 Accessories (26 36 23)

26 36 23 00-0051	EA		Auxiliary Contacts For Automatic Transfer Switch.....	228.90	
26 36 23 00-0052	EA		Battery Charger For Automatic Transfer Switch.....	1,874.59	
26 36 23 00-0053	EA		Elevator Relay Signal For Automatic Transfer Switch.....	680.77	

26 40 Electrical And Cathodic Protection (26)

26 43 Surge Protective Devices (26 40)

26 43 13 Surge Protective Devices for Low-Voltage Electrical Power Circuits (26 43)

26 43 13 00-0001 25 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression (26 43 13)

Note: Liebert LPL

26 43 13 00-0002	EA		120/240 Volt AC Single Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	219.78	27.10
26 43 13 00-0003	EA		208 Volt AC Three Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	236.58	27.10
26 43 13 00-0004	EA		240/120 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	247.42	32.51
26 43 13 00-0005	EA		277 Volt AC Single Phase, 2 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	204.15	21.67
26 43 13 00-0006	EA		480/277 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	247.42	32.51

26 43 13 00-0007 50 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression (26 43 13)

Note: Liebert LPL

26 43 13 00-0008	EA		120/240 Volt AC Single Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	302.58	27.10
26 43 13 00-0009	EA		208/120 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	323.02	32.51
26 43 13 00-0010	EA		240/120 Volt AC Three Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	312.18	27.10
26 43 13 00-0011	EA		480/277 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	323.02	32.51

26 43 13 00-0012 100 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression (26 43 13)

Note: Liebert LPL

26 43 13 00-0013	EA		120/240 Volt AC Single Phase, 3 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	364.98	27.10
26 43 13 00-0014	EA		208/120 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	385.42	32.51
26 43 13 00-0015	EA		277 Volt AC Single Phase, 2 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	339.75	21.67



Electrical	26
Electrical And Cathodic Protection	26 40
Surge Protective Devices	26 43

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0016	EA		480/277 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor	385.42	32.51
26 43 13 00-0017			100 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression (26 43 13)		
			Note: Liebert LPM		
26 43 13 00-0018	EA		120/240 Volt AC Single Phase, 3 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor.....	429.78	27.10
26 43 13 00-0019	EA		208/120 Volt AC Three Phase, 4 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor	485.02	32.51
26 43 13 00-0020	EA		277 Volt AC Three Phase, 2 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor	405.75	21.67
26 43 13 00-0021			160 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression (26 43 13)		
			Note: Liebert LPM		
26 43 13 00-0022	EA		208/120 Volt AC Single Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor.....	755.02	32.51
26 43 13 00-0023	EA		208 Volt AC Three Phase, 3 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor	744.18	27.10
26 43 13 00-0024	EA		480/277 Volt AC Three Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor	755.02	32.51
26 43 13 00-0025			250 kA, 500 Joule Transient Voltage Surge Suppression (26 43 13)		
			Note: Liebert Interceptor Hybrid.		
26 43 13 00-0026	EA		LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor.....	7,348.49	54.18
26 43 13 00-0027	EA		Audible Alarm/LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor	8,990.09	54.18
26 43 13 00-0028			Class 1310 Transient Voltage Surge Suppression (26 43 13)		
			Note: Supplied with audible alarm, alarm enable/disable switch and dry contacts. Square D.		
26 43 13 00-0029			NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor (26 43 13 00-0029)		
			Note: Square D. EMA series.		
26 43 13 00-0030	EA		120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,526.17	140.89
			For Integral Disconnect, Add	265.68	
			For Surge Counter, Add	203.04	
26 43 13 00-0031	EA		160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,890.63	162.56
			For Integral Disconnect, Add	265.68	
			For Surge Counter, Add	203.04	
26 43 13 00-0032	EA		240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,674.62	189.66
			For Integral Disconnect, Add	265.68	
			For Surge Counter, Add	203.04	
26 43 13 00-0033	EA		320 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	7,542.01	216.75
			For Integral Disconnect, Add	265.68	
			For Surge Counter, Add	203.04	
26 43 13 00-0034	EA		480 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	11,155.61	298.03
			For Integral Disconnect, Add	265.68	
			For Surge Counter, Add	203.04	
26 43 13 00-0035	EA		120 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,678.17	140.89
			For Integral Disconnect, Add	265.68	
			For Surge Counter, Add	203.04	
26 43 13 00-0036	EA		160 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,057.61	162.56
			For Integral Disconnect, Add	265.68	
			For Surge Counter, Add	203.04	
26 43 13 00-0037	EA		240 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,932.60	189.66
			For Integral Disconnect, Add	265.68	
			For Surge Counter, Add	203.04	
26 43 13 00-0038	EA		320 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	7,877.05	216.75
			For Integral Disconnect, Add	265.68	
			For Surge Counter, Add	203.04	
26 43 13 00-0039	EA		480 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	11,672.61	298.03
			For Integral Disconnect, Add	265.68	
			For Surge Counter, Add	203.04	
26 43 13 00-0040	EA		120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,678.17	140.89
			For Integral Disconnect, Add	265.68	
			For Surge Counter, Add	203.04	
26 43 13 00-0041	EA		160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,057.61	162.56
			For Integral Disconnect, Add	265.68	
			For Surge Counter, Add	203.04	
26 43 13 00-0042	EA		240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,932.54	189.66
			For Integral Disconnect, Add	265.68	
			For Surge Counter, Add	203.04	
26 43 13 00-0043	EA		320 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	7,877.05	216.75
			For Integral Disconnect, Add	265.68	
			For Surge Counter, Add	203.04	
26 43 13 00-0044	EA		480 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	11,672.61	298.03
			For Integral Disconnect, Add	265.68	
			For Surge Counter, Add	203.04	
26 43 13 00-0045	EA		120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,830.20	140.89
			For Integral Disconnect, Add	265.68	
			For Surge Counter, Add	203.04	
26 43 13 00-0046	EA		160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,226.74	162.56
			For Integral Disconnect, Add	265.68	
			For Surge Counter, Add	203.04	
26 43 13 00-0047	EA		240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	6,192.70	189.66
			For Integral Disconnect, Add	265.68	
			For Surge Counter, Add	203.04	

26	Electrical
26 40	Electrical And Cathodic Protection
26 43	Surge Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0048 EA 320 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	8,214.30	216.75
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0049 EA 480 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	12,191.72	298.03
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0050 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,006.81	140.89
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0051 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,402.33	162.56
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0052 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	6,464.58	189.66
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0053 EA 320 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	8,567.53	216.75
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0054 EA 480 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	12,000.62	298.03
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0055 NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <small>(26 43 13 00-0028)</small>		
Note: Square D EBA series.		
26 43 13 00-0056 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	2,755.51	140.89
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0057 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,327.64	162.56
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0058 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	4,867.55	189.66
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0059 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	2,842.21	140.89
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0060 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,456.09	162.56
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0061 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	5,035.60	189.66
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0062 EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	2,842.21	140.89
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0063 EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,456.09	162.56
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0064 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	5,035.60	189.66
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0065 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	2,952.47	140.89
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0066 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,594.17	162.56
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0067 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	5,250.75	189.66
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0068 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,068.08	140.89
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0069 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,740.81	162.56
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0070 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	5,476.60	189.66
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0071 NEMA 4X Modular Device Transient Voltage Surge Suppressor <small>(26 43 13 00-0028)</small>		
Note: Square D EMA series. Stainless steel.		
26 43 13 00-0072 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	4,537.70	140.89
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0073 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	4,902.16	162.56
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	
26 43 13 00-0074 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	6,686.15	189.66
For Integral Disconnect, Add	265.68	
For Surge Counter, Add	203.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0075 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,689.70 265.68 203.04	140.89
26 43 13 00-0076 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,069.14 265.68 203.04	162.56
26 43 13 00-0077 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	6,944.13 265.68 203.04	189.66
26 43 13 00-0078 EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,689.70 265.68 203.04	140.89
26 43 13 00-0079 EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,069.14 265.68 203.04	162.56
26 43 13 00-0080 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	6,944.07 265.68 203.04	189.66
26 43 13 00-0081 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,841.72 265.68 203.04	140.89
26 43 13 00-0082 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,238.27 265.68 203.04	162.56
26 43 13 00-0083 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	7,204.23 265.68 203.04	189.66
26 43 13 00-0084 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,018.34 265.68 203.04	140.89
26 43 13 00-0085 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,413.85 265.68 203.04	162.56
26 43 13 00-0086 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	7,476.11 265.68 203.04	189.66
26 43 13 00-0087 NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor (26 43 13 00- 0028) Note: Square D EBA series. Stainless steel.		
26 43 13 00-0088 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	3,767.04 265.68 203.04	140.89
26 43 13 00-0089 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,339.17 265.68 203.04	162.56
26 43 13 00-0090 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,879.08 265.68 203.04	189.66
26 43 13 00-0091 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	3,853.74 265.68 203.04	140.89
26 43 13 00-0092 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,467.62 265.68 203.04	162.56
26 43 13 00-0093 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	6,047.13 265.68 203.04	189.66
26 43 13 00-0094 EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	3,853.74 265.68 203.04	140.89
26 43 13 00-0095 EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,467.62 265.68 203.04	162.56
26 43 13 00-0096 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	6,047.13 265.68 203.04	189.66
26 43 13 00-0097 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	3,964.00 265.68 203.04	140.89
26 43 13 00-0098 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,605.70 265.68 203.04	162.56
26 43 13 00-0099 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	6,262.28 265.68 203.04	189.66
26 43 13 00-0100 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,079.60 265.68 203.04	140.89
26 43 13 00-0101 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,752.34 265.68 203.04	162.56
26 43 13 00-0102 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add For Surge Counter, Add</i>	6,488.13 265.68 203.04	189.66

26	Electrical
26 40	Electrical And Cathodic Protection
26 43	Surge Protective Devices



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 50 Lighting ⁽²⁶⁾

Note: Includes testing of fixture, a set of lamps (light bulbs), wire nuts, ground wire connector, fixture whip, ballast(s), mounting brackets where necessary and cable connectors. Lay-in fixtures include support wire, clips and seismic supports.

26 52 Safety Lighting ^(26 50)

26 52 13 Emergency and Exit Lighting ^(26 52)

26 52 13 13 Emergency Lighting ^(26 52 13)

26 52 13 13-0001 Commercial Emergency Lights ^(26 52 13 13)

26 52 13 13-0002 Polycarbonate Housing, Commercial Emergency Lights ^(26 52 13 13-0001)

Note: Includes lead-calcium batteries and two adjustable lamp heads.

26 52 13 13-0003	EA	3 Max Wattage At 90 Minutes, 3.6 Volt, Polycarbonate Housing, LED Lamps, Commercial Emergency Light (Lithonia ELM2 LED)	226.28	27.10
26 52 13 13-0004	EA	10.8 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM2)	153.95	27.10
		<i>For Halogen Lamps, Add</i>	27.55	
		<i>For Self-Diagnostics, Add</i>	87.50	
26 52 13 13-0005	EA	18 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM618)	248.61	27.10
		<i>For Halogen Lamps, Add</i>	27.55	
		<i>For Self-Diagnostics, Add</i>	87.50	
26 52 13 13-0006	EA	27 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM627)	291.47	27.10
		<i>For Halogen Lamps, Add</i>	27.55	
		<i>For Self-Diagnostics, Add</i>	87.50	
26 52 13 13-0007	EA	54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM654)	438.73	27.10
		<i>For Halogen Lamps, Add</i>	27.55	
		<i>For Self-Diagnostics, Add</i>	87.50	
26 52 13 13-0008	EA	54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1254)	498.51	27.10
		<i>For Halogen Lamps, Add</i>	27.55	
		<i>For Self-Diagnostics, Add</i>	87.50	
26 52 13 13-0009	EA	72 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1272)	731.42	27.10
		<i>For Halogen Lamps, Add</i>	27.55	
		<i>For Self-Diagnostics, Add</i>	87.50	

26 52 13 13-0010 Remote Heads For Commercial Emergency Lights ^(26 52 13 13-0001)

Note: For use with fixtures that have remote capability.

26 52 13 13-0011	EA	6 Watt, 6 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H0606)	153.76	16.26
26 52 13 13-0012	EA	6 Watt, 6 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0606)	154.84	16.26
26 52 13 13-0013	EA	8 Watt, 8 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0806)	158.46	16.26
26 52 13 13-0014	EA	12 Watt, 12 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H1212)	157.87	16.26
26 52 13 13-0015	EA	12 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H1212)	135.67	16.26
26 52 13 13-0016	EA	12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206)	91.59	16.26

26 52 13 13-0017 Industrial Emergency Lights ^(26 52 13 13)

26 52 13 13-0018 Painted Steel Housing, Industrial Emergency Lights ^(26 52 13 13-0017)

26 52 13 13-0019 Painted Steel Housing, Industrial Emergency Lights ^(26 52 13 13-0018)

Note: Includes lead-calcium batteries and two adjustable lamp heads.

26 52 13 13-0020	EA	16 Max Wattage At 90 Minutes, 6 Volt, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT16)	406.21	27.10
		<i>For Wireguard, Add</i>	211.80	
26 52 13 13-0021	EA	24 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT24)	339.32	27.10
		<i>For Wireguard, Add</i>	211.80	
26 52 13 13-0022	EA	36 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT36)	534.79	27.10
		<i>For Wireguard, Add</i>	211.80	
26 52 13 13-0023	EA	50 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT50)	568.53	27.10
		<i>For Wireguard, Add</i>	211.80	
26 52 13 13-0024	EA	125 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT125)	815.93	27.10
		<i>For Wireguard, Add</i>	225.59	
26 52 13 13-0025	EA	275 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT275)	1,289.20	27.10
		<i>For Wireguard, Add</i>	225.59	

26 52 13 13-0026 Remote Heads For Painted Steel Housing, Industrial Emergency Lights ^(26 52 13 13-0018)

Note: For use with fixtures that have remote capability.



Electrical	26	26
Lighting	26 50	
Safety Lighting	26 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 13-0027 EA 8 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N0806).....	117.00	16.26
For Wireguard, Add	170.93	
26 52 13 13-0028 EA 12 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206).....	121.20	16.26
For Wireguard, Add	170.93	
26 52 13 13-0029 EA 8 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H0812)	117.58	16.26
For Wireguard, Add	170.93	
26 52 13 13-0030 EA 12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1212).....	118.27	16.26
For Wireguard, Add	170.93	
26 52 13 13-0031 EA 12 Watt, 25 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N2512).....	121.20	16.26
For Wireguard, Add	170.93	
26 52 13 13-0032 EA 12 Watt, 25 Volt, Aluminum Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA MT N2512).....	142.52	16.26
For Wireguard, Add	170.93	
26 52 13 13-0033 Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights <small>(26 52 13 13-0017)</small>		
26 52 13 13-0034 Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights <small>(26 52 13 13-0033)</small>		
Note: Includes lead-calcium batteries and two adjustable lamp heads.		
26 52 13 13-0035 EA 18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND618)	400.83	27.10
For Wireguard, Add	205.94	
For Self-Diagnostics, Add	105.50	
26 52 13 13-0036 EA 36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1236).....	436.52	27.10
For Wireguard, Add	205.94	
For Self-Diagnostics, Add	105.50	
26 52 13 13-0037 EA 54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND654).....	426.74	27.10
For Wireguard, Add	205.94	
For Self-Diagnostics, Add	105.50	
26 52 13 13-0038 EA 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1254).....	451.68	27.10
For Wireguard, Add	205.94	
For Self-Diagnostics, Add	105.50	
26 52 13 13-0039 EA 100 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND12100).....	767.52	27.10
For Wireguard, Add	205.94	
For Self-Diagnostics, Add	105.50	
26 52 13 13-0040 EA 18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX618).....	600.80	27.10
For Wireguard, Add	205.94	
For Self-Diagnostics, Add	61.50	
26 52 13 13-0041 EA 36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1236).....	674.14	27.10
For Wireguard, Add	205.94	
For Self-Diagnostics, Add	61.50	
26 52 13 13-0042 EA 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1254).....	711.30	27.10
For Wireguard, Add	205.94	
For Self-Diagnostics, Add	61.50	
26 52 13 13-0043 Remote Heads For Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights <small>(26 52 13 13-0033)</small>		
Note: For use with fixtures that have remote capability.		
26 52 13 13-0044 EA 9 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0906).....	100.86	16.26
26 52 13 13-0045 EA 12 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1206).....	109.37	16.26
26 52 13 13-0046 EA 9 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0912)	100.96	16.26
26 52 13 13-0047 EA 12 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1212).....	107.22	16.26
26 52 13 13-0048 EA 12 Watt, 20 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H2012).....	91.14	16.26
26 52 13 13-0049 Outdoor Emergency Lights <small>(26 52 13 13)</small>		
26 52 13 13-0050 Gasketed Die-Cast Aluminum Housing, Outdoor Emergency Lights <small>(26 52 13 13-0049)</small>		
Note: Includes nickel-cadmium batteries.		
26 52 13 13-0051 EA 10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light (Dual-Lite PG Series)	636.49	27.10
26 52 13 13-0052 EA 10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light With Heater (Dual-Lite PG Series).....	761.17	27.10

26 Electrical
26 50 Lighting
26 52 Safety Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 13-0053			Recessed Emergency Lights <small>(26 52 13 13)</small>		
26 52 13 13-0054	EA		10 Watt At 90 Minutes, 6 Volt, Halogen Lamp, 8" Round, Recessed High-Hat Emergency Light (Lithonia ELRG).....	694.80	27.10
			<i>For Wire Guard, Add</i>	60.00	
26 52 13 13-0055	EA		16 Max Wattage At 90 Minutes, 6 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR2).....	538.85	54.18
			Note: Includes lead-calcium batteries and two adjustable lamp heads.		
			<i>For Wireguard, Add</i>	225.59	
26 52 13 13-0056	EA		50 Max Wattage At 90 Minutes, 12 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR4).....	780.49	54.18
			Note: Includes lead-calcium batteries and two adjustable lamp heads.		
			<i>For Wireguard, Add</i>	225.59	
26 52 13 13-0057			Square Wraparound Emergency Lights <small>(26 52 13 13)</small>		
26 52 13 13-0058	EA		10 Max Wattage At 90 Minutes, 6 Volt, Halogen Lamp, 10-5/16" x 10-5/16" Lexan Frame, Square Wraparound Emergency Light (Lithonia ELSQ).....	313.69	27.10
26 52 13 16			Exit Signs <small>(26 52 13 16)</small>		
			Note: Excludes pendants.		
26 52 13 16-0001			LED Exit Signs <small>(26 52 13 16)</small>		
			Note: Includes red LED lamps.		
26 52 13 16-0002	EA		Single Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM-S-W-3-R-120/277-M6).....	178.24	39.61
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For >50 To 100, Deduct</i>	-6.44	
			<i>For >100 To 250, Deduct</i>	-10.89	
			<i>For >250 To 500, Deduct</i>	-17.82	
			<i>For >500, Deduct</i>	-24.76	
26 52 13 16-0003	EA		Double Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM-S-W-3-R-120/277-M6).....	178.24	39.61
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For >50 To 100, Deduct</i>	-6.44	
			<i>For >100 To 250, Deduct</i>	-10.89	
			<i>For >250 To 500, Deduct</i>	-17.82	
			<i>For >500, Deduct</i>	-24.76	
26 52 13 16-0004	EA		Single Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM-S-W-3-R-120/277-EL-N- M6).....	252.31	39.61
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For Self-Diagnostics, Add</i>	50.00	
			<i>For >50 To 100, Deduct</i>	-8.29	
			<i>For >100 To 250, Deduct</i>	-14.60	
			<i>For >250 To 500, Deduct</i>	-25.23	
			<i>For >500, Deduct</i>	-35.87	
26 52 13 16-0005	EA		Double Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM ELN).....	252.31	39.61
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For Self-Diagnostics, Add</i>	50.00	
			<i>For >50 To 100, Deduct</i>	-8.29	
			<i>For >100 To 250, Deduct</i>	-14.60	
			<i>For >250 To 500, Deduct</i>	-25.23	
			<i>For >500, Deduct</i>	-35.87	
26 52 13 16-0006	EA		Single Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC-W-1-R).....	278.77	39.61
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For >50 To 100, Deduct</i>	-8.95	
			<i>For >100 To 250, Deduct</i>	-15.92	
			<i>For >250 To 500, Deduct</i>	-27.88	
			<i>For >500, Deduct</i>	-39.83	
26 52 13 16-0007	EA		Double Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC-W-2-R).....	317.38	39.61
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For >50 To 100, Deduct</i>	-9.92	
			<i>For >100 To 250, Deduct</i>	-17.85	
			<i>For >250 To 500, Deduct</i>	-31.74	
			<i>For >500, Deduct</i>	-45.63	
26 52 13 16-0008	EA		Single Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC-W-1-R-EL-N).....	262.64	39.61
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For Self-Diagnostics, Add</i>	50.00	
			<i>For >50 To 100, Deduct</i>	-8.55	
			<i>For >100 To 250, Deduct</i>	-15.11	
			<i>For >250 To 500, Deduct</i>	-26.26	
			<i>For >500, Deduct</i>	-37.42	
26 52 13 16-0009	EA		Double Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC-W-2-R-EL-N).....	290.66	39.61
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For Self-Diagnostics, Add</i>	50.00	
			<i>For >50 To 100, Deduct</i>	-9.25	
			<i>For >100 To 250, Deduct</i>	-16.51	
			<i>For >250 To 500, Deduct</i>	-29.07	
			<i>For >500, Deduct</i>	-41.62	
26 52 13 16-0010	EA		Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM-S-W-3-R-M4).....	333.31	39.61
			Note: Includes two circular side mounted krypton emergency lights.		
			<i>For Green LED Lamps, Add</i>	15.00	
			<i>For >50 To 100, Deduct</i>	-11.04	
			<i>For >100 To 250, Deduct</i>	-19.38	
			<i>For >250 To 500, Deduct</i>	-33.33	
			<i>For >500, Deduct</i>	-47.29	



Electrical	26	26
Lighting	26 50	
Safety Lighting	26 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 16-0011	EA		Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM-LED-R-M6).....	291.45	39.61
			Note: Includes two circular side mounted LED emergency lights.		
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-10.00	
			For >100 To 250, Deduct	-17.28	
			For >250 To 500, Deduct	-29.15	
			For >500, Deduct	-41.01	
26 52 13 16-0012	EA		Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM-PH).....	420.97	39.61
			Note: Includes two rectangular front mounted high intensity tungsten emergency lights.		
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-13.23	
			For >100 To 250, Deduct	-23.76	
			For >250 To 500, Deduct	-42.10	
			For >500, Deduct	-60.44	
26 52 13 16-0013	EA		Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM).....	441.31	39.61
			Note: Includes two circular side mounted PAR 36 emergency lights.		
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-13.74	
			For >100 To 250, Deduct	-24.78	
			For >250 To 500, Deduct	-44.13	
			For >500, Deduct	-63.49	
26 52 13 16-0014	EA		Single Or Double Face, Polycarbonate Housing, LED Emergency Exit Sign (Eaton Lighting APX6R).....	115.86	39.61
			For >50 To 100, Deduct	-4.88	
			For >100 To 250, Deduct	-7.77	
			For >250 To 500, Deduct	-11.59	
			For >500, Deduct	-15.40	
26 52 13 16-0015	EA		120-277 Volt, LED Emergency Exit Sign With Nickel Cadmium Battery, Red (Cooper Industries APX7R).....	116.33	39.61
			For >50 To 100, Deduct	-4.89	
			For >100 To 250, Deduct	-7.80	
			For >250 To 500, Deduct	-11.63	
			For >500, Deduct	-15.47	
26 52 13 16-0016			Edge-Lit LED Exit Signs <small>(26 52 13 16)</small>		
			Note: Includes red LED lamps.		
26 52 13 16-0017	EA		Single Face, Edge-Lit LED Exit Sign (Lithonia EDG-1- R-M6).....	225.89	39.61
			For Green LED Lamps, Add	40.00	
			For >50 To 100, Deduct	-7.63	
			For >100 To 250, Deduct	-13.28	
			For >250 To 500, Deduct	-22.59	
			For >500, Deduct	-31.90	
26 52 13 16-0018	EA		Double Face, Edge-Lit LED Exit Sign (Lithonia EDG-2-R-M6).....	228.22	39.61
			For Green LED Lamps, Add	40.00	
			For >50 To 100, Deduct	-7.69	
			For >100 To 250, Deduct	-13.39	
			For >250 To 500, Deduct	-22.82	
			For >500, Deduct	-32.25	
26 52 13 16-0019	EA		Single Face, Edge-Lit LED Exit Sign With Battery Back-Up (Lithonia EDG-1-R-EL-M6).....	243.97	39.61
			For Green LED Lamps, Add	40.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-8.08	
			For >100 To 250, Deduct	-14.18	
			For >250 To 500, Deduct	-24.40	
			For >500, Deduct	-34.61	
26 52 13 16-0020	EA		Double Face, Edge-Lit LED Exit Sign With Battery Back-Up (Lithonia EDG-2-R-EL-M6).....	291.05	39.61
			For Green LED Lamps, Add	40.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-9.26	
			For >100 To 250, Deduct	-16.53	
			For >250 To 500, Deduct	-29.11	
			For >500, Deduct	-41.68	
26 52 13 16-0021			Self-Luminous Tritium Exit Signs <small>(26 52 13 16)</small>		
			Note: Includes red or green tritium filled pyrex glass light tubes with phosphor coating.		
26 52 13 16-0022	EA		10 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-S-10-R).....	536.86	39.61
			For >50 To 100, Deduct	-15.40	
			For >100 To 250, Deduct	-28.82	
			For >250 To 500, Deduct	-53.69	
			For >500, Deduct	-78.55	
26 52 13 16-0023	EA		10 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-D-10-R).....	994.01	39.61
			For >50 To 100, Deduct	-26.83	
			For >100 To 250, Deduct	-51.68	
			For >250 To 500, Deduct	-99.40	
			For >500, Deduct	-147.12	
26 52 13 16-0024	EA		20 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-S-20-R).....	641.00	39.61
			For >50 To 100, Deduct	-18.01	
			For >100 To 250, Deduct	-34.03	
			For >250 To 500, Deduct	-64.10	
			For >500, Deduct	-94.17	

26 Electrical
26 50 Lighting
26 52 Safety Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 16-0025	EA		20 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-D-20-R).....	1,077.61	39.61
			<i>For >50 To 100, Deduct</i>	-28.92	
			<i>For >100 To 250, Deduct</i>	-55.86	
			<i>For >250 To 500, Deduct</i>	-107.76	
			<i>For >500, Deduct</i>	-159.66	
26 52 13 16-0026	EA		10 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-01-10-R).....	588.69	39.61
			<i>For >50 To 100, Deduct</i>	-16.70	
			<i>For >100 To 250, Deduct</i>	-31.42	
			<i>For >250 To 500, Deduct</i>	-58.87	
			<i>For >500, Deduct</i>	-86.32	
26 52 13 16-0027	EA		10 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-07-10-R).....	1,077.61	39.61
			<i>For >50 To 100, Deduct</i>	-28.92	
			<i>For >100 To 250, Deduct</i>	-55.86	
			<i>For >250 To 500, Deduct</i>	-107.76	
			<i>For >500, Deduct</i>	-159.66	
26 52 13 16-0028	EA		20 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-01-20-R).....	724.12	39.61
			<i>For >50 To 100, Deduct</i>	-20.08	
			<i>For >100 To 250, Deduct</i>	-38.19	
			<i>For >250 To 500, Deduct</i>	-72.41	
			<i>For >500, Deduct</i>	-106.64	
26 52 13 16-0029	EA		20 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-07-20-R).....	1,339.68	39.61
			<i>For >50 To 100, Deduct</i>	-35.47	
			<i>For >100 To 250, Deduct</i>	-68.96	
			<i>For >250 To 500, Deduct</i>	-133.97	
			<i>For >500, Deduct</i>	-198.97	
26 52 13 16-0030			Vandal-Resistant LED Exit Signs <small>(26 52 13 16)</small>		
			Note: Includes red LED lamps.		
26 52 13 16-0031	EA		Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign (Lithonia LV-S-W-1-R-120/277).....	506.06	39.61
			<i>For >50 To 100, Deduct</i>	-14.63	
			<i>For >100 To 250, Deduct</i>	-27.28	
			<i>For >250 To 500, Deduct</i>	-50.61	
			<i>For >500, Deduct</i>	-73.93	
26 52 13 16-0032	EA		Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup (Lithonia LV-S-W-1-R-120/277-EL-N).....	789.15	39.61
			<i>For >50 To 100, Deduct</i>	-21.71	
			<i>For >100 To 250, Deduct</i>	-41.44	
			<i>For >250 To 500, Deduct</i>	-78.92	
			<i>For >500, Deduct</i>	-116.39	
26 52 13 16-0033	EA		Single Face, Aluminum Housing, NEMA 4X, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup (Lithonia LV-S-1-R-120/277-EL-N-UM-4X).....	962.72	39.61
			<i>For >50 To 100, Deduct</i>	-26.05	
			<i>For >100 To 250, Deduct</i>	-50.12	
			<i>For >250 To 500, Deduct</i>	-96.27	
			<i>For >500, Deduct</i>	-142.43	
26 52 13 16-0034			Removal And Reinstallation Of Exit Light Fixture <small>(26 52 13 16)</small>		
26 52 13 16-0035	EA		Removal And Reinstall Of Exit Light Fixtures.....	81.28	
			Note: Includes storage and cleaning.		
			<i>For >50 To 100, Deduct</i>	-4.06	
			<i>For >100 To 250, Deduct</i>	-6.10	
			<i>For >250 To 500, Deduct</i>	-8.13	
			<i>For >500, Deduct</i>	-10.16	
26 52 13 16-0036			Exit Sign Accessories <small>(26 52 13 16)</small>		
26 52 13 16-0037	EA		Polycarbonate Vandal Shield For Exit Signs (Radiant-Lite BG-1).....	119.47	10.86
			<i>For >50 To 100, Deduct</i>	-3.53	
			<i>For >100 To 250, Deduct</i>	-6.52	
			<i>For >250 To 500, Deduct</i>	-11.95	
			<i>For >500, Deduct</i>	-17.38	
26 52 13 16-0038	EA		Wire Guard For Exit Signs Or Emergency Lights (Best Lighting Products WG-1).....	68.93	10.86
			<i>For >50 To 100, Deduct</i>	-2.27	
			<i>For >100 To 250, Deduct</i>	-3.99	
			<i>For >250 To 500, Deduct</i>	-6.89	
			<i>For >500, Deduct</i>	-9.80	
26 52 13 16-0039	EA		Removal And Replacement Of Battery For Exit Signs.....	118.96	
			Note: Battery: nickel cadmium, 1.2 volt, 1 Ah battery capacity		
			<i>For >50 To 100, Deduct</i>	-3.65	
			<i>For >100 To 250, Deduct</i>	-6.63	
			<i>For >250 To 500, Deduct</i>	-11.90	
			<i>For >500, Deduct</i>	-17.17	

26 55 Special Purpose Lighting (26 55)

26 55 13 Landscape Lighting (26 55)

26 55 13 00-0001 **Bollards** (26 55 13)
 Note: Excludes concrete base.

26 55 13 00-0002 **Aluminum Architectural Bollards** (26 55 13 00-0001)



Electrical	26	26
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 13 00-0003 High Pressure Sodium, Aluminum Architectural Bollards <small>(26 55 13 00-0002)</small>		
26 55 13 00-0004 Square, High Pressure Sodium, Aluminum Architectural Bollards <small>(26 55 13 00-0003)</small>		
26 55 13 00-0005 EA 24" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,461.24	92.12
26 55 13 00-0006 EA 30" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,472.07	97.54
26 55 13 00-0007 EA 36" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,482.91	102.95
26 55 13 00-0008 EA 42" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,370.44	108.38
26 55 13 00-0009 EA 24" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,461.24	92.12
26 55 13 00-0010 EA 30" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,472.07	97.54
26 55 13 00-0011 EA 36" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,482.91	102.95
26 55 13 00-0012 EA 42" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,370.44	108.38
26 55 13 00-0013 EA 24" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,461.24	92.12
26 55 13 00-0014 EA 30" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,472.07	97.54
26 55 13 00-0015 EA 36" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,482.91	102.95
26 55 13 00-0016 EA 42" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,370.44	108.38
26 55 13 00-0017 EA 24" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,461.24	92.12
26 55 13 00-0018 EA 30" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,472.07	97.54
26 55 13 00-0019 EA 36" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,482.91	102.95
26 55 13 00-0020 EA 42" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,370.44	108.38
26 55 13 00-0021 Round, High Pressure Sodium, Aluminum Architectural Bollards <small>(26 55 13 00-0003)</small>		
26 55 13 00-0022 EA 24" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,404.62	92.12
26 55 13 00-0023 EA 30" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,415.45	97.54
26 55 13 00-0024 EA 36" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,426.29	102.95
26 55 13 00-0025 EA 42" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,313.30	108.38
26 55 13 00-0026 EA 24" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,404.62	92.12
26 55 13 00-0027 EA 30" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,415.45	97.54
26 55 13 00-0028 EA 36" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,426.29	102.95
26 55 13 00-0029 EA 42" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,313.30	108.38
26 55 13 00-0030 EA 24" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,404.62	92.12
26 55 13 00-0031 EA 30" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,415.45	97.54
26 55 13 00-0032 EA 36" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,426.29	102.95
26 55 13 00-0033 EA 42" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,313.30	108.38
26 55 13 00-0034 EA 24" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,404.62	92.12
26 55 13 00-0035 EA 30" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,415.45	97.54
26 55 13 00-0036 EA 36" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,426.29	102.95
26 55 13 00-0037 EA 42" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard.....	1,313.30	108.38
26 55 13 00-0038 Metal Halide, Aluminum Architectural Bollards <small>(26 55 13 00-0002)</small>		
26 55 13 00-0039 Square, Metal Halide, Aluminum Architectural Bollards <small>(26 55 13 00-0038)</small>		
26 55 13 00-0040 EA 24" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	1,534.77	92.12
26 55 13 00-0041 EA 30" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	1,545.60	97.54
26 55 13 00-0042 EA 36" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	1,556.44	102.95
26 55 13 00-0043 EA 42" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	1,443.45	108.38
26 55 13 00-0044 EA 24" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	1,534.77	92.12
26 55 13 00-0045 EA 30" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	1,545.60	97.54
26 55 13 00-0046 EA 36" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	1,556.44	102.95
26 55 13 00-0047 EA 42" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	1,443.45	108.38
26 55 13 00-0048 EA 24" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	1,534.77	92.12
26 55 13 00-0049 EA 30" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	1,545.60	97.54
26 55 13 00-0050 EA 36" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	1,556.44	102.95
26 55 13 00-0051 EA 42" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	1,504.98	108.38
26 55 13 00-0052 Round, Metal Halide, Aluminum Architectural Bollards <small>(26 55 13 00-0038)</small>		
26 55 13 00-0053 EA 24" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	1,477.63	92.12
26 55 13 00-0054 EA 30" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	1,488.46	97.54
26 55 13 00-0055 EA 36" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	1,499.30	102.95
26 55 13 00-0056 EA 42" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	1,386.31	108.38
26 55 13 00-0057 EA 24" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	1,477.63	92.12
26 55 13 00-0058 EA 30" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	1,488.46	97.54
26 55 13 00-0059 EA 36" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	1,499.30	102.95
26 55 13 00-0060 EA 42" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	1,386.31	108.38
26 55 13 00-0061 EA 24" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	1,477.63	92.12
26 55 13 00-0062 EA 30" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	1,488.46	97.54
26 55 13 00-0063 EA 36" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	1,499.30	102.95
26 55 13 00-0064 EA 42" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	1,386.31	108.38
26 55 13 00-0065 Compact Fluorescent, Aluminum Architectural Bollards <small>(26 55 13 00-0002)</small>		
26 55 13 00-0066 Square, Compact Fluorescent, Aluminum Architectural Bollards <small>(26 55 13 00-0065)</small>		
26 55 13 00-0067 EA 24" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,454.80	92.12
26 55 13 00-0068 EA 30" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,465.63	97.54
26 55 13 00-0069 EA 36" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,476.47	102.95
26 55 13 00-0070 EA 42" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,365.15	108.38
26 55 13 00-0071 EA 24" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,454.80	92.12



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 13 00-0072 EA 30" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,465.63	97.54
26 55 13 00-0073 EA 36" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,476.47	102.95
26 55 13 00-0074 EA 42" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,365.15	108.38
26 55 13 00-0075 EA 24" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,454.80	92.12
26 55 13 00-0076 EA 30" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,465.63	97.54
26 55 13 00-0077 EA 36" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,476.47	102.95
26 55 13 00-0078 EA 42" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,365.15	108.38
26 55 13 00-0079 Round, Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0065)		
26 55 13 00-0080 EA 24" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,398.90	92.12
26 55 13 00-0081 EA 30" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,409.73	97.54
26 55 13 00-0082 EA 36" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,420.57	102.95
26 55 13 00-0083 EA 42" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,310.33	108.38
26 55 13 00-0084 EA 24" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,398.90	92.12
26 55 13 00-0085 EA 30" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,409.73	97.54
26 55 13 00-0086 EA 36" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,420.57	102.95
26 55 13 00-0087 EA 42" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,310.33	108.38
26 55 13 00-0088 EA 24" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,398.90	92.12
26 55 13 00-0089 EA 30" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,409.73	97.54
26 55 13 00-0090 EA 36" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,420.57	102.95
26 55 13 00-0091 EA 42" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,310.33	108.38
26 55 13 00-0092 LED, Aluminum Architectural Bollards (26 55 13 00-0002)		
26 55 13 00-0093 Square, LED, Aluminum Architectural Bollards (26 55 13 00-0092)		
26 55 13 00-0094 EA 24" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard.....	1,745.02	92.12
26 55 13 00-0095 EA 30" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard.....	1,755.85	97.54
26 55 13 00-0096 EA 36" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard.....	1,766.69	102.95
26 55 13 00-0097 EA 42" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard.....	1,656.93	108.38
26 55 13 00-0098 EA 24" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard.....	2,134.14	92.12
26 55 13 00-0099 EA 30" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard.....	2,144.97	97.54
26 55 13 00-0100 EA 36" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard.....	2,155.81	102.95
26 55 13 00-0101 EA 42" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard.....	2,044.11	108.38
26 55 13 00-0102 Round, LED, Aluminum Architectural Bollards (26 55 13 00-0092)		
26 55 13 00-0103 EA 24" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,686.98	92.12
26 55 13 00-0104 EA 30" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,697.81	97.54
26 55 13 00-0105 EA 36" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,708.65	102.95
26 55 13 00-0106 EA 42" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,596.95	108.38
26 55 13 00-0107 EA 24" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	2,076.10	92.12
26 55 13 00-0108 EA 30" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	2,086.93	97.54
26 55 13 00-0109 EA 36" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	2,097.77	102.95
26 55 13 00-0110 EA 42" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	1,986.76	108.38
26 55 13 00-0111 Reinforced Concrete Bollards (26 55 13 00-0001)		
26 55 13 00-0112 EA 48" Overall Height, 12" Diameter, LED Light, Reinforced Concrete Bollard.....	1,417.97	270.94
26 55 13 00-0113 EA 58" Overall Height, 18" Diameter, High Intensity Discharge (HID) Light, Reinforced Concrete Bollard.....	2,511.69	361.21
26 55 13 00-0114 Low Voltage (26 55 13)		
26 55 13 00-0115 EA Low Voltage Recessed Uplight.....	661.59	197.24
26 55 13 00-0116 EA Low Voltage Walkway.....	457.58	108.38
26 55 13 00-0117 EA Low Voltage Malibu - 5 Light Set.....	464.52	144.68
26 55 13 00-0118 EA Low Voltage Mushroom 24" Pier.....	396.28	108.38
26 55 13 00-0119 Recessed, Adjustable (26 55 13)		
26 55 13 00-0120 EA 150 Watt Incandescent Recessed, Adjustable.....	754.00	173.40
26 55 13 00-0121 EA 300 Watt Incandescent Recessed, Adjustable.....	819.68	173.40
26 55 13 00-0122 Recessed, Uplight (26 55 13)		
26 55 13 00-0123 EA 50 Watt Incandescent Recessed Uplight.....	679.56	173.40
26 55 13 00-0124 EA 150 Watt Incandescent Recessed Uplight.....	692.70	173.40
26 55 13 00-0125 EA 300 Watt Incandescent Recessed Uplight.....	732.10	173.40
26 55 13 00-0126 EA 500 Watt Quartz Recessed Uplight.....	727.72	173.40
26 55 13 00-0127 EA 5 Watt, LED Recessed Uplight.....	1,056.92	173.40
26 55 13 00-0128 EA 15 Watt, LED Recessed Uplight.....	1,165.29	173.40
26 55 13 00-0129 Recessed Wall Light (26 55 13)		
26 55 13 00-0130 EA 100 Watt Incandescent Recessed Wall Light.....	356.87	108.38
26 55 13 00-0131 EA 100 Watt Fluorescent Recessed Wall Light.....	343.73	108.38
26 55 13 00-0132 EA 100 Watt High Intensity Discharge (HID) Recessed Wall Light.....	547.71	144.68



Electrical	26	26
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 13 00-0133 Step Lights <small>(26 55 13)</small>		
26 55 13 00-0134 EA Incandescent Step Light	291.56	86.69
26 55 13 00-0135 EA Fluorescent Step Light	335.41	86.69
26 55 13 00-0136 EA 5 Watt, LED Step Light	581.63	86.69
26 55 13 00-0137 EA 15 Watt, LED Step Light	697.23	86.69
26 55 13 00-0138 Tree Lights, Surface Adjustable <small>(26 55 13)</small>		
26 55 13 00-0139 EA 50 Watt Incandescent Tree Lights	604.63	144.68
26 55 13 00-0140 EA 100 Watt Incandescent Tree Lights	617.77	144.68
26 55 13 00-0141 EA 150 Watt Incandescent Tree Lights	783.78	216.75
26 55 16 Walkway Lighting <small>(26 55)</small>		
26 55 16 00-0001 Incandescent Walkway <small>(26 55 16)</small>		
26 55 16 00-0002 EA Post Top 300 Watt Incandescent Walkway Fixture	374.44	100.79
26 55 16 00-0003 Metal Halide Walkway <small>(26 55 16)</small>		
26 55 16 00-0004 EA Post Top 100 Watt Metal Halide Walkway Fixture	575.85	158.44
26 55 16 00-0005 EA Post Top 150-175 Watt Metal Halide Walkway Fixture	609.90	164.19
26 55 16 00-0006 EA Post Top 250 Watt Metal Halide Walkway Fixture	657.85	170.47
26 55 16 00-0007 EA Post Top 400 Watt Metal Halide Walkway Fixture	704.45	184.24
26 55 16 00-0008 EA Round Luminaries 100 Watt Metal Halide Walkway Fixture	627.66	170.47
26 55 16 00-0009 EA Round Luminaries 150-175 Watt Metal Halide Walkway Fixture	633.93	158.44
26 55 16 00-0010 EA Round Luminaries 250 Watt Metal Halide Walkway Fixture	646.15	164.19
26 55 16 00-0011 EA Spherical 100 Watt Metal Halide Walkway Fixture	512.64	112.93
26 55 16 00-0012 EA Spherical 150-175 Watt Metal Halide Walkway Fixture	542.84	112.93
26 55 16 00-0013 EA Spherical 250 Watt Metal Halide Walkway Fixture	573.04	112.93
26 55 16 00-0014 EA Spherical 400 Watt Metal Halide Walkway Fixture	646.95	127.12
26 55 16 00-0015 EA Low Walkway 100 Watt Metal Halide Walkway Fixture	489.81	101.44
26 55 16 00-0016 High Pressure Sodium Walkway <small>(26 55 16)</small>		
26 55 16 00-0017 EA Post Top 100 Watt High Pressure Sodium Walkway Fixture	519.20	158.44
26 55 16 00-0018 EA Post Top 150-175 Watt High Pressure Sodium Walkway Fixture	548.32	164.19
26 55 16 00-0019 EA Post Top 250 Watt High Pressure Sodium Walkway Fixture	588.50	170.47
26 55 16 00-0020 EA Post Top 400 Watt High Pressure Sodium Walkway Fixture	630.99	184.24
26 55 16 00-0021 EA Round Luminaries 100 Watt High Pressure Sodium Walkway Fixture	564.91	170.47
26 55 16 00-0022 EA Round Luminaries 150-175 Watt High Pressure Sodium Walkway Fixture	564.58	158.44
26 55 16 00-0023 EA Round Luminaries 250 Watt High Pressure Sodium Walkway Fixture	576.64	164.19
26 55 16 00-0024 EA Spherical 100 Watt High Pressure Sodium Walkway Fixture	449.89	112.93
26 55 16 00-0025 EA Spherical 175 150-Watt High Pressure Sodium Walkway Fixture	473.48	112.93
26 55 16 00-0026 EA Spherical 250 Watt High Pressure Sodium Walkway Fixture	497.07	112.93
26 55 16 00-0027 EA Spherical 400 Watt High Pressure Sodium Walkway Fixture	561.08	127.12
26 55 16 00-0028 EA Low Walkway 100 Watt High Pressure Sodium Walkway Fixture	408.16	101.44
26 55 16 00-0029 Walkway, Adjustable <small>(26 55 16)</small>		
26 55 16 00-0030 EA 2' Fluorescent Adjustable Walkway Fixture	542.64	144.68
26 55 16 00-0031 EA 4' Fluorescent Adjustable Walkway Fixture	557.54	144.68
26 55 16 00-0032 EA 8' Fluorescent Adjustable Walkway Fixture	959.89	216.75
26 55 16 00-0033 EA 50 Watt Incandescent Adjustable Walkway Fixture	455.12	108.38
26 55 16 00-0034 EA 150 Watt Incandescent Adjustable Walkway Fixture	474.98	108.38
26 55 16 00-0035 LED Walkway <small>(26 55 16)</small>		
26 55 16 00-0036 LED Pathway Fixtures (CREE® BetaLED® Edge® PWY-EDG) <small>(26 55 16 00-0035)</small>		
Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 16 00-0037 EA 13" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	767.83	83.17
<i>For Multi-Level Drive Currents, Add</i>		199.30
26 55 16 00-0038 EA 18" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	792.03	83.17
<i>For Multi-Level Drive Currents, Add</i>		199.30
26 55 16 00-0039 EA 36" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	834.74	83.17
<i>For Multi-Level Drive Currents, Add</i>		199.30
26 55 16 00-0040 EA 42" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	867.48	83.17
<i>For Multi-Level Drive Currents, Add</i>		199.30
26 55 16 00-0041 EA 96" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	999.62	106.92
<i>For Multi-Level Drive Currents, Add</i>		199.30
26 55 16 00-0042 Wall Mounted Walkway Lighting <small>(26 55 16 00-0035)</small>		
26 55 16 00-0043 EA Wall Mounted Lantern With LED Kit, No. PDEX-Bracket (Herwig P-492)	4,135.05	
Note: Type Fixture 17 as Post		
26 55 16 00-0044 Pole Mounted Walkway Lighting <small>(26 55 16 00-0035)</small>		

26	Electrical
26 50	Lighting
26 55	Special Purpose Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 16 00-0045 EA 43-1/2" Height x 19" Diameter, LED Post Lantern (Herwig AP-27).....	3,825.72	
26 55 16 00-0046 EA 12' Tapered and Fluted Post (Herwig BRA Series, BRAJ-12).....	3,755.95	
Note: Washers and nuts included		
26 55 29 Underwater Lighting (26 55)		
26 55 29 00-0001 Underwater Lights (26 55 29)		
26 55 29 00-0002 EA 150 Watt, 120 Volt Underwater Lights	481.31	72.07
26 55 29 00-0003 EA 300 Watt, 120 Volt Underwater Lights	533.85	72.07
26 55 29 00-0004 EA 1,000 Watt, 120 Volt Underwater Lights	1,289.53	108.38
26 55 29 00-0005 EA 50 Watt, 12 Volt Underwater Lights	503.20	72.07
26 55 29 00-0006 EA 300 Watt, 12 Volt Underwater Lights	564.50	72.07
26 55 29 00-0007 SET Under Water Fountain Fixture, Set Of 6, 300 Watt, Incandescent	1,441.40	162.56
26 55 53 Security Lighting (26 55)		
26 55 53 11 Security Flood Lighting (26 55 53)		
26 55 53 11-0001 General Electric Powerflood® Flood Lights (26 55 53 11)		
26 55 53 11-0002 MPF (Small Size) Series GE Flood Lights (26 55 53 11-0001)		
Note: For perimeters, entrances, building facades and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. 1/2" threaded mounting knuckle.		
26 55 53 11-0003 High Pressure Sodium MPF Series GE Flood Lights (26 55 53 11-0002)		
26 55 53 11-0004 EA 70 Watt High Pressure Sodium MPF Series GE Flood Light	349.88	94.71
26 55 53 11-0005 EA 100 Watt High Pressure Sodium MPF Series GE Flood Light	353.08	94.71
26 55 53 11-0006 EA 150 Watt High Pressure Sodium MPF Series GE Flood Light	358.43	94.71
26 55 53 11-0007 Metal Halide MPF Series GE Flood Lights (26 55 53 11-0002)		
26 55 53 11-0008 EA 70 Watt Metal Halide MPF Series GE Flood Light	477.17	94.71
26 55 53 11-0009 P-154 (Small Size) Series GE Flood Lights (26 55 53 11-0001)		
Note: For parking lots, building security, building facades, recreation areas and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0010 High Pressure Sodium P-154 Series GE Flood Lights (26 55 53 11-0009)		
26 55 53 11-0011 EA 70 Watt High Pressure Sodium P-154 Series GE Flood Light	713.60	126.28
26 55 53 11-0012 EA 100 Watt High Pressure Sodium P-154 Series GE Flood Light	717.88	126.28
26 55 53 11-0013 EA 150 Watt High Pressure Sodium P-154 Series GE Flood Light	725.37	126.28
26 55 53 11-0014 EA 250 Watt High Pressure Sodium P-154 Series GE Flood Light	809.87	126.28
26 55 53 11-0015 EA 400 Watt High Pressure Sodium P-154 Series GE Flood Light	834.48	126.28
26 55 53 11-0016 Metal Halide P-154 Series GE Flood Lights (26 55 53 11-0009)		
26 55 53 11-0017 EA 175 Watt Metal Halide P-154 Series GE Flood Light	706.11	126.28
26 55 53 11-0018 EA 250 Watt Metal Halide P-154 Series GE Flood Light	743.55	126.28
26 55 53 11-0019 EA 400 Watt Metal Halide P-154 Series GE Flood Light	762.81	126.28
26 55 53 11-0020 PF-154 (Medium Size) Series GE Flood Lights (26 55 53 11-0001)		
Note: For parking lots, building security and building facades. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0021 High Pressure Sodium PF-154 Series GE Flood Lights (26 55 53 11-0020)		
26 55 53 11-0022 EA 70 Watt High Pressure Sodium PF-154 Series GE Flood Light	726.99	142.06
26 55 53 11-0023 EA 100 Watt High Pressure Sodium PF-154 Series GE Flood Light	732.33	142.06
26 55 53 11-0024 EA 150 Watt High Pressure Sodium PF-154 Series GE Flood Light	740.89	142.06
26 55 53 11-0025 EA 250 Watt High Pressure Sodium PF-154 Series GE Flood Light	824.33	142.06
26 55 53 11-0026 EA 400 Watt High Pressure Sodium PF-154 Series GE Flood Light	847.86	142.06
26 55 53 11-0027 Metal Halide PF-154 GE Flood Lights (26 55 53 11-0020)		
26 55 53 11-0028 EA 175 Watt Metal Halide PF-154 Series GE Flood Light	720.57	142.06
26 55 53 11-0029 EA 250 Watt Metal Halide PF-154 Series GE Flood Light	756.94	142.06
26 55 53 11-0030 EA 400 Watt Metal Halide PF-154 Series GE Flood Light	776.19	142.06
26 55 53 11-0031 PF-400 (Medium Size) Series GE Flood Lights (26 55 53 11-0001)		
Note: For parking lots, building security, building facades, shipping yards and rail yards. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0032 High Pressure Sodium PF-400 Series GE Flood Lights (26 55 53 11-0031)		
26 55 53 11-0033 EA 150 Watt High Pressure Sodium PF-400 Series GE Flood Light	979.43	142.06
26 55 53 11-0034 EA 200 Watt High Pressure Sodium PF-400 Series GE Flood Light	1,054.31	142.06



Electrical	26	26
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0035 EA 250 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	1,048.97	142.06
26 55 53 11-0036 EA 400 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	1,075.71	142.06
26 55 53 11-0037 Metal Halide PF-400 GE Flood Lights (26 55 53 11-0031)		
26 55 53 11-0038 EA 175 Watt Metal Halide PF-400 Series GE Flood Light.....	1,007.25	142.06
26 55 53 11-0039 EA 250 Watt Metal Halide PF-400 Series GE Flood Light.....	1,029.71	142.06
26 55 53 11-0040 EA 400 Watt Metal Halide PF-400 Series GE Flood Light.....	1,053.24	142.06
26 55 53 11-0041 PF-1000 (Large Size) Series GE Flood Lights (26 55 53 11-0001)		
Note: For parking lots, industrial yards and sports stadiums. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0042 High Pressure Sodium PF-154 Series GE Flood Lights (26 55 53 11-0041)		
26 55 53 11-0043 EA 750 Watt High Pressure Sodium PF-1000 Series GE Flood Light.....	1,330.85	157.85
26 55 53 11-0044 EA 1,000 Watt High Pressure Sodium PF-1000 Series GE Flood Light.....	1,330.85	157.85
26 55 53 11-0045 Metal Halide PF-1000 Series GE Flood Lights (26 55 53 11-0041)		
26 55 53 11-0046 EA 1,000 Watt Metal Halide PF-1000 Series GE Flood Light.....	1,268.80	157.85
26 55 53 11-0047 HLU/VLU (Medium Size) FRP Series GE Flood Lights (26 55 53 11-0001)		
Note: For parking lots, industrial yards, construction sites, recreation areas and facades. Includes corrosion resistant reinforced polyester housing and thermal shock resistant lens. Hydroformed aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0048 High Pressure Sodium HLU/VLU FRP Series GE Flood Lights (26 55 53 11-0047)		
26 55 53 11-0049 EA 250 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light.....	1,082.13	142.06
26 55 53 11-0050 EA 400 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light.....	1,102.45	142.06
26 55 53 11-0051 Metal Halide HLU/VLU Series GE Flood Lights (26 55 53 11-0047)		
26 55 53 11-0052 EA 400 Watt Metal Halide HLU/VLU FRP Series GE Flood Light.....	1,093.89	142.06
26 55 53 11-0053 Accessories For Powerflood GE Flood Lights (26 55 53 11-0001)		
26 55 53 11-0054 EA Wireguard For Powerflood GE Flood Light.....	186.16	31.57
26 55 53 11-0055 EA Polycarbonate Vandal Shield For Powerflood GE Flood Light.....	107.00	31.57
26 55 53 11-0056 EA Top Visor For Powerflood Flood Light.....	156.20	31.57
26 55 53 11-0057 EA Top And Two Side Visors For Powerflood GE Flood Light.....	118.76	31.57
26 55 53 11-0058 EA Pipe Wall Mounting Bracket For Powerflood GE Flood Light.....	298.53	94.71
26 55 53 11-0059 EA Multiple Mounting Channel For Powerflood GE Flood Light.....	130.53	31.57
26 55 53 11-0060 EA Wall Or Flat Surface Bracket For Powerflood GE Flood Light.....	218.30	94.71
26 55 53 11-0061 EA Steel Angle Bracket For Powerflood GE Flood Light.....	227.93	94.71
26 55 53 11-0062 EA Cross Arm Adaptor For Powerflood GE Flood Light.....	97.37	31.57
26 55 53 11-0063 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Powerflood GE Flood Light.....	94.16	31.57
26 55 53 11-0064 Lithonia Contour Series Flood Lights (26 55 53 11)		
26 55 53 11-0065 TFM (Small Size) Series Lithonia Flood Lights (26 55 53 11-0064)		
Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Faceted parabolic optics. 1/2" threaded mounting knuckle.		
26 55 53 11-0066 High Pressure Sodium TFM Series Lithonia Flood Lights (26 55 53 11-0065)		
26 55 53 11-0067 EA 70 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	656.65	126.28
26 55 53 11-0068 EA 100 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	718.41	126.28
26 55 53 11-0069 EA 150 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	778.90	126.28
26 55 53 11-0070 Metal Halide TFM Series Lithonia Flood Lights (26 55 53 11-0065)		
26 55 53 11-0071 EA 50 Watt Metal Halide TFM Series Lithonia Flood Light.....	854.37	126.28
26 55 53 11-0072 EA 70 Watt Metal Halide TFM Series Lithonia Flood Light.....	839.50	126.28
26 55 53 11-0073 EA 100 Watt Metal Halide TFM Series Lithonia Flood Light.....	815.54	126.28
26 55 53 11-0074 EA 175 Watt Metal Halide TFM Series Lithonia Flood Light.....	813.77	126.28
26 55 53 11-0075 Compact Fluorescent TFM Series Lithonia Flood Lights (26 55 53 11-0065)		
26 55 53 11-0076 EA 42 Watt Compact Fluorescent TFM Series Lithonia Flood Light.....	848.21	126.28
26 55 53 11-0077 TFL (Medium Size) Series Lithonia Flood Lights (26 55 53 11-0064)		
Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0078 High Pressure Sodium TFL Series Lithonia Flood Lights (26 55 53 11-0077)		
26 55 53 11-0079 EA 250 Watt High Pressure Sodium TFL Series Lithonia Flood Light.....	1,010.07	142.06

26	Electrical
26 50	Lighting
26 55	Special Purpose Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0080 EA 400 Watt High Pressure Sodium TFL Series Lithonia Flood Light.....	1,030.67	142.06
26 55 53 11-0081 Metal Halide TFL Series Lithonia Flood Lights (26 55 53 11-0077)		
26 55 53 11-0082 EA 175 Watt Metal Halide TFL Series Lithonia Flood Light.....	963.77	142.06
26 55 53 11-0083 EA 250 Watt Metal Halide TFL Series Lithonia Flood Light.....	963.77	142.06
26 55 53 11-0084 EA 400 Watt Metal Halide TFL Series Lithonia Flood Light.....	996.08	142.06
26 55 53 11-0085 TFR (Low Profile) Series Lithonia Flood Lights (26 55 53 11-0064)		
Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0086 High Pressure Sodium TFR Lithonia Flood Lights (26 55 53 11-0085)		
26 55 53 11-0087 EA 150 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light.....	968.23	126.28
26 55 53 11-0088 EA 250 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light.....	999.06	126.28
26 55 53 11-0089 EA 400 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light.....	1,024.82	126.28
26 55 53 11-0090 Metal Halide TFR Lithonia Flood Lights (26 55 53 11-0085)		
26 55 53 11-0091 EA 250 Watt Metal Halide TFR Series Lithonia Flood Light.....	957.92	126.28
26 55 53 11-0092 EA 400 Watt Metal Halide TFR Series Lithonia Flood Light.....	988.79	126.28
26 55 53 11-0093 TFA (Large Size) Series Lithonia Flood Lights (26 55 53 11-0064)		
Note: For industrial yards, parking lots, construction sites, streets and recreational areas. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0094 High Pressure Sodium TFA Series Lithonia Flood Lights (26 55 53 11-0093)		
26 55 53 11-0095 EA 1,000 Watt High Pressure Sodium TFA Series Lithonia Flood Light.....	1,885.76	157.85
26 55 53 11-0096 Metal Halide TFA Series Lithonia Flood Lights (26 55 53 11-0093)		
26 55 53 11-0097 EA 400 Watt Metal Halide TFA Series Lithonia Flood Light.....	1,448.19	157.85
26 55 53 11-0098 EA 1,000 Watt Metal Halide TFA Series Lithonia Flood Light.....	1,602.61	157.85
26 55 53 11-0099 Accessories For Contour Series Lithonia Flood Lights (26 55 53 11-0064)		
26 55 53 11-0100 EA Wireguard For Contour Series Lithonia Flood Light.....	160.20	31.57
26 55 53 11-0101 EA Vandal Guard For Contour Series Lithonia Flood Light.....	311.78	31.57
26 55 53 11-0102 EA Upper Visor For Contour Series Lithonia Flood Light.....	131.60	31.57
26 55 53 11-0103 EA Full Visor For Contour Series Lithonia Flood Light.....	177.92	31.57
26 55 53 11-0104 EA Pipe Wall Mounting Bracket For Contour Series Lithonia Flood Light.....	395.29	94.71
26 55 53 11-0105 EA Radius Wall Bracket For Contour Series Lithonia Flood Light.....	313.33	94.71
26 55 53 11-0106 EA Steel Angle Bracket For Contour Series Lithonia Flood Light.....	313.33	94.71
26 55 53 11-0107 EA U Bolt Wall Bracket For Contour Series Lithonia Flood Light, Mounts To 2" Pipe.....	346.02	94.71
26 55 53 11-0108 EA Crossarm Adapter For Horizontal Mounted Contour Lithonia Series Flood Light.....	153.17	31.57
26 55 53 11-0109 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Contour Lithonia Series Flood Light.....	121.76	31.57
26 55 53 11-0110 Eaton Flood Lights (26 55 53 11)		
26 55 53 11-0111 EA 6" x 6", 16,932 Lumens, 128 Watt, LED Flood Light (Eaton NFFLD-C40-D-UNV-66-T-CB).....	1,038.10	126.28
For NEMA Photocontrol Option (Eaton OA/RA1016), Add		55.43
For >50 To 100, Deduct		-32.27
For >100 To 250, Deduct		-58.22
For >250 To 500, Deduct		-103.81
For >500, Deduct		-149.40
26 55 53 11-0112 EA 16,900 Lumens, 128 Watt, NEMA 6H x 6V Wide, Trunnion Mount, 4000K CCT, Night Falcon LED Flood Light With Multi-Tap (Cooper Industries NFFLD-C40-D-UNV-66-T-CB-PER7+OA/RA1016).....	1,288.77	137.50
For >50 To 100, Deduct		-39.09
For >100 To 250, Deduct		-71.31
For >250 To 500, Deduct		-128.88
For >500, Deduct		-186.44
26 55 53 11-0113 Ruud Flood Lights (26 55 53 11)		
26 55 53 11-0114 NS (Micro) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: Provides conventional floodlighting. 1/2" threaded mounting knuckle.		
26 55 53 11-0115 High Pressure Sodium NS Series Ruud Flood Lights (26 55 53 11-0114)		
26 55 53 11-0116 EA 35 Watt High Pressure Sodium NS Series Ruud Flood Light.....	431.17	94.71
26 55 53 11-0117 EA 50 Watt High Pressure Sodium NS Series Ruud Flood Light.....	431.17	94.71
26 55 53 11-0118 EA 70 Watt High Pressure Sodium NS Series Ruud Flood Light.....	431.17	94.71
26 55 53 11-0119 EA 100 Watt High Pressure Sodium NS Series Ruud Flood Light.....	431.17	94.71
26 55 53 11-0120 EA 150 Watt High Pressure Sodium NS Series Ruud Flood Light.....	431.17	94.71
26 55 53 11-0121 Metal Halide NS Series Ruud Flood Lights (26 55 53 11-0114)		
26 55 53 11-0122 EA 50 Watt Metal Halide NS Series Ruud Flood Light.....	491.08	94.71



Electrical	26	26
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0123 EA 70 Watt Metal Halide NS Series Ruud Flood Light	491.08	94.71
26 55 53 11-0124 EA 100 Watt Metal Halide NS Series Ruud Flood Light	491.08	94.71
26 55 53 11-0125 Compact Fluorescent NS Series Ruud Flood Lights (26 55 53 11-0114)		
26 55 53 11-0126 EA 13 Watt Compact Fluorescent NS Series Ruud Flood Light	369.13	94.71
26 55 53 11-0127 EA 26 Watt Compact Fluorescent NS Series Ruud Flood Light	384.11	94.71
26 55 53 11-0128 EA 32 Watt Compact Fluorescent NS Series Ruud Flood Light	388.38	94.71
26 55 53 11-0129 EA 42 Watt Compact Fluorescent NS Series Ruud Flood Light	392.66	94.71
26 55 53 11-0130 NSF/NSW/NSC (Standard, Wide And Cutoff Micro) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: The NSF is suited for large open areas and façade applications. The NSW is suited for roadway applications, parking areas or security. The NSC is designed for parking lot and outdoor sports areas. Yoke or slip fitter mounting.		
26 55 53 11-0131 High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Lights (26 55 53 11-0130)		
26 55 53 11-0132 EA 150 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light	664.94	142.06
26 55 53 11-0137 EA 250 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light	703.45	142.06
26 55 53 11-0134 EA 400 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light	724.85	142.06
26 55 53 11-0135 Metal Halide NSF/NSW/NSC Series Ruud Flood Lights (26 55 53 11-0130)		
26 55 53 11-0136 EA 175 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light	656.39	142.06
26 55 53 11-0137 EA 250 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light	660.66	142.06
26 55 53 11-0138 EA 400 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light	673.50	142.06
26 55 53 11-0139 Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Lights (26 55 53 11-0130)		
26 55 53 11-0140 EA 70 Watt Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Light	641.41	142.06
26 55 53 11-0141 FS (Square) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.		
26 55 53 11-0142 High Pressure Sodium FS Series Ruud Flood Lights (26 55 53 11-0141)		
26 55 53 11-0143 EA 250 Watt High Pressure Sodium FS Series Ruud Flood Light	778.33	142.06
26 55 53 11-0144 EA 400 Watt High Pressure Sodium FS Series Ruud Flood Light	782.61	142.06
26 55 53 11-0145 EA 1,000 Watt High Pressure Sodium FS Series Ruud Flood Light	1,331.92	157.85
26 55 53 11-0146 Metal Halide FS Series Ruud Flood Lights (26 55 53 11-0141)		
26 55 53 11-0147 EA 175 Watt Metal Halide FS Series Ruud Flood Light	778.33	142.06
26 55 53 11-0148 EA 250 Watt Metal Halide FS Series Ruud Flood Light	782.61	142.06
26 55 53 11-0149 EA 400 Watt Metal Halide FS Series Ruud Flood Light	795.45	142.06
26 55 53 11-0150 EA 1,000 Watt Metal Halide FS Series Ruud Flood Light	1,190.71	157.85
26 55 53 11-0151 MFS (Mini Square) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.		
26 55 53 11-0152 High Pressure Sodium MFS Series Ruud Flood Lights (26 55 53 11-0151)		
26 55 53 11-0153 EA 35 Watt High Pressure Sodium MFS Series Ruud Flood Light	609.84	126.28
26 55 53 11-0154 EA 50 Watt High Pressure Sodium MFS Series Ruud Flood Light	654.77	126.28
26 55 53 11-0155 EA 70 Watt High Pressure Sodium MFS Series Ruud Flood Light	654.77	126.28
26 55 53 11-0156 EA 100 Watt High Pressure Sodium MFS Series Ruud Flood Light	654.77	126.28
26 55 53 11-0157 EA 150 Watt High Pressure Sodium MFS Series Ruud Flood Light	654.77	126.28
26 55 53 11-0158 Metal Halide MFS Series Ruud Flood Lights (26 55 53 11-0151)		
26 55 53 11-0159 EA 50 Watt Metal Halide MFS Series Ruud Flood Light	669.74	126.28
26 55 53 11-0160 EA 70 Watt Metal Halide MFS Series Ruud Flood Light	669.74	126.28
26 55 53 11-0161 EA 100 Watt Metal Halide MFS Series Ruud Flood Light	669.74	126.28
26 55 53 11-0162 EA 175 Watt Metal Halide MFS Series Ruud Flood Light	646.21	126.28
26 55 53 11-0163 MCF/MPM/MPN (Mini Cutoff. Parabolic Medium And Narrow Mini Square) Series Ruud Flood Lights (26 55 53 11-0113)		
Note: The MCF is suited for parking lots, volleyball courts and tennis courts. The MPM and MPN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.		
26 55 53 11-0164 High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Lights (26 55 53 11-0163)		
26 55 53 11-0165 EA 35 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	663.32	126.28
26 55 53 11-0166 EA 50 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	708.25	126.28
26 55 53 11-0167 EA 70 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	708.25	126.28
26 55 53 11-0168 EA 100 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	708.25	126.28
26 55 53 11-0169 EA 150 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	708.25	126.28
26 55 53 11-0170 Metal Halide MCF/MPM/MPN Series Ruud Flood Lights (26 55 53 11-0163)		

26	Electrical
26 50	Lighting
26 55	Special Purpose Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0171 EA 50 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	723.23	126.28
26 55 53 11-0172 EA 70 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	723.23	126.28
26 55 53 11-0173 EA 100 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	723.23	126.28
26 55 53 11-0174 EA 175 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	699.69	126.28
26 55 53 11-0175 CF (Cutoff Square) Series Ruud Flood Lights <small>(26 55 53 11-0113)</small>		
Note: The CF is suited for parking lots, volleyball courts and tennis courts. Yoke or slip fitter mounting.		
26 55 53 11-0176 High Pressure Sodium CF Series Ruud Flood Lights <small>(26 55 53 11-0175)</small>		
26 55 53 11-0177 EA 250 Watt High Pressure Sodium CF Series Ruud Flood Light.....	878.88	142.06
26 55 53 11-0178 EA 400 Watt High Pressure Sodium CF Series Ruud Flood Light.....	900.28	142.06
26 55 53 11-0179 EA 1,000 Watt High Pressure Sodium CF Series Ruud Flood Light.....	1,385.40	157.85
26 55 53 11-0180 Metal Halide CF Series Ruud Flood Lights <small>(26 55 53 11-0175)</small>		
26 55 53 11-0181 EA 175 Watt Metal Halide CF Series Ruud Flood Light.....	831.82	142.06
26 55 53 11-0182 EA 250 Watt Metal Halide CF Series Ruud Flood Light.....	836.10	142.06
26 55 53 11-0183 EA 400 Watt Metal Halide CF Series Ruud Flood Light.....	848.93	142.06
26 55 53 11-0184 EA 1,000 Watt Metal Halide CF Series Ruud Flood Light.....	1,244.20	157.85
26 55 53 11-0185 CN (Narrow Beam Cutoff Square) Series Ruud Flood Lights <small>(26 55 53 11-0113)</small>		
Note: The CN is suited for large sports fields, building facades and signs. Yoke or slip fitter mounting.		
26 55 53 11-0186 High Pressure Sodium CN Series Ruud Flood Lights <small>(26 55 53 11-0185)</small>		
26 55 53 11-0187 EA 400 High Pressure Sodium CN Series Ruud Flood Light.....	1,137.23	157.85
26 55 53 11-0188 EA 1,000 High Pressure Sodium CN Series Ruud Flood Light.....	1,359.73	157.85
26 55 53 11-0189 Metal Halide CN Series Ruud Flood Lights <small>(26 55 53 11-0185)</small>		
26 55 53 11-0190 EA 400 Watt Metal Halide CN Series Ruud Flood Light	1,085.88	157.85
26 55 53 11-0191 EA 1,000 Watt Metal Halide CN Series Ruud Flood Light	1,218.53	157.85
26 55 53 11-0192 PM/PN (Parabolic Medium And Narrow Square) Series Ruud Flood Lights		
<small>(26 55 53 11-0113)</small>		
Note: The PM and PN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.		
26 55 53 11-0193 High Pressure Sodium PM/PN Series Ruud Flood Lights <small>(26 55 53 11-0192)</small>		
26 55 53 11-0194 EA 250 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....	908.83	142.06
26 55 53 11-0195 EA 400 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....	930.23	142.06
26 55 53 11-0196 Metal Halide PM/PN Series Ruud Flood Lights <small>(26 55 53 11-0192)</small>		
26 55 53 11-0197 EA 175 Watt Metal Halide PM/PN Series Ruud Flood Light	861.77	142.06
26 55 53 11-0198 EA 250 Watt Metal Halide PM/PN Series Ruud Flood Light.....	866.05	142.06
26 55 53 11-0199 EA 400 Watt Metal Halide PM/PN Series Ruud Flood Light.....	878.88	142.06
26 55 53 11-0200 EA 1,000 Watt Metal Halide PM/PN Series Ruud Flood Light.....	1,274.15	157.85
26 55 53 11-0201 Accessories For Ruud Flood Lighting <small>(26 55 53 11-0113)</small>		
26 55 53 11-0202 EA Wireguard For Ruud Flood Light.....	95.23	31.57
26 55 53 11-0203 EA Deep Baffle (Full Visor) For Ruud Flood Light	152.99	31.57
26 55 53 11-0204 EA Glare Guard (Upper Visor) For Ruud Flood Light	110.21	31.57
26 55 53 11-0205 EA Vandal Shield For Ruud Flood Light	131.60	31.57
26 55 53 11-0206 EA Pipe Mounting Bracket For Ruud Flood Light	262.16	94.71
26 55 53 11-0207 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Ruud Flood Light.....	82.39	31.57
26 55 53 11-0208 Lumark Flood Lights <small>(26 55 53 11)</small>		
26 55 53 11-0209 QZ Wedge Series Quartz Lumark Flood Lights <small>(26 55 53 11-0208)</small>		
Note: For small outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 55 53 11-0210 EA 500 Watt QZ Wedge Series Quartz Lumark Flood Light.....	233.17	94.71
26 55 53 11-0211 LQL Series Quartz Lumark Flood Lights <small>(26 55 53 11-0208)</small>		
Note: For medium size outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 55 53 11-0212 EA 1,500 Watt LQL Series Quartz Lumark Flood Light	296.28	94.71
26 55 53 11-0213 Kim Lighting <small>(26 55 53 11)</small>		
26 55 53 11-0214 MicroFlood® Series Kim Lighting Flood Lights <small>(26 55 53 11-0213)</small>		
Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.		
26 55 53 11-0215 LED MicroFlood® Series Kim Lighting Flood Lights <small>(26 55 53 11-0214)</small>		



Electrical	26	26
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0216 EA 5 Watt, LED MicroFlood® Series Kim Lighting Flood Light.....	497.13	38.00
<i>For >50 To 100, Deduct</i>	-14.33	
<i>For >100 To 250, Deduct</i>	-26.76	
<i>For >250 To 500, Deduct</i>	-49.71	
<i>For >500, Deduct</i>	-72.67	
26 55 53 11-0217 EA 15 Watt, LED MicroFlood® Series Kim Lighting Flood Light.....	615.83	38.00
<i>For >50 To 100, Deduct</i>	-17.30	
<i>For >100 To 250, Deduct</i>	-32.69	
<i>For >250 To 500, Deduct</i>	-61.58	
<i>For >500, Deduct</i>	-90.47	
26 55 53 11-0218 Scarab® Series Kim Lighting Flood Lights <small>(26 55 53 11-0213)</small>		
<small>Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.</small>		
26 55 53 11-0219 LED Scarab® Series Kim Lighting Accent Flood Lights <small>(26 55 53 11-0218)</small>		
<small>Note: Spot or narrow style accent flood lights.</small>		
26 55 53 11-0220 EA 6 Watt, LED Scarab® Series Kim Lighting Accent Flood Light.....	761.83	38.00
<i>For >50 To 100, Deduct</i>	-20.95	
<i>For >100 To 250, Deduct</i>	-39.99	
<i>For >250 To 500, Deduct</i>	-76.18	
<i>For >500, Deduct</i>	-112.37	
26 55 53 11-0221 CREE® BetaLED® Flood Lights <small>(26 55 53 11)</small>		
26 55 53 11-0222 Yoke Mount, Square, LED Flood Lights (CREE® BetaLED® FLD-304) <small>(26 55 53 11-0221)</small>		
<small>Note: UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.</small>		
26 55 53 11-0223 EA 40 LEDs, 47 Watt, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	1,005.14	112.50
<i>For >50 To 100, Deduct</i>	-30.75	
<i>For >100 To 250, Deduct</i>	-55.88	
<i>For >250 To 500, Deduct</i>	-100.51	
<i>For >500, Deduct</i>	-145.15	
26 55 53 11-0224 EA 60 LEDs, 68 Watt, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	1,100.21	118.75
<i>For >50 To 100, Deduct</i>	-33.44	
<i>For >100 To 250, Deduct</i>	-60.95	
<i>For >250 To 500, Deduct</i>	-110.02	
<i>For >500, Deduct</i>	-159.09	
26 55 53 11-0225 Adjustable Arm Mount, Rectangular, LED Flood Lights (CREE® BetaLED® Edge® FLD-EDG) <small>(26 55 53 11-0221)</small>		
<small>Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.</small>		
26 55 53 11-0226 EA 20 LEDs, 26 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	874.48	106.25
<i>For 347-480 Volt, Add</i>	99.79	
<i>For >50 To 100, Deduct</i>	-27.17	
<i>For >100 To 250, Deduct</i>	-49.04	
<i>For >250 To 500, Deduct</i>	-87.45	
<i>For >500, Deduct</i>	-125.86	
26 55 53 11-0227 EA 40 LEDs, 47 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,096.25	112.50
<i>For 347-480 Volt, Add</i>	99.79	
<i>For >50 To 100, Deduct</i>	-33.03	
<i>For >100 To 250, Deduct</i>	-60.44	
<i>For >250 To 500, Deduct</i>	-109.63	
<i>For >500, Deduct</i>	-158.81	
26 55 53 11-0228 EA 60 LEDs, 68 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,318.01	118.75
<i>For 347-480 Volt, Add</i>	99.79	
<i>For >50 To 100, Deduct</i>	-38.89	
<i>For >100 To 250, Deduct</i>	-71.84	
<i>For >250 To 500, Deduct</i>	-131.80	
<i>For >500, Deduct</i>	-191.76	
26 55 53 11-0229 EA 80 LEDs, 90 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,623.77	125.01
<i>For 347-480 Volt, Add</i>	99.79	
<i>For >50 To 100, Deduct</i>	-46.84	
<i>For >100 To 250, Deduct</i>	-87.44	
<i>For >250 To 500, Deduct</i>	-162.38	
<i>For >500, Deduct</i>	-237.32	
26 55 53 11-0230 EA 100 LEDs, 111 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,845.54	131.26
<i>For 347-480 Volt, Add</i>	99.79	
<i>For >50 To 100, Deduct</i>	-52.70	
<i>For >100 To 250, Deduct</i>	-98.84	
<i>For >250 To 500, Deduct</i>	-184.55	
<i>For >500, Deduct</i>	-270.27	
26 55 53 11-0231 EA 120 LEDs, 132 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,067.31	137.50
<i>For 347-480 Volt, Add</i>	99.79	
<i>For >50 To 100, Deduct</i>	-58.56	
<i>For >100 To 250, Deduct</i>	-110.24	
<i>For >250 To 500, Deduct</i>	-206.73	
<i>For >500, Deduct</i>	-303.22	

26	Electrical
26 50	Lighting
26 55	Special Purpose Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0232	EA		140 LEDs, 157 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,355.99	143.75
			<i>For 347-480 Volt, Add</i>	99.79	
			<i>For >50 To 100, Deduct</i>	-66.09	
			<i>For >100 To 250, Deduct</i>	-124.99	
			<i>For >250 To 500, Deduct</i>	-235.60	
			<i>For >500, Deduct</i>	-346.21	
26 55 53 11-0233	EA		160 LEDs, 179 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,577.75	150.01
			<i>For 347-480 Volt, Add</i>	99.79	
			<i>For >50 To 100, Deduct</i>	-71.94	
			<i>For >100 To 250, Deduct</i>	-136.39	
			<i>For >250 To 500, Deduct</i>	-257.78	
			<i>For >500, Deduct</i>	-379.16	
26 55 53 11-0234			Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® Edge® FLD-EHO) <small>(26 55 53 11-0221)</small>		
			Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53 11-0235	EA		120 LEDs, 267 Watt, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO).....	1,983.32	137.50
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.78	
			<i>For Bird Spikes, Add</i>	40.20	
			<i>For 5,000K Color Temperature, Add</i>	41.98	
			<i>For Fuse, Add</i>	50.37	
			<i>For 0 To 10 Volt Dimming, Add</i>	50.37	
			<i>For 480 Volt, Add</i>	75.56	
			<i>For Multi-Level, Add</i>	109.13	
			<i>For 1,000mA Driver, Add</i>	141.04	
			<i>For >50 To 100, Deduct</i>	-56.46	
			<i>For >100 To 250, Deduct</i>	-106.04	
			<i>For >250 To 500, Deduct</i>	-198.33	
			<i>For >500, Deduct</i>	-290.62	
26 55 53 11-0236	EA		240 LEDs, 533 Watt, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO).....	3,350.41	168.75
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.78	
			<i>For 5,000K Color Temperature, Add</i>	41.98	
			<i>For Fuse, Add</i>	50.37	
			<i>For 0 To 10 Volt Dimming, Add</i>	50.37	
			<i>For Bird Spikes, Add</i>	59.20	
			<i>For Multi-Level, Add</i>	109.13	
			<i>For 1,000mA Driver, Add</i>	141.04	
			<i>For 480 Volt, Add</i>	151.10	
			<i>For >50 To 100, Deduct</i>	-92.20	
			<i>For >100 To 250, Deduct</i>	-175.96	
			<i>For >250 To 500, Deduct</i>	-335.04	
			<i>For >500, Deduct</i>	-494.12	
26 55 53 11-0237			Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® OSQ™) <small>(26 55 53 11-0221)</small>		
			Note: UL wet listed. Includes 3,000K or 4,000K or 5,700K color temperature, 120/277 voltage, Class 1 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53 11-0238	EA		112 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-A-XXX-US-UL).....	1,174.12	137.50
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.78	
			<i>For Front Facing Optics, Back Light Shield, Add</i>	31.37	
			<i>For Rotated Optics, Back Light Shield, Add</i>	31.37	
			<i>For Field Adjustable Output, Add</i>	25.19	
			<i>For Fuse, Add</i>	50.37	
			<i>For 0 To 10 Volt Dimming, Add</i>	50.37	
			<i>For Multi-Level, Add</i>	109.13	
			<i>For >50 To 100, Deduct</i>	-36.23	
			<i>For >100 To 250, Deduct</i>	-65.58	
			<i>For >250 To 500, Deduct</i>	-117.41	
			<i>For >500, Deduct</i>	-169.24	
26 55 53 11-0239	EA		168 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-J-XXX-US-UL).....	1,253.46	137.50
			Note: Type III, IV or V medium optics only.		
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.78	
			<i>For Front Facing Optics, Back Light Shield, Add</i>	31.37	
			<i>For Rotated Optics, Back Light Shield, Add</i>	31.37	
			<i>For Field Adjustable Output, Add</i>	25.19	
			<i>For Fuse, Add</i>	50.37	
			<i>For 0 To 10 Volt Dimming, Add</i>	50.37	
			<i>For Type II Medium Or Type V Short Optics, Add</i>	495.54	
			<i>For Multi-Level, Add</i>	109.13	
			<i>For >50 To 100, Deduct</i>	-38.21	
			<i>For >100 To 250, Deduct</i>	-69.55	
			<i>For >250 To 500, Deduct</i>	-125.35	
			<i>For >500, Deduct</i>	-181.14	



Electrical	26	26
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0240	EA		223 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-S-XXX-US-UL) 1,606.84	1,606.84	168.75
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.78	
			<i>For Field Adjustable Output, Add</i>	25.19	
			<i>For Front Facing Optics, Back Light Shield, Add</i>	38.03	
			<i>For Rotated Optics, Back Light Shield, Add</i>	38.03	
			<i>For Fuse, Add</i>	50.37	
			<i>For 0 To 10 Volt Dimming, Add</i>	50.37	
			<i>For Multi-Level, Add</i>	109.13	
			<i>For >50 To 100, Deduct</i>	-48.61	
			<i>For >100 To 250, Deduct</i>	-88.78	
			<i>For >250 To 500, Deduct</i>	-160.68	
			<i>For >500, Deduct</i>	-232.59	
26 55 53 11-0241			PlanLED Flood Lights (26 55 53 11)		
26 55 53 11-0242			Adjustable Arm Mount, LED Flood Lights (PlanLED WAPA) (26 55 53 11-0241)		
26 55 53 11-0243	EA		6,250 Lumens, 50 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP050) 608.71	608.71	112.50
			<i>For >50 To 100, Deduct</i>	-20.84	
			<i>For >100 To 250, Deduct</i>	-36.06	
			<i>For >250 To 500, Deduct</i>	-60.87	
			<i>For >500, Deduct</i>	-85.68	
26 55 53 11-0244	EA		9,375 Lumens, 75 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP075) 729.43	729.43	118.75
			<i>For >50 To 100, Deduct</i>	-24.17	
			<i>For >100 To 250, Deduct</i>	-42.41	
			<i>For >250 To 500, Deduct</i>	-72.94	
			<i>For >500, Deduct</i>	-103.48	
26 55 53 11-0245	EA		12,500 Lumens, 100 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP100) 842.62	842.62	128.13
			<i>For >50 To 100, Deduct</i>	-27.47	
			<i>For >100 To 250, Deduct</i>	-48.54	
			<i>For >250 To 500, Deduct</i>	-84.26	
			<i>For >500, Deduct</i>	-119.99	
26 55 53 11-0246			Adjustable Arm Mount, LED Sports Flood Lights (PlanLED SUFA) (26 55 53 11-0241)		
26 55 53 11-0247	EA		21,000 Lumens, 200 Watt, LED Sports Flood Light (PlanLED SUFA SF200) 1,710.15	1,710.15	250.01
			<i>For 0 To 10 Volt Dimming, Add</i>	84.28	
			<i>For >50 To 100, Deduct</i>	-55.25	
			<i>For >100 To 250, Deduct</i>	-98.01	
			<i>For >250 To 500, Deduct</i>	-171.02	
			<i>For >500, Deduct</i>	-244.02	
26 55 53 11-0248	EA		42,000 Lumens, 400 Watt, LED Sports Flood Light (PlanLED SUFA SF400) 2,664.48	2,664.48	250.01
			<i>For 0 To 10 Volt Dimming, Add</i>	84.28	
			<i>For >50 To 100, Deduct</i>	-79.11	
			<i>For >100 To 250, Deduct</i>	-145.72	
			<i>For >250 To 500, Deduct</i>	-266.45	
			<i>For >500, Deduct</i>	-387.17	
26 55 53 11-0249	EA		84,000 Lumens, 800 Watt, LED Sports Flood Light (PlanLED SUFA SF800) 4,718.76	4,718.76	250.01
			<i>For 0 To 10 Volt Dimming, Add</i>	84.28	
			<i>For >50 To 100, Deduct</i>	-130.47	
			<i>For >100 To 250, Deduct</i>	-248.44	
			<i>For >250 To 500, Deduct</i>	-471.88	
			<i>For >500, Deduct</i>	-695.31	
26 55 53 11-0250			Adjustable Arm Mount, LED High Mast Flood Lights (PlanLED MAHA) (26 55 53 11-0241)		
26 55 53 11-0251	EA		26,000 Lumens, 200 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA200) 1,519.40	1,519.40	162.51
			<i>For 0 To 10 Volt Dimming, Add</i>	84.28	
			<i>For 347-480 Volt, Add</i>	127.90	
			<i>For >50 To 100, Deduct</i>	-46.11	
			<i>For >100 To 250, Deduct</i>	-84.10	
			<i>For >250 To 500, Deduct</i>	-151.94	
			<i>For >500, Deduct</i>	-219.78	
26 55 53 11-0252	EA		39,000 Lumens, 300 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA300) 1,949.06	1,949.06	168.75
			<i>For 0 To 10 Volt Dimming, Add</i>	84.28	
			<i>For 347-480 Volt, Add</i>	101.62	
			<i>For >50 To 100, Deduct</i>	-57.16	
			<i>For >100 To 250, Deduct</i>	-105.89	
			<i>For >250 To 500, Deduct</i>	-194.91	
			<i>For >500, Deduct</i>	-283.92	
26 55 53 11-0253	EA		52,000 Lumens, 400 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA400) 2,490.87	2,490.87	175.00
			<i>For 0 To 10 Volt Dimming, Add</i>	84.28	
			<i>For 347-480 Volt, Add</i>	81.58	
			<i>For >50 To 100, Deduct</i>	-71.02	
			<i>For >100 To 250, Deduct</i>	-133.29	
			<i>For >250 To 500, Deduct</i>	-249.09	
			<i>For >500, Deduct</i>	-364.88	

26 55 68 Athletic Field Lighting (26 55)



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 55 68 00-0001		Sports Lighting System <small>(26 55 68)</small>		
		Note: Musco.		
26 55 68 00-0002		Round Steel Tapered Poles <small>(26 55 68 00-0001)</small>		
		Note: With Internal wiring harness.		
26 55 68 00-0003	EA	20' Steel Tapered Pole With Precast Concrete Foundation Sleeve	3,779.78	606.15
26 55 68 00-0004	EA	25' Steel Tapered Pole With Precast Concrete Foundation Sleeve	4,547.84	732.43
26 55 68 00-0005	EA	30' Steel Tapered Pole With Precast Concrete Foundation Sleeve	5,129.75	795.57
26 55 68 00-0006	EA	35' Steel Tapered Pole With Precast Concrete Foundation Sleeve	5,615.26	827.13
26 55 68 00-0007	EA	40' Steel Tapered Pole With Precast Concrete Foundation Sleeve	7,068.57	858.70
26 55 68 00-0008	EA	45' Steel Tapered Pole With Precast Concrete Foundation Sleeve	8,103.78	1,048.12
26 55 68 00-0009	EA	50' Steel Tapered Pole With Precast Concrete Foundation Sleeve	8,710.66	1,111.27
26 55 68 00-0010	EA	55' Steel Tapered Pole With Precast Concrete Foundation Sleeve	9,894.83	1,262.80
26 55 68 00-0011	EA	60' Steel Tapered Pole With Precast Concrete Foundation Sleeve	11,235.82	1,420.65
26 55 68 00-0012	EA	65' Steel Tapered Pole With Precast Concrete Foundation Sleeve	12,340.27	1,524.31
26 55 68 00-0013	EA	70' Steel Tapered Pole With Precast Concrete Foundation Sleeve	13,451.88	1,703.64
26 55 68 00-0014	EA	75' Steel Tapered Pole With Precast Concrete Foundation Sleeve	14,655.29	1,912.87
26 55 68 00-0015	EA	80' Steel Tapered Pole With Precast Concrete Foundation Sleeve	16,409.62	2,301.42
26 55 68 00-0016		Steel Pole Brackets <small>(26 55 68 00-0001)</small>		
26 55 68 00-0017	EA	Two Light Bracket	602.72	63.14
26 55 68 00-0018	EA	Three Light Bracket	757.59	88.40
26 55 68 00-0019	EA	Four Light Bracket	1,094.96	107.33
26 55 68 00-0020	EA	Five Light Bracket	1,246.31	126.28
26 55 68 00-0021	EA	Six Light Bracket	1,512.74	145.22
26 55 68 00-0022	EA	Seven Light Bracket	1,732.20	164.17
26 55 68 00-0023	EA	Eight Light Bracket	1,981.13	189.42
26 55 68 00-0024	EA	Nine Light Bracket	2,238.96	208.36
26 55 68 00-0025		Light Fixtures <small>(26 55 68 00-0001)</small>		
26 55 68 00-0026	EA	120 or 270 Volt, Sportlite Fixtures Complete with 1,000 Watt Metal Halide Lamp, Hook Cord And Plug	1,338.45	
		<i>For 1,500 Watt Metal Halide Lamp, Add</i>	14.05	
26 55 68 00-0027		Electrical Component Enclosure <small>(26 55 68 00-0001)</small>		
		Note: Pole mounted NEMA 3R enclosure with thermal magnetic breaker and multiple ballasts to match total light fixtures. For light structures with more than 6 lights, use multiple enclosures.		
26 55 68 00-0028	EA	Electrical Component Enclosure For 2 Lights, Pole Mounted	934.25	70.44
26 55 68 00-0029	EA	Electrical Component Enclosure For 3 Lights, Pole Mounted	1,401.50	108.38
26 55 68 00-0030	EA	Electrical Component Enclosure For 4 Lights, Pole Mounted	1,608.42	135.46
26 55 68 00-0031	EA	Electrical Component Enclosure For 5 Lights, Pole Mounted	2,080.58	151.73
26 55 68 00-0032	EA	Electrical Component Enclosure For 6 Lights, Pole Mounted	2,340.39	162.56
26 55 68 00-0033		Accessories <small>(26 55 68 00-0001)</small>		
26 55 68 00-0034	EA	Time Delay Kit (Musco®)	929.44	217.14
26 55 68 00-0035	EA	Remote Switch Box Push Button (Musco®)	1,919.77	217.14
26 55 68 00-0036	EA	Push Button Strobe Kit (Musco®)	2,315.90	217.14
26 55 68 00-0037	EA	Additional Control-Link Unit (Musco®)	11,206.14	651.44
26 55 68 00-0038	EA	Auxiliary Brackets For Speakers Or Egress Fixtures, For New Installations (Musco®)	1,207.08	108.38
26 55 68 00-0039	EA	Auxiliary Brackets For Speakers Or Egress Fixtures, For Retrofit Applications (Musco®)	1,423.82	216.75
26 56		Exterior Lighting <small>(26 50)</small>		
26 56 13		Lighting Poles and Standards <small>(26 56)</small>		
26 56 13 00-0001		Poles And Standards <small>(26 56 13)</small>		
		See CSI section 26 05 46 00-0000 for additional poles, 26 05 46 00-0001 for additional pole.		
26 56 13 00-0002		Roadway Light Poles <small>(26 56 13 00-0001)</small>		
		Note: Excludes lighting fixtures.		
26 56 13 00-0003		Steel Roadway Light Poles <small>(26 56 13 00-0002)</small>		
		Note: Includes prime painted finish, anchor bolts, steel base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		
26 56 13 00-0004		Round Tapered, Steel Roadway Light Poles <small>(26 56 13 00-0003)</small>		
26 56 13 00-0005		Round Tapered, Steel Roadway Light Poles With Upsweep Style Arms <small>(26 56 13 00-0004)</small>		
26 56 13 00-0006		Round Tapered, Steel Roadway Light Poles With Single Upsweep Style Arm <small>(26 56 13 00-0005)</small>		
26 56 13 00-0007	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	2,615.07	378.84
		<i>For Galvanized Finish, Add</i>	55.72	
		<i>For >10 To 20, Deduct</i>	-65.38	
		<i>For >20 To 40, Deduct</i>	-130.75	
		<i>For >40, Deduct</i>	-215.07	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 56 13 00-0008	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	2,619.65	378.84
		<i>For Galvanized Finish, Add</i>	55.86	
		<i>For >10 To 20, Deduct</i>	-65.49	
		<i>For >20 To 40, Deduct</i>	-130.98	
		<i>For >40, Deduct</i>	-215.42	
26 56 13 00-0009	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	2,899.42	505.12
		<i>For Galvanized Finish, Add</i>	56.68	
		<i>For >10 To 20, Deduct</i>	-72.49	
		<i>For >20 To 40, Deduct</i>	-144.97	
		<i>For >40, Deduct</i>	-242.71	
26 56 13 00-0010	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	2,954.62	505.12
		<i>For Galvanized Finish, Add</i>	58.33	
		<i>For >10 To 20, Deduct</i>	-73.87	
		<i>For >20 To 40, Deduct</i>	-147.73	
		<i>For >40, Deduct</i>	-246.85	
26 56 13 00-0011	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,009.82	505.12
		<i>For Galvanized Finish, Add</i>	59.99	
		<i>For >10 To 20, Deduct</i>	-75.25	
		<i>For >20 To 40, Deduct</i>	-150.49	
		<i>For >40, Deduct</i>	-250.99	
26 56 13 00-0012	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,147.73	568.26
		<i>For Galvanized Finish, Add</i>	60.34	
		<i>For >10 To 20, Deduct</i>	-78.69	
		<i>For >20 To 40, Deduct</i>	-157.39	
		<i>For >40, Deduct</i>	-264.49	
26 56 13 00-0013	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,173.90	568.26
		<i>For Galvanized Finish, Add</i>	61.12	
		<i>For >10 To 20, Deduct</i>	-79.35	
		<i>For >20 To 40, Deduct</i>	-158.70	
		<i>For >40, Deduct</i>	-266.46	
26 56 13 00-0014	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,178.88	568.26
		<i>For Galvanized Finish, Add</i>	61.27	
		<i>For >10 To 20, Deduct</i>	-79.47	
		<i>For >20 To 40, Deduct</i>	-158.94	
		<i>For >40, Deduct</i>	-266.83	
26 56 13 00-0015	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,334.95	599.83
		<i>For Galvanized Finish, Add</i>	64.06	
		<i>For >10 To 20, Deduct</i>	-83.37	
		<i>For >20 To 40, Deduct</i>	-166.75	
		<i>For >40, Deduct</i>	-280.11	
26 56 13 00-0016	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,354.72	599.83
		<i>For Galvanized Finish, Add</i>	64.65	
		<i>For >10 To 20, Deduct</i>	-83.87	
		<i>For >20 To 40, Deduct</i>	-167.74	
		<i>For >40, Deduct</i>	-281.60	
26 56 13 00-0017	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,376.31	599.83
		<i>For Galvanized Finish, Add</i>	65.30	
		<i>For >10 To 20, Deduct</i>	-84.41	
		<i>For >20 To 40, Deduct</i>	-168.82	
		<i>For >40, Deduct</i>	-283.21	
26 56 13 00-0018	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,826.18	631.40
		<i>For Galvanized Finish, Add</i>	76.90	
		<i>For >10 To 20, Deduct</i>	-95.65	
		<i>For >20 To 40, Deduct</i>	-191.31	
		<i>For >40, Deduct</i>	-318.53	
26 56 13 00-0019	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,833.21	631.40
		<i>For Galvanized Finish, Add</i>	77.11	
		<i>For >10 To 20, Deduct</i>	-95.83	
		<i>For >20 To 40, Deduct</i>	-191.66	
		<i>For >40, Deduct</i>	-319.06	
26 56 13 00-0020	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,840.17	631.40
		<i>For Galvanized Finish, Add</i>	77.32	
		<i>For >10 To 20, Deduct</i>	-96.00	
		<i>For >20 To 40, Deduct</i>	-192.01	
		<i>For >40, Deduct</i>	-319.58	

26 56 13 00-0021 Round Tapered, Steel Roadway Light Poles With Two Upsweep Style Arms (26 56 13 00-0005)

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0022	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	3,242.35	441.98
			<i>For Galvanized Finish, Add</i>	70.75	
			<i>For >10 To 20, Deduct</i>	-81.06	
			<i>For >20 To 40, Deduct</i>	-162.12	
			<i>For >40, Deduct</i>	-265.28	
26 56	13 00-0023	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	3,303.42	457.77
			<i>For Galvanized Finish, Add</i>	71.64	
			<i>For >10 To 20, Deduct</i>	-82.59	
			<i>For >20 To 40, Deduct</i>	-165.17	
			<i>For >40, Deduct</i>	-270.64	
26 56	13 00-0024	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	3,357.21	473.55
			<i>For Galvanized Finish, Add</i>	72.30	
			<i>For >10 To 20, Deduct</i>	-83.93	
			<i>For >20 To 40, Deduct</i>	-167.86	
			<i>For >40, Deduct</i>	-275.47	
26 56	13 00-0025	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	3,303.68	568.26
			<i>For Galvanized Finish, Add</i>	65.01	
			<i>For >10 To 20, Deduct</i>	-82.59	
			<i>For >20 To 40, Deduct</i>	-165.18	
			<i>For >40, Deduct</i>	-276.19	
26 56	13 00-0026	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	3,346.96	584.05
			<i>For Galvanized Finish, Add</i>	65.37	
			<i>For >10 To 20, Deduct</i>	-83.67	
			<i>For >20 To 40, Deduct</i>	-167.35	
			<i>For >40, Deduct</i>	-280.22	
26 56	13 00-0027	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	3,383.27	599.83
			<i>For Galvanized Finish, Add</i>	65.51	
			<i>For >10 To 20, Deduct</i>	-84.58	
			<i>For >20 To 40, Deduct</i>	-169.16	
			<i>For >40, Deduct</i>	-283.74	
26 56	13 00-0028	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	3,574.53	631.40
			<i>For Galvanized Finish, Add</i>	69.35	
			<i>For >10 To 20, Deduct</i>	-89.36	
			<i>For >20 To 40, Deduct</i>	-178.73	
			<i>For >40, Deduct</i>	-299.66	
26 56	13 00-0029	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	3,613.22	647.19
			<i>For Galvanized Finish, Add</i>	69.57	
			<i>For >10 To 20, Deduct</i>	-90.33	
			<i>For >20 To 40, Deduct</i>	-180.66	
			<i>For >40, Deduct</i>	-303.35	
26 56	13 00-0030	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	3,649.30	662.97
			<i>For Galvanized Finish, Add</i>	69.70	
			<i>For >10 To 20, Deduct</i>	-91.23	
			<i>For >20 To 40, Deduct</i>	-182.47	
			<i>For >40, Deduct</i>	-306.85	
26 56	13 00-0031	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	3,789.13	662.97
			<i>For Galvanized Finish, Add</i>	73.90	
			<i>For >10 To 20, Deduct</i>	-94.73	
			<i>For >20 To 40, Deduct</i>	-189.46	
			<i>For >40, Deduct</i>	-317.33	
26 56	13 00-0032	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	3,851.29	678.76
			<i>For Galvanized Finish, Add</i>	74.81	
			<i>For >10 To 20, Deduct</i>	-96.28	
			<i>For >20 To 40, Deduct</i>	-192.56	
			<i>For >40, Deduct</i>	-322.78	
26 56	13 00-0033	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	3,911.89	694.54
			<i>For Galvanized Finish, Add</i>	75.68	
			<i>For >10 To 20, Deduct</i>	-97.80	
			<i>For >20 To 40, Deduct</i>	-195.59	
			<i>For >40, Deduct</i>	-328.12	
26 56	13 00-0034	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	4,253.14	694.54
			<i>For Galvanized Finish, Add</i>	85.92	
			<i>For >10 To 20, Deduct</i>	-106.33	
			<i>For >20 To 40, Deduct</i>	-212.66	
			<i>For >40, Deduct</i>	-353.71	
26 56	13 00-0035	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,289.29	710.32
			<i>For Galvanized Finish, Add</i>	86.06	
			<i>For >10 To 20, Deduct</i>	-107.23	
			<i>For >20 To 40, Deduct</i>	-214.46	
			<i>For >40, Deduct</i>	-357.21	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0036	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	4,325.61	726.11
			<i>For Galvanized Finish, Add</i>	86.20	
			<i>For >10 To 20, Deduct</i>	-108.14	
			<i>For >20 To 40, Deduct</i>	-216.28	
			<i>For >40, Deduct</i>	-360.73	
26 56 13 00-0037 Round Tapered, Steel Roadway Light Poles With Three Upsweep Style Arms					
<i>(26 56 13 00-0005)</i>					
26 56 13 00-0038	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	3,863.50	631.40
			<i>For Galvanized Finish, Add</i>	78.02	
			<i>For >10 To 20, Deduct</i>	-96.59	
			<i>For >20 To 40, Deduct</i>	-193.18	
			<i>For >40, Deduct</i>	-321.33	
26 56 13 00-0039	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	3,931.32	662.97
			<i>For Galvanized Finish, Add</i>	78.16	
			<i>For >10 To 20, Deduct</i>	-98.28	
			<i>For >20 To 40, Deduct</i>	-196.57	
			<i>For >40, Deduct</i>	-328.00	
26 56 13 00-0040	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	4,006.08	694.54
			<i>For Galvanized Finish, Add</i>	78.51	
			<i>For >10 To 20, Deduct</i>	-100.15	
			<i>For >20 To 40, Deduct</i>	-200.30	
			<i>For >40, Deduct</i>	-335.18	
26 56 13 00-0041	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,106.35	694.54
			<i>For Galvanized Finish, Add</i>	81.52	
			<i>For >10 To 20, Deduct</i>	-102.66	
			<i>For >20 To 40, Deduct</i>	-205.32	
			<i>For >40, Deduct</i>	-342.70	
26 56 13 00-0042	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,176.38	726.11
			<i>For Galvanized Finish, Add</i>	81.72	
			<i>For >10 To 20, Deduct</i>	-104.41	
			<i>For >20 To 40, Deduct</i>	-208.82	
			<i>For >40, Deduct</i>	-349.53	
26 56 13 00-0043	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	4,244.18	757.68
			<i>For Galvanized Finish, Add</i>	81.86	
			<i>For >10 To 20, Deduct</i>	-106.10	
			<i>For >20 To 40, Deduct</i>	-212.21	
			<i>For >40, Deduct</i>	-356.20	
26 56 13 00-0044	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,360.41	726.11
			<i>For Galvanized Finish, Add</i>	87.25	
			<i>For >10 To 20, Deduct</i>	-109.01	
			<i>For >20 To 40, Deduct</i>	-218.02	
			<i>For >40, Deduct</i>	-363.34	
26 56 13 00-0045	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,428.21	757.68
			<i>For Galvanized Finish, Add</i>	87.39	
			<i>For >10 To 20, Deduct</i>	-110.71	
			<i>For >20 To 40, Deduct</i>	-221.41	
			<i>For >40, Deduct</i>	-370.00	
26 56 13 00-0046	EA		35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	4,496.02	789.25
			<i>For Galvanized Finish, Add</i>	87.53	
			<i>For >10 To 20, Deduct</i>	-112.40	
			<i>For >20 To 40, Deduct</i>	-224.80	
			<i>For >40, Deduct</i>	-376.66	
26 56 13 00-0047	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,680.10	757.68
			<i>For Galvanized Finish, Add</i>	94.94	
			<i>For >10 To 20, Deduct</i>	-117.00	
			<i>For >20 To 40, Deduct</i>	-234.01	
			<i>For >40, Deduct</i>	-388.89	
26 56 13 00-0048	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,747.67	789.25
			<i>For Galvanized Finish, Add</i>	95.08	
			<i>For >10 To 20, Deduct</i>	-118.69	
			<i>For >20 To 40, Deduct</i>	-237.38	
			<i>For >40, Deduct</i>	-395.54	
26 56 13 00-0049	EA		40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	4,820.14	820.83
			<i>For Galvanized Finish, Add</i>	95.36	
			<i>For >10 To 20, Deduct</i>	-120.50	
			<i>For >20 To 40, Deduct</i>	-241.01	
			<i>For >40, Deduct</i>	-402.55	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0050		Round Tapered, Steel Roadway Light Poles With Four Upsweep Style Arms <small>(26 56 13 00-0005)</small>		
	26 56 13 00-0051	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	4,292.76	694.54
			<i>For Galvanized Finish, Add</i>	87.11	
			<i>For >10 To 20, Deduct</i>	-107.32	
			<i>For >20 To 40, Deduct</i>	-214.64	
			<i>For >40, Deduct</i>	-356.68	
	26 56 13 00-0052	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	4,394.43	741.90
			<i>For Galvanized Finish, Add</i>	87.32	
			<i>For >10 To 20, Deduct</i>	-109.86	
			<i>For >20 To 40, Deduct</i>	-219.72	
			<i>For >40, Deduct</i>	-366.68	
	26 56 13 00-0053	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	4,493.72	789.25
			<i>For Galvanized Finish, Add</i>	87.46	
			<i>For >10 To 20, Deduct</i>	-112.34	
			<i>For >20 To 40, Deduct</i>	-224.69	
			<i>For >40, Deduct</i>	-376.49	
	26 56 13 00-0054	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	4,564.16	757.68
			<i>For Galvanized Finish, Add</i>	91.46	
			<i>For >10 To 20, Deduct</i>	-114.10	
			<i>For >20 To 40, Deduct</i>	-228.21	
			<i>For >40, Deduct</i>	-380.20	
	26 56 13 00-0055	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	4,663.78	805.04
			<i>For Galvanized Finish, Add</i>	91.61	
			<i>For >10 To 20, Deduct</i>	-116.59	
			<i>For >20 To 40, Deduct</i>	-233.19	
			<i>For >40, Deduct</i>	-390.04	
	26 56 13 00-0056	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	4,736.50	852.39
			<i>For Galvanized Finish, Add</i>	90.95	
			<i>For >10 To 20, Deduct</i>	-118.41	
			<i>For >20 To 40, Deduct</i>	-236.83	
			<i>For >40, Deduct</i>	-397.86	
	26 56 13 00-0057	EA	35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	4,892.15	789.25
			<i>For Galvanized Finish, Add</i>	99.41	
			<i>For >10 To 20, Deduct</i>	-122.30	
			<i>For >20 To 40, Deduct</i>	-244.61	
			<i>For >40, Deduct</i>	-406.37	
	26 56 13 00-0058	EA	35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	5,023.24	836.60
			<i>For Galvanized Finish, Add</i>	100.50	
			<i>For >10 To 20, Deduct</i>	-125.58	
			<i>For >20 To 40, Deduct</i>	-251.16	
			<i>For >40, Deduct</i>	-418.57	
	26 56 13 00-0059	EA	35' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	5,093.36	883.96
			<i>For Galvanized Finish, Add</i>	99.76	
			<i>For >10 To 20, Deduct</i>	-127.33	
			<i>For >20 To 40, Deduct</i>	-254.67	
			<i>For >40, Deduct</i>	-426.20	
	26 56 13 00-0060	EA	40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,106.82	820.83
			<i>For Galvanized Finish, Add</i>	103.96	
			<i>For >10 To 20, Deduct</i>	-127.67	
			<i>For >20 To 40, Deduct</i>	-255.34	
			<i>For >40, Deduct</i>	-424.05	
	26 56 13 00-0061	EA	40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	5,206.12	868.18
			<i>For Galvanized Finish, Add</i>	104.09	
			<i>For >10 To 20, Deduct</i>	-130.15	
			<i>For >20 To 40, Deduct</i>	-260.31	
			<i>For >40, Deduct</i>	-433.87	
	26 56 13 00-0062	EA	40' High, 10.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	5,307.79	915.53
			<i>For Galvanized Finish, Add</i>	104.30	
			<i>For >10 To 20, Deduct</i>	-132.69	
			<i>For >20 To 40, Deduct</i>	-265.39	
			<i>For >40, Deduct</i>	-443.86	
26 56	13 00-0063		Round Tapered, Steel Roadway Light Poles With Davit Style Arm <small>(26 56 13 00-0004)</small>		
26 56	13 00-0064		Round Tapered, Steel Roadway Light Poles With Single Davit Style Arm <small>(26 56 13 00-0063)</small>		
	26 56 13 00-0065	EA	25' High, 6.4" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	3,070.24	505.12
			<i>For Galvanized Finish, Add</i>	61.80	
			<i>For >10 To 20, Deduct</i>	-76.76	
			<i>For >20 To 40, Deduct</i>	-153.51	
			<i>For >40, Deduct</i>	-255.52	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 56 13 00-0066	EA	30' High, 7.1" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base.....		3,472.61	568.26
		<i>For Galvanized Finish, Add</i>		70.08	
		<i>For >10 To 20, Deduct</i>		-86.82	
		<i>For >20 To 40, Deduct</i>		-173.63	
		<i>For >40, Deduct</i>		-288.86	
26 56 13 00-0067	EA	35' High, 7.8" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base.....		3,574.18	599.83
		<i>For Galvanized Finish, Add</i>		71.24	
		<i>For >10 To 20, Deduct</i>		-89.35	
		<i>For >20 To 40, Deduct</i>		-178.71	
		<i>For >40, Deduct</i>		-298.06	
26 56 13 00-0068	EA	40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base.....		4,226.98	631.40
		<i>For Galvanized Finish, Add</i>		88.93	
		<i>For >10 To 20, Deduct</i>		-105.67	
		<i>For >20 To 40, Deduct</i>		-211.35	
		<i>For >40, Deduct</i>		-348.59	
26 56 13 00-0069		Round Tapered, Steel Roadway Light Poles With Truss Style Arms <small>(26 56 13 00-0004)</small>			
26 56 13 00-0070		Round Tapered, Steel Roadway Light Poles With Single Truss Style Arm <small>(26 56 13 00-0069)</small>			
26 56 13 00-0071	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....		3,894.86	505.12
		<i>For Galvanized Finish, Add</i>		86.54	
		<i>For >10 To 20, Deduct</i>		-97.37	
		<i>For >20 To 40, Deduct</i>		-194.74	
		<i>For >40, Deduct</i>		-317.37	
26 56 13 00-0072	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....		3,930.21	505.12
		<i>For Galvanized Finish, Add</i>		87.60	
		<i>For >10 To 20, Deduct</i>		-98.26	
		<i>For >20 To 40, Deduct</i>		-196.51	
		<i>For >40, Deduct</i>		-320.02	
26 56 13 00-0073	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....		3,946.34	505.12
		<i>For Galvanized Finish, Add</i>		88.08	
		<i>For >10 To 20, Deduct</i>		-98.66	
		<i>For >20 To 40, Deduct</i>		-197.32	
		<i>For >40, Deduct</i>		-321.23	
26 56 13 00-0074	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....		4,056.49	568.26
		<i>For Galvanized Finish, Add</i>		87.60	
		<i>For >10 To 20, Deduct</i>		-101.41	
		<i>For >20 To 40, Deduct</i>		-202.82	
		<i>For >40, Deduct</i>		-332.65	
26 56 13 00-0075	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....		4,062.66	568.26
		<i>For Galvanized Finish, Add</i>		87.78	
		<i>For >10 To 20, Deduct</i>		-101.57	
		<i>For >20 To 40, Deduct</i>		-203.13	
		<i>For >40, Deduct</i>		-333.11	
26 56 13 00-0076	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....		4,126.40	568.26
		<i>For Galvanized Finish, Add</i>		89.70	
		<i>For >10 To 20, Deduct</i>		-103.16	
		<i>For >20 To 40, Deduct</i>		-206.32	
		<i>For >40, Deduct</i>		-337.89	
26 56 13 00-0077	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....		4,140.59	599.83
		<i>For Galvanized Finish, Add</i>		88.23	
		<i>For >10 To 20, Deduct</i>		-103.51	
		<i>For >20 To 40, Deduct</i>		-207.03	
		<i>For >40, Deduct</i>		-340.54	
26 56 13 00-0078	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....		4,177.91	599.83
		<i>For Galvanized Finish, Add</i>		89.35	
		<i>For >10 To 20, Deduct</i>		-104.45	
		<i>For >20 To 40, Deduct</i>		-208.90	
		<i>For >40, Deduct</i>		-343.33	
26 56 13 00-0079	EA	35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....		4,373.65	599.83
		<i>For Galvanized Finish, Add</i>		95.22	
		<i>For >10 To 20, Deduct</i>		-109.34	
		<i>For >20 To 40, Deduct</i>		-218.68	
		<i>For >40, Deduct</i>		-358.02	
26 56 13 00-0080		Round Tapered, Steel Roadway Light Poles With Two Truss Style Arms <small>(26 56 13 00-0069)</small>			

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0081	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base	5,087.89	631.40
			<i>For Galvanized Finish, Add</i>	114.75	
			<i>For >10 To 20, Deduct</i>	-127.20	
			<i>For >20 To 40, Deduct</i>	-254.39	
			<i>For >40, Deduct</i>	-413.16	
26 56	13 00-0082	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	5,184.89	662.97
			<i>For Galvanized Finish, Add</i>	115.77	
			<i>For >10 To 20, Deduct</i>	-129.62	
			<i>For >20 To 40, Deduct</i>	-259.24	
			<i>For >40, Deduct</i>	-422.02	
26 56	13 00-0083	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	5,380.89	694.54
			<i>For Galvanized Finish, Add</i>	119.75	
			<i>For >10 To 20, Deduct</i>	-134.52	
			<i>For >20 To 40, Deduct</i>	-269.04	
			<i>For >40, Deduct</i>	-438.29	
26 56	13 00-0084	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base	5,194.56	694.54
			<i>For Galvanized Finish, Add</i>	114.16	
			<i>For >10 To 20, Deduct</i>	-129.86	
			<i>For >20 To 40, Deduct</i>	-259.73	
			<i>For >40, Deduct</i>	-424.32	
26 56	13 00-0085	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	5,432.56	726.11
			<i>For Galvanized Finish, Add</i>	119.41	
			<i>For >10 To 20, Deduct</i>	-135.81	
			<i>For >20 To 40, Deduct</i>	-271.63	
			<i>For >40, Deduct</i>	-443.75	
26 56	13 00-0086	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	5,581.74	757.68
			<i>For Galvanized Finish, Add</i>	121.99	
			<i>For >10 To 20, Deduct</i>	-139.54	
			<i>For >20 To 40, Deduct</i>	-279.09	
			<i>For >40, Deduct</i>	-456.51	
26 56	13 00-0087	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base	5,355.37	726.11
			<i>For Galvanized Finish, Add</i>	117.09	
			<i>For >10 To 20, Deduct</i>	-133.88	
			<i>For >20 To 40, Deduct</i>	-267.77	
			<i>For >40, Deduct</i>	-437.96	
26 56	13 00-0088	EA	35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	5,667.94	757.68
			<i>For Galvanized Finish, Add</i>	124.58	
			<i>For >10 To 20, Deduct</i>	-141.70	
			<i>For >20 To 40, Deduct</i>	-283.40	
			<i>For >40, Deduct</i>	-462.98	
26 56	13 00-0089	EA	35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	5,859.20	789.25
			<i>For Galvanized Finish, Add</i>	128.42	
			<i>For >10 To 20, Deduct</i>	-146.48	
			<i>For >20 To 40, Deduct</i>	-292.96	
			<i>For >40, Deduct</i>	-478.90	
26 56	13 00-0090		Aluminum Roadway Light Poles <small>(26 56 13 00-0090)</small> Note: Includes satin finish, anchor bolts, cast aluminum base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		
26 56	13 00-0091		Round Tapered, Aluminum Roadway Light Poles <small>(26 56 13 00-0090)</small>		
26 56	13 00-0092		Round Tapered, Aluminum Roadway Light Poles With Upsweep Style Arms <small>(26 56 13 00-0091)</small>		
26 56	13 00-0093		Round Tapered, Aluminum Roadway Light Poles With Single Upsweep Style Arm <small>(26 56 13 00-0092)</small>		
26 56	13 00-0094	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	2,279.73	378.84
			<i>For >10 To 20, Deduct</i>	-56.99	
			<i>For >20 To 40, Deduct</i>	-113.99	
			<i>For >40, Deduct</i>	-189.92	
26 56	13 00-0095	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	2,298.16	378.84
			<i>For >10 To 20, Deduct</i>	-57.45	
			<i>For >20 To 40, Deduct</i>	-114.91	
			<i>For >40, Deduct</i>	-191.30	
26 56	13 00-0096	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	2,810.41	505.12
			<i>For >10 To 20, Deduct</i>	-70.26	
			<i>For >20 To 40, Deduct</i>	-140.52	
			<i>For >40, Deduct</i>	-236.04	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0097	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	2,845.22	505.12
			<i>For >10 To 20, Deduct</i>	-71.13	
			<i>For >20 To 40, Deduct</i>	-142.26	
			<i>For >40, Deduct</i>	-238.65	
26 56	13 00-0098	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	2,877.24	505.12
			<i>For >10 To 20, Deduct</i>	-71.93	
			<i>For >20 To 40, Deduct</i>	-143.86	
			<i>For >40, Deduct</i>	-241.05	
26 56	13 00-0099	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,221.53	568.26
			<i>For >10 To 20, Deduct</i>	-80.54	
			<i>For >20 To 40, Deduct</i>	-161.08	
			<i>For >40, Deduct</i>	-270.03	
26 56	13 00-0100	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,250.90	568.26
			<i>For >10 To 20, Deduct</i>	-81.27	
			<i>For >20 To 40, Deduct</i>	-162.55	
			<i>For >40, Deduct</i>	-272.23	
26 56	13 00-0101	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,283.75	568.26
			<i>For >10 To 20, Deduct</i>	-82.09	
			<i>For >20 To 40, Deduct</i>	-164.19	
			<i>For >40, Deduct</i>	-274.69	
26 56	13 00-0102	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,749.38	599.83
			<i>For >10 To 20, Deduct</i>	-93.73	
			<i>For >20 To 40, Deduct</i>	-187.47	
			<i>For >40, Deduct</i>	-311.20	
26 56	13 00-0103	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,778.68	599.83
			<i>For >10 To 20, Deduct</i>	-94.47	
			<i>For >20 To 40, Deduct</i>	-188.93	
			<i>For >40, Deduct</i>	-313.39	
26 56	13 00-0104	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,803.22	599.83
			<i>For >10 To 20, Deduct</i>	-95.08	
			<i>For >20 To 40, Deduct</i>	-190.16	
			<i>For >40, Deduct</i>	-315.23	
26 56 13 00-0105 Round Tapered, Aluminum Roadway Light Poles With Two Upsweep Style Arms					
			<small>(26 56 13 00-0092)</small>		
26 56	13 00-0106	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	2,615.18	441.98
			<i>For >10 To 20, Deduct</i>	-65.38	
			<i>For >20 To 40, Deduct</i>	-130.76	
			<i>For >40, Deduct</i>	-218.24	
26 56	13 00-0107	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	2,795.74	441.98
			<i>For >10 To 20, Deduct</i>	-69.89	
			<i>For >20 To 40, Deduct</i>	-139.79	
			<i>For >40, Deduct</i>	-231.78	
26 56	13 00-0108	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	2,894.07	473.55
			<i>For >10 To 20, Deduct</i>	-72.35	
			<i>For >20 To 40, Deduct</i>	-144.70	
			<i>For >40, Deduct</i>	-240.73	
26 56	13 00-0109	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	3,135.97	568.26
			<i>For >10 To 20, Deduct</i>	-78.40	
			<i>For >20 To 40, Deduct</i>	-156.80	
			<i>For >40, Deduct</i>	-263.61	
26 56	13 00-0110	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	3,282.47	584.05
			<i>For >10 To 20, Deduct</i>	-82.06	
			<i>For >20 To 40, Deduct</i>	-164.12	
			<i>For >40, Deduct</i>	-275.39	
26 56	13 00-0111	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	3,491.12	599.83
			<i>For >10 To 20, Deduct</i>	-87.28	
			<i>For >20 To 40, Deduct</i>	-174.56	
			<i>For >40, Deduct</i>	-291.83	
26 56	13 00-0112	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	3,610.37	631.40
			<i>For >10 To 20, Deduct</i>	-90.26	
			<i>For >20 To 40, Deduct</i>	-180.52	
			<i>For >40, Deduct</i>	-302.35	
26 56	13 00-0113	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	3,748.56	647.19
			<i>For >10 To 20, Deduct</i>	-93.71	
			<i>For >20 To 40, Deduct</i>	-187.43	
			<i>For >40, Deduct</i>	-313.50	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0114	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	3,915.92	662.97
			<i>For >10 To 20, Deduct</i>	-97.90	
			<i>For >20 To 40, Deduct</i>	-195.80	
			<i>For >40, Deduct</i>	-326.84	
26 56	13 00-0115	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	4,075.63	662.97
			<i>For >10 To 20, Deduct</i>	-101.89	
			<i>For >20 To 40, Deduct</i>	-203.78	
			<i>For >40, Deduct</i>	-338.82	
26 56	13 00-0116	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,439.60	678.76
			<i>For >10 To 20, Deduct</i>	-110.99	
			<i>For >20 To 40, Deduct</i>	-221.98	
			<i>For >40, Deduct</i>	-366.91	
26 56	13 00-0117	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,861.95	694.54
			<i>For >10 To 20, Deduct</i>	-121.55	
			<i>For >20 To 40, Deduct</i>	-243.10	
			<i>For >40, Deduct</i>	-399.37	
26 56 13 00-0118 Round Tapered, Aluminum Roadway Light Poles With Three Upsweep Style Arms <small>(26 56 13 00-0092)</small>					
26 56	13 00-0119	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	3,032.12	505.12
			<i>For >10 To 20, Deduct</i>	-75.80	
			<i>For >20 To 40, Deduct</i>	-151.61	
			<i>For >40, Deduct</i>	-252.67	
26 56	13 00-0120	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	3,241.30	536.70
			<i>For >10 To 20, Deduct</i>	-81.03	
			<i>For >20 To 40, Deduct</i>	-162.07	
			<i>For >40, Deduct</i>	-269.93	
26 56	13 00-0121	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	3,693.51	631.40
			<i>For >10 To 20, Deduct</i>	-92.34	
			<i>For >20 To 40, Deduct</i>	-184.68	
			<i>For >40, Deduct</i>	-308.58	
26 56	13 00-0122	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	3,853.24	662.97
			<i>For >10 To 20, Deduct</i>	-96.33	
			<i>For >20 To 40, Deduct</i>	-192.66	
			<i>For >40, Deduct</i>	-322.14	
26 56	13 00-0123	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	4,035.45	694.54
			<i>For >10 To 20, Deduct</i>	-100.89	
			<i>For >20 To 40, Deduct</i>	-201.77	
			<i>For >40, Deduct</i>	-337.39	
26 56	13 00-0124	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	4,181.73	726.11
			<i>For >10 To 20, Deduct</i>	-104.54	
			<i>For >20 To 40, Deduct</i>	-209.09	
			<i>For >40, Deduct</i>	-349.94	
26 56	13 00-0125	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	4,354.66	726.11
			<i>For >10 To 20, Deduct</i>	-108.87	
			<i>For >20 To 40, Deduct</i>	-217.73	
			<i>For >40, Deduct</i>	-362.91	
26 56	13 00-0126	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	4,724.69	757.68
			<i>For >10 To 20, Deduct</i>	-118.12	
			<i>For >20 To 40, Deduct</i>	-236.23	
			<i>For >40, Deduct</i>	-392.24	
26 56	13 00-0127	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base	10,568.29	789.25
			<i>For >10 To 20, Deduct</i>	-264.21	
			<i>For >20 To 40, Deduct</i>	-528.41	
			<i>For >40, Deduct</i>	-832.08	
26 56 13 00-0128 Round Tapered, Aluminum Roadway Light Poles With Four Upsweep Style Arms <small>(26 56 13 00-0092)</small>					
26 56	13 00-0129	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	3,157.94	568.26
			<i>For >10 To 20, Deduct</i>	-78.95	
			<i>For >20 To 40, Deduct</i>	-157.90	
			<i>For >40, Deduct</i>	-265.26	
26 56	13 00-0130	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	3,268.50	568.26
			<i>For >10 To 20, Deduct</i>	-81.71	
			<i>For >20 To 40, Deduct</i>	-163.43	
			<i>For >40, Deduct</i>	-273.55	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0131	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	4,042.33	694.54
			<i>For >10 To 20, Deduct</i>	-101.06	
			<i>For >20 To 40, Deduct</i>	-202.12	
			<i>For >40, Deduct</i>	-337.90	
26 56	13 00-0132	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	4,372.71	741.90
			<i>For >10 To 20, Deduct</i>	-109.32	
			<i>For >20 To 40, Deduct</i>	-218.64	
			<i>For >40, Deduct</i>	-365.05	
26 56	13 00-0133	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	4,554.86	757.68
			<i>For >10 To 20, Deduct</i>	-113.87	
			<i>For >20 To 40, Deduct</i>	-227.74	
			<i>For >40, Deduct</i>	-379.50	
26 56	13 00-0134	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	4,860.79	805.04
			<i>For >10 To 20, Deduct</i>	-121.52	
			<i>For >20 To 40, Deduct</i>	-243.04	
			<i>For >40, Deduct</i>	-404.81	
26 56	13 00-0135	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	4,793.26	789.25
			<i>For >10 To 20, Deduct</i>	-119.83	
			<i>For >20 To 40, Deduct</i>	-239.66	
			<i>For >40, Deduct</i>	-398.96	
26 56	13 00-0136	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	5,429.18	836.60
			<i>For >10 To 20, Deduct</i>	-135.73	
			<i>For >20 To 40, Deduct</i>	-271.46	
			<i>For >40, Deduct</i>	-449.02	
26 56	13 00-0137	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	5,993.43	883.96
			<i>For >10 To 20, Deduct</i>	-149.84	
			<i>For >20 To 40, Deduct</i>	-299.67	
			<i>For >40, Deduct</i>	-493.71	
26 56	13 00-0138		Round Tapered, Aluminum Roadway Light Poles With Truss Style Arms ^(26 56 13 00-0091)		
26 56	13 00-0139		Round Tapered, Aluminum Roadway Light Poles With Single Truss Style Arm ^(26 56 13 00-0138)		
26 56	13 00-0140	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	3,321.94	505.12
			<i>For >10 To 20, Deduct</i>	-83.05	
			<i>For >20 To 40, Deduct</i>	-166.10	
			<i>For >40, Deduct</i>	-274.40	
26 56	13 00-0141	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	3,346.56	505.12
			<i>For >10 To 20, Deduct</i>	-83.66	
			<i>For >20 To 40, Deduct</i>	-167.33	
			<i>For >40, Deduct</i>	-276.25	
26 56	13 00-0142	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	3,409.46	505.12
			<i>For >10 To 20, Deduct</i>	-85.24	
			<i>For >20 To 40, Deduct</i>	-170.47	
			<i>For >40, Deduct</i>	-280.97	
26 56	13 00-0143	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	3,503.85	505.12
			<i>For >10 To 20, Deduct</i>	-87.60	
			<i>For >20 To 40, Deduct</i>	-175.19	
			<i>For >40, Deduct</i>	-288.04	
26 56	13 00-0144	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	3,740.08	568.26
			<i>For >10 To 20, Deduct</i>	-93.50	
			<i>For >20 To 40, Deduct</i>	-187.00	
			<i>For >40, Deduct</i>	-308.92	
26 56	13 00-0145	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	3,795.58	568.26
			<i>For >10 To 20, Deduct</i>	-94.89	
			<i>For >20 To 40, Deduct</i>	-189.78	
			<i>For >40, Deduct</i>	-313.08	
26 56	13 00-0146	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	3,854.78	568.26
			<i>For >10 To 20, Deduct</i>	-96.37	
			<i>For >20 To 40, Deduct</i>	-192.74	
			<i>For >40, Deduct</i>	-317.52	
26 56	13 00-0147	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,211.89	568.26
			<i>For >10 To 20, Deduct</i>	-105.30	
			<i>For >20 To 40, Deduct</i>	-210.59	
			<i>For >40, Deduct</i>	-344.30	
26 56	13 00-0148	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	4,057.17	599.83
			<i>For >10 To 20, Deduct</i>	-101.43	
			<i>For >20 To 40, Deduct</i>	-202.86	
			<i>For >40, Deduct</i>	-334.28	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0149	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,515.39	599.83
			<i>For >10 To 20, Deduct</i>	-112.88	
			<i>For >20 To 40, Deduct</i>	-225.77	
			<i>For >40, Deduct</i>	-368.65	
26 56	13 00-0150	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,560.02	599.83
			<i>For >10 To 20, Deduct</i>	-114.00	
			<i>For >20 To 40, Deduct</i>	-228.00	
			<i>For >40, Deduct</i>	-371.99	
26 56	13 00-0151	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,843.34	599.83
			<i>For >10 To 20, Deduct</i>	-121.08	
			<i>For >20 To 40, Deduct</i>	-242.17	
			<i>For >40, Deduct</i>	-393.24	
26 56	13 00-0152	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,101.75	599.83
			<i>For >10 To 20, Deduct</i>	-127.54	
			<i>For >20 To 40, Deduct</i>	-255.09	
			<i>For >40, Deduct</i>	-412.62	
26 56 13 00-0153 Round Tapered, Aluminum Roadway Light Poles With Two Truss Style Arms <small>(26 56 13 00-0138)</small>					
26 56	13 00-0154	EA	25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	4,302.30	631.40
			<i>For >10 To 20, Deduct</i>	-107.56	
			<i>For >20 To 40, Deduct</i>	-215.12	
			<i>For >40, Deduct</i>	-354.24	
26 56	13 00-0155	EA	25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	4,428.35	662.97
			<i>For >10 To 20, Deduct</i>	-110.71	
			<i>For >20 To 40, Deduct</i>	-221.42	
			<i>For >40, Deduct</i>	-365.28	
26 56	13 00-0156	EA	25' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	4,531.96	694.54
			<i>For >10 To 20, Deduct</i>	-113.30	
			<i>For >20 To 40, Deduct</i>	-226.60	
			<i>For >40, Deduct</i>	-374.62	
26 56	13 00-0157	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	4,639.79	694.54
			<i>For >10 To 20, Deduct</i>	-115.99	
			<i>For >20 To 40, Deduct</i>	-231.99	
			<i>For >40, Deduct</i>	-382.71	
26 56	13 00-0158	EA	30' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,030.81	726.11
			<i>For >10 To 20, Deduct</i>	-125.77	
			<i>For >20 To 40, Deduct</i>	-251.54	
			<i>For >40, Deduct</i>	-413.62	
26 56	13 00-0159	EA	30' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	5,740.87	757.68
			<i>For >10 To 20, Deduct</i>	-143.52	
			<i>For >20 To 40, Deduct</i>	-287.04	
			<i>For >40, Deduct</i>	-468.45	
26 56	13 00-0160	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,549.66	726.11
			<i>For >10 To 20, Deduct</i>	-138.74	
			<i>For >20 To 40, Deduct</i>	-277.48	
			<i>For >40, Deduct</i>	-452.53	
26 56	13 00-0161	EA	35' High, 10" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,665.51	757.68
			<i>For >10 To 20, Deduct</i>	-141.64	
			<i>For >20 To 40, Deduct</i>	-283.28	
			<i>For >40, Deduct</i>	-462.80	
26 56	13 00-0162	EA	35' High, 10" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	6,834.93	789.25
			<i>For >10 To 20, Deduct</i>	-170.87	
			<i>For >20 To 40, Deduct</i>	-341.75	
			<i>For >40, Deduct</i>	-552.08	
26 56 13 00-0163 Round Tapered, Aluminum Roadway Light Poles With Davit Style Arm <small>(26 56 13 00-0091)</small>					
26 56 13 00-0164 Round Tapered, Aluminum Roadway Light Poles With Single Davit Style Arm <small>(26 56 13 00-0163)</small>					
26 56	13 00-0165	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	2,710.01	378.84
			<i>For >10 To 20, Deduct</i>	-67.75	
			<i>For >20 To 40, Deduct</i>	-135.50	
			<i>For >40, Deduct</i>	-222.19	
26 56	13 00-0166	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	2,779.56	378.84
			<i>For >10 To 20, Deduct</i>	-69.49	
			<i>For >20 To 40, Deduct</i>	-138.98	
			<i>For >40, Deduct</i>	-227.41	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0167	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base	2,849.26	378.84
			For >10 To 20, Deduct	-71.23	
			For >20 To 40, Deduct	-142.46	
			For >40, Deduct	-232.64	
26 56	13 00-0168	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base	3,246.95	505.12
			For >10 To 20, Deduct	-81.17	
			For >20 To 40, Deduct	-162.35	
			For >40, Deduct	-268.78	
26 56	13 00-0169	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base	3,299.96	505.12
			For >10 To 20, Deduct	-82.50	
			For >20 To 40, Deduct	-165.00	
			For >40, Deduct	-272.75	
26 56	13 00-0170	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base	3,357.88	505.12
			For >10 To 20, Deduct	-83.95	
			For >20 To 40, Deduct	-167.89	
			For >40, Deduct	-277.10	
26 56	13 00-0171	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base	3,663.81	568.26
			For >10 To 20, Deduct	-91.60	
			For >20 To 40, Deduct	-183.19	
			For >40, Deduct	-303.20	
26 56	13 00-0172	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base	3,735.77	568.26
			For >10 To 20, Deduct	-93.39	
			For >20 To 40, Deduct	-186.79	
			For >40, Deduct	-308.60	
26 56	13 00-0173	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base	3,746.57	568.26
			For >10 To 20, Deduct	-93.66	
			For >20 To 40, Deduct	-187.33	
			For >40, Deduct	-309.41	
26 56	13 00-0174	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base	3,983.02	599.83
			For >10 To 20, Deduct	-99.58	
			For >20 To 40, Deduct	-199.15	
			For >40, Deduct	-328.72	
26 56	13 00-0175	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base	4,014.58	599.83
			For >10 To 20, Deduct	-100.36	
			For >20 To 40, Deduct	-200.73	
			For >40, Deduct	-331.09	
26 56	13 00-0176	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base	4,088.58	599.83
			For >10 To 20, Deduct	-102.21	
			For >20 To 40, Deduct	-204.43	
			For >40, Deduct	-336.64	
26 56	13 00-0177		Area Light Poles <small>(26 56 13 00-0001)</small> Note: Excludes lighting fixtures.		
26 56	13 00-0178		Steel Area Light Poles <small>(26 56 13 00-0177)</small> Note: Includes powdercoat finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.		
26 56	13 00-0179		Round Straight, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56	13 00-0180		Round Straight, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0179)</small>		
26 56	13 00-0181	EA	10' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,212.79	220.99
			For Galvanized Finish, Add	23.12	
			For >10 To 20, Deduct	-41.88	
			For >20 To 40, Deduct	-76.06	
			For >40, Deduct	-159.82	
26 56	13 00-0182	EA	12' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,318.64	252.56
			For Galvanized Finish, Add	24.41	
			For >10 To 20, Deduct	-45.17	
			For >20 To 40, Deduct	-82.20	
			For >40, Deduct	-172.54	
26 56	13 00-0183	EA	14' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,473.59	284.13
			For Galvanized Finish, Add	27.16	
			For >10 To 20, Deduct	-50.42	
			For >20 To 40, Deduct	-91.79	
			For >40, Deduct	-192.63	
26 56	13 00-0184	EA	16' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,632.81	315.70
			For Galvanized Finish, Add	30.04	
			For >10 To 20, Deduct	-55.84	
			For >20 To 40, Deduct	-101.67	
			For >40, Deduct	-213.35	
26 56	13 00-0185	EA	18' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,738.66	347.27
			For Galvanized Finish, Add	31.32	
			For >10 To 20, Deduct	-59.13	
			For >20 To 40, Deduct	-107.82	
			For >40, Deduct	-226.07	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0186 EA 20' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,833.83	378.84
For Galvanized Finish, Add	32.28	
For >10 To 20, Deduct	-61.99	
For >20 To 40, Deduct	-113.21	
For >40, Deduct	-237.19	
26 56 13 00-0187 EA 10' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,268.31	220.99
For Galvanized Finish, Add	24.79	
For >10 To 20, Deduct	-44.10	
For >20 To 40, Deduct	-79.94	
For >40, Deduct	-168.15	
26 56 13 00-0188 EA 12' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,376.29	252.56
For Galvanized Finish, Add	26.14	
For >10 To 20, Deduct	-47.47	
For >20 To 40, Deduct	-86.24	
For >40, Deduct	-181.19	
26 56 13 00-0189 EA 14' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,588.89	284.13
For Galvanized Finish, Add	30.62	
For >10 To 20, Deduct	-55.03	
For >20 To 40, Deduct	-99.86	
For >40, Deduct	-209.92	
26 56 13 00-0190 EA 16' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,707.55	315.70
For Galvanized Finish, Add	32.28	
For >10 To 20, Deduct	-58.83	
For >20 To 40, Deduct	-106.90	
For >40, Deduct	-224.56	
26 56 13 00-0191 EA 18' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,819.80	347.27
For Galvanized Finish, Add	33.76	
For >10 To 20, Deduct	-62.37	
For >20 To 40, Deduct	-113.50	
For >40, Deduct	-238.24	
26 56 13 00-0192 EA 20' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,910.69	378.84
For Galvanized Finish, Add	34.59	
For >10 To 20, Deduct	-65.06	
For >20 To 40, Deduct	-118.59	
For >40, Deduct	-248.72	
26 56 13 00-0193 EA 25' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,242.26	505.12
For Galvanized Finish, Add	36.96	
For >10 To 20, Deduct	-74.54	
For >20 To 40, Deduct	-136.75	
For >40, Deduct	-285.83	
26 56 13 00-0194 EA 10' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,268.31	220.99
For Galvanized Finish, Add	24.79	
For >10 To 20, Deduct	-44.10	
For >20 To 40, Deduct	-79.94	
For >40, Deduct	-168.15	
26 56 13 00-0195 EA 12' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,382.69	252.56
For Galvanized Finish, Add	26.33	
For >10 To 20, Deduct	-47.73	
For >20 To 40, Deduct	-86.69	
For >40, Deduct	-182.15	
26 56 13 00-0196 EA 14' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,623.05	284.13
For Galvanized Finish, Add	31.64	
For >10 To 20, Deduct	-56.40	
For >20 To 40, Deduct	-102.25	
For >40, Deduct	-215.04	
26 56 13 00-0197 EA 16' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,713.95	315.70
For Galvanized Finish, Add	32.48	
For >10 To 20, Deduct	-59.09	
For >20 To 40, Deduct	-107.35	
For >40, Deduct	-225.52	
26 56 13 00-0198 EA 18' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,819.80	347.27
For Galvanized Finish, Add	33.76	
For >10 To 20, Deduct	-62.37	
For >20 To 40, Deduct	-113.50	
For >40, Deduct	-238.24	
26 56 13 00-0199 EA 20' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,910.69	378.84
For Galvanized Finish, Add	34.59	
For >10 To 20, Deduct	-65.06	
For >20 To 40, Deduct	-118.59	
For >40, Deduct	-248.72	
26 56 13 00-0200 EA 25' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,302.04	505.12
For Galvanized Finish, Add	38.75	
For >10 To 20, Deduct	-76.93	
For >20 To 40, Deduct	-140.94	
For >40, Deduct	-294.79	
26 56 13 00-0201 EA 30' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,539.35	568.26
For Galvanized Finish, Add	42.08	
For >10 To 20, Deduct	-84.53	
For >20 To 40, Deduct	-155.02	
For >40, Deduct	-324.08	
26 56 13 00-0202 EA 20' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,047.35	378.84
For Galvanized Finish, Add	38.69	
For >10 To 20, Deduct	-70.53	
For >20 To 40, Deduct	-128.16	
For >40, Deduct	-269.22	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0203	EA		25' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,329.80 39.59 -78.04 -142.88 -298.96	505.12
26 56 13 00-0204	EA		30' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,592.73 43.69 -86.66 -158.76 -332.08	568.26
26 56 13 00-0205			Round Tapered, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56 13 00-0206			Round Tapered, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0205)</small>		
26 56 13 00-0207	EA		20' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,529.90 53.17 -89.83 -161.94 -341.60	378.84
26 56 13 00-0208	EA		20' High, 6.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,596.10 55.15 -92.48 -166.57 -351.53	378.84
26 56 13 00-0209	EA		25' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,993.85 59.51 -104.60 -189.36 -398.57	505.12
26 56 13 00-0210	EA		25' High, 7.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,130.50 63.61 -110.07 -198.93 -419.06	505.12
26 56 13 00-0211	EA		30' High, 6.60" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,333.65 65.91 -116.30 -210.63 -443.22	568.26
26 56 13 00-0212	EA		30' High, 8.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,562.12 72.77 -125.44 -226.62 -477.49	568.26
26 56 13 00-0213	EA		35' High, 7.30" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,672.23 74.18 -128.89 -233.06 -490.85	599.83
26 56 13 00-0214	EA		35' High, 8.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,813.16 78.41 -134.53 -242.93 -511.99	599.83
26 56 13 00-0215	EA		35' High, 9.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,150.52 88.53 -148.03 -266.54 -562.60	599.83
26 56 13 00-0216	EA		39' High, 7.82" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,188.04 87.76 -148.58 -267.91 -565.07	631.40
26 56 13 00-0217	EA		39' High, 9.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,247.82 89.55 -150.97 -272.09 -574.03	631.40
26 56 13 00-0218	EA		45' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,777.54 124.08 -206.48 -371.60 -784.55	820.83
26 56 13 00-0219	EA		50' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	6,017.30 123.69 -212.28 -383.33 -807.88	947.10
26 56 13 00-0220	EA		25' High, 7.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,057.18 91.41 -147.13 -263.80 -558.07	505.12

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0221	EA	30' High, 8.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,606.24	568.26
			<i>For Galvanized Finish, Add</i>	104.09	
			<i>For >10 To 20, Deduct</i>	-167.20	
			<i>For >20 To 40, Deduct</i>	-299.71	
			<i>For >40, Deduct</i>	-634.11	
26 56	13 00-0222	EA	39' High, 9.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	5,338.92	631.40
			<i>For Galvanized Finish, Add</i>	122.28	
			<i>For >10 To 20, Deduct</i>	-194.61	
			<i>For >20 To 40, Deduct</i>	-348.47	
			<i>For >40, Deduct</i>	-737.70	
26 56	13 00-0223	EA	45' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	6,443.73	820.83
			<i>For Galvanized Finish, Add</i>	144.06	
			<i>For >10 To 20, Deduct</i>	-233.12	
			<i>For >20 To 40, Deduct</i>	-418.23	
			<i>For >40, Deduct</i>	-884.48	
26 56	13 00-0224	EA	50' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	7,520.49	947.10
			<i>For Galvanized Finish, Add</i>	168.79	
			<i>For >10 To 20, Deduct</i>	-272.41	
			<i>For >20 To 40, Deduct</i>	-488.55	
			<i>For >40, Deduct</i>	-1,033.36	
26 56	13 00-0225	EA	50' High, 11.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	8,389.52	947.10
			<i>For Galvanized Finish, Add</i>	194.86	
			<i>For >10 To 20, Deduct</i>	-307.17	
			<i>For >20 To 40, Deduct</i>	-549.38	
			<i>For >40, Deduct</i>	-1,163.72	
26 56	13 00-0226	EA	50' High, 13.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	11,293.40	947.10
			<i>For Galvanized Finish, Add</i>	281.98	
			<i>For >10 To 20, Deduct</i>	-423.32	
			<i>For >20 To 40, Deduct</i>	-752.65	
			<i>For >40, Deduct</i>	-1,599.30	
26 56	13 00-0227	EA	50' High, 13.00" Base OD, 3 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	12,702.64	947.10
			<i>For Galvanized Finish, Add</i>	324.25	
			<i>For >10 To 20, Deduct</i>	-479.69	
			<i>For >20 To 40, Deduct</i>	-851.30	
			<i>For >40, Deduct</i>	-1,810.69	
26 56	13 00-0228		Square Straight, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56	13 00-0229		Square Straight, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0228)</small>		
26 56	13 00-0230	EA	10' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,195.71	220.99
			<i>For Galvanized Finish, Add</i>	22.61	
			<i>For >10 To 20, Deduct</i>	-41.20	
			<i>For >20 To 40, Deduct</i>	-74.86	
			<i>For >40, Deduct</i>	-157.26	
26 56	13 00-0231	EA	12' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,258.85	252.56
			<i>For Galvanized Finish, Add</i>	22.61	
			<i>For >10 To 20, Deduct</i>	-42.78	
			<i>For >20 To 40, Deduct</i>	-78.02	
			<i>For >40, Deduct</i>	-163.57	
26 56	13 00-0232	EA	14' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,358.29	284.13
			<i>For Galvanized Finish, Add</i>	23.70	
			<i>For >10 To 20, Deduct</i>	-45.81	
			<i>For >20 To 40, Deduct</i>	-83.72	
			<i>For >40, Deduct</i>	-175.33	
26 56	13 00-0233	EA	15' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,441.10	299.92
			<i>For Galvanized Finish, Add</i>	25.24	
			<i>For >10 To 20, Deduct</i>	-48.65	
			<i>For >20 To 40, Deduct</i>	-88.88	
			<i>For >40, Deduct</i>	-186.17	
26 56	13 00-0234	EA	16' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,472.67	315.70
			<i>For Galvanized Finish, Add</i>	25.24	
			<i>For >10 To 20, Deduct</i>	-49.44	
			<i>For >20 To 40, Deduct</i>	-90.46	
			<i>For >40, Deduct</i>	-189.33	
26 56	13 00-0235	EA	18' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,559.30	347.27
			<i>For Galvanized Finish, Add</i>	25.94	
			<i>For >10 To 20, Deduct</i>	-51.95	
			<i>For >20 To 40, Deduct</i>	-95.26	
			<i>For >40, Deduct</i>	-199.17	
26 56	13 00-0236	EA	20' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,641.66	378.84
			<i>For Galvanized Finish, Add</i>	26.52	
			<i>For >10 To 20, Deduct</i>	-54.30	
			<i>For >20 To 40, Deduct</i>	-99.76	
			<i>For >40, Deduct</i>	-208.37	
26 56	13 00-0237	EA	25' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,022.33	505.12
			<i>For Galvanized Finish, Add</i>	30.36	
			<i>For >10 To 20, Deduct</i>	-65.74	
			<i>For >20 To 40, Deduct</i>	-121.36	
			<i>For >40, Deduct</i>	-252.84	
26 56	13 00-0238	EA	20' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,929.91	378.84
			<i>For Galvanized Finish, Add</i>	35.17	
			<i>For >10 To 20, Deduct</i>	-65.83	
			<i>For >20 To 40, Deduct</i>	-119.94	
			<i>For >40, Deduct</i>	-251.60	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0239	EA	25' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,419.48 42.28 -81.63 -149.16 -312.41	505.12
26 56	13 00-0240	EA	30' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,778.50 49.26 -94.09 -171.76 -359.95	568.26
26 56	13 00-0241	EA	20' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,850.91 32.80 -62.67 -114.41 -239.75	378.84
26 56	13 00-0242	EA	25' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,265.74 37.67 -75.48 -138.40 -289.35	505.12
26 56	13 00-0243	EA	30' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,646.11 45.29 -88.80 -162.50 -340.09	568.26
26 56	13 00-0244	EA	20' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,122.08 40.93 -73.52 -133.39 -280.43	378.84
26 56	13 00-0245	EA	25' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,611.65 48.04 -89.31 -162.61 -341.24	505.12
26 56	13 00-0246	EA	30' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,959.99 54.70 -101.35 -184.47 -387.17	568.26
26 56	13 00-0247	EA	35' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,287.90 62.65 -113.52 -206.16 -433.20	599.83
26 56	13 00-0248	EA	30' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,380.63 67.32 -118.18 -213.91 -450.27	568.26
26 56	13 00-0249	EA	35' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,710.67 75.33 -130.43 -235.75 -496.62	599.83
26 56	13 00-0250	EA	40' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,925.41 79.88 -138.07 -249.52 -525.67	631.40
26 56	13 00-0251		Hinged, Square Straight, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56	13 00-0252		Hinged, Square Straight, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0251)</small>		
26 56	13 00-0253	EA	20' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,298.30 106.22 -160.57 -285.73 -606.86	378.84
26 56	13 00-0254	EA	25' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,791.60 113.44 -176.51 -315.21 -668.23	505.12
26 56	13 00-0255	EA	30' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	6,716.58 167.40 -251.62 -447.43 -950.66	568.26
26 56	13 00-0256	EA	20' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,384.61 108.81 -164.02 -291.77 -619.81	378.84

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0257	EA		25' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,293.51	505.12
			<i>For Galvanized Finish, Add</i>	128.50	
			<i>For >10 To 20, Deduct</i>	-196.59	
			<i>For >20 To 40, Deduct</i>	-350.34	
			<i>For >40, Deduct</i>	-743.51	
26 56 13 00-0258	EA		30' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	7,463.77	568.26
			<i>For Galvanized Finish, Add</i>	189.82	
			<i>For >10 To 20, Deduct</i>	-281.50	
			<i>For >20 To 40, Deduct</i>	-499.73	
			<i>For >40, Deduct</i>	-1,062.74	
26 56 13 00-0259	EA		39' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	8,569.34	599.83
			<i>For Galvanized Finish, Add</i>	221.09	
			<i>For >10 To 20, Deduct</i>	-324.78	
			<i>For >20 To 40, Deduct</i>	-575.86	
			<i>For >40, Deduct</i>	-1,225.42	
26 56 13 00-0260	EA		39' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	10,079.16	631.40
			<i>For Galvanized Finish, Add</i>	264.49	
			<i>For >10 To 20, Deduct</i>	-384.22	
			<i>For >20 To 40, Deduct</i>	-680.29	
			<i>For >40, Deduct</i>	-1,448.73	
26 56 13 00-0261	EA		20' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,162.04	378.84
			<i>For Galvanized Finish, Add</i>	102.13	
			<i>For >10 To 20, Deduct</i>	-155.12	
			<i>For >20 To 40, Deduct</i>	-276.19	
			<i>For >40, Deduct</i>	-586.42	
26 56 13 00-0262	EA		25' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,573.58	505.12
			<i>For Galvanized Finish, Add</i>	106.90	
			<i>For >10 To 20, Deduct</i>	-167.79	
			<i>For >20 To 40, Deduct</i>	-299.95	
			<i>For >40, Deduct</i>	-635.53	
26 56 13 00-0263	EA		30' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	6,332.77	568.26
			<i>For Galvanized Finish, Add</i>	155.89	
			<i>For >10 To 20, Deduct</i>	-236.26	
			<i>For >20 To 40, Deduct</i>	-420.56	
			<i>For >40, Deduct</i>	-893.09	
26 56 13 00-0264	EA		20' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,318.74	378.84
			<i>For Galvanized Finish, Add</i>	106.83	
			<i>For >10 To 20, Deduct</i>	-161.38	
			<i>For >20 To 40, Deduct</i>	-287.16	
			<i>For >40, Deduct</i>	-609.93	
26 56 13 00-0265	EA		25' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,089.11	505.12
			<i>For Galvanized Finish, Add</i>	122.37	
			<i>For >10 To 20, Deduct</i>	-188.41	
			<i>For >20 To 40, Deduct</i>	-336.03	
			<i>For >40, Deduct</i>	-712.85	
26 56 13 00-0266	EA		30' High, 6.44" OD, 7 Gauge, Hinged Square Straight, Steel Area Light Pole, Anchor Base	7,179.88	568.26
			<i>For Galvanized Finish, Add</i>	181.30	
			<i>For >10 To 20, Deduct</i>	-270.15	
			<i>For >20 To 40, Deduct</i>	-479.86	
			<i>For >40, Deduct</i>	-1,020.16	
26 56 13 00-0267	EA		20' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,559.48	378.84
			<i>For Galvanized Finish, Add</i>	114.05	
			<i>For >10 To 20, Deduct</i>	-171.01	
			<i>For >20 To 40, Deduct</i>	-304.01	
			<i>For >40, Deduct</i>	-646.04	
26 56 13 00-0268	EA		25' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,522.89	505.12
			<i>For Galvanized Finish, Add</i>	135.38	
			<i>For >10 To 20, Deduct</i>	-205.76	
			<i>For >20 To 40, Deduct</i>	-366.40	
			<i>For >40, Deduct</i>	-777.92	
26 56 13 00-0269	EA		30' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	7,690.88	568.26
			<i>For Galvanized Finish, Add</i>	196.63	
			<i>For >10 To 20, Deduct</i>	-290.59	
			<i>For >20 To 40, Deduct</i>	-515.63	
			<i>For >40, Deduct</i>	-1,096.81	
26 56 13 00-0270	EA		35' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	8,846.41	599.83
			<i>For Galvanized Finish, Add</i>	229.40	
			<i>For >10 To 20, Deduct</i>	-335.86	
			<i>For >20 To 40, Deduct</i>	-595.26	
			<i>For >40, Deduct</i>	-1,266.98	
26 56 13 00-0271	EA		39' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	10,226.78	631.40
			<i>For Galvanized Finish, Add</i>	268.92	
			<i>For >10 To 20, Deduct</i>	-390.13	
			<i>For >20 To 40, Deduct</i>	-690.62	
			<i>For >40, Deduct</i>	-1,470.88	
26 56 13 00-0272			Square Tapered, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56 13 00-0273			Square Tapered, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0272)</small>		
26 56 13 00-0274	EA		20' High, 5.25" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	3,249.47	378.84
			<i>For Galvanized Finish, Add</i>	74.75	
			<i>For >10 To 20, Deduct</i>	-118.61	
			<i>For >20 To 40, Deduct</i>	-212.31	
			<i>For >40, Deduct</i>	-449.54	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0275	EA		25' High, 6.00" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	3,941.88	505.12
			<i>For Galvanized Finish, Add</i>	87.95	
			<i>For >10 To 20, Deduct</i>	-142.52	
			<i>For >20 To 40, Deduct</i>	-255.73	
			<i>For >40, Deduct</i>	-540.77	
26 56 13 00-0276	EA		30' High, 6.41" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	4,386.31	568.26
			<i>For Galvanized Finish, Add</i>	97.49	
			<i>For >10 To 20, Deduct</i>	-158.40	
			<i>For >20 To 40, Deduct</i>	-284.31	
			<i>For >40, Deduct</i>	-601.12	
26 56 13 00-0277	EA		35' High, 6.81" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	4,870.09	599.83
			<i>For Galvanized Finish, Add</i>	110.11	
			<i>For >10 To 20, Deduct</i>	-176.81	
			<i>For >20 To 40, Deduct</i>	-316.91	
			<i>For >40, Deduct</i>	-670.53	
26 56 13 00-0278	EA		39' High, 7.18" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	5,133.94	631.40
			<i>For Galvanized Finish, Add</i>	116.13	
			<i>For >10 To 20, Deduct</i>	-186.42	
			<i>For >20 To 40, Deduct</i>	-334.12	
			<i>For >40, Deduct</i>	-706.95	
26 56 13 00-0279	EA		20' High, 5.50" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	4,208.18	378.84
			<i>For Galvanized Finish, Add</i>	103.52	
			<i>For >10 To 20, Deduct</i>	-156.96	
			<i>For >20 To 40, Deduct</i>	-279.42	
			<i>For >40, Deduct</i>	-593.34	
26 56 13 00-0280	EA		25' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	4,693.48	505.12
			<i>For Galvanized Finish, Add</i>	110.50	
			<i>For >10 To 20, Deduct</i>	-172.59	
			<i>For >20 To 40, Deduct</i>	-308.34	
			<i>For >40, Deduct</i>	-653.51	
26 56 13 00-0281	EA		30' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	5,001.25	568.26
			<i>For Galvanized Finish, Add</i>	115.94	
			<i>For >10 To 20, Deduct</i>	-183.00	
			<i>For >20 To 40, Deduct</i>	-327.36	
			<i>For >40, Deduct</i>	-693.36	
26 56 13 00-0282	EA		30' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	5,564.95	568.26
			<i>For Galvanized Finish, Add</i>	132.85	
			<i>For >10 To 20, Deduct</i>	-205.55	
			<i>For >20 To 40, Deduct</i>	-366.82	
			<i>For >40, Deduct</i>	-777.92	
26 56 13 00-0283	EA		35' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	6,033.78	599.83
			<i>For Galvanized Finish, Add</i>	145.02	
			<i>For >10 To 20, Deduct</i>	-223.36	
			<i>For >20 To 40, Deduct</i>	-398.37	
			<i>For >40, Deduct</i>	-845.08	
26 56 13 00-0284	EA		35' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	6,731.99	599.83
			<i>For Galvanized Finish, Add</i>	165.97	
			<i>For >10 To 20, Deduct</i>	-251.28	
			<i>For >20 To 40, Deduct</i>	-447.25	
			<i>For >40, Deduct</i>	-949.82	
26 56 13 00-0285	EA		39' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	6,128.94	631.40
			<i>For Galvanized Finish, Add</i>	145.98	
			<i>For >10 To 20, Deduct</i>	-226.22	
			<i>For >20 To 40, Deduct</i>	-403.77	
			<i>For >40, Deduct</i>	-856.20	
26 56 13 00-0286	EA		39' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	7,847.79	631.40
			<i>For Galvanized Finish, Add</i>	197.55	
			<i>For >10 To 20, Deduct</i>	-294.97	
			<i>For >20 To 40, Deduct</i>	-524.09	
			<i>For >40, Deduct</i>	-1,114.03	
26 56 13 00-0287	EA		45' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	7,231.62	820.83
			<i>For Galvanized Finish, Add</i>	167.70	
			<i>For >10 To 20, Deduct</i>	-264.64	
			<i>For >20 To 40, Deduct</i>	-473.38	
			<i>For >40, Deduct</i>	-1,002.66	
26 56 13 00-0288	EA		45' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	8,403.85	820.83
			<i>For Galvanized Finish, Add</i>	202.87	
			<i>For >10 To 20, Deduct</i>	-311.53	
			<i>For >20 To 40, Deduct</i>	-555.44	
			<i>For >40, Deduct</i>	-1,178.50	
26 56 13 00-0289	EA		50' High, 8.81" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	8,716.21	947.10
			<i>For Galvanized Finish, Add</i>	204.66	
			<i>For >10 To 20, Deduct</i>	-320.24	
			<i>For >20 To 40, Deduct</i>	-572.25	
			<i>For >40, Deduct</i>	-1,212.72	

26 56 13 00-0290

Factory Accessories For Steel Area Light Poles (26 56 13 00-0178)

26 56 13 00-0291	EA	1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Steel Area Light Poles.....	75.70
26 56 13 00-0292	EA	Extra Handhole For Steel Area Light Poles	112.58
26 56 13 00-0293	EA	Vibration Dampener For Steel Area Light Poles	114.52

26 56 13 00-0294

Aluminum Area Light Poles (26 56 13 00-0177)

Note: Includes satin brushed or painted finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0295			Round Straight, Aluminum Area Light Poles <small>(26 56 13 00-0294)</small>		
26 56 13 00-0296			Round Straight, Aluminum Area Light Poles, Anchor Base <small>(26 56 13 00-0295)</small>		
26 56 13 00-0297	EA		8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base .....716.29	716.29	189.42
			<i>For Bronze Or Satin Anodized Finish, Add</i> 33.75		
			<i>For Black Anodized Finish, Add</i> 67.49		
			<i>For >10 To 20, Deduct</i> -22.97		
			<i>For >20 To 40, Deduct</i> -42.56		
			<i>For >40, Deduct</i> -88.50		
26 56 13 00-0298	EA		10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base .....796.74	796.74	220.99
			<i>For Bronze Or Satin Anodized Finish, Add</i> 35.48		
			<i>For Black Anodized Finish, Add</i> 70.95		
			<i>For >10 To 20, Deduct</i> -25.24		
			<i>For >20 To 40, Deduct</i> -46.93		
			<i>For >40, Deduct</i> -97.41		
26 56 13 00-0299	EA		12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base .....881.51	881.51	252.56
			<i>For Bronze Or Satin Anodized Finish, Add</i> 37.64		
			<i>For Black Anodized Finish, Add</i> 75.28		
			<i>For >10 To 20, Deduct</i> -27.68		
			<i>For >20 To 40, Deduct</i> -51.60		
			<i>For >40, Deduct</i> -106.97		
26 56 13 00-0300	EA		14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base .....967.14	967.14	284.13
			<i>For Bronze Or Satin Anodized Finish, Add</i> 39.89		
			<i>For Black Anodized Finish, Add</i> 79.78		
			<i>For >10 To 20, Deduct</i> -30.16		
			<i>For >20 To 40, Deduct</i> -56.33		
			<i>For >40, Deduct</i> -116.66		
26 56 13 00-0301	EA		15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base .....1,013.42	1,013.42	299.92
			<i>For Bronze Or Satin Anodized Finish, Add</i> 41.36		
			<i>For Black Anodized Finish, Add</i> 82.72		
			<i>For >10 To 20, Deduct</i> -31.54		
			<i>For >20 To 40, Deduct</i> -58.94		
			<i>For >40, Deduct</i> -122.02		
26 56 13 00-0302	EA		16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base .....1,058.84	1,058.84	315.70
			<i>For Bronze Or Satin Anodized Finish, Add</i> 42.74		
			<i>For Black Anodized Finish, Add</i> 85.49		
			<i>For >10 To 20, Deduct</i> -32.88		
			<i>For >20 To 40, Deduct</i> -61.49		
			<i>For >40, Deduct</i> -127.26		
26 56 13 00-0303	EA		16' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base .....1,110.75	1,110.75	315.70
			<i>For Bronze Or Satin Anodized Finish, Add</i> 47.94		
			<i>For Black Anodized Finish, Add</i> 95.87		
			<i>For >10 To 20, Deduct</i> -34.96		
			<i>For >20 To 40, Deduct</i> -65.12		
			<i>For >40, Deduct</i> -135.04		
26 56 13 00-0304	EA		18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base .....1,206.77	1,206.77	347.27
			<i>For Bronze Or Satin Anodized Finish, Add</i> 51.22		
			<i>For Black Anodized Finish, Add</i> 102.45		
			<i>For >10 To 20, Deduct</i> -37.85		
			<i>For >20 To 40, Deduct</i> -70.58		
			<i>For >40, Deduct</i> -146.29		
26 56 13 00-0305	EA		20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base .....1,297.60	1,297.60	378.84
			<i>For Bronze Or Satin Anodized Finish, Add</i> 53.99		
			<i>For Black Anodized Finish, Add</i> 107.98		
			<i>For >10 To 20, Deduct</i> -40.54		
			<i>For >20 To 40, Deduct</i> -75.68		
			<i>For >40, Deduct</i> -156.76		
26 56 13 00-0306	EA		15' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base .....1,204.65	1,204.65	299.92
			<i>For Bronze Or Satin Anodized Finish, Add</i> 60.48		
			<i>For Black Anodized Finish, Add</i> 120.96		
			<i>For >10 To 20, Deduct</i> -39.19		
			<i>For >20 To 40, Deduct</i> -72.33		
			<i>For >40, Deduct</i> -150.71		
26 56 13 00-0307	EA		20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base .....1,488.82	1,488.82	378.84
			<i>For Bronze Or Satin Anodized Finish, Add</i> 73.11		
			<i>For Black Anodized Finish, Add</i> 146.23		
			<i>For >10 To 20, Deduct</i> -48.19		
			<i>For >20 To 40, Deduct</i> -89.06		
			<i>For >40, Deduct</i> -185.44		
26 56 13 00-0308	EA		20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base .....1,585.73	1,585.73	378.84
			<i>For Bronze Or Satin Anodized Finish, Add</i> 82.81		
			<i>For Black Anodized Finish, Add</i> 165.61		
			<i>For >10 To 20, Deduct</i> -52.06		
			<i>For >20 To 40, Deduct</i> -95.85		
			<i>For >40, Deduct</i> -199.98		
26 56 13 00-0309	EA		25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base .....1,929.15	1,929.15	505.12
			<i>For Bronze Or Satin Anodized Finish, Add</i> 91.89		
			<i>For Black Anodized Finish, Add</i> 183.78		
			<i>For >10 To 20, Deduct</i> -62.01		
			<i>For >20 To 40, Deduct</i> -114.84		
			<i>For >40, Deduct</i> -238.86		



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0310	EA	30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,227.61 109.11 218.22 -72.06 -133.20 -277.32	568.26
26 56	13 00-0311	EA	20' High, 4" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,357.31 59.96 119.93 -42.93 -79.86 -165.71	378.84
26 56	13 00-0312	EA	20' High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,577.95 82.03 164.05 -51.75 -95.30 -198.81	378.84
26 56	13 00-0313	EA	25' High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,915.30 90.51 181.01 -61.46 -113.87 -236.78	505.12
26 56	13 00-0314	EA	25' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,040.76 103.05 206.10 -66.48 -122.65 -255.60	505.12
26 56	13 00-0315	EA	30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,369.52 123.30 246.60 -77.73 -143.14 -298.60	568.26
26 56 13 00-0316 Round Straight, Aluminum Area Light Poles, Hinged Anchor Base <small>(26 56 13 00-0295)</small>					
26 56	13 00-0317	EA	8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	804.55 63.86 -26.50 -48.74 -101.74	189.42
26 56	13 00-0318	EA	10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	902.30 69.05 -29.46 -54.32 -113.25	220.99
26 56	13 00-0319	EA	12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	996.59 73.72 -32.29 -59.66 -124.23	252.56
26 56	13 00-0320	EA	14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,074.44 75.93 -34.45 -63.85 -132.75	284.13
26 56	13 00-0321	EA	16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,162.67 79.69 -37.04 -68.76 -142.83	315.70
26 56	13 00-0322	EA	10' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	920.47 71.77 -30.19 -55.59 -115.97	220.99
26 56	13 00-0323	EA	12' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,013.03 76.19 -32.94 -60.81 -126.70	252.56
26 56	13 00-0324	EA	14' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,108.18 80.99 -35.80 -66.21 -137.81	284.13
26 56	13 00-0325	EA	16' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,202.47 85.66 -38.63 -71.54 -148.80	315.70

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0326 EA 18' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,301.09 90.98 -41.63 -77.19 -160.44	347.27
26 56 13 00-0327 EA 20' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,394.51 95.52 -44.42 -82.46 -171.29	378.84
26 56 13 00-0328 EA 12' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,046.77 81.25 -34.29 -63.17 -131.76	252.56
26 56 13 00-0329 EA 14' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,147.98 86.96 -37.40 -68.99 -143.78	284.13
26 56 13 00-0330 EA 16' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,248.33 92.54 -40.46 -74.76 -155.68	315.70
26 56 13 00-0331 EA 18' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,350.41 98.38 -43.60 -80.64 -167.83	347.27
26 56 13 00-0332 EA 16' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,296.78 99.81 -42.40 -78.15 -162.95	315.70
26 56 13 00-0333 EA 20' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,507.86 112.53 -48.95 -90.40 -188.30	378.84
26 56 13 00-0334 EA 12' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,078.79 86.05 -35.57 -65.41 -136.56	252.56
26 56 13 00-0335 EA 14' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,189.52 93.19 -39.06 -71.90 -150.02	284.13
26 56 13 00-0336 EA 16' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,291.59 99.03 -42.19 -77.78 -162.17	315.70
26 56 13 00-0337 EA 18' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,398.86 105.65 -45.54 -84.03 -175.10	347.27
26 56 13 00-0338 EA 20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,503.53 111.88 -48.78 -90.09 -187.65	378.84
26 56 13 00-0339 EA 16' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,354.76 108.50 -44.72 -82.21 -171.64	315.70
26 56 13 00-0340 EA 18' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,469.81 116.29 -48.37 -89.00 -185.74	347.27
26 56 13 00-0341 EA 20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,530.36 115.90 -49.85 -91.97 -191.67	378.84

26 56 13 00-0342 Round Straight, Aluminum Area Light Poles, Direct Burial (26 56 13 00-0295)
 Note: Includes rubberized undercoating on embedded portion.



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0343	EA		10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	634.12	157.85
			<i>For Bronze Or Satin Anodized Finish, Add</i>	31.84	
			<i>For Black Anodized Finish, Add</i>	63.68	
			<i>For >10 To 20, Deduct</i>	-20.63	
			<i>For >20 To 40, Deduct</i>	-38.07	
			<i>For >40, Deduct</i>	-79.33	
26 56 13 00-0344	EA		12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	682.13	173.64
			<i>For Bronze Or Satin Anodized Finish, Add</i>	33.49	
			<i>For Black Anodized Finish, Add</i>	66.97	
			<i>For >10 To 20, Deduct</i>	-22.08	
			<i>For >20 To 40, Deduct</i>	-40.80	
			<i>For >40, Deduct</i>	-84.96	
26 56 13 00-0345	EA		14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	752.63	189.42
			<i>For Bronze Or Satin Anodized Finish, Add</i>	37.38	
			<i>For Black Anodized Finish, Add</i>	74.76	
			<i>For >10 To 20, Deduct</i>	-24.42	
			<i>For >20 To 40, Deduct</i>	-45.11	
			<i>For >40, Deduct</i>	-93.95	
26 56 13 00-0346	EA		15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	772.53	189.42
			<i>For Bronze Or Satin Anodized Finish, Add</i>	39.37	
			<i>For Black Anodized Finish, Add</i>	78.74	
			<i>For >10 To 20, Deduct</i>	-25.22	
			<i>For >20 To 40, Deduct</i>	-46.50	
			<i>For >40, Deduct</i>	-96.94	
26 56 13 00-0347	EA		16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	797.63	189.42
			<i>For Bronze Or Satin Anodized Finish, Add</i>	41.88	
			<i>For Black Anodized Finish, Add</i>	83.76	
			<i>For >10 To 20, Deduct</i>	-26.22	
			<i>For >20 To 40, Deduct</i>	-48.26	
			<i>For >40, Deduct</i>	-100.70	
26 56 13 00-0348	EA		18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	905.34	205.20
			<i>For Bronze Or Satin Anodized Finish, Add</i>	49.49	
			<i>For Black Anodized Finish, Add</i>	98.99	
			<i>For >10 To 20, Deduct</i>	-30.06	
			<i>For >20 To 40, Deduct</i>	-55.17	
			<i>For >40, Deduct</i>	-115.28	
26 56 13 00-0349	EA		20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	968.92	220.99
			<i>For Bronze Or Satin Anodized Finish, Add</i>	52.69	
			<i>For Black Anodized Finish, Add</i>	105.39	
			<i>For >10 To 20, Deduct</i>	-32.13	
			<i>For >20 To 40, Deduct</i>	-58.98	
			<i>For >40, Deduct</i>	-123.24	
26 56 13 00-0350	EA		20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,103.04	220.99
			<i>For Bronze Or Satin Anodized Finish, Add</i>	66.11	
			<i>For Black Anodized Finish, Add</i>	132.21	
			<i>For >10 To 20, Deduct</i>	-37.49	
			<i>For >20 To 40, Deduct</i>	-68.37	
			<i>For >40, Deduct</i>	-143.36	
26 56 13 00-0351	EA		25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,338.37	252.56
			<i>For Bronze Or Satin Anodized Finish, Add</i>	83.33	
			<i>For Black Anodized Finish, Add</i>	166.65	
			<i>For >10 To 20, Deduct</i>	-45.96	
			<i>For >20 To 40, Deduct</i>	-83.58	
			<i>For >40, Deduct</i>	-175.50	
26 56 13 00-0352	EA		30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,517.45	284.13
			<i>For Bronze Or Satin Anodized Finish, Add</i>	94.92	
			<i>For Black Anodized Finish, Add</i>	189.84	
			<i>For >10 To 20, Deduct</i>	-52.17	
			<i>For >20 To 40, Deduct</i>	-94.86	
			<i>For >40, Deduct</i>	-199.20	
26 56 13 00-0353	EA		30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Direct Burial	1,675.79	284.13
			<i>For Bronze Or Satin Anodized Finish, Add</i>	110.75	
			<i>For Black Anodized Finish, Add</i>	221.51	
			<i>For >10 To 20, Deduct</i>	-58.51	
			<i>For >20 To 40, Deduct</i>	-105.94	
			<i>For >40, Deduct</i>	-222.96	
26 56 13 00-0354			Round Tapered, Aluminum Area Light Poles <small>(26 56 13 00-0294)</small>		
26 56 13 00-0355			Round Tapered, Aluminum Area Light Poles, Anchor Base <small>(26 56 13 00-0354)</small>		
26 56 13 00-0356	EA		8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	623.71	189.42
			<i>For Bronze Or Satin Anodized Finish, Add</i>	24.49	
			<i>For Black Anodized Finish, Add</i>	48.97	
			<i>For >10 To 20, Deduct</i>	-19.27	
			<i>For >20 To 40, Deduct</i>	-36.08	
			<i>For >40, Deduct</i>	-74.61	
26 56 13 00-0357	EA		10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	706.75	220.99
			<i>For Bronze Or Satin Anodized Finish, Add</i>	26.48	
			<i>For Black Anodized Finish, Add</i>	52.95	
			<i>For >10 To 20, Deduct</i>	-21.64	
			<i>For >20 To 40, Deduct</i>	-40.63	
			<i>For >40, Deduct</i>	-83.91	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0358	EA		12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	789.79	252.56
			<i>For Bronze Or Satin Anodized Finish, Add</i>	28.47	
			<i>For Black Anodized Finish, Add</i>	56.93	
			<i>For >10 To 20, Deduct</i>	-24.01	
			<i>For >20 To 40, Deduct</i>	-45.18	
			<i>For >40, Deduct</i>	-93.21	
26 56 13 00-0359	EA		14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	880.62	284.13
			<i>For Bronze Or Satin Anodized Finish, Add</i>	31.24	
			<i>For Black Anodized Finish, Add</i>	62.47	
			<i>For >10 To 20, Deduct</i>	-26.70	
			<i>For >20 To 40, Deduct</i>	-50.28	
			<i>For >40, Deduct</i>	-103.68	
26 56 13 00-0360	EA		16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	970.58	315.70
			<i>For Bronze Or Satin Anodized Finish, Add</i>	33.92	
			<i>For Black Anodized Finish, Add</i>	67.84	
			<i>For >10 To 20, Deduct</i>	-29.35	
			<i>For >20 To 40, Deduct</i>	-55.31	
			<i>For >40, Deduct</i>	-114.02	
26 56 13 00-0361	EA		10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	729.25	220.99
			<i>For Bronze Or Satin Anodized Finish, Add</i>	28.73	
			<i>For Black Anodized Finish, Add</i>	57.45	
			<i>For >10 To 20, Deduct</i>	-22.54	
			<i>For >20 To 40, Deduct</i>	-42.21	
			<i>For >40, Deduct</i>	-87.29	
26 56 13 00-0362	EA		12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	825.27	252.56
			<i>For Bronze Or Satin Anodized Finish, Add</i>	32.02	
			<i>For Black Anodized Finish, Add</i>	64.03	
			<i>For >10 To 20, Deduct</i>	-25.43	
			<i>For >20 To 40, Deduct</i>	-47.67	
			<i>For >40, Deduct</i>	-98.53	
26 56 13 00-0363	EA		14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	918.69	284.13
			<i>For Bronze Or Satin Anodized Finish, Add</i>	35.04	
			<i>For Black Anodized Finish, Add</i>	70.09	
			<i>For >10 To 20, Deduct</i>	-28.22	
			<i>For >20 To 40, Deduct</i>	-52.94	
			<i>For >40, Deduct</i>	-109.39	
26 56 13 00-0364	EA		18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,099.48	347.27
			<i>For Bronze Or Satin Anodized Finish, Add</i>	40.49	
			<i>For Black Anodized Finish, Add</i>	80.99	
			<i>For >10 To 20, Deduct</i>	-33.56	
			<i>For >20 To 40, Deduct</i>	-63.07	
			<i>For >40, Deduct</i>	-130.20	
26 56 13 00-0365	EA		20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,184.25	378.84
			<i>For Bronze Or Satin Anodized Finish, Add</i>	42.66	
			<i>For Black Anodized Finish, Add</i>	85.31	
			<i>For >10 To 20, Deduct</i>	-36.00	
			<i>For >20 To 40, Deduct</i>	-67.74	
			<i>For >40, Deduct</i>	-139.75	
26 56 13 00-0366	EA		12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	857.28	252.56
			<i>For Bronze Or Satin Anodized Finish, Add</i>	35.22	
			<i>For Black Anodized Finish, Add</i>	70.43	
			<i>For >10 To 20, Deduct</i>	-26.71	
			<i>For >20 To 40, Deduct</i>	-49.91	
			<i>For >40, Deduct</i>	-103.34	
26 56 13 00-0367	EA		14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	955.90	284.13
			<i>For Bronze Or Satin Anodized Finish, Add</i>	38.76	
			<i>For Black Anodized Finish, Add</i>	77.53	
			<i>For >10 To 20, Deduct</i>	-29.71	
			<i>For >20 To 40, Deduct</i>	-55.55	
			<i>For >40, Deduct</i>	-114.97	
26 56 13 00-0368	EA		16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,060.57	315.70
			<i>For Bronze Or Satin Anodized Finish, Add</i>	42.92	
			<i>For Black Anodized Finish, Add</i>	85.83	
			<i>For >10 To 20, Deduct</i>	-32.95	
			<i>For >20 To 40, Deduct</i>	-61.61	
			<i>For >40, Deduct</i>	-127.52	
26 56 13 00-0369	EA		18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,149.67	347.27
			<i>For Bronze Or Satin Anodized Finish, Add</i>	45.51	
			<i>For Black Anodized Finish, Add</i>	91.03	
			<i>For >10 To 20, Deduct</i>	-35.57	
			<i>For >20 To 40, Deduct</i>	-66.59	
			<i>For >40, Deduct</i>	-137.72	
26 56 13 00-0370	EA		20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,250.88	378.84
			<i>For Bronze Or Satin Anodized Finish, Add</i>	49.32	
			<i>For Black Anodized Finish, Add</i>	98.64	
			<i>For >10 To 20, Deduct</i>	-38.67	
			<i>For >20 To 40, Deduct</i>	-72.41	
			<i>For >40, Deduct</i>	-149.75	
26 56 13 00-0371	EA		16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,145.36	315.70
			<i>For Bronze Or Satin Anodized Finish, Add</i>	51.40	
			<i>For Black Anodized Finish, Add</i>	102.79	
			<i>For >10 To 20, Deduct</i>	-36.34	
			<i>For >20 To 40, Deduct</i>	-67.55	
			<i>For >40, Deduct</i>	-140.23	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0372	EA	18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,257.82 56.33 112.66 -39.89 -74.16 -153.95	347.27
26 56	13 00-0373	EA	20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,334.81 57.71 115.43 -42.03 -78.28 -162.34	378.84
26 56	13 00-0374	EA	23' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,538.10 65.41 130.83 -48.26 -89.99 -186.52	441.98
26 56	13 00-0375	EA	25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,746.58 73.63 147.27 -54.71 -102.06 -211.48	505.12
26 56	13 00-0376	EA	18' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,342.62 64.81 129.62 -43.29 -80.09 -166.67	347.27
26 56	13 00-0377	EA	20' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,437.77 68.01 136.02 -46.15 -85.49 -177.78	378.84
26 56	13 00-0378	EA	23' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,619.43 73.55 147.09 -51.52 -95.68 -198.72	441.98
26 56	13 00-0379	EA	25' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,808.88 79.86 159.73 -57.20 -106.42 -220.82	505.12
26 56	13 00-0380	EA	28' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,942.10 86.87 173.74 -61.58 -114.48 -237.65	536.70
26 56	13 00-0381	EA	30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,077.06 94.05 188.11 -66.03 -122.66 -254.73	568.26
26 56	13 00-0382	EA	23' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,699.90 81.59 163.19 -54.74 -101.31 -210.79	441.98
26 56	13 00-0383	EA	25' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,862.52 85.23 170.46 -59.35 -110.17 -228.87	505.12
26 56	13 00-0384	EA	28' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,000.07 92.67 185.34 -63.90 -118.54 -246.34	536.70
26 56	13 00-0385	EA	30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,167.04 103.05 206.10 -69.63 -128.96 -268.23	568.26

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0386	EA		33' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,237.55	584.05
			<i>For Bronze Or Satin Anodized Finish, Add</i>	106.95	
			<i>For Black Anodized Finish, Add</i>	213.89	
			<i>For >10 To 20, Deduct</i>	-71.98	
			<i>For >20 To 40, Deduct</i>	-133.27	
			<i>For >40, Deduct</i>	-277.23	
26 56 13 00-0387	EA		35' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,373.82	599.83
			<i>For Bronze Or Satin Anodized Finish, Add</i>	117.42	
			<i>For Black Anodized Finish, Add</i>	234.83	
			<i>For >10 To 20, Deduct</i>	-76.96	
			<i>For >20 To 40, Deduct</i>	-142.17	
			<i>For >40, Deduct</i>	-296.09	
26 56 13 00-0388	EA		12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	892.76	252.56
			<i>For Bronze Or Satin Anodized Finish, Add</i>	38.76	
			<i>For Black Anodized Finish, Add</i>	77.53	
			<i>For >10 To 20, Deduct</i>	-28.13	
			<i>For >20 To 40, Deduct</i>	-52.39	
			<i>For >40, Deduct</i>	-108.66	
26 56 13 00-0389	EA		14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	997.43	284.13
			<i>For Bronze Or Satin Anodized Finish, Add</i>	42.92	
			<i>For Black Anodized Finish, Add</i>	85.83	
			<i>For >10 To 20, Deduct</i>	-31.37	
			<i>For >20 To 40, Deduct</i>	-58.45	
			<i>For >40, Deduct</i>	-121.20	
26 56 13 00-0390	EA		16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,105.56	315.70
			<i>For Bronze Or Satin Anodized Finish, Add</i>	47.42	
			<i>For Black Anodized Finish, Add</i>	94.83	
			<i>For >10 To 20, Deduct</i>	-34.75	
			<i>For >20 To 40, Deduct</i>	-64.76	
			<i>For >40, Deduct</i>	-134.26	
26 56 13 00-0391	EA		18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,204.18	347.27
			<i>For Bronze Or Satin Anodized Finish, Add</i>	50.96	
			<i>For Black Anodized Finish, Add</i>	101.93	
			<i>For >10 To 20, Deduct</i>	-37.75	
			<i>For >20 To 40, Deduct</i>	-70.40	
			<i>For >40, Deduct</i>	-145.90	
26 56 13 00-0392	EA		20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,301.93	378.84
			<i>For Bronze Or Satin Anodized Finish, Add</i>	54.43	
			<i>For Black Anodized Finish, Add</i>	108.85	
			<i>For >10 To 20, Deduct</i>	-40.71	
			<i>For >20 To 40, Deduct</i>	-75.98	
			<i>For >40, Deduct</i>	-157.41	
26 56 13 00-0393	EA		16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,199.88	315.70
			<i>For Bronze Or Satin Anodized Finish, Add</i>	56.85	
			<i>For Black Anodized Finish, Add</i>	113.70	
			<i>For >10 To 20, Deduct</i>	-38.52	
			<i>For >20 To 40, Deduct</i>	-71.36	
			<i>For >40, Deduct</i>	-148.41	
26 56 13 00-0394	EA		18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,314.93	347.27
			<i>For Bronze Or Satin Anodized Finish, Add</i>	62.04	
			<i>For Black Anodized Finish, Add</i>	124.08	
			<i>For >10 To 20, Deduct</i>	-42.18	
			<i>For >20 To 40, Deduct</i>	-78.15	
			<i>For >40, Deduct</i>	-162.51	
26 56 13 00-0395	EA		20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,403.16	378.84
			<i>For Bronze Or Satin Anodized Finish, Add</i>	64.55	
			<i>For Black Anodized Finish, Add</i>	129.10	
			<i>For >10 To 20, Deduct</i>	-44.76	
			<i>For >20 To 40, Deduct</i>	-83.07	
			<i>For >40, Deduct</i>	-172.59	
26 56 13 00-0396	EA		23' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,602.13	441.98
			<i>For Bronze Or Satin Anodized Finish, Add</i>	71.82	
			<i>For Black Anodized Finish, Add</i>	143.63	
			<i>For >10 To 20, Deduct</i>	-50.83	
			<i>For >20 To 40, Deduct</i>	-94.47	
			<i>For >40, Deduct</i>	-196.12	
26 56 13 00-0397	EA		25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,806.28	505.12
			<i>For Bronze Or Satin Anodized Finish, Add</i>	79.60	
			<i>For Black Anodized Finish, Add</i>	159.21	
			<i>For >10 To 20, Deduct</i>	-57.10	
			<i>For >20 To 40, Deduct</i>	-106.23	
			<i>For >40, Deduct</i>	-220.43	
26 56 13 00-0398	EA		23' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,797.67	441.98
			<i>For Bronze Or Satin Anodized Finish, Add</i>	91.37	
			<i>For Black Anodized Finish, Add</i>	182.74	
			<i>For >10 To 20, Deduct</i>	-58.65	
			<i>For >20 To 40, Deduct</i>	-108.16	
			<i>For >40, Deduct</i>	-225.45	
26 56 13 00-0399	EA		25' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,992.31	505.12
			<i>For Bronze Or Satin Anodized Finish, Add</i>	98.21	
			<i>For Black Anodized Finish, Add</i>	196.41	
			<i>For >10 To 20, Deduct</i>	-64.54	
			<i>For >20 To 40, Deduct</i>	-119.26	
			<i>For >40, Deduct</i>	-248.33	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0400	EA	28' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,140.25 106.69 213.37 -69.51 -128.35 -267.37	536.70
26 56	13 00-0401	EA	30' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,273.47 113.70 227.39 -73.89 -136.41 -284.19	568.26
26 56	13 00-0402	EA	33' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,388.97 122.09 244.18 -78.04 -143.87 -299.94	584.05
26 56	13 00-0403	EA	35' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,490.63 129.10 258.19 -81.63 -150.35 -313.61	599.83
26 56	13 00-0404	EA	37' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,578.44 134.72 269.44 -84.67 -155.87 -325.20	615.61
26 56	13 00-0405	EA	39' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,731.15 146.84 293.67 -90.30 -165.92 -346.53	631.40
26 56	13 00-0406	EA	28' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,514.04 144.07 288.13 -84.46 -154.52 -323.44	536.70
26 56	13 00-0407	EA	30' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,706.10 156.96 313.92 -91.20 -166.70 -349.09	568.26
26 56	13 00-0408	EA	33' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,838.91 167.08 334.16 -96.04 -175.36 -367.43	584.05
26 56	13 00-0409	EA	35' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,941.43 174.18 348.35 -99.66 -181.91 -381.23	599.83
26 56	13 00-0410	EA	37' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,001.55 177.03 354.06 -101.59 -185.48 -388.67	615.61
26 56	13 00-0411	EA	39' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,168.97 190.62 381.23 -107.82 -196.57 -412.21	631.40
26 56	13 00-0412	EA	28' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,395.50 132.21 264.42 -79.72 -146.22 -305.66	536.70
26 56	13 00-0413	EA	30' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,571.99 143.55 287.09 -85.83 -157.31 -328.97	568.26

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0414	EA		33' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,642.49	584.05
			<i>For Bronze Or Satin Anodized Finish, Add</i>	147.44	
			<i>For Black Anodized Finish, Add</i>	294.88	
			<i>For >10 To 20, Deduct</i>	-88.18	
			<i>For >20 To 40, Deduct</i>	-161.61	
			<i>For >40, Deduct</i>	-337.97	
26 56 13 00-0415	EA		35' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,812.50	599.83
			<i>For Bronze Or Satin Anodized Finish, Add</i>	161.28	
			<i>For Black Anodized Finish, Add</i>	322.57	
			<i>For >10 To 20, Deduct</i>	-94.51	
			<i>For >20 To 40, Deduct</i>	-172.88	
			<i>For >40, Deduct</i>	-361.89	
26 56 13 00-0416	EA		37' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,899.45	615.61
			<i>For Bronze Or Satin Anodized Finish, Add</i>	166.82	
			<i>For Black Anodized Finish, Add</i>	333.64	
			<i>For >10 To 20, Deduct</i>	-97.51	
			<i>For >20 To 40, Deduct</i>	-178.34	
			<i>For >40, Deduct</i>	-373.36	
26 56 13 00-0417	EA		39' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,067.73	631.40
			<i>For Bronze Or Satin Anodized Finish, Add</i>	180.49	
			<i>For Black Anodized Finish, Add</i>	360.99	
			<i>For >10 To 20, Deduct</i>	-103.77	
			<i>For >20 To 40, Deduct</i>	-189.49	
			<i>For >40, Deduct</i>	-397.02	
26 56 13 00-0418	EA		28' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,937.15	536.70
			<i>For Bronze Or Satin Anodized Finish, Add</i>	186.38	
			<i>For Black Anodized Finish, Add</i>	372.75	
			<i>For >10 To 20, Deduct</i>	-101.39	
			<i>For >20 To 40, Deduct</i>	-184.13	
			<i>For >40, Deduct</i>	-386.90	
26 56 13 00-0419	EA		30' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,105.85	568.26
			<i>For Bronze Or Satin Anodized Finish, Add</i>	196.93	
			<i>For Black Anodized Finish, Add</i>	393.87	
			<i>For >10 To 20, Deduct</i>	-107.19	
			<i>For >20 To 40, Deduct</i>	-194.68	
			<i>For >40, Deduct</i>	-409.05	
26 56 13 00-0420	EA		33' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,240.39	584.05
			<i>For Bronze Or Satin Anodized Finish, Add</i>	207.23	
			<i>For Black Anodized Finish, Add</i>	414.46	
			<i>For >10 To 20, Deduct</i>	-112.09	
			<i>For >20 To 40, Deduct</i>	-203.47	
			<i>For >40, Deduct</i>	-427.65	
26 56 13 00-0421	EA		35' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,445.01	599.83
			<i>For Bronze Or Satin Anodized Finish, Add</i>	224.54	
			<i>For Black Anodized Finish, Add</i>	449.07	
			<i>For >10 To 20, Deduct</i>	-119.81	
			<i>For >20 To 40, Deduct</i>	-217.16	
			<i>For >40, Deduct</i>	-456.77	
26 56 13 00-0422	EA		37' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,495.62	615.61
			<i>For Bronze Or Satin Anodized Finish, Add</i>	226.44	
			<i>For Black Anodized Finish, Add</i>	452.88	
			<i>For >10 To 20, Deduct</i>	-121.36	
			<i>For >20 To 40, Deduct</i>	-220.07	
			<i>For >40, Deduct</i>	-462.78	
26 56 13 00-0423	EA		39' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,699.37	631.40
			<i>For Bronze Or Satin Anodized Finish, Add</i>	243.66	
			<i>For Black Anodized Finish, Add</i>	487.31	
			<i>For >10 To 20, Deduct</i>	-129.03	
			<i>For >20 To 40, Deduct</i>	-233.70	
			<i>For >40, Deduct</i>	-491.77	
26 56 13 00-0424	EA		48' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	4,731.40	947.10
			<i>For Bronze Or Satin Anodized Finish, Add</i>	283.72	
			<i>For Black Anodized Finish, Add</i>	567.44	
			<i>For >10 To 20, Deduct</i>	-160.84	
			<i>For >20 To 40, Deduct</i>	-293.31	
			<i>For >40, Deduct</i>	-615.00	
26 56 13 00-0425	EA		50' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	4,838.69	947.10
			<i>For Bronze Or Satin Anodized Finish, Add</i>	294.45	
			<i>For Black Anodized Finish, Add</i>	588.90	
			<i>For >10 To 20, Deduct</i>	-165.13	
			<i>For >20 To 40, Deduct</i>	-300.82	
			<i>For >40, Deduct</i>	-631.09	
26 56 13 00-0426			Round Tapered, Aluminum Area Light Poles, Hinged Anchor Base <small>(26 56 13 00-0354)</small>		
26 56 13 00-0427	EA		8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	809.74	189.42
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	64.64	
			<i>For >10 To 20, Deduct</i>	-26.71	
			<i>For >20 To 40, Deduct</i>	-49.11	
			<i>For >40, Deduct</i>	-102.52	
26 56 13 00-0428	EA		10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	891.05	220.99
			<i>For Bronze, Satin Or Black Anodized Finish, Add</i>	67.36	
			<i>For >10 To 20, Deduct</i>	-29.01	
			<i>For >20 To 40, Deduct</i>	-53.53	
			<i>For >40, Deduct</i>	-111.56	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0429	EA		12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	973.23 70.22 -31.35 -58.02 -120.73	252.56
26 56 13 00-0430	EA		14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,057.13 73.33 -33.76 -62.63 -130.16	284.13
26 56 13 00-0431	EA		16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,140.17 76.32 -36.14 -67.18 -139.46	315.70
26 56 13 00-0432	EA		10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	901.43 68.92 -29.43 -54.26 -113.12	220.99
26 56 13 00-0433	EA		12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	985.34 72.03 -31.84 -58.87 -122.55	252.56
26 56 13 00-0434	EA		14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,070.98 75.41 -34.32 -63.60 -132.23	284.13
26 56 13 00-0435	EA		16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,155.75 78.65 -36.76 -68.27 -141.79	315.70
26 56 13 00-0436	EA		18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,251.77 83.58 -39.65 -73.73 -153.04	347.27
26 56 13 00-0437	EA		20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,340.00 87.35 -42.23 -78.65 -163.12	378.84
26 56 13 00-0438	EA		12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,019.08 77.09 -33.19 -61.23 -127.61	252.56
26 56 13 00-0439	EA		14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,109.05 81.12 -35.84 -66.27 -137.94	284.13
26 56 13 00-0440	EA		16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,209.39 86.70 -38.90 -72.03 -149.84	315.70
26 56 13 00-0441	EA		18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,301.09 90.98 -41.63 -77.19 -160.44	347.27
26 56 13 00-0442	EA		20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,404.03 96.95 -44.80 -83.13 -172.72	378.84
26 56 13 00-0443	EA		16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,258.71 94.10 -40.88 -75.48 -157.24	315.70
26 56 13 00-0444	EA		18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,358.71 100.98 -44.29 -81.85 -170.43	347.27
26 56 13 00-0445	EA		20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,457.68 105.00 -46.94 -86.88 -180.77	378.84

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0446	EA		12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,045.91 81.12 -34.26 -63.11 -131.63	252.56
26 56 13 00-0447	EA		14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,149.71 87.22 -37.46 -69.11 -144.04	284.13
26 56 13 00-0448	EA		16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,258.71 94.10 -40.88 -75.48 -157.24	315.70
26 56 13 00-0449	EA		18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,357.33 99.42 -43.88 -81.12 -168.87	347.27
26 56 13 00-0450	EA		20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,462.00 105.65 -47.11 -87.19 -181.42	378.84
26 56 13 00-0451	EA		16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,314.96 102.53 -43.13 -79.42 -165.67	315.70
26 56 13 00-0452	EA		18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,430.88 110.45 -46.82 -86.27 -179.91	347.27
26 56 13 00-0453	EA		20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,525.17 115.12 -49.64 -91.61 -190.89	378.84
26 56 13 00-0454 Round Tapered, Aluminum Area Light Poles, Direct Burial <small>(26 56 13 00-0354)</small>					
Note: Includes rubberized undercoating on embedded portion.					
26 56 13 00-0455	EA		8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	571.82 25.61 51.22 -18.14 -33.71 -69.99	157.85
26 56 13 00-0456	EA		10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	596.04 28.03 56.07 -19.11 -35.41 -73.62	157.85
26 56 13 00-0457	EA		12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	647.52 30.03 60.05 -20.69 -38.38 -79.76	173.64
26 56 13 00-0458	EA		14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	692.93 31.41 62.82 -22.03 -40.93 -85.00	189.42
26 56 13 00-0459	EA		16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	724.08 34.52 69.05 -23.28 -43.11 -89.67	189.42
26 56 13 00-0460	EA		12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	670.88 32.36 64.72 -21.63 -40.02 -83.27	173.64
26 56 13 00-0461	EA		14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	726.67 34.78 69.57 -23.38 -43.29 -90.06	189.42



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0462 EA 16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	743.98 36.51 73.03 -24.08 -44.50 -92.66	189.42
26 56 13 00-0463 EA 18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	803.24 39.28 78.57 -25.97 -48.02 -99.97	205.20
26 56 13 00-0464 EA 20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	859.04 41.71 83.41 -27.73 -51.29 -106.76	220.99
26 56 13 00-0465 EA 16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	794.16 41.53 83.06 -26.08 -48.01 -100.18	189.42
26 56 13 00-0466 EA 18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	858.61 44.82 89.64 -28.19 -51.89 -108.27	205.20
26 56 13 00-0467 EA 20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	918.74 47.68 95.35 -30.12 -55.47 -115.71	220.99
26 56 13 00-0468 EA 18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	929.57 51.92 103.83 -31.03 -56.86 -118.92	205.20
26 56 13 00-0469 EA 25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,186.08 68.10 136.19 -39.87 -72.92 -152.66	252.56
26 56 13 00-0470 EA 25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,283.85 77.87 155.75 -43.78 -79.77 -167.32	252.56
26 56 13 00-0471 EA 30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,430.92 86.27 172.53 -48.71 -88.80 -186.23	284.13
26 56 13 00-0472 EA 30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,537.35 96.91 193.82 -52.97 -96.25 -202.19	284.13
26 56 13 00-0473 Square Straight, Aluminum Area Light Poles <small>(26 56 13 00-0294)</small>		
26 56 13 00-0474 Square Straight, Aluminum Area Light Poles, Anchor Base <small>(26 56 13 00-0473)</small>		
26 56 13 00-0475 EA 8' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	736.19 35.74 71.47 -23.77 -43.96 -91.49	189.42
26 56 13 00-0476 EA 10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	817.50 37.55 75.10 -26.07 -48.39 -100.53	220.99

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0477	EA		12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	905.74	252.56
			<i>For Bronze Or Satin Anodized Finish, Add</i>	40.06	
			<i>For Black Anodized Finish, Add</i>	80.12	
			<i>For >10 To 20, Deduct</i>	-28.65	
			<i>For >20 To 40, Deduct</i>	-53.30	
			<i>For >40, Deduct</i>	-110.61	
26 56 13 00-0478	EA		14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	993.10	284.13
			<i>For Bronze Or Satin Anodized Finish, Add</i>	42.48	
			<i>For Black Anodized Finish, Add</i>	84.97	
			<i>For >10 To 20, Deduct</i>	-31.20	
			<i>For >20 To 40, Deduct</i>	-58.15	
			<i>For >40, Deduct</i>	-120.55	
26 56 13 00-0479	EA		15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,040.25	299.92
			<i>For Bronze Or Satin Anodized Finish, Add</i>	44.04	
			<i>For Black Anodized Finish, Add</i>	88.08	
			<i>For >10 To 20, Deduct</i>	-32.61	
			<i>For >20 To 40, Deduct</i>	-60.82	
			<i>For >40, Deduct</i>	-126.05	
26 56 13 00-0480	EA		16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,087.39	315.70
			<i>For Bronze Or Satin Anodized Finish, Add</i>	45.60	
			<i>For Black Anodized Finish, Add</i>	91.20	
			<i>For >10 To 20, Deduct</i>	-34.02	
			<i>For >20 To 40, Deduct</i>	-63.49	
			<i>For >40, Deduct</i>	-131.54	
26 56 13 00-0481	EA		18' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,179.95	347.27
			<i>For Bronze Or Satin Anodized Finish, Add</i>	48.54	
			<i>For Black Anodized Finish, Add</i>	97.08	
			<i>For >10 To 20, Deduct</i>	-36.78	
			<i>For >20 To 40, Deduct</i>	-68.71	
			<i>For >40, Deduct</i>	-142.27	
26 56 13 00-0482	EA		20' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,280.30	378.84
			<i>For Bronze Or Satin Anodized Finish, Add</i>	52.26	
			<i>For Black Anodized Finish, Add</i>	104.52	
			<i>For >10 To 20, Deduct</i>	-39.85	
			<i>For >20 To 40, Deduct</i>	-74.47	
			<i>For >40, Deduct</i>	-154.16	
26 56 13 00-0483	EA		16' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,147.10	315.70
			<i>For Bronze Or Satin Anodized Finish, Add</i>	51.57	
			<i>For Black Anodized Finish, Add</i>	103.14	
			<i>For >10 To 20, Deduct</i>	-36.41	
			<i>For >20 To 40, Deduct</i>	-67.67	
			<i>For >40, Deduct</i>	-140.50	
26 56 13 00-0484	EA		18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,241.38	347.27
			<i>For Bronze Or Satin Anodized Finish, Add</i>	54.68	
			<i>For Black Anodized Finish, Add</i>	109.37	
			<i>For >10 To 20, Deduct</i>	-39.24	
			<i>For >20 To 40, Deduct</i>	-73.01	
			<i>For >40, Deduct</i>	-151.48	
26 56 13 00-0485	EA		20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,346.92	378.84
			<i>For Bronze Or Satin Anodized Finish, Add</i>	58.92	
			<i>For Black Anodized Finish, Add</i>	117.85	
			<i>For >10 To 20, Deduct</i>	-42.51	
			<i>For >20 To 40, Deduct</i>	-79.13	
			<i>For >40, Deduct</i>	-164.15	
26 56 13 00-0486	EA		15' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,299.83	299.92
			<i>For Bronze Or Satin Anodized Finish, Add</i>	70.00	
			<i>For Black Anodized Finish, Add</i>	140.00	
			<i>For >10 To 20, Deduct</i>	-43.00	
			<i>For >20 To 40, Deduct</i>	-78.99	
			<i>For >40, Deduct</i>	-164.98	
26 56 13 00-0487	EA		20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,595.25	378.84
			<i>For Bronze Or Satin Anodized Finish, Add</i>	83.76	
			<i>For Black Anodized Finish, Add</i>	167.51	
			<i>For >10 To 20, Deduct</i>	-52.44	
			<i>For >20 To 40, Deduct</i>	-96.51	
			<i>For >40, Deduct</i>	-201.40	
26 56 13 00-0488	EA		25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,955.97	505.12
			<i>For Bronze Or Satin Anodized Finish, Add</i>	94.57	
			<i>For Black Anodized Finish, Add</i>	189.15	
			<i>For >10 To 20, Deduct</i>	-63.09	
			<i>For >20 To 40, Deduct</i>	-116.71	
			<i>For >40, Deduct</i>	-242.88	
26 56 13 00-0489	EA		20' High, 4" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	1,400.57	378.84
			<i>For Bronze Or Satin Anodized Finish, Add</i>	64.29	
			<i>For Black Anodized Finish, Add</i>	128.58	
			<i>For >10 To 20, Deduct</i>	-44.66	
			<i>For >20 To 40, Deduct</i>	-82.89	
			<i>For >40, Deduct</i>	-172.20	
26 56 13 00-0490	EA		20' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	1,699.95	378.84
			<i>For Bronze Or Satin Anodized Finish, Add</i>	94.23	
			<i>For Black Anodized Finish, Add</i>	188.45	
			<i>For >10 To 20, Deduct</i>	-56.63	
			<i>For >20 To 40, Deduct</i>	-103.84	
			<i>For >40, Deduct</i>	-217.11	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0491 EA 25' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	2,051.15	505.12
For Bronze Or Satin Anodized Finish, Add	104.09	
For Black Anodized Finish, Add	208.18	
For >10 To 20, Deduct	-66.89	
For >20 To 40, Deduct	-123.38	
For >40, Deduct	-257.16	
26 56 13 00-0492 EA 20' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	1,864.35	378.84
For Bronze Or Satin Anodized Finish, Add	110.67	
For Black Anodized Finish, Add	221.33	
For >10 To 20, Deduct	-63.21	
For >20 To 40, Deduct	-115.35	
For >40, Deduct	-241.77	
26 56 13 00-0493 EA 25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	2,265.73	505.12
For Bronze Or Satin Anodized Finish, Add	125.55	
For Black Anodized Finish, Add	251.10	
For >10 To 20, Deduct	-75.48	
For >20 To 40, Deduct	-138.40	
For >40, Deduct	-289.35	
26 56 13 00-0494 EA 30' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	2,615.25	568.26
For Bronze Or Satin Anodized Finish, Add	147.87	
For Black Anodized Finish, Add	295.75	
For >10 To 20, Deduct	-87.56	
For >20 To 40, Deduct	-160.34	
For >40, Deduct	-335.46	
26 56 13 00-0495 Square Straight, Aluminum Area Light Poles, Direct Burial <small>(26 56 13 00-0473)</small>		
Note: Includes rubberized undercoating on embedded portion.		
26 56 13 00-0496 EA 10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	656.61	157.85
For Bronze Or Satin Anodized Finish, Add	34.09	
For Black Anodized Finish, Add	68.18	
For >10 To 20, Deduct	-21.53	
For >20 To 40, Deduct	-39.65	
For >40, Deduct	-82.71	
26 56 13 00-0497 EA 12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	732.31	173.64
For Bronze Or Satin Anodized Finish, Add	38.50	
For Black Anodized Finish, Add	77.01	
For >10 To 20, Deduct	-24.08	
For >20 To 40, Deduct	-44.32	
For >40, Deduct	-92.48	
26 56 13 00-0498 EA 14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	782.05	189.42
For Bronze Or Satin Anodized Finish, Add	40.32	
For Black Anodized Finish, Add	80.64	
For >10 To 20, Deduct	-25.60	
For >20 To 40, Deduct	-47.17	
For >40, Deduct	-98.37	
26 56 13 00-0499 EA 15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	803.68	189.42
For Bronze Or Satin Anodized Finish, Add	42.48	
For Black Anodized Finish, Add	84.97	
For >10 To 20, Deduct	-26.46	
For >20 To 40, Deduct	-48.68	
For >40, Deduct	-101.61	
26 56 13 00-0500 EA 16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	830.51	189.42
For Bronze Or Satin Anodized Finish, Add	45.17	
For Black Anodized Finish, Add	90.33	
For >10 To 20, Deduct	-27.54	
For >20 To 40, Deduct	-50.56	
For >40, Deduct	-105.63	
26 56 13 00-0501 EA 18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial	953.79	205.20
For Bronze Or Satin Anodized Finish, Add	54.34	
For Black Anodized Finish, Add	108.68	
For >10 To 20, Deduct	-32.00	
For >20 To 40, Deduct	-58.56	
For >40, Deduct	-122.55	
26 56 13 00-0502 EA 20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial	1,022.57	220.99
For Bronze Or Satin Anodized Finish, Add	58.06	
For Black Anodized Finish, Add	116.12	
For >10 To 20, Deduct	-34.27	
For >20 To 40, Deduct	-62.74	
For >40, Deduct	-131.29	
26 56 13 00-0503 EA 20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial	1,158.42	220.99
For Bronze Or Satin Anodized Finish, Add	71.64	
For Black Anodized Finish, Add	143.29	
For >10 To 20, Deduct	-39.71	
For >20 To 40, Deduct	-72.25	
For >40, Deduct	-151.66	
26 56 13 00-0504 EA 25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial	1,330.58	252.56
For Bronze Or Satin Anodized Finish, Add	82.55	
For Black Anodized Finish, Add	165.09	
For >10 To 20, Deduct	-45.65	
For >20 To 40, Deduct	-83.04	
For >40, Deduct	-174.33	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0505	EA	25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,634.28 112.92 225.83 -57.79 -104.30 -219.89	252.56
26 56	13 00-0506		Factory Accessories For Aluminum Area Light Poles (26 56 13 00-0294)		
26 56	13 00-0507	EA	1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Aluminum Area Light Poles 75.70		
26 56	13 00-0508	EA	Extra Handhole For Aluminum Area Light Poles..... 32.25		
26 56	13 00-0509	EA	Vibration Dampener For Aluminum Area Light Poles..... 114.52		
26 56	13 00-0510		Fiberglass Area Light Poles (26 56 13 00-0177) Note: Includes UV resistant textured weave finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions and tenon top.		
26 56	13 00-0511		Round Tapered, Fiberglass Area Light Poles (26 56 13 00-0510)		
26 56	13 00-0512		Round Tapered, Fiberglass Area Light Poles, Anchor Base (26 56 13 00-0511)		
26 56	13 00-0513	EA	10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... 1,440.25 <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	-50.98 -91.98 -193.94	220.99
26 56	13 00-0514	EA	12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... 1,562.81 <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	-54.94 -99.29 -209.17	252.56
26 56	13 00-0515	EA	14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... 1,687.07 <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	-58.96 -106.73 -224.65	284.13
26 56	13 00-0516	EA	16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... 1,809.63 <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	-62.91 -114.05 -239.87	315.70
26 56	13 00-0517	EA	18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... 1,962.75 <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	-68.09 -123.50 -259.69	347.27
26 56	13 00-0518	EA	20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... 2,088.71 <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	-72.18 -131.06 -275.42	378.84
26 56	13 00-0519	EA	22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... 2,276.11 <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	-77.79 -141.65 -297.22	441.98
26 56	13 00-0520	EA	24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... 2,461.81 <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	-83.32 -152.12 -318.76	505.12
26 56	13 00-0521	EA	26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... 2,599.32 <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	-88.82 -161.75 -339.39	505.12
26 56	13 00-0522	EA	28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... 2,783.00 <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	-95.22 -173.34 -363.78	536.70
26 56	13 00-0523	EA	30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... 2,966.68 <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	-101.62 -184.94 -388.18	568.26
26 56	13 00-0524	EA	10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... 1,596.44 <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	-57.23 -102.91 -217.37	220.99
26 56	13 00-0525	EA	12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... 1,688.44 <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	-59.96 -108.09 -228.01	252.56
26 56	13 00-0526	EA	14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... 1,782.14 <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	-62.76 -113.38 -238.91	284.13
26 56	13 00-0527	EA	16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... 1,879.24 <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	-65.70 -118.92 -250.32	315.70
26 56	13 00-0528	EA	18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... 1,984.82 <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	-68.97 -125.05 -263.00	347.27



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0529	EA		20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,088.71	378.84
			<i>For >10 To 20, Deduct</i>	-72.18	
			<i>For >20 To 40, Deduct</i>	-131.06	
			<i>For >40, Deduct</i>	-275.42	
26 56 13 00-0530	EA		22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,255.73	441.98
			<i>For >10 To 20, Deduct</i>	-76.97	
			<i>For >20 To 40, Deduct</i>	-140.22	
			<i>For >40, Deduct</i>	-294.16	
26 56 13 00-0531	EA		24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,461.81	505.12
			<i>For >10 To 20, Deduct</i>	-83.32	
			<i>For >20 To 40, Deduct</i>	-152.12	
			<i>For >40, Deduct</i>	-318.76	
26 56 13 00-0532	EA		26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,519.53	505.12
			<i>For >10 To 20, Deduct</i>	-85.63	
			<i>For >20 To 40, Deduct</i>	-156.16	
			<i>For >40, Deduct</i>	-327.42	
26 56 13 00-0533	EA		28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,642.09	536.70
			<i>For >10 To 20, Deduct</i>	-89.58	
			<i>For >20 To 40, Deduct</i>	-163.48	
			<i>For >40, Deduct</i>	-342.64	
26 56 13 00-0534	EA		30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,764.65	568.26
			<i>For >10 To 20, Deduct</i>	-93.54	
			<i>For >20 To 40, Deduct</i>	-170.80	
			<i>For >40, Deduct</i>	-357.87	
26 56 13 00-0535	EA		10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,825.64	220.99
			<i>For >10 To 20, Deduct</i>	-66.40	
			<i>For >20 To 40, Deduct</i>	-118.96	
			<i>For >40, Deduct</i>	-251.75	
26 56 13 00-0536	EA		12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,941.41	252.56
			<i>For >10 To 20, Deduct</i>	-70.08	
			<i>For >20 To 40, Deduct</i>	-125.80	
			<i>For >40, Deduct</i>	-265.96	
26 56 13 00-0537	EA		14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,057.18	284.13
			<i>For >10 To 20, Deduct</i>	-73.76	
			<i>For >20 To 40, Deduct</i>	-132.64	
			<i>For >40, Deduct</i>	-280.16	
26 56 13 00-0538	EA		16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,174.65	315.70
			<i>For >10 To 20, Deduct</i>	-77.52	
			<i>For >20 To 40, Deduct</i>	-139.60	
			<i>For >40, Deduct</i>	-294.63	
26 56 13 00-0539	EA		18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,298.90	347.27
			<i>For >10 To 20, Deduct</i>	-81.54	
			<i>For >20 To 40, Deduct</i>	-147.03	
			<i>For >40, Deduct</i>	-310.11	
26 56 13 00-0540	EA		20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,433.35	378.84
			<i>For >10 To 20, Deduct</i>	-85.97	
			<i>For >20 To 40, Deduct</i>	-155.18	
			<i>For >40, Deduct</i>	-327.12	
26 56 13 00-0541	EA		22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,646.21	441.98
			<i>For >10 To 20, Deduct</i>	-92.59	
			<i>For >20 To 40, Deduct</i>	-167.56	
			<i>For >40, Deduct</i>	-352.73	
26 56 13 00-0542	EA		24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,860.78	505.12
			<i>For >10 To 20, Deduct</i>	-99.28	
			<i>For >20 To 40, Deduct</i>	-180.05	
			<i>For >40, Deduct</i>	-378.61	
26 56 13 00-0543	EA		26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,949.06	505.12
			<i>For >10 To 20, Deduct</i>	-102.81	
			<i>For >20 To 40, Deduct</i>	-186.23	
			<i>For >40, Deduct</i>	-391.85	
26 56 13 00-0544	EA		28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,151.41	536.70
			<i>For >10 To 20, Deduct</i>	-109.96	
			<i>For >20 To 40, Deduct</i>	-199.13	
			<i>For >40, Deduct</i>	-419.04	
26 56 13 00-0545	EA		30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,314.72	568.26
			<i>For >10 To 20, Deduct</i>	-115.54	
			<i>For >20 To 40, Deduct</i>	-209.30	
			<i>For >40, Deduct</i>	-440.38	
26 56 13 00-0546	EA		32' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,446.46	584.05
			<i>For >10 To 20, Deduct</i>	-120.34	
			<i>For >20 To 40, Deduct</i>	-217.89	
			<i>For >40, Deduct</i>	-458.56	
26 56 13 00-0547	EA		34' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,578.19	599.83
			<i>For >10 To 20, Deduct</i>	-125.13	
			<i>For >20 To 40, Deduct</i>	-226.48	
			<i>For >40, Deduct</i>	-476.75	
26 56 13 00-0548			Round Tapered, Fiberglass Area Light Poles, Direct Burial <small>(26 56 13 00-0511)</small>		
26 56 13 00-0549	EA		10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	886.14	157.85
			<i>For >10 To 20, Deduct</i>	-30.71	
			<i>For >20 To 40, Deduct</i>	-55.72	
			<i>For >40, Deduct</i>	-117.14	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0550	EA	12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	949.97	173.64
			<i>For >10 To 20, Deduct</i>	-32.79	
			<i>For >20 To 40, Deduct</i>	-59.55	
			<i>For >40, Deduct</i>	-125.13	
26 56	13 00-0551	EA	14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,012.10	189.42
			<i>For >10 To 20, Deduct</i>	-34.80	
			<i>For >20 To 40, Deduct</i>	-63.27	
			<i>For >40, Deduct</i>	-132.87	
26 56	13 00-0552	EA	16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,040.96	189.42
			<i>For >10 To 20, Deduct</i>	-35.96	
			<i>For >20 To 40, Deduct</i>	-65.29	
			<i>For >40, Deduct</i>	-137.20	
26 56	13 00-0553	EA	18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,120.07	205.20
			<i>For >10 To 20, Deduct</i>	-38.65	
			<i>For >20 To 40, Deduct</i>	-70.20	
			<i>For >40, Deduct</i>	-147.49	
26 56	13 00-0554	EA	20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,185.59	220.99
			<i>For >10 To 20, Deduct</i>	-40.79	
			<i>For >20 To 40, Deduct</i>	-74.15	
			<i>For >40, Deduct</i>	-155.74	
26 56	13 00-0555	EA	22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,256.21	236.78
			<i>For >10 To 20, Deduct</i>	-43.15	
			<i>For >20 To 40, Deduct</i>	-78.46	
			<i>For >40, Deduct</i>	-164.75	
26 56	13 00-0556	EA	24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,335.31	252.56
			<i>For >10 To 20, Deduct</i>	-45.84	
			<i>For >20 To 40, Deduct</i>	-83.37	
			<i>For >40, Deduct</i>	-175.04	
26 56	13 00-0557	EA	26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,498.30	252.56
			<i>For >10 To 20, Deduct</i>	-52.36	
			<i>For >20 To 40, Deduct</i>	-94.78	
			<i>For >40, Deduct</i>	-199.49	
26 56	13 00-0558	EA	28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,692.86	268.34
			<i>For >10 To 20, Deduct</i>	-59.66	
			<i>For >20 To 40, Deduct</i>	-107.77	
			<i>For >40, Deduct</i>	-227.09	
26 56	13 00-0559	EA	30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,887.40	284.13
			<i>For >10 To 20, Deduct</i>	-66.97	
			<i>For >20 To 40, Deduct</i>	-120.75	
			<i>For >40, Deduct</i>	-254.70	
26 56	13 00-0560	EA	10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,042.33	157.85
			<i>For >10 To 20, Deduct</i>	-36.96	
			<i>For >20 To 40, Deduct</i>	-66.65	
			<i>For >40, Deduct</i>	-140.56	
26 56	13 00-0561	EA	12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,114.65	173.64
			<i>For >10 To 20, Deduct</i>	-39.38	
			<i>For >20 To 40, Deduct</i>	-71.08	
			<i>For >40, Deduct</i>	-149.83	
26 56	13 00-0562	EA	14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,186.96	189.42
			<i>For >10 To 20, Deduct</i>	-41.80	
			<i>For >20 To 40, Deduct</i>	-75.51	
			<i>For >40, Deduct</i>	-159.10	
26 56	13 00-0563	EA	16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,229.41	189.42
			<i>For >10 To 20, Deduct</i>	-43.49	
			<i>For >20 To 40, Deduct</i>	-78.48	
			<i>For >40, Deduct</i>	-165.47	
26 56	13 00-0564	EA	18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,301.72	205.20
			<i>For >10 To 20, Deduct</i>	-45.91	
			<i>For >20 To 40, Deduct</i>	-82.91	
			<i>For >40, Deduct</i>	-174.74	
26 56	13 00-0565	EA	20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,374.04	220.99
			<i>For >10 To 20, Deduct</i>	-48.33	
			<i>For >20 To 40, Deduct</i>	-87.34	
			<i>For >40, Deduct</i>	-184.01	
26 56	13 00-0566	EA	22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,446.35	236.78
			<i>For >10 To 20, Deduct</i>	-50.75	
			<i>For >20 To 40, Deduct</i>	-91.77	
			<i>For >40, Deduct</i>	-193.28	
26 56	13 00-0567	EA	24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,557.72	252.56
			<i>For >10 To 20, Deduct</i>	-54.73	
			<i>For >20 To 40, Deduct</i>	-98.94	
			<i>For >40, Deduct</i>	-208.40	
26 56	13 00-0568	EA	26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,715.61	252.56
			<i>For >10 To 20, Deduct</i>	-61.05	
			<i>For >20 To 40, Deduct</i>	-109.99	
			<i>For >40, Deduct</i>	-232.09	
26 56	13 00-0569	EA	28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,906.78	268.34
			<i>For >10 To 20, Deduct</i>	-68.22	
			<i>For >20 To 40, Deduct</i>	-122.74	
			<i>For >40, Deduct</i>	-259.18	
26 56	13 00-0570	EA	30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	2,096.23	284.13
			<i>For >10 To 20, Deduct</i>	-75.33	
			<i>For >20 To 40, Deduct</i>	-135.37	
			<i>For >40, Deduct</i>	-286.02	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0571	EA		10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,179.85	157.85
			<i>For >10 To 20, Deduct</i>	-42.46	
			<i>For >20 To 40, Deduct</i>	-76.28	
			<i>For >40, Deduct</i>	-161.19	
26 56 13 00-0572	EA		12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,241.98	173.64
			<i>For >10 To 20, Deduct</i>	-44.47	
			<i>For >20 To 40, Deduct</i>	-79.99	
			<i>For >40, Deduct</i>	-168.93	
26 56 13 00-0573	EA		14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,302.41	189.42
			<i>For >10 To 20, Deduct</i>	-46.41	
			<i>For >20 To 40, Deduct</i>	-83.59	
			<i>For >40, Deduct</i>	-176.42	
26 56 13 00-0574	EA		16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,331.27	189.42
			<i>For >10 To 20, Deduct</i>	-47.57	
			<i>For >20 To 40, Deduct</i>	-85.61	
			<i>For >40, Deduct</i>	-180.75	
26 56 13 00-0575	EA		18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,391.70	205.20
			<i>For >10 To 20, Deduct</i>	-49.51	
			<i>For >20 To 40, Deduct</i>	-89.21	
			<i>For >40, Deduct</i>	-188.23	
26 56 13 00-0576	EA		20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,453.83	220.99
			<i>For >10 To 20, Deduct</i>	-51.52	
			<i>For >20 To 40, Deduct</i>	-92.93	
			<i>For >40, Deduct</i>	-195.98	
26 56 13 00-0577	EA		22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,573.69	236.78
			<i>For >10 To 20, Deduct</i>	-55.84	
			<i>For >20 To 40, Deduct</i>	-100.69	
			<i>For >40, Deduct</i>	-212.38	
26 56 13 00-0578	EA		24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,713.91	252.56
			<i>For >10 To 20, Deduct</i>	-60.98	
			<i>For >20 To 40, Deduct</i>	-109.87	
			<i>For >40, Deduct</i>	-231.83	
26 56 13 00-0579	EA		26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,812.38	252.56
			<i>For >10 To 20, Deduct</i>	-64.92	
			<i>For >20 To 40, Deduct</i>	-116.76	
			<i>For >40, Deduct</i>	-246.60	
26 56 13 00-0580	EA		28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,944.13	268.34
			<i>For >10 To 20, Deduct</i>	-69.71	
			<i>For >20 To 40, Deduct</i>	-125.36	
			<i>For >40, Deduct</i>	-264.78	
26 56 13 00-0581	EA		30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	2,075.85	284.13
			<i>For >10 To 20, Deduct</i>	-74.51	
			<i>For >20 To 40, Deduct</i>	-133.94	
			<i>For >40, Deduct</i>	-282.96	
26 56 13 00-0582			Factory Accessories For Fiberglass Area Light Poles (26 56 13 00-0510)		
26 56 13 00-0583	EA		Open Or Capped Top For Fiberglass Area Light Poles.....	60.19	
26 56 13 00-0584	EA		Factory Side Drilling Up To Four Fixtures On Fiberglass Area Light Poles.....	60.19	
26 56 13 00-0585	EA		Smooth Shaft Finish For Fiberglass Area Light Poles.....	114.21	
26 56 13 00-0586	EA		Vibration Dampener For Fiberglass Area Light Poles.....	151.25	
26 56 13 00-0587			Concrete Area Light Poles (26 56 13 00-0177)		
26 56 13 00-0588			Octagonal Tapered, Spun Concrete Area Light Poles, Anchor Base (26 56 13 00-0587)		
26 56 13 00-0589	EA		28' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,187.04	536.70
26 56 13 00-0590	EA		30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,305.87	568.26
26 56 13 00-0591	EA		33' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,391.83	584.05
26 56 13 00-0592	EA		36' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,972.19	599.83
26 56 13 00-0593	EA		38' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	3,301.20	631.40
26 56 13 00-0594	EA		43' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	4,086.54	820.83
26 56 13 00-0595	EA		47' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	4,896.04	1,010.24
26 56 13 00-0596	EA		27' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	4,739.94	536.70
			Note: Polished brown with acrylic coating finish.		
26 56 13 00-0597	EA		30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	5,469.74	568.26
			Note: Polished brown with acrylic coating finish.		
26 56 13 00-0598	EA		Pole Adapter Base Plate, Galvanized Steel, 1" Thick For Adapting Up To 40'.....	643.96	189.42
26 56 13 00-0599	EA		13' High Concrete Octagonal Area Light Pole, Pink With Acrylic Coating, Finish Design.....	2,840.82	378.71
26 56 13 00-0600	EA		Pole Base Cover For All Octagon Poles.....	249.37	77.28
26 56 13 00-0601	EA		Pole Arms 24" Long, Square, 250 Watt Fixture, Dark, Architectural Bronze.....	511.84	154.57
26 56 13 00-0602			Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587)		
			Note: Round or square.		
26 56 13 00-0603	EA		13' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	2,344.76	252.56
26 56 13 00-0604	EA		16' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	2,649.95	315.70
26 56 13 00-0605	EA		18' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	2,926.58	378.84
26 56 13 00-0606	EA		30' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	4,078.38	568.26
26 56 13 00-0607	EA		35' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	4,702.20	599.83
26 56 13 00-0608	EA		40' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	5,376.69	631.40
26 56 13 00-0609	EA		45' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	6,234.13	820.83

26 Electrical
26 50 Lighting
 26 56 Exterior Lighting



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 56 13 00-0610		Round Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587)		
26 56 13 00-0611	EA	60' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 60 9-22).....	17,224.14	1,420.65
26 56 13 00-0612	EA	70' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 70 9-24).....	20,459.60	1,703.64
26 56 13 00-0613	EA	80' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C1 80 9-26).....	24,266.74	2,301.42
26 56 13 00-0614		Treated Wood Area Light Poles (26 56 13 00-0177) See CSI section 26 05 46 00-0001 for wood poles.		
26 56 13 00-0615		Cast Iron Decorative Light Posts (26 56 13 00-0177)		
26 56 13 00-0616		Round Tapered, Cast Iron Decorative Light Post, Anchor Base (26 56 13 00-0615) Note: As manufactured by Hadco and King Luminaries or an approved equal.		
26 56 13 00-0617	EA	10' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,641.01	157.85
26 56 13 00-0618	EA	12' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,724.18	181.85
26 56 13 00-0619	EA	14' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,872.94	189.42
26 56 13 00-0620	EA	16' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	2,306.08	220.99
26 56 13 00-0621	EA	18' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	2,700.97	239.94
26 56 13 00-0622	EA	20' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	3,115.34	258.87
26 56 13 00-0623		Landscape Light Poles (26 56 13 00-0001) Note: Excludes lighting fixtures.		
26 56 13 00-0624		Aluminum Landscape Light Poles (26 56 13 00-0623) Note: Includes painted finish.		
26 56 13 00-0625		Round Straight, Aluminum Landscape Light Poles (26 56 13 00-0624)		
26 56 13 00-0626		Round Straight, Aluminum Landscape Light Poles, Anchor Base (26 56 13 00-0625)		
26 56 13 00-0627	EA	7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base.....	455.84	189.42
26 56 13 00-0628	EA	12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base.....	748.81	252.56
26 56 13 00-0629		Round Straight, Aluminum Landscape Light Poles, Direct Burial (26 56 13 00-0625)		
26 56 13 00-0630	EA	7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial.....	419.60	189.42
26 56 13 00-0631	EA	12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial.....	712.57	252.56
26 56 13 00-0632		Steel Landscape Light Poles (26 56 13 00-0623) Note: Includes painted finish.		
26 56 13 00-0633		Round Straight, Steel Landscape Light Poles (26 56 13 00-0632)		
26 56 13 00-0634		Round Straight, Steel Landscape Light Poles, Anchor Base (26 56 13 00-0633)		
26 56 13 00-0635	EA	6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Anchor Base.....	508.08	189.42
26 56 13 00-0636		Round Straight, Steel Landscape Light Poles, Direct Burial (26 56 13 00-0633)		
26 56 13 00-0637	EA	6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Direct Burial	479.13	189.42
26 56 13 00-0638		Light Pole Brackets And Arms (26 56 13 00-0001)		
26 56 13 00-0639		Light Pole Brackets (26 56 13 00-0638)		
26 56 13 00-0640		Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0639)		
26 56 13 00-0641		Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)		
26 56 13 00-0642		Steel, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641) Note: Includes powdercoat finish.		
26 56 13 00-0643	EA	Two Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....	594.07	37.88
		<i>For Galvanized Finish, Add</i>	51.83	
26 56 13 00-0644	EA	Three Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	750.45	37.88
		<i>For Galvanized Finish, Add</i>	67.47	
26 56 13 00-0645	EA	Three Tenons At 120 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	798.18	37.88
		<i>For Galvanized Finish, Add</i>	72.24	
26 56 13 00-0646	EA	Four Tenons At 90 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	1,092.82	37.88
		<i>For Galvanized Finish, Add</i>	101.71	
26 56 13 00-0647	EA	Four Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	1,138.71	37.88
		<i>For Galvanized Finish, Add</i>	106.29	
26 56 13 00-0648		Aluminum, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641) Note: Includes satin brushed or painted finish.		
26 56 13 00-0649	EA	Two Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket	216.81	37.88
		<i>For Bronze Or Satin Anodized Finish, Add</i>	14.10	
		<i>For Black Anodized Finish, Add</i>	28.21	
26 56 13 00-0650	EA	Three Tenons At 120 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	261.80	37.88
		<i>For Bronze Or Satin Anodized Finish, Add</i>	18.60	
		<i>For Black Anodized Finish, Add</i>	37.21	
26 56 13 00-0651	EA	Three Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	273.91	37.88
		<i>For Bronze Or Satin Anodized Finish, Add</i>	19.81	
		<i>For Black Anodized Finish, Add</i>	39.63	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0652 EA Four Tenons At 90 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i>	316.31 24.05 48.11	37.88
26 56 13 00-0653 EA Four Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i>	324.96 24.92 49.84	37.88
26 56 13 00-0654 Square Bullhorn Style, Pole Top Area Light Brackets <small>(26 56 13 00-0640)</small>		
26 56 13 00-0655 Steel, Square Bullhorn Style, Pole Top Area Light Brackets <small>(26 56 13 00-0654)</small> Note: Includes powdercoat finish.		
26 56 13 00-0656 EA Two Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket..... <i>For Galvanized Finish, Add</i>	638.72 56.30	37.88
26 56 13 00-0657 EA Three Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket..... <i>For Galvanized Finish, Add</i>	788.51 71.27	37.88
26 56 13 00-0658 EA Four Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket..... <i>For Galvanized Finish, Add</i>	964.43 88.87	37.88
26 56 13 00-0659 EA Four Tenons At 90 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket..... <i>For Galvanized Finish, Add</i>	1,141.18 106.54	37.88
26 56 13 00-0660 Wood Pole Clamp On Style, Pole Top Area Light Brackets <small>(26 56 13 00-0639)</small>		
26 56 13 00-0661 Steel, Wood Pole Clamp On Style, Pole Top Area Light Brackets <small>(26 56 13 00-0660)</small> Note: Includes powdercoat finish.		
26 56 13 00-0662 EA One Tenon, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	605.69	63.14
26 56 13 00-0663 EA Two Tenons At 90, 120 Or 180 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	912.27	63.14
26 56 13 00-0664 EA Three Tenons At 120 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	1,275.02	63.14
26 56 13 00-0665 EA Four Tenons At 90 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	1,394.36	63.14
26 56 13 00-0666 Light Pole Arms <small>(26 56 13 00-0638)</small>		
26 56 13 00-0667 Wood Pole Streetlight Arms <small>(26 56 13 00-0666)</small>		
26 56 13 00-0668 Steel, Wood Pole Streetlight Arms <small>(26 56 13 00-0667)</small>		
26 56 13 00-0669 EA 1-1/4" Arm Diameter, 2-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	352.74	56.82
26 56 13 00-0670 EA 1-1/4" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	373.39	63.14
26 56 13 00-0671 EA 1-1/4" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	433.15	78.93
26 56 13 00-0672 EA 2" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	520.30	63.14
26 56 13 00-0673 EA 2" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	579.65	78.93
26 56 13 00-0674 EA 2" Arm Diameter, 7-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	703.61	94.71
26 56 13 00-0675 Aluminum, Wood Pole Streetlight Arms <small>(26 56 13 00-0667)</small>		
26 56 13 00-0676 EA 1-1/4" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	223.17	63.14
26 56 13 00-0677 EA 2" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	272.86	63.14
26 56 13 00-0678 EA 2" Arm Diameter, 66" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	363.46	78.93
26 56 13 00-0679 EA 2" Arm Diameter, 90" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	474.66	94.71
26 56 13 00-0680 Area Light Arms <small>(26 56 13 00-0666)</small>		
26 56 13 00-0681 Steel Area Light Arms <small>(26 56 13 00-0680)</small>		
26 56 13 00-0682 EA Single, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount.....	672.89	63.14
26 56 13 00-0683 EA Two, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,054.92	69.45
26 56 13 00-0684 EA Three, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,172.17	75.77
26 56 13 00-0685 EA Four, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,391.92	82.08
26 56 13 00-0686 EA Single, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount.....	802.68	78.93
26 56 13 00-0687 EA Two, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,146.27	85.24
26 56 13 00-0688 Aluminum Area Light Arms <small>(26 56 13 00-0680)</small>		
26 56 13 00-0689 EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	267.32	63.14
26 56 13 00-0690 EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	330.04	78.93
26 56 13 00-0691 EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	394.49	94.71
26 56 13 00-0692 EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	265.59	63.14
26 56 13 00-0693 EA Two, 4' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	371.66	69.45
26 56 13 00-0694 EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	326.58	78.93
26 56 13 00-0695 EA Two, 6' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	453.42	85.24
26 56 13 00-0696 EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	396.22	94.71
26 56 13 00-0697 EA Two, 8' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	549.88	101.03
26 56 13 00-0698 Removal And Reinstallation Of Lighting Pole <small>(26 56 13 00-0001)</small>		
26 56 13 00-0699 EA Removal And Relocation Of Up To 45' Lighting Pole And Standards With One Or Two Arms.....	2,083.62	
26 56 13 00-0700 High Mast Lighting <small>(26 56 13 00-0001)</small>		



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 56 13 00-0701	High Mast Lighting Assemblies <small>(26 56 13 00-0700)</small>		
	Note: Includes non-latching system, ring assembly with internal bumper, acrylic top cover, pulley supports, cast arm filter for pipe tension, transition assembly, standard head frame assembly, standard hoist, and powder coated pole. See CSI section 26 56 21 00-0001 for high mast fixtures.		
26 56 13 00-0702	EA 60' High Mast Lighting Assembly	52,854.00	1,891.11
26 56 13 00-0703	EA 70' High Mast Lighting Assembly	55,832.16	1,980.65
26 56 13 00-0704	EA 80' High Mast Lighting Assembly	58,839.38	2,110.01
26 56 13 00-0705	EA 90' High Mast Lighting Assembly	61,873.83	2,279.17
26 56 13 00-0706	EA 100' High Mast Lighting Assembly	64,922.38	2,488.08
26 56 13 00-0707	EA 110' High Mast Lighting Assembly	68,845.17	2,737.07
26 56 13 00-0708	EA 120' High Mast Lighting Assembly	72,010.03	2,985.86
26 56 13 00-0709	EA 130' High Mast Lighting Assembly	74,930.82	3,234.65
26 56 13 00-0710	EA 140' High Mast Lighting Assembly	78,095.68	3,483.56
26 56 13 00-0711	EA 150' High Mast Lighting Assembly	81,951.10	3,732.36

26 56 13 00-0712	High Mast Light Poles <small>(26 56 13 00-0700)</small>		
26 56 13 00-0713	EA 60' High Mast Light Poles	20,009.65	1,135.76
26 56 13 00-0714	EA 70' High Mast Light Poles	22,960.93	1,189.56
26 56 13 00-0715	EA 80' High Mast Light Poles	25,929.28	1,267.28
26 56 13 00-0716	EA 90' High Mast Light Poles	28,912.93	1,368.90
26 56 13 00-0717	EA 100' High Mast Light Poles	31,913.65	1,494.43
26 56 13 00-0718	EA 110' High Mast Light Poles	34,931.47	1,643.86
26 56 13 00-0719	EA 120' High Mast Light Poles	37,208.08	1,793.31
26 56 13 00-0720	EA 130' High Mast Light Poles	37,296.09	3,323.61
26 56 13 00-0721	EA 140' High Mast Light Poles	41,515.46	2,092.20
26 56 13 00-0722	EA 150' High Mast Light Poles	44,037.94	2,241.64

26 56 13 00-0723	High Mast Lighting Accessories <small>(26 56 13 00-0700)</small>		
	See CSI section 26 55 13 00-0119 for lighting fixtures, 26 56 21 00-0001 for light fixtures.		
26 56 13 00-0724	EA Bottom Latching System For High Mast Lighting	924.48	
26 56 13 00-0725	EA Top Latching System For High Mast Lighting	2,627.29	
26 56 13 00-0726	EA Centering Springs For High Mast Lighting	1,989.90	
26 56 13 00-0727	EA Electric Power Cord For High Mast Lighting	833.67	
26 56 13 00-0728	EA Aircraft Warning Lights For High Mast Lighting	1,546.91	
26 56 13 00-0729	EA Internal Motorized Hoist For High Mast Lighting	17,100.79	
26 56 13 00-0730	EA Portable Hoist Motor With Step Down Transformer For High Mast Lighting	17,192.45	

26 56 13 00-0731	Concrete Bases <small>(26 56 13 00-0001)</small>		
26 56 13 00-0732	Concrete Bases, Cast In Place <small>(26 56 13 00-0731)</small>		
	Note: Includes excavation/drilling, concrete, reinforcement, forms for exposed base, anchors/supports and backfill. Excludes conduit.		
26 56 13 00-0733	EA Cast In Place Concrete Base For Poles Minimum Charge	330.04	
	Note: For projects where the cast in place concrete base for poles charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
26 56 13 00-0734	VLF 1-1/2' Diameter Concrete Base For Poles	49.92	
26 56 13 00-0735	VLF 2' Diameter Concrete Base For Poles	75.04	
26 56 13 00-0736	VLF 2-1/2' Diameter Concrete Base For Poles	105.91	
26 56 13 00-0737	VLF 3' Diameter Concrete Base For Poles	143.47	
26 56 13 00-0738	VLF 3-1/2' Diameter Concrete Base For Poles	191.58	
26 56 13 00-0739	VLF 4' Diameter Concrete Base For Poles	242.86	
26 56 13 00-0740	VLF 5' Diameter Concrete Base For Poles	356.92	
26 56 13 00-0741	VLF 6' Diameter Concrete Base For Poles	494.39	

26 56 18	Incandescent Exterior Lighting <small>(26 56)</small>		
26 56 18 00-0001	Exterior Globe <small>(26 56 18)</small>		
26 56 18 00-0002	Incandescent, Exterior Globe <small>(26 56 18 00-0001)</small>		
26 56 18 00-0003	EA 100 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture	54.13	19.80
26 56 18 00-0004	EA 150 To 200 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture	83.37	19.80
26 56 18 00-0005	EA 100 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture	63.66	19.80
26 56 18 00-0006	EA 150 To 200 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture	87.04	19.80

26 56 18 00-0007	Compact Fluorescent And Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures <small>(26 56 18)</small>		
	Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 18 00-0008	EA 7 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	208.49	79.20
26 56 18 00-0009	EA 9 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	218.43	84.16
26 56 18 00-0010	EA 13 Or 14 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	237.76	89.10
26 56 18 00-0011	EA 75 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	241.35	99.00
26 56 18 00-0012	EA 100 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	272.55	113.85

26 56 19 LED Exterior Lighting (26 56)



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0001 LED, Roadway Lighting ^(26 56 19)		
26 56 19 00-0002 LED Roadway Lighting (Philips Lumec) ^(26 56 19 00-0001)		
26 56 19 00-0003 Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec GPL Series) ^(26 56 19 00-0002) Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 570mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0004 EA 49 LEDs, 102 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLS Series).....	1,488.62	150.32
For >50 To 100, Deduct	-74.43	
For >100 To 250, Deduct	-111.65	
For >250 To 500, Deduct	-178.56	
For >500 To 1000, Deduct	-245.48	
For >1000, Deduct	-312.39	
26 56 19 00-0005 EA 98 LEDs, 204 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLM Series)	2,335.73	154.38
For >50 To 100, Deduct	-116.79	
For >100 To 250, Deduct	-175.18	
For >250 To 500, Deduct	-284.25	
For >500 To 1000, Deduct	-393.31	
For >1000, Deduct	-502.38	
26 56 19 00-0006 Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec RFM Series) ^(26 56 19 00-0002) Note: UL wet listed. Includes 3,000 to 4,000K color temperature, 120-277 voltage, up to 1050mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0007 EA 48 LEDs, 55 Watt, Type III Medium, 120-277 Volt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec RFM Series).....	1,078.00	150.32
For >50 To 100, Deduct	-53.90	
For >100 To 250, Deduct	-80.85	
For >250 To 500, Deduct	-127.23	
For >500 To 1000, Deduct	-173.62	
For >1000, Deduct	-220.00	
26 56 19 00-0008 EA 48 LEDs, 80 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	1,078.00	150.32
For >50 To 100, Deduct	-53.90	
For >100 To 250, Deduct	-80.85	
For >250 To 500, Deduct	-127.23	
For >500 To 1000, Deduct	-173.62	
For >1000, Deduct	-220.00	
26 56 19 00-0009 EA 48 LEDs, 108 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	1,078.00	150.32
For >50 To 100, Deduct	-53.90	
For >100 To 250, Deduct	-80.85	
For >250 To 500, Deduct	-127.23	
For >500 To 1000, Deduct	-173.62	
For >1000, Deduct	-220.00	
26 56 19 00-0010 LED Roadway Lighting (Lithonia) ^(26 56 19 00-0001)		
26 56 19 00-0011 Horizontal Tenon Mount, LED Cobra Head Street Lights (Lithonia CSX1 Series) ^(26 56 19 00-0010) Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 700mA driver, die-cast extruded aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 19 00-0012 EA 30 LEDs, 74 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	2,174.11	142.20
For >50 To 100, Deduct	-108.71	
For >100 To 250, Deduct	-163.06	
For >250 To 500, Deduct	-264.65	
For >500 To 1000, Deduct	-366.25	
For >1000, Deduct	-467.85	
26 56 19 00-0013 EA 60 LEDs, 146 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	3,607.80	146.26
For >50 To 100, Deduct	-180.39	
For >100 To 250, Deduct	-270.59	
For >250 To 500, Deduct	-443.66	
For >500 To 1000, Deduct	-616.74	
For >1000, Deduct	-789.82	
26 56 19 00-0014 LED Roadway Lighting (CREE® BetaLED®) ^(26 56 19 00-0001)		
26 56 19 00-0015 Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® LEDway® STR-LWY) ^(26 56 19 00-0014) Note: UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type II Medium, Type II Short or Type III Medium optic. Excludes sensors.		
26 56 19 00-0016 EA 20 LEDs, 25 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	763.13	138.13
For >50 To 100, Deduct	-38.16	
For >100 To 250, Deduct	-57.23	
For >250 To 500, Deduct	-88.48	
For >500 To 1000, Deduct	-119.73	
For >1000, Deduct	-150.98	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0017 EA 30 LEDs, 35 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	853.82	142.20
For >50 To 100, Deduct	-42.69	
For >100 To 250, Deduct	-64.04	
For >250 To 500, Deduct	-99.62	
For >500 To 1000, Deduct	-135.20	
For >1000, Deduct	-170.78	
26 56 19 00-0018 EA 40 LEDs, 45 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	963.02	146.26
For >50 To 100, Deduct	-48.15	
For >100 To 250, Deduct	-72.23	
For >250 To 500, Deduct	-113.06	
For >500 To 1000, Deduct	-153.90	
For >1000, Deduct	-194.74	
26 56 19 00-0019 EA 50 LEDs, 55 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,055.14	150.32
For >50 To 100, Deduct	-52.76	
For >100 To 250, Deduct	-79.14	
For >250 To 500, Deduct	-124.38	
For >500 To 1000, Deduct	-169.62	
For >1000, Deduct	-214.86	
26 56 19 00-0020 EA 60 LEDs, 65 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,147.25	154.38
For >50 To 100, Deduct	-57.36	
For >100 To 250, Deduct	-86.04	
For >250 To 500, Deduct	-135.69	
For >500 To 1000, Deduct	-185.33	
For >1000, Deduct	-234.97	
26 56 19 00-0021 EA 70 LEDs, 75 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,364.65	158.44
For >50 To 100, Deduct	-68.23	
For >100 To 250, Deduct	-102.35	
For >250 To 500, Deduct	-162.66	
For >500 To 1000, Deduct	-222.97	
For >1000, Deduct	-283.28	
26 56 19 00-0022 EA 80 LEDs, 86 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,456.76	162.51
For >50 To 100, Deduct	-72.84	
For >100 To 250, Deduct	-109.26	
For >250 To 500, Deduct	-173.97	
For >500 To 1000, Deduct	-238.68	
For >1000, Deduct	-303.40	
26 56 19 00-0023 EA 90 LEDs, 96 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,547.46	166.57
For >50 To 100, Deduct	-77.37	
For >100 To 250, Deduct	-116.06	
For >250 To 500, Deduct	-185.10	
For >500 To 1000, Deduct	-254.15	
For >1000, Deduct	-323.19	
26 56 19 00-0024 EA 100 LEDs, 111 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,723.57	170.63
For >50 To 100, Deduct	-86.18	
For >100 To 250, Deduct	-129.27	
For >250 To 500, Deduct	-206.91	
For >500 To 1000, Deduct	-284.56	
For >1000, Deduct	-362.21	
26 56 19 00-0025 EA 110 LEDs, 122 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,815.68	174.69
For >50 To 100, Deduct	-90.78	
For >100 To 250, Deduct	-136.18	
For >250 To 500, Deduct	-218.23	
For >500 To 1000, Deduct	-300.28	
For >1000, Deduct	-382.32	
26 56 19 00-0026 EA 120 LEDs, 133 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,907.80	178.75
For >50 To 100, Deduct	-95.39	
For >100 To 250, Deduct	-143.09	
For >250 To 500, Deduct	-229.54	
For >500 To 1000, Deduct	-315.99	
For >1000, Deduct	-402.44	
26 56 19 00-0027 Surface Mount, LED Transportation Fixtures (CREE® BetaLED® Edge® TSP-EDG) <small>(26 56 19 00-0014)</small>		
Note: Direct, cantenary or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0028 EA 40 LEDs, 47 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,482.63	146.26
For Multi-Level Drive Currents, Add	199.30	
For >50 To 100, Deduct	-74.13	
For >100 To 250, Deduct	-111.20	
For >250 To 500, Deduct	-178.02	
For >500 To 1000, Deduct	-244.83	
For >1000, Deduct	-311.65	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0029	EA		60 LEDs, 68 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,708.15	154.38
			<i>For Multi-Level Drive Currents, Add</i>	199.30	
			<i>For >50 To 100, Deduct</i>	-85.41	
			<i>For >100 To 250, Deduct</i>	-128.11	
			<i>For >250 To 500, Deduct</i>	-205.80	
			<i>For >500 To 1000, Deduct</i>	-283.49	
			<i>For >1000, Deduct</i>	-361.18	
26 56 19 00-0030	EA		80 LEDs, 90 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,933.67	162.51
			<i>For Multi-Level Drive Currents, Add</i>	199.30	
			<i>For >50 To 100, Deduct</i>	-96.68	
			<i>For >100 To 250, Deduct</i>	-145.03	
			<i>For >250 To 500, Deduct</i>	-233.58	
			<i>For >500 To 1000, Deduct</i>	-322.14	
			<i>For >1000, Deduct</i>	-410.70	
26 56 19 00-0031	EA		100 LEDs, 111 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,159.18	170.63
			<i>For Multi-Level Drive Currents, Add</i>	199.30	
			<i>For >50 To 100, Deduct</i>	-107.96	
			<i>For >100 To 250, Deduct</i>	-161.94	
			<i>For >250 To 500, Deduct</i>	-261.37	
			<i>For >500 To 1000, Deduct</i>	-360.79	
			<i>For >1000, Deduct</i>	-460.22	
26 56 19 00-0032	EA		120 LEDs, 132 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,828.86	178.75
			<i>For Multi-Level Drive Currents, Add</i>	199.30	
			<i>For >50 To 100, Deduct</i>	-141.44	
			<i>For >100 To 250, Deduct</i>	-212.16	
			<i>For >250 To 500, Deduct</i>	-344.67	
			<i>For >500 To 1000, Deduct</i>	-477.18	
			<i>For >1000, Deduct</i>	-609.68	
26 56 19 00-0033	EA		140 LEDs, 157 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	3,054.39	186.88
			<i>For Multi-Level Drive Currents, Add</i>	199.30	
			<i>For >50 To 100, Deduct</i>	-152.72	
			<i>For >100 To 250, Deduct</i>	-229.08	
			<i>For >250 To 500, Deduct</i>	-372.45	
			<i>For >500 To 1000, Deduct</i>	-515.83	
			<i>For >1000, Deduct</i>	-659.21	
26 56 19 00-0034	EA		160 LEDs, 179 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	3,279.91	195.00
			<i>For Multi-Level Drive Currents, Add</i>	199.30	
			<i>For >50 To 100, Deduct</i>	-164.00	
			<i>For >100 To 250, Deduct</i>	-245.99	
			<i>For >250 To 500, Deduct</i>	-400.24	
			<i>For >500 To 1000, Deduct</i>	-554.48	
			<i>For >1000, Deduct</i>	-708.73	
26 56 19 00-0035			Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® XSP) <small>(26 56 19 00-0014)</small>		
			Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0036	EA		4,806 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A).....	643.34	146.26
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.78	
			<i>For Backlight Control Shield, Add</i>	30.50	
			<i>For Field Adjustable Output, Add</i>	25.19	
			<i>For Bird Spikes, Add</i>	46.36	
			<i>For Field Adjustable Output And Utility Label, Add</i>	33.58	
			<i>For Fuse, Add</i>	50.37	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	50.37	
			<i>For 480 Volt, Add</i>	75.56	
			<i>For Multi-Level, Add</i>	109.13	
			<i>For >50 To 100, Deduct</i>	-32.17	
			<i>For >100 To 250, Deduct</i>	-48.25	
			<i>For >250 To 500, Deduct</i>	-73.10	
			<i>For >500 To 1000, Deduct</i>	-97.96	
			<i>For >1000, Deduct</i>	-122.81	
26 56 19 00-0037	EA		5,340 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A)	643.34	146.26
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.78	
			<i>For Backlight Control Shield, Add</i>	30.50	
			<i>For Field Adjustable Output, Add</i>	25.19	
			<i>For Bird Spikes, Add</i>	46.36	
			<i>For Field Adjustable Output And Utility Label, Add</i>	33.58	
			<i>For Fuse, Add</i>	50.37	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	50.37	
			<i>For 480 Volt, Add</i>	75.56	
			<i>For Multi-Level, Add</i>	109.13	
			<i>For >50 To 100, Deduct</i>	-32.17	
			<i>For >100 To 250, Deduct</i>	-48.25	
			<i>For >250 To 500, Deduct</i>	-73.10	
			<i>For >500 To 1000, Deduct</i>	-97.96	
			<i>For >1000, Deduct</i>	-122.81	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0038	EA		8,407 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E).....	706.80	146.26
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.78	
			<i>For Backlight Control Shield, Add</i>	30.50	
			<i>For Field Adjustable Output, Add</i>	25.19	
			<i>For Bird Spikes, Add</i>	46.36	
			<i>For Field Adjustable Output And Utility Label, Add</i>	33.58	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	50.37	
			<i>For 480 Volt, Add</i>	75.56	
			<i>For >50 To 100, Deduct</i>	-35.34	
			<i>For >100 To 250, Deduct</i>	-53.01	
			<i>For >250 To 500, Deduct</i>	-81.04	
			<i>For >500 To 1000, Deduct</i>	-109.06	
			<i>For >1000, Deduct</i>	-137.09	
26 56 19 00-0039	EA		8,820 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E).....	706.80	146.26
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.78	
			<i>For Backlight Control Shield, Add</i>	30.50	
			<i>For Field Adjustable Output, Add</i>	25.19	
			<i>For Bird Spikes, Add</i>	46.36	
			<i>For Field Adjustable Output And Utility Label, Add</i>	33.58	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	50.37	
			<i>For 480 Volt, Add</i>	75.56	
			<i>For >50 To 100, Deduct</i>	-35.34	
			<i>For >100 To 250, Deduct</i>	-53.01	
			<i>For >250 To 500, Deduct</i>	-81.04	
			<i>For >500 To 1000, Deduct</i>	-109.06	
			<i>For >1000, Deduct</i>	-137.09	
26 56 19 00-0040	EA		9,612 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B).....	819.62	146.26
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.78	
			<i>For Field Adjustable Output, Add</i>	25.19	
			<i>For Backlight Control Shield, Add</i>	42.83	
			<i>For Field Adjustable Output And Utility Label, Add</i>	33.58	
			<i>For Fuse, Add</i>	50.37	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	50.37	
			<i>For Bird Spikes, Add</i>	74.58	
			<i>For 480 Volt, Add</i>	75.56	
			<i>For Multi-Level, Add</i>	109.13	
			<i>For >50 To 100, Deduct</i>	-40.98	
			<i>For >100 To 250, Deduct</i>	-61.47	
			<i>For >250 To 500, Deduct</i>	-95.14	
			<i>For >500 To 1000, Deduct</i>	-128.81	
			<i>For >1000, Deduct</i>	-162.48	
26 56 19 00-0041	EA		10,680 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B).....	819.62	146.26
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.78	
			<i>For Field Adjustable Output, Add</i>	25.19	
			<i>For Backlight Control Shield, Add</i>	42.83	
			<i>For Field Adjustable Output And Utility Label, Add</i>	33.58	
			<i>For Fuse, Add</i>	50.37	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	50.37	
			<i>For Bird Spikes, Add</i>	74.58	
			<i>For 480 Volt, Add</i>	75.56	
			<i>For Multi-Level, Add</i>	109.13	
			<i>For >50 To 100, Deduct</i>	-40.98	
			<i>For >100 To 250, Deduct</i>	-61.47	
			<i>For >250 To 500, Deduct</i>	-95.14	
			<i>For >500 To 1000, Deduct</i>	-128.81	
			<i>For >1000, Deduct</i>	-162.48	
26 56 19 00-0042	EA		13,732 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F).....	925.41	146.26
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.78	
			<i>For Field Adjustable Output, Add</i>	25.19	
			<i>For Backlight Control Shield, Add</i>	42.83	
			<i>For Field Adjustable Output And Utility Label, Add</i>	33.58	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	50.37	
			<i>For Bird Spikes, Add</i>	74.58	
			<i>For 480 Volt, Add</i>	75.56	
			<i>For >50 To 100, Deduct</i>	-46.27	
			<i>For >100 To 250, Deduct</i>	-69.41	
			<i>For >250 To 500, Deduct</i>	-108.36	
			<i>For >500 To 1000, Deduct</i>	-147.32	
			<i>For >1000, Deduct</i>	-186.28	
26 56 19 00-0043	EA		14,408 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F).....	925.41	146.26
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	16.78	
			<i>For Field Adjustable Output, Add</i>	25.19	
			<i>For Backlight Control Shield, Add</i>	42.83	
			<i>For Field Adjustable Output And Utility Label, Add</i>	33.58	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	50.37	
			<i>For Bird Spikes, Add</i>	74.58	
			<i>For 480 Volt, Add</i>	75.56	
			<i>For >50 To 100, Deduct</i>	-46.27	
			<i>For >100 To 250, Deduct</i>	-69.41	
			<i>For >250 To 500, Deduct</i>	-108.36	
			<i>For >500 To 1000, Deduct</i>	-147.32	
			<i>For >1000, Deduct</i>	-186.28	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0044 EA 2,529 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G)	530.51	146.26
For Utility Label, Add	8.39	
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	25.19	
For 0 To 10 Volt Dimming, Add	50.37	
For >50 To 100, Deduct	-26.53	
For >100 To 250, Deduct	-39.79	
For >250 To 500, Deduct	-59.00	
For >500 To 1000, Deduct	-78.21	
For >1000, Deduct	-97.43	
26 56 19 00-0045 EA 2,722 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G).....	530.51	146.26
For Utility Label, Add	8.39	
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	25.19	
For 0 To 10 Volt Dimming, Add	50.37	
For >50 To 100, Deduct	-26.53	
For >100 To 250, Deduct	-39.79	
For >250 To 500, Deduct	-59.00	
For >500 To 1000, Deduct	-78.21	
For >1000, Deduct	-97.43	
26 56 19 00-0046 EA 3,819 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™BXSPR-A-O-X-X-C).....	556.96	146.26
For Utility Label, Add	8.39	
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	25.19	
For 0 To 10 Volt Dimming, Add	50.37	
For >50 To 100, Deduct	-27.85	
For >100 To 250, Deduct	-41.77	
For >250 To 500, Deduct	-62.31	
For >500 To 1000, Deduct	-82.84	
For >1000, Deduct	-103.38	
26 56 19 00-0047 EA 4,109 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™BXSPR-A-O-X-X-C).....	556.96	146.26
For Utility Label, Add	8.39	
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	25.19	
For 0 To 10 Volt Dimming, Add	50.37	
For >50 To 100, Deduct	-27.85	
For >100 To 250, Deduct	-41.77	
For >250 To 500, Deduct	-62.31	
For >500 To 1000, Deduct	-82.84	
For >1000, Deduct	-103.38	
26 56 19 00-0048 EA 4,548 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....	565.77	146.26
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
For Field Adjustable Output, Add	25.19	
For Field Adjustable Output And Utility Label, Add	33.58	
For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	50.37	
For 0 To 10 Volt Dimming, Add	50.37	
For >50 To 100, Deduct	-28.29	
For >100 To 250, Deduct	-42.43	
For >250 To 500, Deduct	-63.41	
For >500 To 1000, Deduct	-84.38	
For >1000, Deduct	-105.36	
26 56 19 00-0049 EA 4,627 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....	565.77	146.26
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
For Field Adjustable Output, Add	25.19	
For Field Adjustable Output And Utility Label, Add	33.58	
For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	50.37	
For 0 To 10 Volt Dimming, Add	50.37	
For >50 To 100, Deduct	-28.29	
For >100 To 250, Deduct	-42.43	
For >250 To 500, Deduct	-63.41	
For >500 To 1000, Deduct	-84.38	
For >1000, Deduct	-105.36	
26 56 19 00-0050 Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® RSW™)		
<small>(26 56 19 00-0014)</small>		
Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and gray powder coat finish. Includes utility label and NEMA® photocell receptacle. Excludes sensors.		
26 56 19 00-0051 EA 3,300 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-30K-UL-GY-N)	548.14	146.26
For Field Adjustable Output, Add	25.19	
For Backlight Control Shield, Add	56.61	
For Bird Spikes, Add	75.07	
For >50 To 100, Deduct	-27.41	
For >100 To 250, Deduct	-41.11	
For >250 To 500, Deduct	-61.20	
For >500 To 1000, Deduct	-81.30	
For >1000, Deduct	-101.39	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0052	EA		3,300 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-40K-UL-GY-N).....	548.14	146.26
			<i>For Field Adjustable Output, Add</i>	25.19	
			<i>For Backlight Control Shield, Add</i>	56.61	
			<i>For Bird Spikes, Add</i>	75.07	
			<i>For >50 To 100, Deduct</i>	-27.41	
			<i>For >100 To 250, Deduct</i>	-41.11	
			<i>For >250 To 500, Deduct</i>	-61.20	
			<i>For >500 To 1000, Deduct</i>	-81.30	
			<i>For >1000, Deduct</i>	-101.39	
26 56 19 00-0053	EA		5,000 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-30K-UL-GY-N).....	565.77	146.26
			<i>For Field Adjustable Output, Add</i>	25.19	
			<i>For Backlight Control Shield, Add</i>	56.61	
			<i>For Bird Spikes, Add</i>	75.07	
			<i>For >50 To 100, Deduct</i>	-28.29	
			<i>For >100 To 250, Deduct</i>	-42.43	
			<i>For >250 To 500, Deduct</i>	-63.41	
			<i>For >500 To 1000, Deduct</i>	-84.38	
			<i>For >1000, Deduct</i>	-105.36	
26 56 19 00-0054	EA		5,000 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-40K-UL-GY-N).....	565.77	146.26
			<i>For Field Adjustable Output, Add</i>	25.19	
			<i>For Backlight Control Shield, Add</i>	56.61	
			<i>For Bird Spikes, Add</i>	75.07	
			<i>For >50 To 100, Deduct</i>	-28.29	
			<i>For >100 To 250, Deduct</i>	-42.43	
			<i>For >250 To 500, Deduct</i>	-63.41	
			<i>For >500 To 1000, Deduct</i>	-84.38	
			<i>For >1000, Deduct</i>	-105.36	
26 56 19 00-0055			LED Roadway Lighting (Cooper Lighting) <small>(26 56 19 00-0001)</small>		
26 56 19 00-0056			Horizontal Tenon Mount, LED Roadway Fixtures (Cooper Lighting Streetworks NVN™) <small>(26 56 19 00-0055)</small> Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0057	EA		1 LED Light Square, 51 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	942.35	146.26
			<i>For >50 To 100, Deduct</i>	-47.12	
			<i>For >100 To 250, Deduct</i>	-70.68	
			<i>For >250 To 500, Deduct</i>	-110.48	
			<i>For >500 To 1000, Deduct</i>	-150.29	
			<i>For >1000, Deduct</i>	-190.09	
26 56 19 00-0058	EA		2 LED Light Squares, 103 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,282.53	162.51
			<i>For >50 To 100, Deduct</i>	-64.13	
			<i>For >100 To 250, Deduct</i>	-96.19	
			<i>For >250 To 500, Deduct</i>	-152.19	
			<i>For >500 To 1000, Deduct</i>	-208.19	
			<i>For >1000, Deduct</i>	-264.19	
26 56 19 00-0059	EA		3 LED Light Squares, 154 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,373.86	186.88
			<i>For >50 To 100, Deduct</i>	-68.69	
			<i>For >100 To 250, Deduct</i>	-103.04	
			<i>For >250 To 500, Deduct</i>	-162.39	
			<i>For >500 To 1000, Deduct</i>	-221.74	
			<i>For >1000, Deduct</i>	-281.09	
26 56 19 00-0060	EA		4 LED Light Squares, 206 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	2,055.20	203.13
			<i>For >50 To 100, Deduct</i>	-102.76	
			<i>For >100 To 250, Deduct</i>	-154.14	
			<i>For >250 To 500, Deduct</i>	-246.74	
			<i>For >500 To 1000, Deduct</i>	-339.35	
			<i>For >1000, Deduct</i>	-431.95	
26 56 19 00-0061	EA		6 LED Light Squares, 309 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	2,700.68	231.26
			<i>For >50 To 100, Deduct</i>	-135.03	
			<i>For >100 To 250, Deduct</i>	-202.55	
			<i>For >250 To 500, Deduct</i>	-326.02	
			<i>For >500 To 1000, Deduct</i>	-449.49	
			<i>For >1000, Deduct</i>	-572.96	
26 56 19 00-0062			LED Roadway Lighting (PlanLED) <small>(26 56 19 00-0001)</small>		
26 56 19 00-0063			Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera HERA) <small>(26 56 19 00-0062)</small> Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0064 EA 8,500 Lumens, 85 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 85W)	1,138.36	142.20
For >50 To 100, Deduct	-56.92	
For >100 To 250, Deduct	-85.38	
For >250 To 500, Deduct	-135.19	
For >500 To 1000, Deduct	-184.99	
For >1000, Deduct	-234.80	
26 56 19 00-0065 EA 11,000 Lumens, 110 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 110W)	1,239.88	143.75
For >50 To 100, Deduct	-61.99	
For >100 To 250, Deduct	-92.99	
For >250 To 500, Deduct	-147.80	
For >500 To 1000, Deduct	-202.60	
For >1000, Deduct	-257.41	
26 56 19 00-0066 EA 15,000 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 150W)	1,319.65	146.26
For >50 To 100, Deduct	-65.98	
For >100 To 250, Deduct	-98.97	
For >250 To 500, Deduct	-157.64	
For >500 To 1000, Deduct	-216.31	
For >1000, Deduct	-274.98	
26 56 19 00-0067 Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera SETA) <small>(26 56 19 00-0062)</small> Note: UL wet listed. Includes 3,000K, 3,500K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0068 EA 7,200 Lumens, 60 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET060)	743.85	138.75
For >50 To 100, Deduct	-37.19	
For >100 To 250, Deduct	-55.79	
For >250 To 500, Deduct	-86.04	
For >500 To 1000, Deduct	-116.30	
For >1000, Deduct	-146.55	
26 56 19 00-0069 EA 10,000 Lumens, 80 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET080)	798.05	141.26
For >50 To 100, Deduct	-39.90	
For >100 To 250, Deduct	-59.85	
For >250 To 500, Deduct	-92.69	
For >500 To 1000, Deduct	-125.53	
For >1000, Deduct	-158.37	
26 56 19 00-0070 EA 12,500 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET100)	883.72	143.75
For >50 To 100, Deduct	-44.19	
For >100 To 250, Deduct	-66.28	
For >250 To 500, Deduct	-103.28	
For >500 To 1000, Deduct	-140.28	
For >1000, Deduct	-177.27	
26 56 19 00-0071 Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera META) <small>(26 56 19 00-0062)</small> Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0072 EA 13,000 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT100)	940.79	143.75
For 0 To 10 Volt Dimming, Add	84.28	
For 347-480 Volt, Add	84.28	
For >50 To 100, Deduct	-47.04	
For >100 To 250, Deduct	-70.56	
For >250 To 500, Deduct	-110.41	
For >500 To 1000, Deduct	-150.26	
For >1000, Deduct	-190.11	
26 56 19 00-0073 EA 16,900 Lumens, 130 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT130)	1,045.61	145.01
For 0 To 10 Volt Dimming, Add	84.28	
For 347-480 Volt, Add	24.89	
For >50 To 100, Deduct	-52.28	
For >100 To 250, Deduct	-78.42	
For >250 To 500, Deduct	-123.45	
For >500 To 1000, Deduct	-168.48	
For >1000, Deduct	-213.51	
26 56 19 00-0074 EA 19,500 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT150)	1,126.81	146.26
For 0 To 10 Volt Dimming, Add	84.28	
For 347-480 Volt, Add	106.24	
For >50 To 100, Deduct	-56.34	
For >100 To 250, Deduct	-84.51	
For >250 To 500, Deduct	-133.54	
For >500 To 1000, Deduct	-182.57	
For >1000, Deduct	-231.59	
26 56 19 00-0075 LED Roadway Lighting (General Electric) <small>(26 56 19 00-0001)</small>		
26 56 19 00-0076 Horizontal Tenon Mount, LED Cobra Head Street Lights (General Electric) <small>(26 56 19 00-0075)</small> Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or gray powder coat finish. Excludes sensors.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0077 EA 2,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 02XX 40 A GRAY)	563.70	138.13
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-28.19	
For >100 To 250, Deduct	-42.28	
For >250 To 500, Deduct	-63.56	
For >500 To 1000, Deduct	-84.83	
For >1000, Deduct	-106.11	
26 56 19 00-0078 EA 3,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 03XX 40 A GRAY)	567.45	140.01
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-28.37	
For >100 To 250, Deduct	-42.56	
For >250 To 500, Deduct	-63.93	
For >500 To 1000, Deduct	-85.30	
For >1000, Deduct	-106.68	
26 56 19 00-0079 EA 4,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 04XX 40 A GRAY)	591.71	142.20
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-29.59	
For >100 To 250, Deduct	-44.38	
For >250 To 500, Deduct	-66.85	
For >500 To 1000, Deduct	-89.33	
For >1000, Deduct	-111.81	
26 56 19 00-0080 EA 5,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 05XX 40 A GRAY)	616.53	143.75
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-30.83	
For >100 To 250, Deduct	-46.24	
For >250 To 500, Deduct	-69.88	
For >500 To 1000, Deduct	-93.52	
For >1000, Deduct	-117.16	
26 56 19 00-0081 EA 7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 07XX 40 A GRAY)	682.44	146.88
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-34.12	
For >100 To 250, Deduct	-51.18	
For >250 To 500, Deduct	-77.96	
For >500 To 1000, Deduct	-104.74	
For >1000, Deduct	-131.52	
26 56 19 00-0082 EA 8,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 08XX 40 A GRAY)	717.48	148.13
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-35.87	
For >100 To 250, Deduct	-53.81	
For >250 To 500, Deduct	-82.28	
For >500 To 1000, Deduct	-110.75	
For >1000, Deduct	-139.21	
26 56 19 00-0083 EA 9,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 10XX 40 A GRAY)	783.32	150.32
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-39.17	
For >100 To 250, Deduct	-58.75	
For >250 To 500, Deduct	-90.40	
For >500 To 1000, Deduct	-122.05	
For >1000, Deduct	-153.70	
26 56 19 00-0084 EA 13,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERLH 0 13XX 40 A GRAY)	923.41	154.38
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-46.17	
For >100 To 250, Deduct	-69.26	
For >250 To 500, Deduct	-107.71	
For >500 To 1000, Deduct	-146.16	
For >1000, Deduct	-184.61	
26 56 19 00-0085 EA 19,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL2 0 19XX 40 A GRAY)	1,084.29	162.51
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-54.21	
For >100 To 250, Deduct	-81.32	
For >250 To 500, Deduct	-127.41	
For >500 To 1000, Deduct	-173.50	
For >1000, Deduct	-219.59	

26 56 19 00-0086 LED Roadway Lighting (Acuity AEL Autobahn) (26 56 19 00-0001)

26 56 19 00-0087 Horizontal Tenon Mount, LED Cobra Head Street Lights (Acuity AEL Autobahn) (26 56 19 00-0086)

Note: UL wet listed. Includes 4,000K or 5,000K color temperature, 120-480 voltage, integral 10kV surge suppression, 0-10V dimming, die-cast extruded aluminum housing assembly and white, black, gray, graphite or bronze powder coat finish. Excludes sensors.



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0088	EA		4,200 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 20ALEDE70).....	1,102.15	142.20
			<i>For >50 To 100, Deduct</i>	-55.11	
			<i>For >100 To 250, Deduct</i>	-82.66	
			<i>For >250 To 500, Deduct</i>	-130.66	
			<i>For >500 To 1000, Deduct</i>	-178.66	
			<i>For >1000, Deduct</i>	-226.66	
26 56 19 00-0089	EA		6,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 30BLEDE70).....	1,372.52	146.26
			<i>For >50 To 100, Deduct</i>	-68.63	
			<i>For >100 To 250, Deduct</i>	-102.94	
			<i>For >250 To 500, Deduct</i>	-164.25	
			<i>For >500 To 1000, Deduct</i>	-225.57	
			<i>For >1000, Deduct</i>	-286.88	
26 56 19 00-0090	EA		9,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 40BLEDE70).....	1,920.79	150.32
			<i>For >50 To 100, Deduct</i>	-96.04	
			<i>For >100 To 250, Deduct</i>	-144.06	
			<i>For >250 To 500, Deduct</i>	-232.58	
			<i>For >500 To 1000, Deduct</i>	-321.11	
			<i>For >1000, Deduct</i>	-409.63	
26 56 19 00-0091	EA		13,500 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 60BLEDE70).....	2,472.66	156.26
			<i>For >50 To 100, Deduct</i>	-123.63	
			<i>For >100 To 250, Deduct</i>	-185.45	
			<i>For >250 To 500, Deduct</i>	-301.27	
			<i>For >500 To 1000, Deduct</i>	-417.09	
			<i>For >1000, Deduct</i>	-532.91	
26 56 19 00-0092	EA		17,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 80BLEDE70).....	3,012.18	160.63
			<i>For >50 To 100, Deduct</i>	-150.61	
			<i>For >100 To 250, Deduct</i>	-225.91	
			<i>For >250 To 500, Deduct</i>	-368.49	
			<i>For >500 To 1000, Deduct</i>	-511.07	
			<i>For >1000, Deduct</i>	-653.65	
26 56 19 00-0093			LED Roadway Lighting (Leotek) <small>(26 56 19 00-0001)</small>		
26 56 19 00-0094			Horizontal Tenon Mount, LED Cobra Head Street Lights (Leotek) <small>(26 56 19 00-0093)</small>		
			Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, integral surge protector, die-cast and extruded aluminum housing assembly and gray powder coat finish. Excludes sensors.		
26 56 19 00-0095	EA		Up To 3,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-XXX-WL).....	576.70	142.20
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	9.04	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	27.12	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	48.52	
			<i>For >50 To 100, Deduct</i>	-28.84	
			<i>For >100 To 250, Deduct</i>	-43.25	
			<i>For >250 To 500, Deduct</i>	-64.98	
			<i>For >500 To 1000, Deduct</i>	-86.70	
			<i>For >1000, Deduct</i>	-108.43	
26 56 19 00-0096	EA		Up To 5,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-1AMP-WL).....	589.32	143.75
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	9.04	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	27.12	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	48.52	
			<i>For >50 To 100, Deduct</i>	-29.47	
			<i>For >100 To 250, Deduct</i>	-44.20	
			<i>For >250 To 500, Deduct</i>	-66.48	
			<i>For >500 To 1000, Deduct</i>	-88.76	
			<i>For >1000, Deduct</i>	-111.03	
26 56 19 00-0097	EA		Up To 5,950 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-6M2-MV-NW-X-GY-XXX-WL).....	629.16	144.69
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	9.04	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	27.12	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	48.52	
			<i>For >50 To 100, Deduct</i>	-31.46	
			<i>For >100 To 250, Deduct</i>	-47.19	
			<i>For >250 To 500, Deduct</i>	-71.41	
			<i>For >500 To 1000, Deduct</i>	-95.63	
			<i>For >1000, Deduct</i>	-119.86	
26 56 19 00-0098	EA		Up To 9,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC3-10M2-MV-NW-X-GY-XXX-WL).....	731.53	150.32
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	9.04	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	27.12	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	48.52	
			<i>For >50 To 100, Deduct</i>	-36.58	
			<i>For >100 To 250, Deduct</i>	-54.86	
			<i>For >250 To 500, Deduct</i>	-83.93	
			<i>For >500 To 1000, Deduct</i>	-112.99	
			<i>For >1000, Deduct</i>	-142.05	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	19 00-0099	EA	Up To 11,450 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-12M2-MV-NW-X-GY-XXX-WL)	857.34	154.38
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.04	
			For ANSI 7-wire Photocontrol Receptacle, Add	27.12	
			For Ripley Long-Life Twist Lock Photocontrol, Add	48.52	
			For >50 To 100, Deduct	-42.87	
			For >100 To 250, Deduct	-64.30	
			For >250 To 500, Deduct	-99.45	
			For >500 To 1000, Deduct	-134.60	
			For >1000, Deduct	-169.74	
26 56	19 00-0100	EA	Up To 14,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-15M2-MV-NW-X-GY-XXX-WL)	862.34	156.88
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.04	
			For ANSI 7-wire Photocontrol Receptacle, Add	27.12	
			For Ripley Long-Life Twist Lock Photocontrol, Add	48.52	
			For >50 To 100, Deduct	-43.12	
			For >100 To 250, Deduct	-64.68	
			For >250 To 500, Deduct	-99.95	
			For >500 To 1000, Deduct	-135.22	
			For >1000, Deduct	-170.49	
26 56	19 00-0101	EA	Up To 16,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-18M2-MV-NW-X-GY-XXX-WL)	1,059.05	159.38
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.04	
			For ANSI 7-wire Photocontrol Receptacle, Add	27.12	
			For Ripley Long-Life Twist Lock Photocontrol, Add	48.52	
			For >50 To 100, Deduct	-52.95	
			For >100 To 250, Deduct	-79.43	
			For >250 To 500, Deduct	-124.41	
			For >500 To 1000, Deduct	-169.40	
			For >1000, Deduct	-214.38	
26 56	19 00-0102	EA	Up To 18,750 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-20M2-MV-NW-X-GY-XXX-WL)	1,110.86	162.51
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.04	
			For ANSI 7-wire Photocontrol Receptacle, Add	27.12	
			For Ripley Long-Life Twist Lock Photocontrol, Add	48.52	
			For >50 To 100, Deduct	-55.54	
			For >100 To 250, Deduct	-83.31	
			For >250 To 500, Deduct	-130.73	
			For >500 To 1000, Deduct	-178.15	
			For >1000, Deduct	-225.57	
26 56	19 00-0103	EA	Up To 22,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-24M2-MV-NW-X-GY-XXX-WL)	1,241.14	165.00
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.04	
			For ANSI 7-wire Photocontrol Receptacle, Add	27.12	
			For Ripley Long-Life Twist Lock Photocontrol, Add	48.52	
			For >50 To 100, Deduct	-62.06	
			For >100 To 250, Deduct	-93.09	
			For >250 To 500, Deduct	-146.89	
			For >500 To 1000, Deduct	-200.70	
			For >1000, Deduct	-254.51	
26 56	19 00-0104	EA	Up To 29,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC9-30M2-MV-NW-X-GY-XXX-WL)	1,331.56	167.51
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.04	
			For ANSI 7-wire Photocontrol Receptacle, Add	27.12	
			For Ripley Long-Life Twist Lock Photocontrol, Add	48.52	
			For >50 To 100, Deduct	-66.58	
			For >100 To 250, Deduct	-99.87	
			For >250 To 500, Deduct	-158.07	
			For >500 To 1000, Deduct	-216.27	
			For >1000, Deduct	-274.48	
26 56	19 00-0105	EA	Up To 4,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-20F-MV-NW-X-GY-XXX-WL)	669.05	143.75
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.04	
			For ANSI 7-wire Photocontrol Receptacle, Add	27.12	
			For Ripley Long-Life Twist Lock Photocontrol, Add	48.52	
			For >50 To 100, Deduct	-33.45	
			For >100 To 250, Deduct	-50.18	
			For >250 To 500, Deduct	-76.44	
			For >500 To 1000, Deduct	-102.71	
			For >1000, Deduct	-128.97	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0106 EA Up To 7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-30F-MV-NW-X-GY-XXX-WL).....	735.39	147.51
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.04	
For ANSI 7-wire Photocontrol Receptacle, Add	27.12	
For Ripley Long-Life Twist Lock Photocontrol, Add	48.52	
For >50 To 100, Deduct	-36.77	
For >100 To 250, Deduct	-55.15	
For >250 To 500, Deduct	-84.55	
For >500 To 1000, Deduct	-113.94	
For >1000, Deduct	-143.34	
26 56 19 00-0107 EA Up To 9,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-XXX-WL).....	794.17	150.32
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.04	
For ANSI 7-wire Photocontrol Receptacle, Add	27.12	
For Ripley Long-Life Twist Lock Photocontrol, Add	48.52	
For >50 To 100, Deduct	-39.71	
For >100 To 250, Deduct	-59.56	
For >250 To 500, Deduct	-91.76	
For >500 To 1000, Deduct	-123.95	
For >1000, Deduct	-156.14	
26 56 19 00-0108 EA Up To 12,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-1AMP-WL).....	844.71	153.75
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.04	
For ANSI 7-wire Photocontrol Receptacle, Add	27.12	
For Ripley Long-Life Twist Lock Photocontrol, Add	48.52	
For >50 To 100, Deduct	-42.24	
For >100 To 250, Deduct	-63.35	
For >250 To 500, Deduct	-97.90	
For >500 To 1000, Deduct	-132.45	
For >1000, Deduct	-167.00	
26 56 19 00-0109 EA Up To 13,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-60F-MV-NW-X-GY-XXX-WL).....	896.55	155.01
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.04	
For ANSI 7-wire Photocontrol Receptacle, Add	27.12	
For Ripley Long-Life Twist Lock Photocontrol, Add	48.52	
For >50 To 100, Deduct	-44.83	
For >100 To 250, Deduct	-67.24	
For >250 To 500, Deduct	-104.32	
For >500 To 1000, Deduct	-141.40	
For >1000, Deduct	-178.47	
26 56 19 00-0110 EA Up To 17,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-80F-MV-NW-X-GY-XXX-WL).....	1,069.15	160.63
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.04	
For ANSI 7-wire Photocontrol Receptacle, Add	27.12	
For Ripley Long-Life Twist Lock Photocontrol, Add	48.52	
For >50 To 100, Deduct	-53.46	
For >100 To 250, Deduct	-80.19	
For >250 To 500, Deduct	-125.61	
For >500 To 1000, Deduct	-171.04	
For >1000, Deduct	-216.46	
26 56 19 00-0111 EA Up To 19,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-90F-MV-NW-X-GY-XXX-WL).....	1,210.17	163.75
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.04	
For ANSI 7-wire Photocontrol Receptacle, Add	27.12	
For Ripley Long-Life Twist Lock Photocontrol, Add	48.52	
For >50 To 100, Deduct	-60.51	
For >100 To 250, Deduct	-90.76	
For >250 To 500, Deduct	-143.08	
For >500 To 1000, Deduct	-195.40	
For >1000, Deduct	-247.73	
26 56 19 00-0112 EA Up To 22,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-100F-MV-NW-X-GY-XXX-WL).....	1,287.35	164.38
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.04	
For ANSI 7-wire Photocontrol Receptacle, Add	27.12	
For Ripley Long-Life Twist Lock Photocontrol, Add	48.52	
For >50 To 100, Deduct	-64.37	
For >100 To 250, Deduct	-96.55	
For >250 To 500, Deduct	-152.70	
For >500 To 1000, Deduct	-208.85	
For >1000, Deduct	-265.00	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 56	19 00-0113	EA	Up To 26,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-120F-MV-NW-X-GY-XXX-WL)	1,361.33	166.26
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	9.04	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	27.12	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	48.52	
			<i>For >50 To 100, Deduct</i>	-68.07	
			<i>For >100 To 250, Deduct</i>	-102.10	
			<i>For >250 To 500, Deduct</i>	-161.85	
			<i>For >500 To 1000, Deduct</i>	-221.61	
			<i>For >1000, Deduct</i>	-281.36	
26 56	19 00-0114	EA	Up To 11,720 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-30H-MV-NW-X-GY-1AMP)	718.07	156.88
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	9.04	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	27.12	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	48.52	
			<i>For >50 To 100, Deduct</i>	-35.90	
			<i>For >100 To 250, Deduct</i>	-53.86	
			<i>For >250 To 500, Deduct</i>	-81.91	
			<i>For >500 To 1000, Deduct</i>	-109.97	
			<i>For >1000, Deduct</i>	-138.03	
26 56	19 00-0115	EA	Up To 15,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-40H-MV-NW-X-GY-1AMP)	778.15	158.44
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	9.04	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	27.12	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	48.52	
			<i>For >50 To 100, Deduct</i>	-38.91	
			<i>For >100 To 250, Deduct</i>	-58.36	
			<i>For >250 To 500, Deduct</i>	-89.35	
			<i>For >500 To 1000, Deduct</i>	-120.33	
			<i>For >1000, Deduct</i>	-151.32	
26 56	19 00-0116	EA	Up To 4,180 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ0-15H-MV-NW-X-GY-XXX-WL)	550.74	143.44
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	9.04	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	27.12	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	48.52	
			<i>For >50 To 100, Deduct</i>	-27.54	
			<i>For >100 To 250, Deduct</i>	-41.31	
			<i>For >250 To 500, Deduct</i>	-61.67	
			<i>For >500 To 1000, Deduct</i>	-82.04	
			<i>For >1000, Deduct</i>	-102.40	
26 56	19 00-0117	EA	Up To 5,510 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ1-20H-MV-NW-X-GY-XXX-WL)	560.82	144.69
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	9.04	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	27.12	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	48.52	
			<i>For >50 To 100, Deduct</i>	-28.04	
			<i>For >100 To 250, Deduct</i>	-42.06	
			<i>For >250 To 500, Deduct</i>	-62.87	
			<i>For >500 To 1000, Deduct</i>	-83.67	
			<i>For >1000, Deduct</i>	-104.48	
26 56	19 00-0118	EA	Up To 7,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ2-20H-MV-NW-X-GY-1AMP-WL)	610.11	147.51
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	9.04	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	27.12	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	48.52	
			<i>For >50 To 100, Deduct</i>	-30.51	
			<i>For >100 To 250, Deduct</i>	-45.76	
			<i>For >250 To 500, Deduct</i>	-68.89	
			<i>For >500 To 1000, Deduct</i>	-92.02	
			<i>For >1000, Deduct</i>	-115.15	
26 56	19 00-0119	EA	Up To 16,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-60G-MV-NW-X-GY-XXX-WL)	943.26	159.38
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	9.04	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	27.12	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	48.52	
			<i>For >50 To 100, Deduct</i>	-47.16	
			<i>For >100 To 250, Deduct</i>	-70.74	
			<i>For >250 To 500, Deduct</i>	-109.94	
			<i>For >500 To 1000, Deduct</i>	-149.13	
			<i>For >1000, Deduct</i>	-188.33	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0120 EA Up To 22,100 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-80G-MV-NW-X-GY-XXX-WL).....	1,234.20	164.38
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.04	
For ANSI 7-wire Photocontrol Receptacle, Add	27.12	
For Ripley Long-Life Twist Lock Photocontrol, Add	48.52	
For >50 To 100, Deduct	-61.71	
For >100 To 250, Deduct	-92.57	
For >250 To 500, Deduct	-146.06	
For >500 To 1000, Deduct	-199.55	
For >1000, Deduct	-253.04	
26 56 19 00-0121 EA Up To 22,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL2-60G-MV-NW-X-GY-1AMP-WL).....	1,098.78	165.00
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.04	
For ANSI 7-wire Photocontrol Receptacle, Add	27.12	
For Ripley Long-Life Twist Lock Photocontrol, Add	48.52	
For >50 To 100, Deduct	-54.94	
For >100 To 250, Deduct	-82.41	
For >250 To 500, Deduct	-129.10	
For >500 To 1000, Deduct	-175.79	
For >1000, Deduct	-222.47	
26 56 19 00-0122 EA Up To 5,484 Lumens, Horizontal Tenon Mount, LED Security Light (Leotek® SafeGuard™ SG1-01-MV-NW-5-GY).....	528.58	143.75
For Twist Lock Shorting Cap, Add	9.04	
For ANSI 7-wire Photocontrol Receptacle, Add	27.12	
For Ripley Long-Life Twist Lock Photocontrol, Add	48.52	
For >50 To 100, Deduct	-26.43	
For >100 To 250, Deduct	-39.64	
For >250 To 500, Deduct	-58.88	
For >500 To 1000, Deduct	-78.13	
For >1000, Deduct	-97.37	
26 56 19 00-0123 LED, Wall Packs <small>(26 56 19)</small>		
26 56 19 00-0124 Full Cutoff, LED Wall Packs <small>(26 56 19 00-0123)</small>		
26 56 19 00-0125 Full Cutoff, LED Wall Packs (Lithonia) <small>(26 56 19 00-0124)</small>		
26 56 19 00-0126 EA 30 LEDs, 57 Watt, 530 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED)	930.32	109.38
For >50 To 100, Deduct	-46.52	
For >100 To 250, Deduct	-69.77	
For >250 To 500, Deduct	-110.82	
For >500 To 1000, Deduct	-151.87	
For >1000, Deduct	-192.92	
26 56 19 00-0127 EA 30 LEDs, 35 Watt, 350 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED)	1,007.55	109.38
For >50 To 100, Deduct	-50.38	
For >100 To 250, Deduct	-75.57	
For >250 To 500, Deduct	-120.47	
For >500 To 1000, Deduct	-165.38	
For >1000, Deduct	-210.29	
26 56 19 00-0128 Full Cutoff, LED Wall Packs (CREE® BetaLED®) <small>(26 56 19 00-0124)</small>		
26 56 19 00-0129 Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® Edge® SEC-EDG) <small>(26 56 19 00-0128)</small>		
Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0130 EA 20 LEDs, 26 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	820.72	106.25
Note: Includes 350mA or 525mA driver.		
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
For Bird Spikes, Add	42.36	
For Fuse, Add	50.37	
For 0 To 10 Volt Dimming, Add	50.37	
For 480 Volt, Add	75.56	
For Multi-Level, Add	109.13	
For >50 To 100, Deduct	-41.04	
For >100 To 250, Deduct	-61.55	
For >250 To 500, Deduct	-97.28	
For >500 To 1000, Deduct	-133.00	
For >1000, Deduct	-168.72	
26 56 19 00-0131 EA 40 LEDs, 47 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	1,053.60	112.50
Note: Includes 350mA or 525mA driver.		
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
For Bird Spikes, Add	42.98	
For Fuse, Add	50.37	
For 0 To 10 Volt Dimming, Add	50.37	
For 480 Volt, Add	75.56	
For Multi-Level, Add	109.13	
For >50 To 100, Deduct	-52.68	
For >100 To 250, Deduct	-79.02	
For >250 To 500, Deduct	-126.07	
For >500 To 1000, Deduct	-173.13	
For >1000, Deduct	-220.18	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	19 00-0132	EA	60 LEDs, 68 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,179.93	118.75
			Note: Includes 350mA or 525mA driver.		
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
			For Bird Spikes, Add	43.61	
			For Fuse, Add	50.37	
			For 0 To 10 Volt Dimming, Add	50.37	
			For 480 Volt, Add	75.56	
			For Multi-Level, Add	109.13	
			For >50 To 100, Deduct	-59.00	
			For >100 To 250, Deduct	-88.49	
			For >250 To 500, Deduct	-141.55	
			For >500 To 1000, Deduct	-194.61	
			For >1000, Deduct	-247.67	
26 56	19 00-0133	EA	80 LEDs, 90 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,519.34	125.01
			Note: Includes 350mA or 525mA driver.		
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
			For Bird Spikes, Add	44.23	
			For Fuse, Add	50.37	
			For 0 To 10 Volt Dimming, Add	50.37	
			For 480 Volt, Add	75.56	
			For Multi-Level, Add	109.13	
			For >50 To 100, Deduct	-75.97	
			For >100 To 250, Deduct	-113.95	
			For >250 To 500, Deduct	-183.67	
			For >500 To 1000, Deduct	-253.38	
			For >1000, Deduct	-323.10	
26 56	19 00-0134	EA	100 LEDs, 111 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,752.21	131.26
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
			For Bird Spikes, Add	44.86	
			For Fuse, Add	50.37	
			For 0 To 10 Volt Dimming, Add	50.37	
			For 480 Volt, Add	75.56	
			For Multi-Level, Add	109.13	
			For >50 To 100, Deduct	-87.61	
			For >100 To 250, Deduct	-131.42	
			For >250 To 500, Deduct	-212.46	
			For >500 To 1000, Deduct	-293.51	
			For >1000, Deduct	-374.56	
26 56	19 00-0135	EA	120 LEDs, 132 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,985.08	137.50
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
			For Bird Spikes, Add	45.48	
			For Fuse, Add	50.37	
			For 0 To 10 Volt Dimming, Add	50.37	
			For 480 Volt, Add	75.56	
			For Multi-Level, Add	109.13	
			For >50 To 100, Deduct	-99.25	
			For >100 To 250, Deduct	-148.88	
			For >250 To 500, Deduct	-241.26	
			For >500 To 1000, Deduct	-333.64	
			For >1000, Deduct	-426.02	
26 56	19 00-0136		Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® XSPW™) ^{(26 56} _{19 00-0128)}		
			Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, Class 2 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56	19 00-0137	EA	25 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™).....	493.48	106.25
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
			For 0 To 10 Volt Dimming, Add	50.37	
			For Multi-Level, Add	50.37	
			For >50 To 100, Deduct	-24.67	
			For >100 To 250, Deduct	-37.01	
			For >250 To 500, Deduct	-56.37	
			For >500 To 1000, Deduct	-75.73	
			For >1000, Deduct	-95.09	
26 56	19 00-0138	EA	42 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™).....	571.54	112.50
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
			For 0 To 10 Volt Dimming, Add	50.37	
			For Multi-Level, Add	50.37	
			For >50 To 100, Deduct	-28.58	
			For >100 To 250, Deduct	-42.87	
			For >250 To 500, Deduct	-65.82	
			For >500 To 1000, Deduct	-88.77	
			For >1000, Deduct	-111.72	
26 56	19 00-0139		Open Face LED Wall Pack ^{(26 56} _{19 00-0123)}		
			Note: Heavy-duty cast aluminum housing is polyester powder coated to be rust and corrosion proof, High-quality shatter-resistant glass		
26 56	19 00-0140	EA	3,640 Lumens, 28 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP28U-50B-MS).....	680.74	108.38
			For >50 To 100, Deduct	-34.04	
			For >100 To 250, Deduct	-51.06	
			For >250 To 500, Deduct	-76.96	
			For >500 To 1000, Deduct	-102.87	
			For >1000, Deduct	-128.78	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0141	EA		5,540 Lumens, 40 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP40U-50B-MS).....	733.35	108.38
			<i>For >50 To 100, Deduct</i>	-36.67	
			<i>For >100 To 250, Deduct</i>	-55.00	
			<i>For >250 To 500, Deduct</i>	-83.54	
			<i>For >500 To 1000, Deduct</i>	-112.08	
			<i>For >1000, Deduct</i>	-140.62	
26 56 19 00-0142	EA		7,065 Lumens, 50 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP50U-50B-MS).....	760.91	108.38
			<i>For >50 To 100, Deduct</i>	-38.05	
			<i>For >100 To 250, Deduct</i>	-57.07	
			<i>For >250 To 500, Deduct</i>	-86.99	
			<i>For >500 To 1000, Deduct</i>	-116.90	
			<i>For >1000, Deduct</i>	-146.82	
26 56 19 00-0143	EA		11,375 Lumens, 80 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP80U-50B-MS).....	783.25	108.38
			<i>For >50 To 100, Deduct</i>	-39.16	
			<i>For >100 To 250, Deduct</i>	-58.74	
			<i>For >250 To 500, Deduct</i>	-89.78	
			<i>For >500 To 1000, Deduct</i>	-120.81	
			<i>For >1000, Deduct</i>	-151.85	
26 56 19 00-0144	EA		16,945 Lumens, 120 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP120U-50B-MS).....	950.86	108.38
			<i>For >50 To 100, Deduct</i>	-47.54	
			<i>For >100 To 250, Deduct</i>	-71.31	
			<i>For >250 To 500, Deduct</i>	-110.73	
			<i>For >500 To 1000, Deduct</i>	-150.14	
			<i>For >1000, Deduct</i>	-189.56	
26 56 19 00-0145			Wall Pack Accessories <small>(26 56 19 00-0123)</small>		
26 56 19 00-0146	EA		Photocell For Wall Pack.....	126.50	27.10
26 56 19 00-0147	EA		Wire Guard For Mini And Small Wall Pack	141.62	27.10
26 56 19 00-0148	EA		Wire Guard For Medium And Large Wall Pack	204.84	27.10
26 56 19 00-0149	EA		Clear Polycarbonate Vandal Guard For Wall Packs	296.08	27.10
26 56 19 00-0150	EA		Full Cutoff Visor For Wall Pack	137.50	27.10
26 56 19 00-0151			LED, Pole Mounted <small>(26 56 19)</small>		
26 56 19 00-0152			LED, Pole Mounted (Dialight) <small>(26 56 19 00-0151)</small>		
26 56 19 00-0153	EA		131 Watt, Enclosed And Gasketed, Exterior LED Roadway Fixture (Dialight SL2C4ELGH)	1,844.15	178.75
			<i>For >50 To 100, Deduct</i>	-92.21	
			<i>For >100 To 250, Deduct</i>	-138.31	
			<i>For >250 To 500, Deduct</i>	-221.58	
			<i>For >500 To 1000, Deduct</i>	-304.85	
			<i>For >1000, Deduct</i>	-388.12	
26 56 19 00-0154			LED, Pole Mounted (LED-Era) <small>(26 56 19 00-0151)</small>		
26 56 19 00-0155	EA		88 Watt, Enclosed And Gasketed, LED Exterior Roadway Fixture (LED-Era LSS).....	2,297.01	162.51
			<i>For >50 To 100, Deduct</i>	-114.85	
			<i>For >100 To 250, Deduct</i>	-172.28	
			<i>For >250 To 500, Deduct</i>	-279.00	
			<i>For >500 To 1000, Deduct</i>	-385.73	
			<i>For >1000, Deduct</i>	-492.45	
26 56 19 00-0156	EA		124 Watt, Enclosed And Gasketed, LED Exterior Roadway Fixture (LED-Era LS7).....	2,735.86	178.75
			<i>For >50 To 100, Deduct</i>	-136.79	
			<i>For >100 To 250, Deduct</i>	-205.19	
			<i>For >250 To 500, Deduct</i>	-333.04	
			<i>For >500 To 1000, Deduct</i>	-460.90	
			<i>For >1000, Deduct</i>	-588.76	
26 56 19 00-0157			LED, Pole Mounted (Lighting Science Group) <small>(26 56 19 00-0151)</small>		
26 56 19 00-0158	EA		50 Watt, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR1 CW R3 2B)	1,674.10	146.26
			<i>For >50 To 100, Deduct</i>	-83.71	
			<i>For >100 To 250, Deduct</i>	-125.56	
			<i>For >250 To 500, Deduct</i>	-201.95	
			<i>For >500 To 1000, Deduct</i>	-278.34	
			<i>For >1000, Deduct</i>	-354.73	
26 56 19 00-0159	EA		75 Watt, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR2 CW R3 2B)	1,706.60	162.51
			<i>For >50 To 100, Deduct</i>	-85.33	
			<i>For >100 To 250, Deduct</i>	-128.00	
			<i>For >250 To 500, Deduct</i>	-205.20	
			<i>For >500 To 1000, Deduct</i>	-282.40	
			<i>For >1000, Deduct</i>	-359.61	
26 56 19 00-0160	EA		100 Watt, Type II Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR3 CW R2 2B)	1,847.15	170.63
			<i>For >50 To 100, Deduct</i>	-92.36	
			<i>For >100 To 250, Deduct</i>	-138.54	
			<i>For >250 To 500, Deduct</i>	-222.36	
			<i>For >500 To 1000, Deduct</i>	-306.19	
			<i>For >1000, Deduct</i>	-390.01	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0161	EA		100 Watt, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR3 CW R3 2B).....	1,847.15	170.63
			<i>For >50 To 100, Deduct</i>	-92.36	
			<i>For >100 To 250, Deduct</i>	-138.54	
			<i>For >250 To 500, Deduct</i>	-222.36	
			<i>For >500 To 1000, Deduct</i>	-306.19	
			<i>For >1000, Deduct</i>	-390.01	
26 56 19 00-0162	EA		150 Watt, Type II Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR4 CW R2 2B).....	1,879.66	186.88
			<i>For >50 To 100, Deduct</i>	-93.98	
			<i>For >100 To 250, Deduct</i>	-140.97	
			<i>For >250 To 500, Deduct</i>	-225.61	
			<i>For >500 To 1000, Deduct</i>	-310.25	
			<i>For >1000, Deduct</i>	-394.89	
26 56 19 00-0163	EA		150 Watt, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR4 CW R3 2B).....	1,879.66	186.88
			<i>For >50 To 100, Deduct</i>	-93.98	
			<i>For >100 To 250, Deduct</i>	-140.97	
			<i>For >250 To 500, Deduct</i>	-225.61	
			<i>For >500 To 1000, Deduct</i>	-310.25	
			<i>For >1000, Deduct</i>	-394.89	
26 56 19 00-0164	EA		86 Watt, Type V Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group SHB CW CLR).....	2,208.57	162.51
			<i>For >50 To 100, Deduct</i>	-110.43	
			<i>For >100 To 250, Deduct</i>	-165.64	
			<i>For >250 To 500, Deduct</i>	-267.95	
			<i>For >500 To 1000, Deduct</i>	-370.25	
			<i>For >1000, Deduct</i>	-472.55	
26 56 19 00-0165			LED, Area Fixtures <small>(26 56 19)</small>		
26 56 19 00-0166			Pole Mount, LED Area Fixtures <small>(26 56 19 00-0165)</small>		
26 56 19 00-0167			Pole Mount, Rectangular, LED Architectural Area Fixtures (Lithonia DSX) <small>(26 56 19 00-0166)</small>		
			Note: UL wet listed. Includes 4,000K color temperature, 480 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0168	EA		20 LEDs, 49 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED).....	2,471.81	106.25
			<i>For >50 To 100, Deduct</i>	-123.59	
			<i>For >100 To 250, Deduct</i>	-185.39	
			<i>For >250 To 500, Deduct</i>	-303.66	
			<i>For >500 To 1000, Deduct</i>	-421.94	
			<i>For >1000, Deduct</i>	-540.22	
26 56 19 00-0169	EA		40 LEDs, 89 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED).....	2,665.06	112.50
			<i>For >50 To 100, Deduct</i>	-133.25	
			<i>For >100 To 250, Deduct</i>	-199.88	
			<i>For >250 To 500, Deduct</i>	-327.51	
			<i>For >500 To 1000, Deduct</i>	-455.14	
			<i>For >1000, Deduct</i>	-582.76	
26 56 19 00-0170	EA		80 LEDs, 188 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED).....	2,870.80	125.01
			<i>For >50 To 100, Deduct</i>	-143.54	
			<i>For >100 To 250, Deduct</i>	-215.31	
			<i>For >250 To 500, Deduct</i>	-352.60	
			<i>For >500 To 1000, Deduct</i>	-489.89	
			<i>For >1000, Deduct</i>	-627.18	
26 56 19 00-0171	EA		100 LEDs, 218 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED).....	2,883.30	131.26
			<i>For >50 To 100, Deduct</i>	-144.17	
			<i>For >100 To 250, Deduct</i>	-216.25	
			<i>For >250 To 500, Deduct</i>	-353.85	
			<i>For >500 To 1000, Deduct</i>	-491.45	
			<i>For >1000, Deduct</i>	-629.05	
26 56 19 00-0172			Arm Mount, Rectangular, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDG) <small>(26 56 19 00-0166)</small>		
			Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type III Medium optic. Excludes sensors. All fixtures without the backlight control shield are DLC qualified		
26 56 19 00-0173	EA		40 LEDs, 47 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG).....	1,096.25	112.50
			<i>For Backlight Shielding, Add</i>	19.93	
			<i>For Type II Medium Optic, Add</i>	35.18	
			<i>For 347-480 Volt, Add</i>	99.79	
			<i>For Multi-Level Drive Currents, Add</i>	199.30	
			<i>For >50 To 100, Deduct</i>	-54.81	
			<i>For >100 To 250, Deduct</i>	-82.22	
			<i>For >250 To 500, Deduct</i>	-131.41	
			<i>For >500 To 1000, Deduct</i>	-180.59	
			<i>For >1000, Deduct</i>	-229.78	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0174 EA 60 LEDs, 68 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,318.01	118.75
For Backlight Shielding, Add	19.93	
For Type II Medium Optic, Add	35.81	
For 347-480 Volt, Add	99.79	
For Multi-Level Drive Currents, Add	199.30	
For >50 To 100, Deduct	-65.90	
For >100 To 250, Deduct	-98.85	
For >250 To 500, Deduct	-158.81	
For >500 To 1000, Deduct	-218.78	
For >1000, Deduct	-278.74	
26 56 19 00-0175 EA 80 LEDs, 90 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,623.77	125.01
For Backlight Shielding, Add	19.93	
For Type II Medium Optic, Add	36.43	
For 347-480 Volt, Add	99.79	
For Multi-Level Drive Currents, Add	199.30	
For >50 To 100, Deduct	-81.19	
For >100 To 250, Deduct	-121.78	
For >250 To 500, Deduct	-196.72	
For >500 To 1000, Deduct	-271.66	
For >1000, Deduct	-346.60	
26 56 19 00-0176 EA 100 LEDs, 111 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,845.54	131.26
For Backlight Shielding, Add	19.93	
For Type II Medium Optic, Add	37.06	
For 347-480 Volt, Add	99.79	
For Multi-Level Drive Currents, Add	199.30	
For >50 To 100, Deduct	-92.28	
For >100 To 250, Deduct	-138.42	
For >250 To 500, Deduct	-224.13	
For >500 To 1000, Deduct	-309.84	
For >1000, Deduct	-395.56	
26 56 19 00-0177 EA 120 LEDs, 132 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	2,067.31	137.50
For Backlight Shielding, Add	19.93	
For Type II Medium Optic, Add	37.68	
For 347-480 Volt, Add	99.79	
For Multi-Level Drive Currents, Add	199.30	
For >50 To 100, Deduct	-103.37	
For >100 To 250, Deduct	-155.05	
For >250 To 500, Deduct	-251.54	
For >500 To 1000, Deduct	-348.03	
For >1000, Deduct	-444.52	
26 56 19 00-0178 EA 140 LEDs, 157 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	2,355.99	143.75
For Backlight Shielding, Add	19.93	
For Type II Medium Optic, Add	38.31	
For 347-480 Volt, Add	99.79	
For Multi-Level Drive Currents, Add	199.30	
For >50 To 100, Deduct	-117.80	
For >100 To 250, Deduct	-176.70	
For >250 To 500, Deduct	-287.31	
For >500 To 1000, Deduct	-397.92	
For >1000, Deduct	-508.53	
26 56 19 00-0179 EA 160 LEDs, 179 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	2,577.75	150.01
For Backlight Shielding, Add	19.93	
For Type II Medium Optic, Add	38.93	
For 347-480 Volt, Add	99.79	
For Multi-Level Drive Currents, Add	199.30	
For >50 To 100, Deduct	-128.89	
For >100 To 250, Deduct	-193.33	
For >250 To 500, Deduct	-314.72	
For >500 To 1000, Deduct	-436.11	
For >1000, Deduct	-557.49	
26 56 19 00-0180 Direct Or Arm Mount, Rectangular, High Output, LED Area Fixtures		
(CREE® BetaLED® Edge® ARE-EHO) <small>(26 56 19 00-0166)</small>		
Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0181 EA 120 LEDs, 267 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO)	1,912.79	137.50
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
For Bird Spikes, Add	40.20	
For 5,000K Color Temperature, Add	41.98	
For Fuse, Add	50.37	
For 0 To 10 Volt Dimming, Add	50.37	
For 480 Volt, Add	75.56	
For Multi-Level, Add	109.13	
For 1,000mA Driver, Add	141.05	
For >50 To 100, Deduct	-95.64	
For >100 To 250, Deduct	-143.46	
For >250 To 500, Deduct	-232.22	
For >500 To 1000, Deduct	-320.99	
For >1000, Deduct	-409.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0182 EA 240 LEDs, 533 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO).....	3,209.38	168.75
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	16.78	
For 5,000K Color Temperature, Add	41.98	
For Fuse, Add	50.37	
For 0 To 10 Volt Dimming, Add	50.37	
For Bird Spikes, Add	59.20	
For Multi-Level, Add	109.13	
For 1,000mA Driver, Add	141.04	
For 480 Volt, Add	151.10	
For >50 To 100, Deduct	-160.47	
For >100 To 250, Deduct	-240.70	
For >250 To 500, Deduct	-392.73	
For >500 To 1000, Deduct	-544.77	
For >1000, Deduct	-696.80	
26 56 19 00-0183 Wall Mount, LED Area Fixtures (26 56 19 00-0165)		
26 56 19 00-0184 Wall Mount, LED Architectural Area Fixtures (Lithonia DSXW) (26 56 19 00-0183)		
Note: UL wet listed. Includes 277 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0185 EA 20 LEDs, 47 Watt, 4000K CCT, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED).....	1,081.89	106.25
For >50 To 100, Deduct	-54.09	
For >100 To 250, Deduct	-81.14	
For >250 To 500, Deduct	-129.92	
For >500 To 1000, Deduct	-178.71	
For >1000, Deduct	-227.49	
26 56 19 00-0186 EA 30 LEDs, 71 Watt, 4000K CCT, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED).....	1,106.89	118.75
For >50 To 100, Deduct	-55.34	
For >100 To 250, Deduct	-83.02	
For >250 To 500, Deduct	-132.42	
For >500 To 1000, Deduct	-181.83	
For >1000, Deduct	-231.24	
26 56 19 00-0187 Surface Mount, LED Parking Structure Fixtures (26 56 19 00-0165)		
26 56 19 00-0188 Surface Mount, Rectangular, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-EDG) (26 56 19 00-0187)		
Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0189 EA 40 LEDs, 47 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	970.97	112.50
For Multi-Level Drive Currents, Add	199.30	
For >50 To 100, Deduct	-48.55	
For >100 To 250, Deduct	-72.82	
For >250 To 500, Deduct	-115.75	
For >500 To 1000, Deduct	-158.67	
For >1000, Deduct	-201.59	
26 56 19 00-0190 EA 60 LEDs, 68 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,192.74	118.75
For Multi-Level Drive Currents, Add	199.30	
For >50 To 100, Deduct	-59.64	
For >100 To 250, Deduct	-89.46	
For >250 To 500, Deduct	-143.15	
For >500 To 1000, Deduct	-196.85	
For >1000, Deduct	-250.55	
26 56 19 00-0191 EA 80 LEDs, 90 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,414.51	125.01
For Multi-Level Drive Currents, Add	199.30	
For >50 To 100, Deduct	-70.73	
For >100 To 250, Deduct	-106.09	
For >250 To 500, Deduct	-170.56	
For >500 To 1000, Deduct	-235.04	
For >1000, Deduct	-299.51	
26 56 19 00-0192 EA 100 LEDs, 111 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,636.27	131.26
For Multi-Level Drive Currents, Add	199.30	
For >50 To 100, Deduct	-81.81	
For >100 To 250, Deduct	-122.72	
For >250 To 500, Deduct	-197.97	
For >500 To 1000, Deduct	-273.22	
For >1000, Deduct	-348.47	
26 56 19 00-0193 Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-304) (26 56 19 00-0187)		
Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0194	EA		40 LEDs, 47 Watt, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	936.81	112.50
			<i>For Multi-Level Drive Currents, Add</i>	199.30	
			<i>For >50 To 100, Deduct</i>	-46.84	
			<i>For >100 To 250, Deduct</i>	-70.26	
			<i>For >250 To 500, Deduct</i>	-111.48	
			<i>For >500 To 1000, Deduct</i>	-152.69	
			<i>For >1000, Deduct</i>	-193.91	
26 56 19 00-0195	EA		60 LEDs, 68 Watt, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	1,033.30	118.75
			<i>For Multi-Level Drive Currents, Add</i>	199.30	
			<i>For >50 To 100, Deduct</i>	-51.67	
			<i>For >100 To 250, Deduct</i>	-77.50	
			<i>For >250 To 500, Deduct</i>	-123.22	
			<i>For >500 To 1000, Deduct</i>	-168.95	
			<i>For >1000, Deduct</i>	-214.68	
26 56 19 00-0196			Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VG) <small>(26 56 19 00-0187)</small>		
			Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0197	EA		3,700 Lumens, 50 Watt, Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VGADM5MA40KUL).....	927.48	112.50
			<i>For >50 To 100, Deduct</i>	-46.37	
			<i>For >100 To 250, Deduct</i>	-69.56	
			<i>For >250 To 500, Deduct</i>	-110.31	
			<i>For >500 To 1000, Deduct</i>	-151.06	
			<i>For >1000, Deduct</i>	-191.81	
26 56 19 00-0198			Surface Mount, Rectangular, LED Parking Structure Fixtures (Philips Gardco ELG) <small>(26 56 19 00-0187)</small>		
			Note: Direct or pendant mount. UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and aluminum finish. Excludes sensors.		
26 56 19 00-0199	EA		70 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	1,846.96	118.75
			<i>For >50 To 100, Deduct</i>	-92.35	
			<i>For >100 To 250, Deduct</i>	-138.52	
			<i>For >250 To 500, Deduct</i>	-224.93	
			<i>For >500 To 1000, Deduct</i>	-311.34	
			<i>For >1000, Deduct</i>	-397.75	
26 56 19 00-0200	EA		110 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	1,871.96	131.26
			<i>For >50 To 100, Deduct</i>	-93.60	
			<i>For >100 To 250, Deduct</i>	-140.40	
			<i>For >250 To 500, Deduct</i>	-227.43	
			<i>For >500 To 1000, Deduct</i>	-314.47	
			<i>For >1000, Deduct</i>	-401.50	
26 56 19 00-0201			Surface Mount, LED Canopy Fixtures <small>(26 56 19 00-0165)</small>		
26 56 19 00-0202			Surface Mount, Rectangular, LED Canopy Fixtures (CREE® BetaLED® Edge® CAN-EDG) <small>(26 56 19 00-0201)</small>		
			Note: Direct or pendant mount. UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0203	EA		40 LEDs, 47 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,121.87	112.50
			<i>For Multi-Level Drive Currents, Add</i>	199.30	
			<i>For >50 To 100, Deduct</i>	-56.09	
			<i>For >100 To 250, Deduct</i>	-84.14	
			<i>For >250 To 500, Deduct</i>	-134.61	
			<i>For >500 To 1000, Deduct</i>	-185.08	
			<i>For >1000, Deduct</i>	-235.55	
26 56 19 00-0204	EA		60 LEDs, 68 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,343.64	118.75
			<i>For Multi-Level Drive Currents, Add</i>	199.30	
			<i>For >50 To 100, Deduct</i>	-67.18	
			<i>For >100 To 250, Deduct</i>	-100.77	
			<i>For >250 To 500, Deduct</i>	-162.02	
			<i>For >500 To 1000, Deduct</i>	-223.26	
			<i>For >1000, Deduct</i>	-284.51	
26 56 19 00-0205	EA		80 LEDs, 90 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,565.41	125.01
			<i>For Multi-Level Drive Currents, Add</i>	199.30	
			<i>For >50 To 100, Deduct</i>	-78.27	
			<i>For >100 To 250, Deduct</i>	-117.41	
			<i>For >250 To 500, Deduct</i>	-189.43	
			<i>For >500 To 1000, Deduct</i>	-261.45	
			<i>For >1000, Deduct</i>	-333.47	
26 56 19 00-0206	EA		100 LEDs, 111 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,787.17	131.26
			<i>For Multi-Level Drive Currents, Add</i>	199.30	
			<i>For >50 To 100, Deduct</i>	-89.36	
			<i>For >100 To 250, Deduct</i>	-134.04	
			<i>For >250 To 500, Deduct</i>	-216.83	
			<i>For >500 To 1000, Deduct</i>	-299.63	
			<i>For >1000, Deduct</i>	-382.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0207 EA 120 LEDs, 132 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,008.94	137.50
For Multi-Level Drive Currents, Add	199.30	
For >50 To 100, Deduct	-100.45	
For >100 To 250, Deduct	-150.67	
For >250 To 500, Deduct	-244.24	
For >500 To 1000, Deduct	-337.81	
For >1000, Deduct	-431.39	
26 56 19 00-0208 EA 140 LEDs, 157 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,314.70	143.75
For Multi-Level Drive Currents, Add	199.30	
For >50 To 100, Deduct	-115.74	
For >100 To 250, Deduct	-173.60	
For >250 To 500, Deduct	-282.15	
For >500 To 1000, Deduct	-390.70	
For >1000, Deduct	-499.24	
26 56 19 00-0209 EA 160 LEDs, 179 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,536.47	150.01
For Multi-Level Drive Currents, Add	199.30	
For >50 To 100, Deduct	-126.82	
For >100 To 250, Deduct	-190.24	
For >250 To 500, Deduct	-309.56	
For >500 To 1000, Deduct	-428.88	
For >1000, Deduct	-548.21	
26 56 19 00-0210 EA 200 LEDs, 221 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,980.01	162.51
For Multi-Level Drive Currents, Add	199.30	
For >50 To 100, Deduct	-149.00	
For >100 To 250, Deduct	-223.50	
For >250 To 500, Deduct	-364.38	
For >500 To 1000, Deduct	-505.25	
For >1000, Deduct	-646.13	
26 56 19 00-0211 EA 240 LEDs, 264 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	3,411.04	168.75
For Multi-Level Drive Currents, Add	199.30	
For >50 To 100, Deduct	-170.55	
For >100 To 250, Deduct	-255.83	
For >250 To 500, Deduct	-417.94	
For >500 To 1000, Deduct	-580.06	
For >1000, Deduct	-742.17	
26 56 19 00-0212 Surface Mount, Square, LED Canopy/Soffit Fixtures (CREE® BetaLED® CPY250) <small>(26 56 19 00-0201)</small>		
Note: UL wet listed. Includes 5,700K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0213 EA 8,000 Lumens, 82 Watt, Surface Mount, Square, LED Canopy/Soffit Fixture (CREE® BetaLED® CPY250).....	786.70	125.01
For >50 To 100, Deduct	-39.34	
For >100 To 250, Deduct	-59.00	
For >250 To 500, Deduct	-92.09	
For >500 To 1000, Deduct	-125.17	
For >1000, Deduct	-158.26	
26 56 19 00-0214 Recessed Mount, LED Soffit Fixtures <small>(26 56 19 00-0165)</small>		
26 56 19 00-0215 Recessed Mount, Square, LED Soffit Fixtures (CREE® BetaLED® SFT-304) <small>(26 56 19 00-0214)</small>		
Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0216 EA 40 LEDs, 47 Watt, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304).....	953.89	112.50
For >50 To 100, Deduct	-47.69	
For >100 To 250, Deduct	-71.54	
For >250 To 500, Deduct	-113.61	
For >500 To 1000, Deduct	-155.68	
For >1000, Deduct	-197.75	
26 56 19 00-0217 EA 60 LEDs, 68 Watt, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304).....	1,050.38	118.75
For >50 To 100, Deduct	-52.52	
For >100 To 250, Deduct	-78.78	
For >250 To 500, Deduct	-125.36	
For >500 To 1000, Deduct	-171.94	
For >1000, Deduct	-218.52	
26 56 19 00-0218 Surface Mount, LED Area Fixtures <small>(26 56 19 00-0165)</small>		
26 56 19 00-0219 Surface Mount, Square, LED Multi-Purpose Area Fixtures (LSI Industries® Crossover® XPG) <small>(26 56 19 00-0218)</small>		
Note: UL wet listed. Includes 5,300K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black or silver powder coat finish. Excludes sensors.		
26 56 19 00-0220 EA 50 LEDs, 59 Watt, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	620.58	112.50
For >50 To 100, Deduct	-31.03	
For >100 To 250, Deduct	-46.54	
For >250 To 500, Deduct	-71.95	
For >500 To 1000, Deduct	-97.35	
For >1000, Deduct	-122.75	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0221 EA 50 LEDs, 59 Watt, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	1,344.71	112.50
For >50 To 100, Deduct	-67.24	
For >100 To 250, Deduct	-100.85	
For >250 To 500, Deduct	-162.46	
For >500 To 1000, Deduct	-224.07	
For >1000, Deduct	-285.68	
26 56 19 00-0222 EA 68 LEDs, 79 Watt, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	1,116.42	125.01
For >50 To 100, Deduct	-55.82	
For >100 To 250, Deduct	-83.73	
For >250 To 500, Deduct	-133.30	
For >500 To 1000, Deduct	-182.87	
For >1000, Deduct	-232.44	
26 56 19 00-0223 EA 68 LEDs, 79 Watt, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	1,383.78	125.01
For >50 To 100, Deduct	-69.19	
For >100 To 250, Deduct	-103.78	
For >250 To 500, Deduct	-166.72	
For >500 To 1000, Deduct	-229.66	
For >1000, Deduct	-292.60	
26 56 19 00-0224 Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour®) <small>(26 56 19 00-0218)</small>		
Note: Wall, inverted, post, bollard, floodlight trunnion, or floodlight knuckle mount. UL wet listed. Includes 5,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0225 EA 13 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR1A).....	198.45	39.02
For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
For >50 To 100, Deduct	-9.92	
For >100 To 250, Deduct	-14.88	
For >250 To 500, Deduct	-23.18	
For >500 To 1000, Deduct	-31.48	
For >1000, Deduct	-39.77	
26 56 19 00-0226 EA 20 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR2A).....	226.75	39.02
For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
For >50 To 100, Deduct	-11.34	
For >100 To 250, Deduct	-17.01	
For >250 To 500, Deduct	-26.72	
For >500 To 1000, Deduct	-36.43	
For >1000, Deduct	-46.14	
26 56 19 00-0227 EA 30 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR3A).....	280.66	39.02
For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
For >50 To 100, Deduct	-14.03	
For >100 To 250, Deduct	-21.05	
For >250 To 500, Deduct	-33.46	
For >500 To 1000, Deduct	-45.86	
For >1000, Deduct	-58.27	
26 56 19 00-0228 Surface Mount, LED Facade Fixtures <small>(26 56 19 00-0165)</small>		
26 56 19 00-0229 Surface Mount, LED Facade Fixtures (lumenpulse™ lumenfacade™) <small>(26 56 19 00-0228)</small>		
26 56 19 00-0230 EA 12" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	700.31	45.54
For >50 To 100, Deduct	-35.02	
For >100 To 250, Deduct	-52.52	
For >250 To 500, Deduct	-85.81	
For >500 To 1000, Deduct	-119.09	
For >1000, Deduct	-152.37	
26 56 19 00-0231 EA 24" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,145.48	41.58
For >50 To 100, Deduct	-57.27	
For >100 To 250, Deduct	-85.91	
For >250 To 500, Deduct	-141.70	
For >500 To 1000, Deduct	-197.49	
For >1000, Deduct	-253.28	
26 56 19 00-0232 EA 36" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,465.05	34.65
For >50 To 100, Deduct	-73.25	
For >100 To 250, Deduct	-109.88	
For >250 To 500, Deduct	-181.89	
For >500 To 1000, Deduct	-253.91	
For >1000, Deduct	-325.92	
26 56 19 00-0233 EA 48" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,784.61	27.72
For >50 To 100, Deduct	-89.23	
For >100 To 250, Deduct	-133.85	
For >250 To 500, Deduct	-222.09	
For >500 To 1000, Deduct	-310.33	
For >1000, Deduct	-398.57	
26 56 19 00-0234 Post Top, LED Area Fixtures <small>(26 56 19 00-0165)</small>		
26 56 19 00-0235 Post Top, LED Area Fixtures (Cooper Lighting Invue® MSA) <small>(26 56 19 00-0234)</small>		
Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 350mA remote driver, die-cast extruded aluminum housing assembly and white, black, grey, dark platinum, graphite metallic or bronze powder coat finish. Excludes sensors.		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0236	EA		1,800 Lumens, 27 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO1).....	1,963.13	171.88
			<i>For >50 To 100, Deduct</i>	-98.16	
			<i>For >100 To 250, Deduct</i>	-147.23	
			<i>For >250 To 500, Deduct</i>	-236.80	
			<i>For >500 To 1000, Deduct</i>	-326.36	
			<i>For >1000, Deduct</i>	-415.92	
26 56 19 00-0237	EA		3,400 Lumens, 54 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO2).....	2,169.75	171.88
			<i>For >50 To 100, Deduct</i>	-108.49	
			<i>For >100 To 250, Deduct</i>	-162.73	
			<i>For >250 To 500, Deduct</i>	-262.62	
			<i>For >500 To 1000, Deduct</i>	-362.52	
			<i>For >1000, Deduct</i>	-462.41	
26 56 19 00-0238	EA		77 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO3)	2,333.08	171.88
			<i>For >50 To 100, Deduct</i>	-116.65	
			<i>For >100 To 250, Deduct</i>	-174.98	
			<i>For >250 To 500, Deduct</i>	-283.04	
			<i>For >500 To 1000, Deduct</i>	-391.10	
			<i>For >1000, Deduct</i>	-499.16	
26 56 19 00-0239			Post Top, LED Area Fixtures (General Electric EPAS) <small>(26 56 19 00-0234)</small>		
			Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, green or bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0240	EA		3,200 Lumens, 45 Watt, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 E5/E3)	2,319.79	171.88
			<i>For >50 To 100, Deduct</i>	-115.99	
			<i>For >100 To 250, Deduct</i>	-173.98	
			<i>For >250 To 500, Deduct</i>	-281.38	
			<i>For >500 To 1000, Deduct</i>	-388.77	
			<i>For >1000, Deduct</i>	-496.17	
26 56 19 00-0241	EA		6,515 Lumens, 80 Watt, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 C5/C3).....	2,372.94	171.88
			<i>For >50 To 100, Deduct</i>	-118.65	
			<i>For >100 To 250, Deduct</i>	-177.97	
			<i>For >250 To 500, Deduct</i>	-288.02	
			<i>For >500 To 1000, Deduct</i>	-398.08	
			<i>For >1000, Deduct</i>	-508.13	
26 56 19 00-0242			Post Top, LED Area Fixtures (General Electric EPTC) <small>(26 56 19 00-0234)</small>		
			Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, gray or dark bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0243	EA		3,200 Lumens, 45 Watt, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 E5/E3)	1,600.19	171.88
			<i>For >50 To 100, Deduct</i>	-80.01	
			<i>For >100 To 250, Deduct</i>	-120.01	
			<i>For >250 To 500, Deduct</i>	-191.43	
			<i>For >500 To 1000, Deduct</i>	-262.84	
			<i>For >1000, Deduct</i>	-334.26	
26 56 19 00-0244	EA		6,150 Lumens, 80 Watt, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 C5/C3).....	1,679.73	171.88
			<i>For >50 To 100, Deduct</i>	-83.99	
			<i>For >100 To 250, Deduct</i>	-125.98	
			<i>For >250 To 500, Deduct</i>	-201.37	
			<i>For >500 To 1000, Deduct</i>	-276.76	
			<i>For >1000, Deduct</i>	-352.16	
26 56 19 00-0245			Post Top, LED Area Fixtures (General Electric EPST) <small>(26 56 19 00-0234)</small>		
			Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or dark bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0246	EA		3,135 Lumens, 45 Watt, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 E5/E3)	1,238.63	171.88
			<i>For >50 To 100, Deduct</i>	-61.93	
			<i>For >100 To 250, Deduct</i>	-92.90	
			<i>For >250 To 500, Deduct</i>	-146.23	
			<i>For >500 To 1000, Deduct</i>	-199.57	
			<i>For >1000, Deduct</i>	-252.91	
26 56 19 00-0247	EA		6,115 Lumens, 80 Watt, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 C5/C3)	1,318.17	171.88
			<i>For >50 To 100, Deduct</i>	-65.91	
			<i>For >100 To 250, Deduct</i>	-98.86	
			<i>For >250 To 500, Deduct</i>	-156.18	
			<i>For >500 To 1000, Deduct</i>	-213.49	
			<i>For >1000, Deduct</i>	-270.81	
26 56 19 00-0248			Post Top, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDR) <small>(26 56 19 00-0234)</small>		
			Note: UL wet listed. Includes 4,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type V Medium optic. Excludes sensors.		
26 56 19 00-0249	EA		13,800 Lumens, 130 Watt, Post Top Mount, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDR)	2,513.32	171.88
			<i>For >50 To 100, Deduct</i>	-125.67	
			<i>For >100 To 250, Deduct</i>	-188.50	
			<i>For >250 To 500, Deduct</i>	-305.57	
			<i>For >500 To 1000, Deduct</i>	-422.64	
			<i>For >1000, Deduct</i>	-539.71	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0250 LED Retrofit For Post Top, Traditional Area Fixtures (CREE® BetaLED® BXRA) <small>(26 56 19 00-0234)</small> Note: Includes 2,700K or 4,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0370 for disposal of hazardous lamps.		
26 56 19 00-0251 EA LED Retrofit For Post Top, Holophane® Utility Granville Acorn Area Fixtures (CREE® BetaLED® BXRAAH53).....	707.59	93.75
For 0 To 10 Volt Dimming, Add	50.37	
For >50 To 100, Deduct	-35.38	
For >100 To 250, Deduct	-53.07	
For >250 To 500, Deduct	-83.76	
For >500 To 1000, Deduct	-114.45	
For >1000, Deduct	-145.14	
26 56 19 00-0252 LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT) <small>(26 56 19 00-0234)</small> Note: Includes 3,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0370 for disposal of hazardous lamps.		
26 56 19 00-0253 EA LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT)	439.65	20.00
For Backlight Control Shield, Add	33.97	
For >50 To 100, Deduct	-21.98	
For >100 To 250, Deduct	-32.97	
For >250 To 500, Deduct	-52.96	
For >500 To 1000, Deduct	-72.94	
For >1000, Deduct	-92.92	
26 56 19 00-0254 Surface Mount, LED Strip Fixtures (Sylvania) <small>(26 56 19 00-0165)</small>		
26 56 19 00-0255 EA 4' Long, 5,200 Lumens, 40 Watt, Vapor Tight Dimmable LED Fixture (Sylvania VAPOR1B/040UNVD840/48EC/GR/D)	483.82	36.23
For >50 To 100, Deduct	-24.19	
For >100 To 250, Deduct	-36.29	
For >250 To 500, Deduct	-59.12	
For >500 To 1000, Deduct	-81.95	
For >1000, Deduct	-104.78	
26 56 21 HID Exterior Lighting <small>(26 56)</small>		
26 56 21 00-0001 High Mast Fixtures <small>(26 56 21)</small>		
26 56 21 00-0002 Metal Halide, High Mast Fixtures <small>(26 56 21 00-0001)</small>		
26 56 21 00-0003 EA 400 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	1,719.23	154.87
26 56 21 00-0004 EA 400 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	1,836.76	154.87
26 56 21 00-0005 EA 750 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	1,822.44	176.92
26 56 21 00-0006 EA 750 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	1,892.96	176.92
26 56 21 00-0007 EA 1,000 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	1,916.67	221.16
26 56 21 00-0008 EA 1,000 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	1,987.19	221.16
26 56 21 00-0009 High Pressure Sodium, High Mast Fixtures <small>(26 56 21 00-0001)</small>		
26 56 21 00-0010 EA 400 W High Mast HPS Fixture (VA 25 Type V) As Manufactured By Metrolux	1,774.99	154.87
26 56 21 00-0011 EA 400 W High Mast HPS Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	1,845.51	154.87
26 56 21 00-0012 EA 600 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,149.51	163.71
26 56 21 00-0013 EA 750 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,202.46	176.92
26 56 21 00-0014 EA 1,000 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,331.95	221.16
26 56 21 00-0015 HID, Pole Mounted <small>(26 56 21)</small>		
26 56 21 00-0016 Metal Halide, Pole Mounted <small>(26 56 21 00-0015)</small>		
26 56 21 00-0017 EA 175 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	611.84	252.53
26 56 21 00-0018 EA 250 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	686.40	274.11
26 56 21 00-0019 EA 400 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	796.96	294.87
26 56 21 00-0020 EA 1,000 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	1,017.74	345.59
26 56 21 00-0021 High Pressure Sodium, Pole Mounted <small>(26 56 21 00-0015)</small>		
26 56 21 00-0022 EA 100 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	742.78	294.87
26 56 21 00-0023 EA 150 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	764.64	294.87
26 56 21 00-0024 EA 175 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	799.84	294.87
26 56 21 00-0025 EA 250 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	892.54	294.87
26 56 21 00-0026 EA 400 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	1,030.10	294.87
26 56 21 00-0027 EA 1,000 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	984.99	294.87
26 56 21 00-0028 Low Pressure Sodium, Pole Mounted <small>(26 56 21 00-0015)</small>		
26 56 21 00-0029 EA 135 Watt Low Pressure Sodium Exterior Roadway Fixture, Enclosed And Gasketed	629.83	160.41
26 56 21 00-0030 EA 135 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	695.65	235.90
26 56 21 00-0031 EA 180 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	814.71	235.90
26 56 21 00-0032 Metal Halide, Area Fixtures <small>(26 56 21)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0033 Metal Halide, Pole Mount, Area Fixtures <small>(26 56 21 00-0032)</small>		
Note: Includes pulse start ballast.		
26 56 21 00-0034 EA 150 Watt, Metal Halide Area Fixture, Pole Mount	1,064.73	157.85
26 56 21 00-0035 EA 175 Watt, Metal Halide Area Fixture, Pole Mount	1,168.40	173.64
26 56 21 00-0036 EA 250 Watt, Metal Halide Area Fixture, Pole Mount	1,292.42	189.42
26 56 21 00-0037 EA 400 Watt, Metal Halide Area Fixture, Pole Mount	1,364.71	220.99
26 56 21 00-0038 High Pressure Sodium, Area Fixtures <small>(26 56 21)</small>		
26 56 21 00-0039 Pole Mount, High Pressure Sodium Area Fixtures <small>(26 56 21 00-0038)</small>		
26 56 21 00-0040 EA 100 Watt, High Pressure Sodium Area Fixture, Pole Mount	885.07	126.28
26 56 21 00-0041 EA 150 Watt, High Pressure Sodium Area Fixture, Pole Mount	961.11	157.85
26 56 21 00-0042 EA 250 Watt, High Pressure Sodium Area Fixture, Pole Mount	1,040.59	189.42
26 56 21 00-0043 EA 400 Watt, High Pressure Sodium Area Fixture, Pole Mount	1,094.85	220.99
26 56 21 00-0044 Surface Mounted, Rectangular Exterior Area Fixture <small>(26 56 21)</small>		
26 56 21 00-0045 Metal Halide, Surface Mounted, Rectangular Exterior Area Fixture <small>(26 56 21 00-0044)</small>		
26 56 21 00-0046 EA 175 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	577.97	235.90
26 56 21 00-0047 EA 250 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	655.02	265.38
26 56 21 00-0048 EA 400 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	779.72	294.87
26 56 21 00-0049 EA 1,000 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	1,001.72	345.59
26 56 21 00-0050 High Pressure Sodium, Surface Mounted, Rectangular Exterior Area Fixture <small>(26 56 21 00-0044)</small>		
26 56 21 00-0051 EA 70 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	550.21	201.70
26 56 21 00-0052 EA 100 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	596.61	214.67
26 56 21 00-0053 EA 150 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	641.72	226.46
26 56 21 00-0054 EA 175 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	663.43	235.90
26 56 21 00-0055 EA 250 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	734.90	265.38
26 56 21 00-0056 EA 400 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	792.21	294.87
26 56 21 00-0057 EA 1,000 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	1,099.29	345.59
26 56 21 00-0058 Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures <small>(26 56</small>		
26 56 21 00-0059 High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures <small>(26 56 21 00-0058)</small>		
Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 21 00-0060 EA 35 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	555.45	159.23
26 56 21 00-0061 EA 50 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	581.80	176.92
26 56 21 00-0062 EA 70 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	628.41	201.70
26 56 21 00-0063 EA 100 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	649.21	214.67
26 56 21 00-0064 EA 150 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	669.94	226.46
26 56 21 00-0065 EA 175 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	700.86	235.90
26 56 21 00-0066 EA 250 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	765.54	265.38
26 56 21 00-0067 EA 400 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	909.43	294.87
26 56 21 00-0068 Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures <small>(26 56 21 00-0058)</small>		
Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 21 00-0069 EA 50 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	614.65	176.92
26 56 21 00-0070 EA 70 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	655.63	201.70
26 56 21 00-0071 EA 100 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	682.49	214.67
26 56 21 00-0072 EA 150 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	712.31	226.46
26 56 21 00-0073 EA 175 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	727.60	235.90
26 56 21 00-0074 EA 250 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	793.21	265.38
26 56 21 00-0075 EA 400 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	985.50	294.87
26 56 21 00-0076 Wall Packs <small>(26 56 21)</small>		
26 56 21 00-0077 Non Cutoff, Polycarbonate Lens, Mini Wall Packs <small>(26 56 21 00-0076)</small>		
Note: Polycarbonate body and aluminum reflector. 11" x 6-1/2" x 5-1/4". Lithonia TWS.		
26 56 21 00-0078 EA 13 Watt Compact Fluorescent, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	332.54	54.18
26 56 21 00-0079 EA 50 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	357.51	54.18
26 56 21 00-0080 EA 35 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	357.51	54.18
26 56 21 00-0081 EA 70 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	478.58	54.18
26 56 21 00-0082 Semi Cutoff, Polycarbonate Lens, Mini Wall Packs <small>(26 56 21 00-0076)</small>		
Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWA.		
26 56 21 00-0083 EA 42 Watt Compact Fluorescent, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	674.01	54.18



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0084 EA 50 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	682.99	54.18
26 56 21 00-0085 EA 70 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	690.76	54.18
26 56 21 00-0086 EA 100 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	676.59	54.18
26 56 21 00-0087 EA 70 Watt High Pressure Sodium, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	618.33	54.18
26 56 21 00-0088 EA 100 Watt High Pressure Sodium, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	586.32	54.18
26 56 21 00-0089 Cutoff, Polycarbonate Lens, Mini Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWAC.</small>		
26 56 21 00-0090 EA 50 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	710.87	54.18
26 56 21 00-0091 EA 70 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	719.06	54.18
26 56 21 00-0092 EA 100 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	704.91	54.18
26 56 21 00-0093 EA 70 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	716.30	54.18
26 56 21 00-0094 EA 100 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	716.30	54.18
26 56 21 00-0095 Non Cutoff, Borosilicate Glass Lens, Small Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. 9" x 13" x 7-3/8". Lithonia TWR1.</small>		
26 56 21 00-0096 EA 70 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	670.92	72.18
26 56 21 00-0097 EA 100 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	670.92	72.18
26 56 21 00-0098 EA 175 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	627.07	72.18
26 56 21 00-0099 EA 70 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	643.88	72.18
26 56 21 00-0100 EA 100 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	643.88	72.18
26 56 21 00-0101 EA 150 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	595.25	72.18
26 56 21 00-0102 Cutoff, Borosilicate Glass Lens, Small Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. 10-1/4" x 13" x 8-15/32". Lithonia TWR1C.</small>		
26 56 21 00-0103 EA 70 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	696.90	72.18
26 56 21 00-0104 EA 100 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	696.90	72.18
26 56 21 00-0105 EA 175 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	696.90	72.18
26 56 21 00-0106 EA 70 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	671.11	72.18
26 56 21 00-0107 EA 100 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	671.11	72.18
26 56 21 00-0108 EA 150 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	671.11	72.18
26 56 21 00-0109 Full Cutoff, Tempered Glass Lens, Small Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. 9-3/8" x 14-3/8" x 8-3/4". Meets Nighttime Friendly criteria. Lithonia TWR1S.</small>		
26 56 21 00-0110 EA 175 Watt Metal Halide, Full Cutoff, Tempered Glass Lens, Small Wall Pack.....	906.79	72.18
26 56 21 00-0111 Cutoff, Borosilicate Glass Lens, Medium Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. Lithonia TWR2.</small>		
26 56 21 00-0112 EA 250 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack.....	845.76	89.41
<small>Note: 9-1/4" x 17-7/8" x 9-3/8".</small>		
26 56 21 00-0113 EA 400 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack.....	905.21	89.41
<small>Note: 9-1/4" x 17-7/8" x 12-1/2".</small>		
26 56 21 00-0114 EA 250 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack.....	976.09	89.41
<small>Note: 9-1/4" x 17-7/8" x 9-3/8".</small>		
26 56 21 00-0115 EA 400 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack.....	995.59	89.41
<small>Note: 9-1/4" x 17-7/8" x 12-1/2".</small>		
26 56 21 00-0116 Cutoff, Tempered Glass Lens, Medium Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. 10" x 17-1/8" x 14-1/2". Lithonia TWR2C.</small>		
26 56 21 00-0117 EA 250 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack.....	922.23	89.41
26 56 21 00-0118 EA 400 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack.....	989.02	89.41
26 56 21 00-0119 Non Cutoff, Polycarbonate Lens, Large Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Polycarbonate body and powder coated reflector. 15-7/16" x 16-1/8" x 7-3/4". Lithonia TWP.</small>		
26 56 21 00-0120 EA 100 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Large Wall Pack.....	843.88	108.38
26 56 21 00-0121 EA 175 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Large Wall Pack.....	773.14	108.38
26 56 21 00-0122 EA 70 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack.....	827.51	108.38
26 56 21 00-0123 EA 100 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack.....	832.92	108.38
26 56 21 00-0124 EA 150 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack.....	838.60	108.38
26 56 21 00-0125 Non Cutoff, Borosilicate Glass Lens, Large Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. 15-3/4" x 16-1/4" x 8". Lithonia TWH.</small>		
26 56 21 00-0126 EA 175 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack.....	843.90	108.38
26 56 21 00-0127 EA 250 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack.....	867.51	108.38
26 56 21 00-0128 EA 400 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack.....	938.25	108.38
26 56 21 00-0129 EA 150 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack.....	891.09	108.38
26 56 21 00-0130 EA 250 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack.....	914.70	108.38
26 56 21 00-0131 EA 400 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack.....	961.82	108.38
26 56 21 00-0132 Semi Cutoff, Induction Wall Packs <small>(26 56 21 00-0076)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0133 Semi Cutoff, Induction Wall Packs (Everlast®) <small>(26 56 21 00-0132)</small>		
Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 21 00-0134 EA 70 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-70)	1,116.91	106.25
26 56 21 00-0135 EA 80 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-80)	1,139.48	112.50
26 56 21 00-0136 EA 100 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-100)	1,162.06	118.75
26 56 21 00-0137 EA 120 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-120)	1,295.48	125.01
26 56 21 00-0138 Induction, Roadway Lighting <small>(26 56 21)</small>		
26 56 21 00-0139 Induction Roadway Lighting (US Lighting Tech) <small>(26 56 21 00-0138)</small>		
Note: Includes gray powder coat finish heavy duty die cast aluminum body and flat glass lens.		
26 56 21 00-0140 EA 40 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	621.22	187.51
26 56 21 00-0141 EA 70 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	681.98	193.76
26 56 21 00-0142 EA 100 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	706.98	206.26
26 56 21 00-0143 EA 150 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	731.98	218.76
26 56 21 00-0144 EA 200 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	855.52	225.01
26 56 21 00-0145 EA 250 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	871.88	231.26
26 56 21 00-0146 EA 40 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	580.67	187.51
26 56 21 00-0147 EA 70 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	647.22	193.76
26 56 21 00-0148 EA 100 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	672.22	206.26
26 56 21 00-0149 EA 150 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	697.22	218.76
26 56 21 00-0150 Induction, Area Fixtures <small>(26 56 21)</small>		
26 56 21 00-0151 Post Top, Induction Area Fixtures <small>(26 56 21 00-0150)</small>		
26 56 21 00-0152 Post Top, Induction Area Fixtures (US Lighting Tech) <small>(26 56 21 00-0151)</small>		
Note: Includes black powder coat finish heavy duty die cast aluminum body and no-lite lid acrylic lens.		
26 56 21 00-0153 EA 40 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	692.31	171.88
26 56 21 00-0154 EA 70 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	748.30	171.88
26 56 21 00-0155 EA 100 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	748.30	171.88
26 56 21 00-0156 EA 150 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	748.30	171.88
26 56 21 00-0157 Surface Mount, Induction Parking Structure Fixtures <small>(26 56 21 00-0150)</small>		
26 56 21 00-0158 Surface Mount, Induction Parking Structure Fixtures (Everlast®) <small>(26 56 21 00-0157)</small>		
26 56 21 00-0159 EA 40 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	627.97	156.26
26 56 21 00-0160 EA 55 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	667.03	159.38
26 56 21 00-0161 EA 70 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	677.15	162.51
26 56 21 00-0162 EA 80 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	687.26	165.63
26 56 21 00-0163 EA 100 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	697.37	168.75
26 56 21 00-0164 EA 120 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	711.35	171.88
26 56 21 00-0165 EA 70/28 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	733.14	162.51
26 56 21 00-0166 EA 80/32 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	743.26	165.63
26 56 21 00-0167 EA 100/40 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	753.37	168.75
26 56 21 00-0168 EA 120/48 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	783.76	171.88
26 56 21 00-0169 Pole Mount, Induction Area Fixtures <small>(26 56 21 00-0150)</small>		
26 56 21 00-0170 Pole Mount, Bi-Level Induction Area Fixtures (Everlast® ESB-ED) <small>(26 56 21 00-0169)</small>		
Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 21 00-0171 EA 70 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-70)	1,167.29	106.25
26 56 21 00-0172 EA 80 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-80)	1,199.95	112.50
26 56 21 00-0173 EA 100 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-100)	1,232.60	118.75

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About the CTC:

- ☑ This Construction Task Catalog® (CTC) was developed and customized by The Gordian Group, Inc. specifically for **Monterey County**, priced locally using current labor, material and equipment costs, and published in October 2022.
- ☑ The Gordian Group, Inc. licenses the use of this CTC and other proprietary information and software for the sole purpose of providing Job Order Contracting services to **Monterey County**. Use of this CTC and other proprietary information and software for any other purpose, or for any other entity, is expressly prohibited without the express written consent of The Gordian Group, Inc.

MasterFormat™

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



The Unit Prices Include:

LABOR COSTS:

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

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EQUIPMENT COSTS:

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

MATERIAL COSTS:

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

The Adjustment Factors Include:

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

BUSINESS COSTS:

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

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

PROJECT RELATED COSTS:

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

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

PRICE VARIATIONS:

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

SUMMARY:

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

Unit Price X Quantity X Adjustment Factor

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

General Rules:

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

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

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

DEMOLITION:

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

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

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

WORKING HEIGHT:

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

FIELD ENGINEERING:

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

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

ASSEMBLIES:

- Assembly Tasks take precedence over individual component Tasks.

RESTRICTED AND CONFINED SPACES:

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

Or Equals:

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

Useful Information:

UNIT OF MEASURE DEFINITIONS:

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

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

MATERIAL WEIGHTS:

EARTHEN MATERIAL

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

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

BULK FACTORS FOR DEMOLITION:

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

CONVERSIONS:

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

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

STANDARD GEOMETRY:

Circle

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

Cylinder

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

Sphere

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

$\pi = 3.14159$

United Inch

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

TRADEMARKS

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



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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27 Communications

Note: Termination costs are included with all communication equipment, panel boards, and devices. Terminations are not included with patch panels.

27 05 Common Work Results for Communications ⁽²⁷⁾

27 05 26 Grounding and Bonding for Communications Systems ^(27 05)

See CSI section 26 05 26 00-0000 for grounding.

27 05 26 00-0001	EA	25 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 720-00).....	960.19	110.96
		Note: Excludes terminations.		
27 05 26 00-0002	EA	50 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 820-00).....	1,225.41	147.99
		Note: Excludes terminations.		
27 05 26 00-0003	EA	100 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 630-00).....	1,943.53	221.92
		Note: Excludes terminations.		
27 05 26 00-0004	EA	Lucent 3B1-EW, Gas Tube Protector Unit.....	11.60	1.63
27 05 26 00-0005	EA	44 Terminal Copper Ground Bus Bar (Siemens ECGK).....	73.54	29.32
27 05 26 00-0006	EA	2" x 1/4" x 12", TGB Pattern, Grounding Bus Bar.....	183.59	29.32
27 05 26 00-0007	EA	4" x 1/4" x 12", TMGB Pattern, Grounding Bus Bar.....	351.78	29.32
27 05 26 00-0008	EA	#6 AWG, Cable Runway Ground Strap.....	69.82	5.43
27 05 26 00-0009	EA	1/4" Screw Size, #6 AWG Compression Lug.....	23.96	5.43
27 05 26 00-0010	EA	3/8" Screw Size, #6 AWG Compression Lug.....	25.58	5.43
27 05 26 00-0011	EA	Two Mounting Hole, Ground Terminal Block.....	28.57	5.43

27 05 29 Hangers and Supports for Communications Systems ^(27 05)

See CSI section 26 05 29 00-0000 for hangers and supports.

27 05 29 00-0001 Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29)

27 05 29 00-0002 Screw On Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29 00-0001)

Note: Includes screw.

27 05 29 00-0003	EA	3/4" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12).....	8.69	2.71
		<i>For >50 To 100, Deduct</i>	-0.35	
		<i>For >100 To 250, Deduct</i>	-0.71	
		<i>For >250 To 500, Deduct</i>	-1.33	
		<i>For >500, Deduct</i>	-1.96	
		<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.46	
		<i>For Work In Restricted Working Space, Add</i>	1.63	
		<i>For Painted Powder Coated Finish, Add</i>	0.66	
27 05 29 00-0004	EA	1-5/16" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21).....	9.20	2.71
		<i>For >50 To 100, Deduct</i>	-0.37	
		<i>For >100 To 250, Deduct</i>	-0.73	
		<i>For >250 To 500, Deduct</i>	-1.37	
		<i>For >500, Deduct</i>	-2.01	
		<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.46	
		<i>For Work In Restricted Working Space, Add</i>	1.63	
		<i>For Painted Powder Coated Finish, Add</i>	2.32	
		<i>For Low Friction Xylan® Coated Finish, Add</i>	8.27	
27 05 29 00-0005	EA	2" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32).....	9.98	2.71
		<i>For >50 To 100, Deduct</i>	-0.39	
		<i>For >100 To 250, Deduct</i>	-0.77	
		<i>For >250 To 500, Deduct</i>	-1.43	
		<i>For >500, Deduct</i>	-2.08	
		<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.46	
		<i>For Work In Restricted Working Space, Add</i>	1.63	
		<i>For Painted Powder Coated Finish, Add</i>	2.85	
		<i>For Low Friction Xylan® Coated Finish, Add</i>	10.28	
27 05 29 00-0006	EA	4" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64).....	16.75	2.71
		<i>For >50 To 100, Deduct</i>	-0.55	
		<i>For >100 To 250, Deduct</i>	-1.11	
		<i>For >250 To 500, Deduct</i>	-1.94	
		<i>For >500, Deduct</i>	-2.76	
		<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.46	
		<i>For Work In Restricted Working Space, Add</i>	1.63	
		<i>For Painted Powder Coated Finish, Add</i>	1.52	
		<i>For Low Friction Xylan® Coated Finish, Add</i>	9.11	

27 05 29 00-0007 Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29 00-0001)

Note: Includes screw.

27 Communications
27 05 Common Work Results for Communications
27 05 29 Hangers and Supports for Communications Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0008	EA		3/4" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-RB)	9.88	2.71
			<i>For >50 To 100, Deduct</i>	-0.38	
			<i>For >100 To 250, Deduct</i>	-0.77	
			<i>For >250 To 500, Deduct</i>	-1.42	
			<i>For >500, Deduct</i>	-2.07	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.46	
			<i>For Work In Restricted Working Space, Add</i>	1.63	
27 05 29 00-0009	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-RB)	12.92	2.71
			<i>For >50 To 100, Deduct</i>	-0.46	
			<i>For >100 To 250, Deduct</i>	-0.92	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500, Deduct</i>	-2.38	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.46	
			<i>For Work In Restricted Working Space, Add</i>	1.63	
27 05 29 00-0010	EA		2" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-RB)	14.41	2.71
			<i>For >50 To 100, Deduct</i>	-0.50	
			<i>For >100 To 250, Deduct</i>	-0.99	
			<i>For >250 To 500, Deduct</i>	-1.76	
			<i>For >500, Deduct</i>	-2.53	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.46	
			<i>For Work In Restricted Working Space, Add</i>	1.63	
27 05 29 00-0011	EA		4" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-RB)	19.71	2.71
			<i>For >50 To 100, Deduct</i>	-0.63	
			<i>For >100 To 250, Deduct</i>	-1.26	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-3.06	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.46	
			<i>For Work In Restricted Working Space, Add</i>	1.63	
27 05 29 00-0012			Strut Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) <small>(27 05 29 00-0001)</small>		
			Note: Excludes strut.		
27 05 29 00-0013	EA		3/4" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-SC4)	10.44	2.71
			<i>For >50 To 100, Deduct</i>	-0.40	
			<i>For >100 To 250, Deduct</i>	-0.79	
			<i>For >250 To 500, Deduct</i>	-1.46	
			<i>For >500, Deduct</i>	-2.13	
			<i>For Work In Restricted Working Space, Add</i>	1.63	
27 05 29 00-0014	EA		1-5/16" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-SC4)	12.47	2.71
			<i>For >50 To 100, Deduct</i>	-0.45	
			<i>For >100 To 250, Deduct</i>	-0.90	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500, Deduct</i>	-2.33	
			<i>For Work In Restricted Working Space, Add</i>	1.63	
27 05 29 00-0015	EA		2" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-SC4).....	13.53	2.71
			<i>For >50 To 100, Deduct</i>	-0.47	
			<i>For >100 To 250, Deduct</i>	-0.95	
			<i>For >250 To 500, Deduct</i>	-1.69	
			<i>For >500, Deduct</i>	-2.44	
			<i>For Work In Restricted Working Space, Add</i>	1.63	
27 05 29 00-0016	EA		4" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-SC4).....	18.54	2.71
			<i>For >50 To 100, Deduct</i>	-0.60	
			<i>For >100 To 250, Deduct</i>	-1.20	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500, Deduct</i>	-2.94	
			<i>For Work In Restricted Working Space, Add</i>	1.63	
27 05 29 00-0017			T-Bar Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) <small>(27 05 29 00-0001)</small>		
			Note: Excludes T-Bar.		
27 05 29 00-0018	EA		3/4" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-A28).....	12.67	2.71
			<i>For >50 To 100, Deduct</i>	-0.45	
			<i>For >100 To 250, Deduct</i>	-0.91	
			<i>For >250 To 500, Deduct</i>	-1.63	
			<i>For >500, Deduct</i>	-2.35	
			<i>For Work In Restricted Working Space, Add</i>	1.63	
27 05 29 00-0019	EA		1-5/16" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-A28).....	16.10	2.71
			<i>For >50 To 100, Deduct</i>	-0.54	
			<i>For >100 To 250, Deduct</i>	-1.08	
			<i>For >250 To 500, Deduct</i>	-1.89	
			<i>For >500, Deduct</i>	-2.70	
			<i>For Work In Restricted Working Space, Add</i>	1.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0020 EA 2" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-A28).....	17.00	2.71
<i>For >50 To 100, Deduct</i>	-0.56	
<i>For >100 To 250, Deduct</i>	-1.12	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.79	
<i>For Work In Restricted Working Space, Add</i>	1.63	
27 05 29 00-0021 Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001)		
Note: Excludes threaded rod. See CSI section 26 05 29 00-0372 for threaded rod.		
27 05 29 00-0022 EA 3/4" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-W6).....	10.17	2.71
<i>For >50 To 100, Deduct</i>	-0.39	
<i>For >100 To 250, Deduct</i>	-0.78	
<i>For >250 To 500, Deduct</i>	-1.44	
<i>For >500, Deduct</i>	-2.10	
<i>For Work In Restricted Working Space, Add</i>	1.63	
27 05 29 00-0023 EA 1-5/16" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-W6).....	10.64	2.71
<i>For >50 To 100, Deduct</i>	-0.40	
<i>For >100 To 250, Deduct</i>	-0.80	
<i>For >250 To 500, Deduct</i>	-1.48	
<i>For >500, Deduct</i>	-2.15	
<i>For Work In Restricted Working Space, Add</i>	1.63	
27 05 29 00-0024 EA 2" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-W6).....	13.02	2.71
<i>For >50 To 100, Deduct</i>	-0.46	
<i>For >100 To 250, Deduct</i>	-0.92	
<i>For >250 To 500, Deduct</i>	-1.66	
<i>For >500, Deduct</i>	-2.39	
<i>For Work In Restricted Working Space, Add</i>	1.63	
27 05 29 00-0025 Threaded Rod Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001)		
Note: Excludes threaded rod, nuts and washers. See CSI section 26 05 29 00-0372 for threaded rod, nuts and washers.		
27 05 29 00-0026 EA 1-5/16" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-AB).....	12.75	2.71
<i>For >50 To 100, Deduct</i>	-0.45	
<i>For >100 To 250, Deduct</i>	-0.91	
<i>For >250 To 500, Deduct</i>	-1.64	
<i>For >500, Deduct</i>	-2.36	
<i>For Work In Restricted Working Space, Add</i>	1.63	
27 05 29 00-0027 EA 2" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-AB).....	13.86	2.71
<i>For >50 To 100, Deduct</i>	-0.48	
<i>For >100 To 250, Deduct</i>	-0.96	
<i>For >250 To 500, Deduct</i>	-1.72	
<i>For >500, Deduct</i>	-2.47	
<i>For Work In Restricted Working Space, Add</i>	1.63	
27 05 29 00-0028 EA 4" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-AB).....	19.40	2.71
<i>For >50 To 100, Deduct</i>	-0.62	
<i>For >100 To 250, Deduct</i>	-1.24	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-3.03	
<i>For Work In Restricted Working Space, Add</i>	1.63	
27 05 29 00-0029 Beam Clamp Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001)		
27 05 29 00-0030 EA 3/4" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-C442A).....	12.59	2.71
<i>For >50 To 100, Deduct</i>	-0.45	
<i>For >100 To 250, Deduct</i>	-0.90	
<i>For >250 To 500, Deduct</i>	-1.62	
<i>For >500, Deduct</i>	-2.35	
<i>For Work In Restricted Working Space, Add</i>	1.63	
27 05 29 00-0031 EA 1-5/16" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-C442A).....	14.58	2.71
<i>For >50 To 100, Deduct</i>	-0.50	
<i>For >100 To 250, Deduct</i>	-1.00	
<i>For >250 To 500, Deduct</i>	-1.77	
<i>For >500, Deduct</i>	-2.54	
<i>For Work In Restricted Working Space, Add</i>	1.63	
27 05 29 00-0032 EA 2" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-C442A).....	15.63	2.71
<i>For >50 To 100, Deduct</i>	-0.53	
<i>For >100 To 250, Deduct</i>	-1.05	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.65	
<i>For Work In Restricted Working Space, Add</i>	1.63	

27 Communications**27 05 Common Work Results for Communications****27 05 29 Hangers and Supports for Communications Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0033	EA		4" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-C442A).....	21.41	2.71
			<i>For >50 To 100, Deduct</i>	-0.67	
			<i>For >100 To 250, Deduct</i>	-1.34	
			<i>For >250 To 500, Deduct</i>	-2.28	
			<i>For >500, Deduct</i>	-3.23	
			<i>For Work In Restricted Working Space, Add</i>	1.63	
27 05 29 00-0034			Adjustable Cable Supports (Caddy® CableCat CAT425) (27 05 29)		
27 05 29 00-0035	EA		Wall Mount, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	36.27	3.58
			<i>For >50 To 100, Deduct</i>	-1.18	
			<i>For >100 To 250, Deduct</i>	-2.36	
			<i>For >250 To 500, Deduct</i>	-4.08	
			<i>For >500, Deduct</i>	-5.80	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	2.81	
			<i>For Work In Restricted Working Space, Add</i>	3.25	
27 05 29 00-0036	EA		Threaded Rod Or Horizontal Surface Mount, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	37.02	3.58
			<i>For >50 To 100, Deduct</i>	-1.20	
			<i>For >100 To 250, Deduct</i>	-2.39	
			<i>For >250 To 500, Deduct</i>	-4.13	
			<i>For >500, Deduct</i>	-5.87	
			<i>For Work In Restricted Working Space, Add</i>	3.25	
27 05 29 00-0037	EA		Up To 1/4" Flange, Hammer On Flange Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	40.89	3.58
			<i>For >50 To 100, Deduct</i>	-1.29	
			<i>For >100 To 250, Deduct</i>	-2.59	
			<i>For >250 To 500, Deduct</i>	-4.42	
			<i>For >500, Deduct</i>	-6.26	
			<i>For Work In Restricted Working Space, Add</i>	3.25	
27 05 29 00-0038	EA		>1/4" To 3/4" Flange, Hammer On Flange Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	36.15	3.58
			<i>For >50 To 100, Deduct</i>	-1.17	
			<i>For >100 To 250, Deduct</i>	-2.35	
			<i>For >250 To 500, Deduct</i>	-4.07	
			<i>For >500, Deduct</i>	-5.78	
			<i>For Work In Restricted Working Space, Add</i>	3.25	
27 05 29 00-0039	EA		Up To 1/2" Flange, Beam Clamp, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	37.95	3.58
			<i>For >50 To 100, Deduct</i>	-1.22	
			<i>For >100 To 250, Deduct</i>	-2.44	
			<i>For >250 To 500, Deduct</i>	-4.20	
			<i>For >500, Deduct</i>	-5.96	
			<i>For Work In Restricted Working Space, Add</i>	3.25	
27 05 29 00-0040	EA		>1/2" To 5/8" Flange, Beam Clamp, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	39.72	3.58
			<i>For >50 To 100, Deduct</i>	-1.26	
			<i>For >100 To 250, Deduct</i>	-2.53	
			<i>For >250 To 500, Deduct</i>	-4.33	
			<i>For >500, Deduct</i>	-6.14	
			<i>For Work In Restricted Working Space, Add</i>	3.25	
27 05 29 00-0041	EA		Up To 1/4" Flange, Hammer On Purlin Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	37.34	3.58
			<i>For >50 To 100, Deduct</i>	-1.20	
			<i>For >100 To 250, Deduct</i>	-2.41	
			<i>For >250 To 500, Deduct</i>	-4.16	
			<i>For >500, Deduct</i>	-5.90	
			<i>For Work In Restricted Working Space, Add</i>	3.25	

27 05 33 Conduits and Backboxes for Communications Systems (27 05)

See CSI section 26 05 33 00-0000 for conduit and boxes.

27 05 39 Surface Raceways for Communications Systems (27 05)

See CSI section 26 05 33 00-0000 for surface raceways.

27 05 43 Underground Ducts and Raceways for Communications Systems (27 05)

See CSI section 26 05 43 00-0000 for underground ducts and raceways.

27 05 46 Utility Poles for Communications Systems (27 05)

See CSI section 26 05 46 00-0000 for utility poles.

27 05 53 Identification for Communications Systems (27 05)

See CSI section 26 05 53 00-0000 for identification.

27 10 Structured Cabling (27)

Note: Includes testing.

27 11 Communications Equipment Room Fittings (27 10)**27 11 16 Communications Cabinets, Racks, Frames, and Enclosures (27 11)****27 11 16 00-0001 3/4" Fire Retardant Plywood Backboards (27 11 16)**



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	27 11 16 00-0002	EA		4' x 4' x 3/4" Fire Retardant Plywood Backboard <i>For Two Coats Of Non-Conductive, Fire Retardant Paint, Add</i>	137.19 52.19	28.18
	27 11 16 00-0003	EA		4' x 8' x 3/4" Fire Retardant Plywood Backboard <i>For Two Coats Of Non-Conductive, Fire Retardant Paint, Add</i>	274.38 104.38	56.36
27 11 16 00-0004	Terminal Cabinets <small>(27 11 16)</small>					
	27 11 16 00-0005	EA		12" x 12" x 4" Phone Terminal Cabinet With Wood Backboard	351.19	81.28
	27 11 16 00-0006	EA		18" x 12" x 4" Phone Terminal Cabinet With Wood Backboard	448.29	89.41
	27 11 16 00-0007	EA		24" x 12" x 4" Phone Terminal Cabinet With Wood Backboard	515.80	102.95
	27 11 16 00-0008	EA		18" x 18" x 4" Phone Terminal Cabinet With Wood Backboard	535.62	105.66
	27 11 16 00-0009	EA		24" x 18" x 4" Phone Terminal Cabinet With Wood Backboard	662.33	108.38
	27 11 16 00-0010	EA		26" x 36" x 4" Phone Terminal Cabinet With Wood Backboard	824.28	121.92
	27 11 16 00-0011	EA		24" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	845.80	119.21
	27 11 16 00-0012	EA		30" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	1,081.12	169.82
	27 11 16 00-0013	EA		36" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	1,154.79	186.62
	27 11 16 00-0014	EA		42" x 24" x 6" Phone Terminal Cabinet With Wood Backboard	1,404.97	197.14
	27 11 16 00-0015	EA		30" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	1,160.51	162.56
	27 11 16 00-0016	EA		36" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	1,254.97	176.11
	27 11 16 00-0017	EA		48" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	1,562.42	225.75
	27 11 16 00-0018	EA		54" x 30" x 6" Phone Terminal Cabinet With Wood Backboard	1,872.25	282.21
	27 11 16 00-0019	EA		48" x 36" x 6" Phone Terminal Cabinet With Wood Backboard	2,137.38	279.06
	27 11 16 00-0020	EA		60" x 36" x 6" Phone Terminal Cabinet With Wood Backboard	2,448.41	339.54
27 11 16 00-0021	Equipment Racks And Cable Managers <small>(27 11 16)</small>					
27 11 16 00-0022	Equipment Racks <small>(27 11 16 00-0021)</small>					
	Note: Electronics Industries Association EIA-310-D compliant. Includes aluminum construction with clear grained aluminum or black epoxy-polyester hybrid powder coat finish.					
27 11 16 00-0023	Standard Equipment Racks <small>(27 11 16 00-0022)</small>					
27 11 16 00-0024	19" Width, Standard Equipment Racks <small>(27 11 16 00-0023)</small>					
	27 11 16 00-0025	EA		84" Height, 19" Width, 3" Depth, 45U, Standard Equipment Rack (Chatsworth 55053-X03)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	533.42 9.33	173.40
	27 11 16 00-0026	EA		96" Height, 19" Width, 3" Depth, 51U, Standard Equipment Rack (Chatsworth 55053-X15)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	736.74 18.41	184.24
	27 11 16 00-0027	EA		108" Height, 19" Width, 3" Depth, 58U, Standard Equipment Rack (Chatsworth 55053-X08)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	795.61 20.27	195.07
27 11 16 00-0028	Universal Equipment Racks <small>(27 11 16 00-0028)</small>					
27 11 16 00-0029	Universal Equipment Racks <small>(27 11 16 00-0028)</small>					
27 11 16 00-0030	19" Width, EIA Universal Equipment Racks <small>(27 11 16 00-0029)</small>					
	27 11 16 00-0031	EA		36" Height, 19" Width, 3" Depth, 17U, EIA Universal Equipment Rack (Chatsworth 46353-X31)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	689.37 19.30	151.73
	27 11 16 00-0032	EA		48" Height, 19" Width, 3" Depth, 24U, EIA Universal Equipment Rack (Chatsworth 46353-X20)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	752.60 22.19	154.43
	27 11 16 00-0033	EA		60" Height, 19" Width, 3" Depth, 31U, EIA Universal Equipment Rack (Chatsworth 46353-X19)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	751.81 21.88	157.14
	27 11 16 00-0034	EA		66" Height, 19" Width, 3" Depth, 34U, EIA Universal Equipment Rack (Chatsworth 46353-X00)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	771.03 22.57	159.86
	27 11 16 00-0035	EA		72" Height, 19" Width, 3" Depth, 38U, EIA Universal Equipment Rack (Chatsworth 46353-X01)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	790.05 23.25	162.56
	27 11 16 00-0036	EA		78" Height, 19" Width, 3" Depth, 41U, EIA Universal Equipment Rack (Chatsworth 46353-X02)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	810.63 24.00	165.27
	27 11 16 00-0037	EA		84" Height, 19" Width, 3" Depth, 45U, EIA Universal Equipment Rack (Chatsworth 46353-X03)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	692.36 17.82	167.98
	27 11 16 00-0038	EA		90" Height, 19" Width, 3" Depth, 48U, EIA Universal Equipment Rack (Chatsworth 46353-X05)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	850.63 25.46	170.69
	27 11 16 00-0039	EA		96" Height, 19" Width, 3" Depth, 51U, EIA Universal Equipment Rack (Chatsworth 46353-X15)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	880.54 26.69	173.40
	27 11 16 00-0040	EA		102" Height, 19" Width, 3" Depth, 55U, EIA Universal Equipment Rack (Chatsworth 46353-X17)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	906.68 27.72	176.11
	27 11 16 00-0041	EA		108" Height, 19" Width, 3" Depth, 58U, EIA Universal Equipment Rack (Chatsworth 46353-X08)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	913.13 27.78	178.82
27 11 16 00-0042	23" Width, Universal Equipment Racks <small>(27 11 16 00-0029)</small>					
	27 11 16 00-0043	EA		36" Height, 23" Width, 3" Depth, 17U, Universal Equipment Rack (Chatsworth 46383-X31)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	728.97 21.28	151.73
	27 11 16 00-0044	EA		48" Height, 23" Width, 3" Depth, 24U, Universal Equipment Rack (Chatsworth 46383-X20)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	754.07 22.26	154.43
	27 11 16 00-0045	EA		60" Height, 23" Width, 3" Depth, 31U, Universal Equipment Rack (Chatsworth 46383-X19)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	776.20 23.10	157.14
	27 11 16 00-0046	EA		66" Height, 23" Width, 3" Depth, 34U, Universal Equipment Rack (Chatsworth 46383-X00)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	817.41 24.89	159.86
	27 11 16 00-0047	EA		72" Height, 23" Width, 3" Depth, 38U, Universal Equipment Rack (Chatsworth 46383-X01)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	837.80 25.63	162.56
	27 11 16 00-0048	EA		78" Height, 23" Width, 3" Depth, 41U, Universal Equipment Rack (Chatsworth 46383-X02)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	859.96 26.47	165.27

27 Communications**27 10 Structured Cabling****27 11 Communications Equipment Room Fittings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0049	EA		84" Height, 23" Width, 3" Depth, 45U, Universal Equipment Rack (Chatsworth 46383-X03).....	742.26	167.98
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	20.32	
27 11 16 00-0050	EA		90" Height, 23" Width, 3" Depth, 48U, Universal Equipment Rack (Chatsworth 46383-X05).....	902.98	170.69
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	28.08	
27 11 16 00-0051	EA		96" Height, 23" Width, 3" Depth, 51U, Universal Equipment Rack (Chatsworth 46383-X15).....	935.37	173.40
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	29.43	
27 11 16 00-0052	EA		102" Height, 23" Width, 3" Depth, 55U, Universal Equipment Rack (Chatsworth 46383-X17).....	963.67	176.11
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	30.57	
27 11 16 00-0053	EA		108" Height, 23" Width, 3" Depth, 58U, Universal Equipment Rack (Chatsworth 46383-X08).....	970.22	178.82
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	30.63	
27 11 16 00-0054			35" Width, Universal Equipment Racks <small>(27 11 16 00-0029)</small>		
27 11 16 00-0055	EA		72" Height, 35" Width, 3" Depth, 38U, Universal Equipment Rack (Chatsworth 46363-X01).....	904.93	162.56
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	28.99	
27 11 16 00-0056	EA		84" Height, 35" Width, 3" Depth, 45U, Universal Equipment Rack (Chatsworth 46363-X03).....	952.77	167.98
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	30.84	
27 11 16 00-0057			UL Listed Universal Equipment Racks <small>(27 11 16 00-0028)</small>		
			Note: UL listed as a communications circuit accessory.		
27 11 16 00-0058			19" Width, UL Listed Universal Equipment Racks <small>(27 11 16 00-0057)</small>		
27 11 16 00-0059	EA		36" Height, 19" Width, 3" Depth, 17U, UL Listed Universal Equipment Rack (Chatsworth 48353-X31)	727.97	151.73
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	21.23	
27 11 16 00-0060	EA		48" Height, 19" Width, 3" Depth, 24U, UL Listed Universal Equipment Rack (Chatsworth 48353-X20)	786.38	154.43
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	23.88	
27 11 16 00-0061	EA		60" Height, 19" Width, 3" Depth, 31U, UL Listed Universal Equipment Rack (Chatsworth 48353-X19)	798.46	157.14
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	24.21	
27 11 16 00-0062	EA		66" Height, 19" Width, 3" Depth, 34U, UL Listed Universal Equipment Rack (Chatsworth 48353-X00)	816.20	159.86
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	24.83	
27 11 16 00-0063	EA		72" Height, 19" Width, 3" Depth, 38U, UL Listed Universal Equipment Rack (Chatsworth 48353-X01)	836.54	162.56
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	25.57	
27 11 16 00-0064	EA		78" Height, 19" Width, 3" Depth, 41U, UL Listed Universal Equipment Rack (Chatsworth 48353-X02)	858.64	165.27
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	26.41	
27 11 16 00-0065	EA		84" Height, 19" Width, 3" Depth, 45U, UL Listed Universal Equipment Rack (Chatsworth 48353-X03)	879.88	167.98
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	27.20	
27 11 16 00-0066	EA		90" Height, 19" Width, 3" Depth, 48U, UL Listed Universal Equipment Rack (Chatsworth 48353-X05)	901.58	170.69
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	28.01	
27 11 16 00-0067	EA		96" Height, 19" Width, 3" Depth, 51U, UL Listed Universal Equipment Rack (Chatsworth 48353-X15)	933.93	173.40
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	29.36	
27 11 16 00-0068	EA		102" Height, 19" Width, 3" Depth, 55U, UL Listed Universal Equipment Rack (Chatsworth 48353-X17)	962.16	176.11
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	30.50	
27 11 16 00-0069	EA		108" Height, 19" Width, 3" Depth, 58U, UL Listed Universal Equipment Rack (Chatsworth 48353-X08)	968.64	178.82
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	30.55	
27 11 16 00-0070			23" Width, UL Listed Universal Equipment Racks <small>(27 11 16 00-0057)</small>		
27 11 16 00-0071	EA		36" Height, 23" Width, 3" Depth, 17U, UL Listed Universal Equipment Rack (Chatsworth 48383-X31)	771.57	151.73
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	23.41	
27 11 16 00-0072	EA		48" Height, 23" Width, 3" Depth, 24U, UL Listed Universal Equipment Rack (Chatsworth 48383-X20)	845.51	154.43
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	26.83	
27 11 16 00-0073	EA		60" Height, 23" Width, 3" Depth, 31U, UL Listed Universal Equipment Rack (Chatsworth 48383-X19)	856.34	157.14
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	27.10	
27 11 16 00-0074	EA		66" Height, 23" Width, 3" Depth, 34U, UL Listed Universal Equipment Rack (Chatsworth 48383-X00)	867.18	159.86
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	27.37	
27 11 16 00-0075	EA		72" Height, 23" Width, 3" Depth, 38U, UL Listed Universal Equipment Rack (Chatsworth 48383-X01)	889.06	162.56
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	28.20	
27 11 16 00-0076	EA		78" Height, 23" Width, 3" Depth, 41U, UL Listed Universal Equipment Rack (Chatsworth 48383-X02)	912.91	165.27
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	29.12	
27 11 16 00-0077	EA		84" Height, 23" Width, 3" Depth, 45U, UL Listed Universal Equipment Rack (Chatsworth 48383-X03)	935.75	167.98
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	29.99	
27 11 16 00-0078	EA		90" Height, 23" Width, 3" Depth, 48U, UL Listed Universal Equipment Rack (Chatsworth 48383-X05)	959.12	170.69
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	30.89	
27 11 16 00-0079	EA		96" Height, 23" Width, 3" Depth, 51U, UL Listed Universal Equipment Rack (Chatsworth 48383-X15)	994.22	173.40
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	32.37	
27 11 16 00-0080	EA		102" Height, 23" Width, 3" Depth, 55U, UL Listed Universal Equipment Rack (Chatsworth 48383-X17)	1,024.82	176.11
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	33.63	
27 11 16 00-0081	EA		108" Height, 23" Width, 3" Depth, 58U, UL Listed Universal Equipment Rack (Chatsworth 48383-X08)	1,031.57	178.82
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	33.70	
27 11 16 00-0082			4-Post Equipment Racks And Server Frames <small>(27 11 16 00-0022)</small>		
27 11 16 00-0083			4-Post Equipment Racks <small>(27 11 16 00-0082)</small>		
27 11 16 00-0084	EA		19" Width, 29" Depth, 84" Height, 4-Post Equipment Rack (Chatsworth 50120-X03).....	1,469.31	270.94
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	46.37	
27 11 16 00-0085	EA		19" Width, 29" Depth, 96" Height, 4-Post Equipment Rack (Chatsworth 50120-X15).....	1,603.54	281.78
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	52.00	
27 11 16 00-0086	EA		19" Width, 29" Depth, 108" Height, 4-Post Equipment Rack (Chatsworth 50120-X08).....	1,730.19	292.61
			<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	57.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0087 4-Post Server Frame (27 11 16 00-0082)		
27 11 16 00-0088 EA 19" Width, 29" Depth, 84" Height, Server Frame (Chatsworth 15053-X03) <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,510.11 48.41	270.94
27 11 16 00-0089 Cable Managers (27 11 16 00-0021)		
27 11 16 00-0090 Horizontal Cable Managers (27 11 16 00-0089)		
27 11 16 00-0091 Single-Sided, Horizontal Cable Managers (27 11 16 00-0090)		
27 11 16 00-0092 EA 1U Height, 19" Width, 4.96" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30139-719)	84.79	10.84
27 11 16 00-0093 EA 1U Height, 23" Width, 4.96" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30139-723)	94.36	10.84
27 11 16 00-0094 EA 1U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-701)	70.87	10.84
27 11 16 00-0095 EA 2U Height, 19" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30130-719)	86.23	10.84
27 11 16 00-0096 EA 2U Height, 23" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30130-723)	101.05	10.84
27 11 16 00-0097 EA 2U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-702)	78.43	10.84
27 11 16 00-0098 EA 3U Height, 19" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30131-719)	116.09	10.84
27 11 16 00-0099 EA 3U Height, 23" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30131-723)	132.08	10.84
27 11 16 00-0100 EA 3U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-703)	93.57	10.84
27 11 16 00-0101 Double-Sided, Horizontal Cable Managers (27 11 16 00-0090)		
27 11 16 00-0102 EA 1U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30529-719)	105.19	10.84
27 11 16 00-0103 EA 1U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30529-723)	117.81	10.84
27 11 16 00-0104 EA 2U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30530-719)	110.66	10.84
27 11 16 00-0105 EA 2U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30530-723)	128.73	10.84
27 11 16 00-0106 EA 3U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30531-719)	143.06	10.84
27 11 16 00-0107 EA 3U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30531-723)	160.14	10.84
27 11 16 00-0108 Vertical Cable Managers (27 11 16 00-0089)		
27 11 16 00-0109 Single-Sided, Vertical Cable Managers (27 11 16 00-0108)		
27 11 16 00-0110 EA 3.6" Width, 9.7" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-701)	189.56	16.26
27 11 16 00-0111 EA 6" Width, 9.8" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-701)	267.14	16.26
27 11 16 00-0112 EA 10" Width, 10.3" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-701)	429.86	16.26
27 11 16 00-0113 EA 12" Width, 10.4" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-701)	486.63	16.26
27 11 16 00-0114 EA 3.6" Width, 9.7" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-703)	202.80	16.26
27 11 16 00-0115 EA 6" Width, 9.8" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-703)	287.95	16.26
27 11 16 00-0116 EA 10" Width, 10.3" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-703)	467.70	16.26
27 11 16 00-0117 EA 12" Width, 10.4" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-703)	524.47	16.26
27 11 16 00-0118 EA 3.6" Width, 9.7" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-715)	229.29	16.26
27 11 16 00-0119 EA 6" Width, 9.8" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-715)	316.33	16.26
27 11 16 00-0120 EA 10" Width, 10.3" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-715)	524.47	16.26
27 11 16 00-0121 EA 12" Width, 10.4" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-715)	581.23	16.26
27 11 16 00-0122 Double-Sided, Vertical Cable Managers (27 11 16 00-0108)		
27 11 16 00-0123 EA 3.6" Width, 16.4" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-701)	274.71	16.26
27 11 16 00-0124 EA 6" Width, 16.6" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-701)	323.90	16.26
27 11 16 00-0125 EA 10" Width, 17.5" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-701)	524.47	16.26
27 11 16 00-0126 EA 12" Width, 17.8" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-701)	619.08	16.26
27 11 16 00-0127 EA 3.6" Width, 16.4" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-703)	297.41	16.26
27 11 16 00-0128 EA 6" Width, 16.6" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-703)	346.61	16.26
27 11 16 00-0129 EA 10" Width, 17.5" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-703)	562.31	16.26
27 11 16 00-0130 EA 12" Width, 17.8" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-703)	656.92	16.26
27 11 16 00-0131 EA 3.6" Width, 16.4" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-715)	327.69	16.26
27 11 16 00-0132 EA 6" Width, 16.6" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-715)	376.88	16.26
27 11 16 00-0133 EA 10" Width, 17.5" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-715)	619.08	16.26
27 11 16 00-0134 EA 12" Width, 17.8" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-715)	713.68	16.26
27 11 16 00-0135 Accessories For Vertical Cable Managers (27 11 16 00-0108)		
27 11 16 00-0136 EA Cable Ring Kit For 3.6" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-716)	116.28	10.84
27 11 16 00-0137 EA Cable Ring Kit For 3.6" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-717)	123.85	10.84
27 11 16 00-0138 EA Cable Ring Kit For 3.6" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-718)	131.41	10.84
27 11 16 00-0139 EA Cable Ring Kit For 6" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-726)	120.06	10.84
27 11 16 00-0140 EA Cable Ring Kit For 6" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-727)	131.41	10.84
27 11 16 00-0141 EA Cable Ring Kit For 6" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-728)	142.77	10.84
27 11 16 00-0142 EA Cable Ring Kit For 10" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-746)	135.20	10.84
27 11 16 00-0143 EA Cable Ring Kit For 10" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-747)	146.55	10.84
27 11 16 00-0144 EA Cable Ring Kit For 10" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-748)	157.90	10.84
27 11 16 00-0145 EA Cable Ring Kit For 12" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-756)	142.77	10.84
27 11 16 00-0146 EA Cable Ring Kit For 12" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-757)	157.90	10.84
27 11 16 00-0147 EA Cable Ring Kit For 12" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-758)	169.26	10.84
27 11 16 00-0148 EA Cable Lashing Bar Kit For Vertical Cable Managers (Chatsworth 13928-001)	97.36	10.84
27 11 16 00-0149 EA Cable Spool Kit For Vertical Cable Managers (Chatsworth 13935-701)	112.49	10.84
27 11 16 00-0150 EA Cable Distribution Spools For Vertical Cable Managers (Chatsworth 15008-001)	117.60	10.84
27 11 16 00-0151 EA Cable Distribution Spool Spacer Kit For Vertical Cable Managers (Chatsworth 35505-001)	74.65	10.84



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 11 19 Communications Termination Blocks and Patch Panels ^(27 11)

Note: The terminating, testing, and labeling of the cables in question should be done according to the task description as well as the current contract specifications. See CSI section 26 05 53 00-0020 for labeling.

27 11 19 00-0001 Computer Network Components ^(27 11 19)

27 11 19 00-0002 Ethernet Patch Panels ^(27 11 19 00-0001)

27 11 19 00-0003	EA	12 Port, Category 5E Patch Panel	276.13	54.18
27 11 19 00-0004	EA	24 Port, Category 5E Patch Panel	419.26	54.18
27 11 19 00-0005	EA	32 Port, Category 5E Patch Panel	554.69	54.18
27 11 19 00-0006	EA	48 Port, Category 5E Patch Panel	680.89	54.18
27 11 19 00-0007	EA	64 Port, Category 5E Patch Panel	755.97	67.74
27 11 19 00-0008	EA	96 Port, Category 5E Patch Panel	1,264.48	81.28
27 11 19 00-0009	EA	12 Port, Category 6 Patch Panel.....	345.40	54.18
27 11 19 00-0010	EA	24 Port, Category 6 Patch Panel.....	428.49	54.18
27 11 19 00-0011	EA	48 Port, Category 6 Patch Panel.....	748.60	54.18
27 11 19 00-0012	EA	96 Port, Category 6 Patch Panel.....	1,393.76	81.28
27 11 19 00-0013	EA	16" x 12" x 8" Steel Enclosure, Type 12, Hinged, Lockable (Hoffman A161208LP)	711.59	81.28
27 11 19 00-0014	EA	16" x 16" x 6" Steel Enclosure, Type 12, Hinged, Lockable (Hoffman A161606LP)	747.21	81.28
27 11 19 00-0015	EA	12 Port, Category 6 Modular to 110 Mini Patch Panel (Ortronics-Legrand OR-PMP61289).....	289.96	54.18
27 11 19 00-0016	EA	Terminate One End Of A 4 Pair Cable To Category "X" Specifications	38.39	
		<i>For >5 To 10 Cables, Deduct</i>	-6.91	
		<i>For >10 Cables, Deduct</i>	-15.36	
27 11 19 00-0017	EA	Terminate One End Of A Twisted Pair Of Wires.....	10.56	
		Note: Per each pair		
		<i>For >20 To 40 Pairs, Deduct</i>	-1.69	
		<i>For >40 Pairs, Deduct</i>	-4.01	

27 11 19 00-0018 Fiber Optic Cable Patch Panels And Enclosures ^(27 11 19 00-0001)

27 11 19 00-0019 Fiber Optic Cable Connector Housings ^(27 11 19 00-0018)

27 11 19 00-0020 Wall Mount, Fiber Optic Cable Connector Housings ^(27 11 19 00-0019)

Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.

27 11 19 00-0021	EA	1-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	151.61	24.38
27 11 19 00-0022	EA	2-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	231.65	24.38
27 11 19 00-0023	EA	4-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	350.08	24.38
27 11 19 00-0024	EA	6-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	514.46	40.64
27 11 19 00-0025	EA	12-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	725.30	40.64

27 11 19 00-0026 Rack Mount, Fiber Optic Cable Connector Housings ^(27 11 19 00-0019)

Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.

27 11 19 00-0027	EA	2-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	536.07	40.64
27 11 19 00-0028	EA	4-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	616.46	40.64
27 11 19 00-0029	EA	6-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	665.63	40.64
27 11 19 00-0030	EA	12-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	784.44	40.64

27 11 19 00-0031 Rack Mount, Fiber Optic Cable Pretium® Connector Housings ^(27 11 19 00-0019)

Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.

27 11 19 00-0032	EA	2-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	673.85	40.64
		<i>For Splice Tray Bracket, Add</i>	74.36	
27 11 19 00-0033	EA	4-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	793.42	40.64
		<i>For Splice Tray Bracket, Add</i>	81.32	
27 11 19 00-0034	EA	12-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	994.94	40.64
		<i>For Splice Tray Bracket, Add</i>	296.27	

27 11 19 00-0035 Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housings ^(27 11 19 00-0019)

Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.

27 11 19 00-0036	EA	8 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing.....	861.44	40.64
27 11 19 00-0037	EA	12 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing.....	1,107.99	40.64
27 11 19 00-0038	EA	24 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing.....	1,257.45	40.64
27 11 19 00-0039	EA	48 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing.....	1,638.63	40.64

27 11 19 00-0040 Wall Mount, Fiber Optic Cable Industrial Connector Housings ^(27 11 19 00-0019)

Note: Includes powder-coat finish, pad lockable outer door and mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.

27 11 19 00-0041	EA	2-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing.....	776.02	24.38
27 11 19 00-0042	EA	6-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing.....	1,069.45	40.64
27 11 19 00-0043	EA	12-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing.....	1,123.44	40.64

27 11 19 00-0044 Wall Mount, Fiber Optic Cable Environmental Connector Housings ^(27 11 19 00-0019)

Note: Includes NEMA 4X enclosure, pad lockable outer door and mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 19 00-0045 EA 2-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing	813.33	24.38
27 11 19 00-0046 EA 6-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing	1,068.80	40.64
27 11 19 00-0047 EA 12-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing	1,259.79	40.64
27 11 19 00-0048 Fiber Optic Cable Connector Panels (27 11 19 00-0018)		
27 11 19 00-0049 SC Simplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)		
27 11 19 00-0050 EA 6-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel	105.62	5.42
27 11 19 00-0051 EA 6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel	114.89	5.42
27 11 19 00-0052 EA 8-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel	129.27	5.42
27 11 19 00-0053 EA 8-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel	141.62	5.42
27 11 19 00-0054 EA 12-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel	176.60	5.42
27 11 19 00-0055 EA 12-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel	195.08	5.42
27 11 19 00-0056 SC Duplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)		
27 11 19 00-0057 EA 6-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel	101.52	5.42
27 11 19 00-0058 EA 6-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel	103.70	5.42
27 11 19 00-0059 EA 8-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel	123.84	5.42
27 11 19 00-0060 EA 8-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel	126.73	5.42
27 11 19 00-0061 EA 12-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel	168.45	5.42
27 11 19 00-0062 EA 12-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel	172.76	5.42
27 11 19 00-0063 LC Duplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)		
27 11 19 00-0064 EA 6-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel	109.88	5.42
27 11 19 00-0065 EA 6-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	120.80	5.42
27 11 19 00-0066 EA 8-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel	134.94	5.42
27 11 19 00-0067 EA 8-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	149.51	5.42
27 11 19 00-0068 EA 12-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel	185.13	5.42
27 11 19 00-0069 EA 12-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	206.94	5.42
27 11 19 00-0070 EA 16-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel	235.30	5.42
27 11 19 00-0071 EA 16-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	264.37	5.42
27 11 19 00-0072 EA 24-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel	335.61	5.42
27 11 19 00-0073 EA 24-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	345.74	5.42
27 11 19 00-0074 ST Simplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)		
27 11 19 00-0075 EA 6-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel	87.27	5.42
27 11 19 00-0076 EA 6-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel	94.28	5.42
27 11 19 00-0077 EA 8-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel	104.82	5.42
27 11 19 00-0078 EA 8-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel	114.17	5.42
27 11 19 00-0079 EA 12-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel	139.89	5.42
27 11 19 00-0080 EA 12-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel	153.93	5.42
27 11 19 00-0081 MT-RJ, Fiber Optic Cable Connector Panels (27 11 19 00-0048)		
27 11 19 00-0082 EA 12-Fiber, Multimode, MT-RJ, Fiber Optic Cable Connector Panel	109.23	5.42
27 11 19 00-0083 EA 12-Fiber, Singlemode, MT-RJ, Fiber Optic Cable Connector Panel	164.97	5.42
27 11 19 00-0084 Fiber Optic Cable Pretium Edge® Modules (27 11 19 00-0048)		
27 11 19 00-0085 EA 12-Fiber, Singlemode, LC Duplex To MTP, Fiber Optic Cable Pretium Edge® Module	963.96	5.42
27 11 19 00-0086 EA 12-Fiber, Multimode, LC Duplex To MTP, Fiber Optic Cable Pretium Edge® Module	967.32	5.42
27 11 19 00-0087 Fiber Optic Cable Splice Housings (27 11 19 00-0018)		
27 11 19 00-0088 Wall Mount, Fiber Optic Cable Splice Housings (27 11 19 00-0087)		
Note: Includes mounting hardware. Excludes splice trays.		
27 11 19 00-0089 EA 12 Splice Tray Capacity, Wall Mount, Fiber Optic Splice Housing With Locking Door	356.67	54.18
27 11 19 00-0090 Rack Mount, Fiber Optic Cable Splice Housings (27 11 19 00-0087)		
Note: Includes mounting hardware. Excludes splice trays.		
27 11 19 00-0091 EA 12 Splice Tray Capacity, Rack Mount, Fiber Optic Cable Splice Housing	556.94	40.64
27 11 19 00-0092 EA 22 Splice Tray Capacity, Rack Mount, Fiber Optic Cable Splice Housing	565.63	40.64
27 11 19 00-0093 Fiber Optic Cable Splice Trays (27 11 19 00-0087)		
27 11 19 00-0094 EA Fiber Optic Cable Splice Tray	103.08	13.54
27 11 19 00-0095 Fiber Optic Cable Jumper Management Panels (27 11 19 00-0018)		
Note: Includes mounting hardware.		
27 11 19 00-0096 EA Rack Mount, Fiber Optic Cable Jumper Management Panel	192.29	40.64
27 11 19 00-0097 Miscellaneous Accessories (27 11 19 00-0001)		

27	Communications
27 10	Structured Cabling
27 11	Communications Equipment Room Fittings



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 11 19 00-0098	EA	Wall Mount Bracket For 12 Or 24 Port Patch Panel.....	72.13	
27 11 19 00-0099	EA	Wall Mount Bracket For 32 Or 48 Port Patch Panel.....	97.07	
27 11 19 00-0100	EA	Wall Mount Bracket For 64 Or 72 Port Patch Panel.....	105.31	
27 11 19 00-0101	EA	Wall Mount Bracket For 96 Port Patch Panel.....	117.05	
27 11 19 00-0102	EA	Lightning Protection Plus Stainless Steel Modules, Siemon.....	485.76	54.18
27 11 19 00-0103		Telephone Components (27 11 19)		
27 11 19 00-0104		Terminal Blocks With Wide Range Of 22-8 AWG (27 11 19 00-0103)		
27 11 19 00-0105	EA	Terminal Block, Circuit Isolation Switch With Wire Range 22-8 AWG.....	32.58	10.86
27 11 19 00-0106	EA	Terminal Block, Fuse Holder 600 Volt, 6.3 Amperes With Wire Range 22-8 AWG.....	63.54	10.86
27 11 19 00-0107	EA	Terminal Block, Fuse Holder 600 Volt, 10 Amperes With Wire Range 22-8 AWG.....	50.87	10.86
27 11 19 00-0108	EA	Terminal Block, Solderless Box With Lugs And Wire Range 22-8 AWG.....	24.88	10.86
27 11 19 00-0109	EA	Flat Terminal Block Connection With Wire Range 22-8 AWG.....	17.62	7.60
27 11 19 00-0110	EA	Ground Terminal Block With Wire Range 22-8 AWG.....	33.92	10.86
27 11 19 00-0111	EA	Terminal Block, Solderless Box With Lug 600 Volt, 60 Amperes With Wire Range 22-8 AWG.....	24.88	10.86
27 11 19 00-0112	EA	Terminal Block, Mini Box Lug 300 Volt, 30 Amperes With Wire Range 22-8 AWG.....	17.42	7.60
27 11 19 00-0113	EA	Flat Terminal Block Connection 300 Volt, 20 Amperes With Wire Range 22-8 AWG.....	17.28	7.60
27 11 19 00-0114	EA	Self Lifting Terminal Block, 300 Volt, 40 Amperes, Wire Connection With Wire Range 22-12 AWG.....	17.90	7.60
27 11 19 00-0115		Terminal Block Mounting Channel (27 11 19 00-0103)		
27 11 19 00-0116	EA	Terminal Block Mounting Channel, .5 M Galvanized Steel.....	17.27	5.43
27 11 19 00-0117	EA	Terminal Block Mounting Channel, 1 M Galvanized Steel.....	22.46	5.43
27 11 19 00-0118	EA	Terminal Block Mounting Channel, 2 M Galvanized Steel.....	31.60	5.43
27 11 19 00-0119	EA	Terminal Block Mounting Channel, .5 M Bi-Chrome Zinc.....	22.22	6.52
27 11 19 00-0120	EA	Terminal Block Mounting Channel, 1 M Bi-Chrome Zinc.....	30.86	6.52
27 11 19 00-0121	EA	Terminal Block Mounting Channel, 2 M Bi-Chrome Zinc.....	45.17	6.52
27 11 19 00-0122		Outlet Termination Hardware (27 11 19 00-0103)		
27 11 19 00-0123	EA	Telephone Outlet Blocks.....	34.05	5.43
27 11 19 00-0124	EA	Phone Outlet Block For Floor Box.....	91.62	41.18
		Note: Excludes box.		
27 11 19 00-0125	EA	Fiber Optic "SC" Type Modular Bulkhead.....	82.34	24.38
27 11 19 00-0126	EA	Fiber Optic "ST" Type Modular Bulkhead.....	82.34	24.38
27 11 19 00-0127	EA	Type "F" Coaxial Connector Male.....	47.89	16.26
27 11 19 00-0128	EA	Modular Plate For 3-RJ-45, 4 - "SC" And 1 -"F" Connector.....	125.51	27.10
27 11 19 00-0129	EA	Modular Plate For 3-RJ-45, 4 - "ST" And 1 -"F" Connector.....	125.51	27.10
27 11 19 00-0130	EA	Access Floor Box With 3-RJ-45, 4 - "SC" And 1 -"F" Connector.....	152.09	27.10
27 11 19 00-0131	EA	Access Floor Box With 3-RJ-45, 4 - "ST" And 1 -"F" Connector.....	152.09	27.10
27 11 19 00-0132	EA	Access Floor Box With 2-RJ-45, 4 - "SC" And 1 -25 Pin Connector.....	138.10	27.10
27 11 19 00-0133	EA	Terminal Type - Punch Down Block 110 Type - 300 Pair Category 5.....	1,210.82	135.46
27 11 19 00-0134	EA	Wiring (Punch Down) Block with Stand-Off Legs, 100 Pair, Category V.....	58.50	10.84
		Note: Excludes cable terminations.		
27 11 19 00-0135	EA	5-Pair, Connecting Block.....	3.47	1.08
27 11 19 00-0136	EA	4-Pair, Connecting Block.....	3.77	1.08
27 11 19 00-0137	EA	Plastic Label Holder, Transparent.....	14.03	2.71
27 11 19 00-0138	EA	Marked Label, White, 5-Pair.....	3.77	
27 11 19 00-0139	EA	Marked Label, Blue, 4-Pair.....	3.77	
27 11 19 00-0140		Terminations in Manhole or Junction Box (27 11 19 00-0103)		
27 11 19 00-0141	EA	25 Pair Cable Termination In Manhole Or Junction Box.....	173.40	
27 11 19 00-0142	EA	50 Pair Cable Termination In Manhole Or Junction Box.....	346.80	
27 11 19 00-0143	EA	100 Pair Cable Termination In Manhole Or Junction Box.....	693.59	
27 11 19 00-0144	EA	150 Pair Cable Termination In Manhole Or Junction Box.....	1,040.39	
27 11 19 00-0145	EA	200 Pair Cable Termination In Manhole Or Junction Box.....	1,217.04	
27 11 19 00-0146	EA	300 Pair Cable Termination In Manhole Or Junction Box.....	1,825.02	
27 11 19 00-0147	EA	400 Pair Cable Termination In Manhole Or Junction Box.....	2,295.36	
27 11 19 00-0148	EA	500 Pair Cable Termination In Manhole Or Junction Box.....	2,869.74	
27 11 19 00-0149	EA	750 Pair Cable Termination In Manhole Or Junction Box.....	4,304.59	
27 11 19 00-0150	EA	1,000 Pair Cable Termination In Manhole Or Junction Box.....	5,220.34	
27 11 19 00-0151	EA	1,200 Pair Cable Termination In Manhole Or Junction Box.....	5,949.78	
27 11 23		Communications Cable Management and Ladder Rack (27 11)		
27 11 23 00-0001		Equipment Supports (27 11 23)		
27 11 23 00-0002	EA	Environmental Enclosure, NEMA 4x SS, 6' Free Standing.....	28,019.38	853.95
27 11 23 00-0003	EA	DVR Enclosure.....	1,949.60	213.47
27 11 23 00-0004	EA	Wall Mount Type 4X Enclosure 24.00x30.00x8.00 Stainless Steel Type 316.....	7,252.45	426.94
27 11 23 00-0005	EA	Panel, NEMA 12/27.00x21.00.....	513.50	106.73
27 11 23 00-0006	EA	Panel, NEMA 12/8.75x6.88.....	135.96	106.73
27 11 23 00-0007	EA	Clamp Assembly, Fast Opening, Stainless Steel Type 304.....	182.73	106.73
27 11 23 00-0008	EA	Wall-Mount Type 4x Enclosure 24.00x30.00x8.00 Stainless Steel Type 316.....	6,505.30	106.73
27 11 23 00-0009	EA	12" x 5'-11" Tubular Runway.....	112.86	26.01
27 11 23 00-0010	EA	12" x 9'-11" Tubular Runway.....	194.49	43.35
27 11 23 00-0011	EA	Shelf Bracket Support For Tubular Runway.....	35.69	8.13
27 11 23 00-0012	EA	Straight Clamp Hardware For Tubular Runway.....	14.86	5.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 23 00-0013 EA Corner Clamp Hardware For Tubular Runway.....	15.85	5.42
27 11 23 00-0014 EA 90 Degree Edge Clamp Hardware For Tubular Runway	36.95	9.75
27 11 23 00-0015 EA Wall Angle Assembly Hardware For 12" Wide Tubular Runway	79.62	16.26
27 11 23 00-0016 EA J-Bolt Hardware For Tubular Runway.....	7.07	2.39
27 11 23 00-0017 EA T Bracket Hardware For Tubular Runway.....	40.35	13.54
27 11 23 00-0018 EA 110 Jumper Trough (Commscope 107831133)	32.28	5.42
27 11 23 00-0019 LF Velcro CMP.....	2.64	1.08

27 13 Communications Backbone Cabling (27 10)

27 13 13 Communications Copper Backbone Cabling (27 13)

27 13 13 13 Communications Copper Cable Splicing and Terminations (27 13 13)

27 13 13 13-0001 Building Entrance Terminals (27 13 13 13)

27 13 13 13-0002 EA 25 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	1,653.72	237.61
27 13 13 13-0003 EA 50 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	2,274.26	396.01
27 13 13 13-0004 EA 100 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	3,287.01	634.13

27 13 13 13-0005 Modular Plugs For Copper Communications Cable (27 13 13 13)

27 13 13 13-0006 EA Modular Plug For Non-Shielded Copper Communications Cable	25.86	
<i>Note: Up to 8-position/8-contact non-shielded modular plug for solid or stranded wire. Includes termination.</i>		
<i>For >5 To 10, Deduct</i>	-3.24	
<i>For >10, Deduct</i>	-6.49	
27 13 13 13-0007 EA Modular Plug For Shielded Copper Communications Cable.....	29.46	
<i>Note: Up to 8-position/8-contact shielded modular plug for solid or stranded wire. Includes termination.</i>		
<i>For >5 To 10, Deduct</i>	-3.65	
<i>For >10, Deduct</i>	-7.30	

27 13 13 13-0008 Testing And Certification Of Copper Communications Cable (27 13 13 13)

<i>Note: Use for existing systems.</i>		
27 13 13 13-0009 EA Test 1-Pair Of A Copper Communications Cable For Continuity	5.42	
<i>For >25-Pair, Deduct</i>	-2.16	
27 13 13 13-0010 EA Certify 1-Pair Of A Copper Communications Cable.....	8.13	
<i>For >25-Pair, Deduct</i>	-3.24	
27 13 13 13-0011 EA Certify And Document 1-Pair Of A Copper Communications Cable	13.00	
<i>For >25-Pair, Deduct</i>	-5.19	
27 13 13 13-0012 EA Test 4-Pair Category 5-7 Telecommunications Cable For Continuity	21.67	
<i>For >25-Pair, Deduct</i>	-8.65	
27 13 13 13-0013 EA Certify 4-Pair Category 5-7 Telecommunications Cable	32.51	
<i>For >25-Pair, Deduct</i>	-12.97	
27 13 13 13-0014 EA Certify And Document 4-Pair Category 5-7 Telecommunications Cable	52.02	
<i>For >25-Pair, Deduct</i>	-20.76	

27 13 13 13-0015 Communications Termination Blocks (27 13 13 13)

27 13 13 13-0016 EA 100-Pair, 110 Block With Legs.....	55.97	13.54
27 13 13 13-0017 EA 300-Pair, 110 Block With Legs.....	97.96	13.54
27 13 13 13-0018 EA Clear Label Holder For 110 Wiring Block.....	11.66	5.42
27 13 13 13-0019 EA 4-Pair, 110C Connecting Block.....	6.69	2.71
27 13 13 13-0020 EA 5-Pair, 110C Connecting Block.....	6.84	2.71
27 13 13 13-0021 EA 100-Pair, 110 Jack Panel System.....	321.83	16.26
<i>Note: Includes twelve 8-pin modular jacks and mounting legs.</i>		
27 13 13 13-0022 EA 300-Pair, 110 Jack Panel System.....	609.47	16.26
<i>Note: Includes twelve 8-pin modular jacks and mounting legs.</i>		

27 13 23 Communications Optical Fiber Backbone Cabling (27 13)

27 13 23 13 Communications Optical Fiber Splicing and Terminations (27 13 23)

27 13 23 13-0001 Fiber Optic Cable Connectors (27 13 23 13)

27 13 23 13-0002 EA ST Connector For Multimode Fiber Optic Cable	31.66	
27 13 23 13-0003 EA ST Connector For Singlemode Fiber Optic Cable.....	36.63	
27 13 23 13-0004 EA SC Connector For Multimode Fiber Optic Cable.....	35.34	
27 13 23 13-0005 EA SC Connector For Singlemode Fiber Optic Cable	41.68	
27 13 23 13-0006 EA LC Connector For Multimode Fiber Optic Cable	48.40	
27 13 23 13-0007 EA LC Connector For Singlemode Fiber Optic Cable.....	49.88	
27 13 23 13-0008 EA MT-RJ Connector For Multimode Fiber Optic Cable.....	72.77	

27 13 23 13-0009 Fiber Optic Cable Fan Out Kits (27 13 23 13)

27 13 23 13-0010 Buffer Tube Fan Out Kits For Fiber Optic Cable (27 13 23 13-0009)

27 13 23 13-0011 EA 6-Fiber, Indoor Buffer Tube Fan Out Kit For Fiber Optic Cable	239.71	
27 13 23 13-0012 EA 12-Fiber, Indoor Buffer Tube Fan Out Kit For Fiber Optic Cable	244.09	
27 13 23 13-0013 EA 6-Fiber, Outdoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	281.13	
27 13 23 13-0014 EA 12-Fiber, Outdoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	308.90	

27 Communications**27 10 Structured Cabling****27 13 Communications Backbone Cabling**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 13 23 13-0015	Spider Fan Out Kits For Fiber Optic Cable <small>(27 13 23 13-0009)</small>		
	Note: For tight buffered or loose tube non-armored cables. Includes aramid yarn strength member, outer protective PVDF jacket and one meter fan out lengths.		
27 13 23 13-0016	EA 6-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	293.73	
27 13 23 13-0017	EA 12-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	323.16	
27 13 23 13-0018	EA 18-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	470.01	
27 13 23 13-0019	EA 24-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	607.81	
27 13 23 13-0020	Fiber Optic Cable Splice Closures <small>(27 13 23 13)</small>		
	Note: Includes mounting hardware. Excludes splicing and splice trays.		
27 13 23 13-0021	EA Up To 144-Fiber Capacity, Pedestal Fiber Optic Cable Splice Closure.....	900.55	108.38
27 13 23 13-0022	EA Up To 144-Fiber Capacity, Underground Fiber Optic Cable Splice Closure.....	1,117.29	216.75
27 13 23 13-0023	EA Up To 144-Fiber Capacity, Aerial Fiber Optic Cable Splice Closure.....	1,117.29	216.75
27 13 23 13-0024	EA Up To 288-Fiber Capacity, Pedestal Fiber Optic Cable Splice Closure.....	1,519.27	108.38
27 13 23 13-0025	EA Up To 288-Fiber Capacity, Underground Fiber Optic Cable Splice Closure.....	1,736.01	216.75
27 13 23 13-0026	EA Up To 288-Fiber Capacity, Aerial Fiber Optic Cable Splice Closure.....	1,736.01	216.75
27 13 23 13-0027	EA Splice Tray For Fiber Optic Cable Splice Closure.....	61.57	13.54
	Note: Up to 12-fiber, mechanical or fusion splice tray. Excludes splice.		
27 13 23 13-0028	Fiber Optic Cable Splicing <small>(27 13 23 13)</small>		
27 13 23 13-0029	EA Single Strand, Fusion Splice Of Fiber Optic Cable.....	32.51	
27 13 23 13-0030	EA 12-Strand Ribbon, Fusion Splice Of Fiber Optic Cable.....	108.38	
27 13 23 13-0031	Fiber Optic Cable Testing <small>(27 13 23 13)</small>		
	Note: Price based on testing one wavelength.		
27 13 23 13-0032	Fiber Optic Cable Testing Using An OTDR <small>(27 13 23 13-0031)</small>		
	Note: Testing using an optical time domain reflectometer.		
27 13 23 13-0033	EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional OTDR Test.....	21.67	
	For >12 To 48 Strands, Deduct	-1.63	
	For >48 Strands, Deduct	-2.17	
27 13 23 13-0034	EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional OTDR Test.....	32.51	
	For >12 To 48 Strands, Deduct	-2.44	
	For >48 Strands, Deduct	-3.25	
27 13 23 13-0035	EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional OTDR Test With Documentation.....	54.18	
	For >12 To 48 Strands, Deduct	-4.06	
	For >48 Strands, Deduct	-5.42	
27 13 23 13-0036	EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional OTDR Test With Documentation.....	81.28	
	For >12 To 48 Strands, Deduct	-6.10	
	For >48 Strands, Deduct	-8.13	
27 13 23 13-0037	Fiber Optic Cable Testing Using A Power Meter <small>(27 13 23 13-0031)</small>		
27 13 23 13-0038	EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional Power Meter Test.....	21.67	
	For >12 To 48 Strands, Deduct	-1.63	
	For >48 Strands, Deduct	-2.17	
27 13 23 13-0039	EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional Power Meter Test.....	32.51	
	For >12 To 48 Strands, Deduct	-2.44	
	For >48 Strands, Deduct	-3.25	
27 13 23 13-0040	Fiber Optic Cable Light Source/Continuity Testing <small>(27 13 23 13-0031)</small>		
27 13 23 13-0041	EA Test 1-Strand Of Fiber Optic Cable Using A Light Source/Continuity Test.....	21.67	
	For >12 To 48 Strands, Deduct	-1.63	
	For >48 Strands, Deduct	-2.17	
27 13 23 13-0042	Other Fiber Optic Cable Equipment <small>(27 13 23 13)</small>		
27 13 23 13-0043	EA 8 Port Ethernet Switch.....	934.48	213.22
27 13 23 13-0044	EA 18 dBi Gain, 5.25-5.85 GHz Band, 18 Degree Beamwidth.....	1,325.92	213.22
	Note: Patch antenna with 1 meter 3' SMA-N cable		
27 13 23 13-0045	EA Outdoor Multi Band 5.3 Or 5.8 GHz Wireless Ethernet Bridge.....	33,128.84	213.22
	Note: 8 Volt DC input		
27 13 23 13-0046	EA UPS, 500 VA 300 Watt UPS For CCTV, Edco PA400-120U.....	327.47	26.70
27 13 23 13-0047	EA Hardened Ethernet Switch.....	3,484.15	106.73
27 13 23 13-0048	EA 1,440 Watt, 120 Volt AC Solar Power Station.....	90,250.35	2,561.64
27 13 23 13-0049	EA 2,880 Watt, 120 Volt AC Solar Power Station.....	112,057.33	3,415.52
27 13 23 13-0050	EA Fiber Break Out Box For 24 Fiber.....	1,442.05	213.47
27 13 23 13-0051	EA Fiber Optic MM Data (PTZ or SYNC) 1300 Video 850, 1 Fiber, RM.....	1,675.23	106.73
27 13 23 13-0052	EA Fiber Optic MM Data (PTZ or SYNC) 850 Video 850, 2 Fibers.....	1,401.14	106.73
27 13 23 13-0053	EA Fiber Optic 19" Rack, 115 Volt AC Input.....	1,781.96	160.11
27 13 23 13-0054	EA Commercial Gigabit Media Converter, Ethernet RJ45 to Fiber Optic. Shelf, Wall or Chassis Mount, 100 Volt AC - 260 Volt AC, Power Module Included. Gigabit Ports: 1 x 1000TX And 1 x 1000LX SM 20KM, (Etherwan Systems).....	1,375.66	
27 13 23 13-0055	EA Media Converter Chassis (Etherwan Systems), 16 Slots for any Standard Size Media Converter, 19" Rack Mount Redundant Power Supplies, Power Option 100 Volt AC - 260 Volt AC.....	1,375.66	
27 13 23 13-0056	Other Fiber Optic Cable Splicing <small>(27 13 23 13)</small>		
27 13 23 13-0057	EA Fiber Optic Finger Splice.....	37.05	20.37



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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27 13 23 13-0058 EA Fiber Optic Splice Box - Manholes.....5,616.71

27 15 Communications Horizontal Cabling (27 10)

27 15 13 Communications Copper Horizontal Cabling (27 15)

Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.

27 15 13 00-0001	Solid Conductor Low Voltage Cable <small>(27 15 13)</small>		
27 15 13 00-0002	Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0001)</small>		
27 15 13 00-0003	#12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0002)</small>		
27 15 13 00-0004	MLF 1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,118.22	980.14
	<i>For #10 AWG, Add</i>	486.63	
	<i>For Work In Restricted Working Space, Add</i>	490.12	
27 15 13 00-0005	MLF 2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,585.91	1,014.80
	<i>For #10 AWG, Add</i>	633.41	
	<i>For Work In Restricted Working Space, Add</i>	507.55	
27 15 13 00-0006	MLF 3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,995.87	1,050.44
	<i>For #10 AWG, Add</i>	761.11	
	<i>For Work In Restricted Working Space, Add</i>	525.07	
27 15 13 00-0007	MLF 4 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,429.98	1,086.08
	<i>For #10 AWG, Add</i>	896.51	
	<i>For Work In Restricted Working Space, Add</i>	543.20	
27 15 13 00-0008	MLF 5 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,903.66	1,159.34
	<i>For #10 AWG, Add</i>	1,036.94	
	<i>For Work In Restricted Working Space, Add</i>	579.85	
27 15 13 00-0009	MLF 6 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,335.82	1,231.62
	<i>For #10 AWG, Add</i>	1,163.90	
	<i>For Work In Restricted Working Space, Add</i>	615.97	
27 15 13 00-0010	MLF 8 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,700.17	1,378.14
	<i>For #10 AWG, Add</i>	1,252.51	
	<i>For Work In Restricted Working Space, Add</i>	688.94	
27 15 13 00-0011	MLF 12 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,232.24	1,816.74
	<i>For #10 AWG, Add</i>	1,663.09	
	<i>For Work In Restricted Working Space, Add</i>	908.20	
27 15 13 00-0012	MLF 24 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	9,277.94	2,683.03
	<i>For #10 AWG, Add</i>	2,480.55	
	<i>For Work In Restricted Working Space, Add</i>	1,341.17	
27 15 13 00-0013	#14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0002)</small>		
27 15 13 00-0014	MLF 1 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,891.57	857.39
	<i>For Work In Restricted Working Space, Add</i>	428.59	
27 15 13 00-0015	MLF 2 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,334.38	888.07
	<i>For Work In Restricted Working Space, Add</i>	444.04	
27 15 13 00-0016	MLF 3 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,721.77	918.77
	<i>For Work In Restricted Working Space, Add</i>	459.48	
27 15 13 00-0017	MLF 4 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,131.27	950.45
	<i>For Work In Restricted Working Space, Add</i>	475.22	
27 15 13 00-0018	MLF 5 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,574.08	1,014.80
	<i>For Work In Restricted Working Space, Add</i>	507.30	
27 15 13 00-0019	MLF 6 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,976.88	1,078.16
	<i>For Work In Restricted Working Space, Add</i>	538.79	
27 15 13 00-0020	MLF 8 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,306.44	1,205.88
	<i>For Work In Restricted Working Space, Add</i>	602.94	
27 15 13 00-0021	MLF 12 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,710.56	1,589.03
	<i>For Work In Restricted Working Space, Add</i>	794.51	
27 15 13 00-0022	MLF 24 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,505.96	2,347.41
	<i>For Work In Restricted Working Space, Add</i>	1,173.80	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0023			#16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0002)</small>		
27 15 13 00-0024	MLF		1 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,683.82	765.30
			<i>For Work In Restricted Working Space, Add</i>	382.85	
27 15 13 00-0025	MLF		2 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,975.85	793.03
			<i>For Work In Restricted Working Space, Add</i>	396.51	
27 15 13 00-0026	MLF		3 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,415.30	820.75
			<i>For Work In Restricted Working Space, Add</i>	410.18	
27 15 13 00-0027	MLF		4 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,777.24	848.47
			<i>For Work In Restricted Working Space, Add</i>	424.43	
27 15 13 00-0028	MLF		5 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,168.07	905.89
			<i>For Work In Restricted Working Space, Add</i>	452.95	
27 15 13 00-0029	MLF		6 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,524.42	962.32
			<i>For Work In Restricted Working Space, Add</i>	481.17	
27 15 13 00-0030	MLF		7 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,670.41	1,019.75
			<i>For Work In Restricted Working Space, Add</i>	509.68	
27 15 13 00-0031	MLF		8 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,817.38	1,077.17
			<i>For Work In Restricted Working Space, Add</i>	538.49	
27 15 13 00-0032	MLF		9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,268.32	1,145.48
			<i>For Work In Restricted Working Space, Add</i>	572.65	
27 15 13 00-0033	MLF		12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,061.30	1,418.74
			<i>For Work In Restricted Working Space, Add</i>	709.42	
27 15 13 00-0034	MLF		24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,538.24	2,095.93
			<i>For Work In Restricted Working Space, Add</i>	1,048.02	
27 15 13 00-0035			#18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0002)</small>		
27 15 13 00-0036	MLF		1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,410.56	674.23
			<i>For Work In Restricted Working Space, Add</i>	336.82	
27 15 13 00-0037	MLF		2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,694.46	697.98
			<i>For Work In Restricted Working Space, Add</i>	348.99	
27 15 13 00-0038	MLF		3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,943.92	721.75
			<i>For Work In Restricted Working Space, Add</i>	361.17	
27 15 13 00-0039	MLF		4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,206.52	746.50
			<i>For Work In Restricted Working Space, Add</i>	373.35	
27 15 13 00-0040	MLF		5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,499.51	796.99
			<i>For Work In Restricted Working Space, Add</i>	398.59	
27 15 13 00-0041	MLF		6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,767.88	846.49
			<i>For Work In Restricted Working Space, Add</i>	423.54	
27 15 13 00-0042	MLF		8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,007.15	947.48
			<i>For Work In Restricted Working Space, Add</i>	473.74	
27 15 13 00-0043	MLF		12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,985.10	1,248.46
			<i>For Work In Restricted Working Space, Add</i>	624.32	
27 15 13 00-0044	MLF		24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,930.13	1,844.46
			<i>For Work In Restricted Working Space, Add</i>	922.23	
27 15 13 00-0045			#20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0002)</small>		
27 15 13 00-0046	MLF		1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,241.94	612.84
			<i>For Work In Restricted Working Space, Add</i>	306.22	
27 15 13 00-0047	MLF		2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,466.77	634.62
			<i>For Work In Restricted Working Space, Add</i>	317.21	
27 15 13 00-0048	MLF		3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,662.70	656.90
			<i>For Work In Restricted Working Space, Add</i>	328.20	
27 15 13 00-0049	MLF		4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,868.88	679.17
			<i>For Work In Restricted Working Space, Add</i>	339.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0050 MLF 5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,107.16 362.21	724.72
For Work In Restricted Working Space, Add		
27 15 13 00-0051 MLF 6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,325.21 384.93	770.26
For Work In Restricted Working Space, Add		
27 15 13 00-0052 MLF 8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,548.95 430.67	861.35
For Work In Restricted Working Space, Add		
27 15 13 00-0053 MLF 12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,355.19 567.59	1,135.59
For Work In Restricted Working Space, Add		
27 15 13 00-0054 MLF 24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,989.71 838.47	1,677.14
For Work In Restricted Working Space, Add		
27 15 13 00-0055 MLF 25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,303.74 858.37	1,716.75
For Work In Restricted Working Space, Add		
27 15 13 00-0056 MLF 36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,324.44 999.46	1,998.91
For Work In Restricted Working Space, Add		
27 15 13 00-0057 MLF 40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,786.12 1,069.85	2,139.50
For Work In Restricted Working Space, Add		
27 15 13 00-0058 MLF 50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,102.74 1,336.86	2,674.13
For Work In Restricted Working Space, Add		
27 15 13 00-0059 MLF 100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	11,027.21 1,760.10	3,520.62
For Work In Restricted Working Space, Add		
27 15 13 00-0060 #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)		
27 15 13 00-0061 MLF 1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,034.49 275.63	551.46
For Work In Restricted Working Space, Add		
27 15 13 00-0062 MLF 2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,109.78 285.43	571.26
For Work In Restricted Working Space, Add		
27 15 13 00-0063 MLF 3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,202.33 295.53	591.06
For Work In Restricted Working Space, Add		
27 15 13 00-0064 MLF 4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,302.97 305.63	610.87
For Work In Restricted Working Space, Add		
27 15 13 00-0065 MLF 5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,451.68 326.12	652.44
For Work In Restricted Working Space, Add		
27 15 13 00-0066 MLF 6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,602.18 345.72	691.05
For Work In Restricted Working Space, Add		
27 15 13 00-0067 Triad (27 15 13 00-0002)		
27 15 13 00-0068 MLF 1 Triad #16 AWG, Stranded, Low Voltage, Installed In Conduit	2,389.90	820.75
27 15 13 00-0069 MLF 4 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	3,121.75	1,135.59
27 15 13 00-0070 MLF 8 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	4,866.08	1,677.14
27 15 13 00-0071 MLF 12 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	6,049.95	1,998.91
27 15 13 00-0072 MLF 24 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	9,886.01	3,096.88
27 15 13 00-0073 MLF 36 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	11,368.58	3,520.62
27 15 13 00-0074 Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0001)		
27 15 13 00-0075 #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0074)		
27 15 13 00-0076 MLF 1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,751.94 813.37 980.23	1,960.30
For #10 AWG, Add		
For Work In Restricted Working Space, Add		
27 15 13 00-0077 MLF 2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,277.74 971.78 1,015.10	2,029.61
For #10 AWG, Add		
For Work In Restricted Working Space, Add		
27 15 13 00-0078 MLF 3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,746.10 1,111.15 1,050.14	2,100.89
For #10 AWG, Add		
For Work In Restricted Working Space, Add		
27 15 13 00-0079 MLF 4 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,240.69 1,258.65 1,086.42	2,172.17
For #10 AWG, Add		
For Work In Restricted Working Space, Add		

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-080	MLF		5 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,836.47	2,318.70
			<i>For #10 AWG, Add</i>	1,423.50	
			<i>For Work In Restricted Working Space, Add</i>	1,159.69	
27 15 13 00-081	MLF		6 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,389.06	2,463.25
			<i>For #10 AWG, Add</i>	1,574.55	
			<i>For Work In Restricted Working Space, Add</i>	1,231.94	
27 15 13 00-082	MLF		8 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,996.65	2,756.30
			<i>For #10 AWG, Add</i>	1,711.81	
			<i>For Work In Restricted Working Space, Add</i>	1,377.89	
27 15 13 00-083	MLF		12 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	9,259.55	3,633.48
			<i>For #10 AWG, Add</i>	2,268.55	
			<i>For Work In Restricted Working Space, Add</i>	1,816.39	
27 15 13 00-084	MLF		24 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	13,748.51	5,366.07
			<i>For #10 AWG, Add</i>	3,374.66	
			<i>For Work In Restricted Working Space, Add</i>	2,682.34	
27 15 13 00-085			#14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0074)</small>		
27 15 13 00-086	MLF		1 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,320.22	1,714.76
			<i>For Work In Restricted Working Space, Add</i>	857.19	
27 15 13 00-087	MLF		2 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,814.51	1,776.15
			<i>For Work In Restricted Working Space, Add</i>	888.08	
27 15 13 00-088	MLF		3 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,253.37	1,837.53
			<i>For Work In Restricted Working Space, Add</i>	918.96	
27 15 13 00-089	MLF		4 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,715.35	1,900.90
			<i>For Work In Restricted Working Space, Add</i>	950.45	
27 15 13 00-090	MLF		5 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,265.09	2,029.61
			<i>For Work In Restricted Working Space, Add</i>	1,014.60	
27 15 13 00-091	MLF		6 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,772.83	2,156.32
			<i>For Work In Restricted Working Space, Add</i>	1,077.57	
27 15 13 00-092	MLF		8 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,316.24	2,411.76
			<i>For Work In Restricted Working Space, Add</i>	1,205.88	
27 15 13 00-093	MLF		12 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	8,358.94	3,178.06
			<i>For Work In Restricted Working Space, Add</i>	1,589.03	
27 15 13 00-094	MLF		24 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	12,418.64	4,694.82
			<i>For Work In Restricted Working Space, Add</i>	2,347.61	
27 15 13 00-095			#16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0074)</small>		
27 15 13 00-096	MLF		1 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,960.00	1,530.62
			<i>For Work In Restricted Working Space, Add</i>	765.71	
27 15 13 00-097	MLF		2 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,297.57	1,586.06
			<i>For Work In Restricted Working Space, Add</i>	793.03	
27 15 13 00-098	MLF		3 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,782.57	1,641.50
			<i>For Work In Restricted Working Space, Add</i>	820.36	
27 15 13 00-099	MLF		4 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,192.02	1,696.94
			<i>For Work In Restricted Working Space, Add</i>	848.87	
27 15 13 00-100	MLF		5 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,677.89	1,811.79
			<i>For Work In Restricted Working Space, Add</i>	905.90	
27 15 13 00-101	MLF		6 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,128.29	1,924.66
			<i>For Work In Restricted Working Space, Add</i>	962.33	
27 15 13 00-102	MLF		7 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,369.33	2,039.50
			<i>For Work In Restricted Working Space, Add</i>	1,019.36	
27 15 13 00-103	MLF		8 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,612.34	2,154.35
			<i>For Work In Restricted Working Space, Add</i>	1,076.98	
27 15 13 00-104	MLF		9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,177.13	2,290.98
			<i>For Work In Restricted Working Space, Add</i>	1,145.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0105 MLF 12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 7,426.03 <i>For Work In Restricted Working Space, Add</i> 1,418.84	7,426.03	2,837.48
27 15 13 00-0106 MLF 24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 11,031.63 <i>For Work In Restricted Working Space, Add</i> 2,096.03	11,031.63	4,191.87
27 15 13 00-0107 #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0074)		
27 15 13 00-0108 MLF 1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 2,533.27 <i>For Work In Restricted Working Space, Add</i> 673.63	2,533.27	1,348.45
27 15 13 00-0109 MLF 2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 2,857.78 <i>For Work In Restricted Working Space, Add</i> 697.99	2,857.78	1,395.97
27 15 13 00-0110 MLF 3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 3,147.82 <i>For Work In Restricted Working Space, Add</i> 722.34	3,147.82	1,443.49
27 15 13 00-0111 MLF 4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 3,451.00 <i>For Work In Restricted Working Space, Add</i> 746.69	3,451.00	1,492.99
27 15 13 00-0112 MLF 5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 3,828.16 <i>For Work In Restricted Working Space, Add</i> 797.19	3,828.16	1,593.98
27 15 13 00-0113 MLF 6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 4,179.69 <i>For Work In Restricted Working Space, Add</i> 847.09	4,179.69	1,692.99
27 15 13 00-0114 MLF 8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 4,586.28 <i>For Work In Restricted Working Space, Add</i> 947.48	4,586.28	1,894.95
27 15 13 00-0115 MLF 12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 6,066.18 <i>For Work In Restricted Working Space, Add</i> 1,248.65	6,066.18	2,496.90
27 15 13 00-0116 MLF 24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 9,004.22 <i>For Work In Restricted Working Space, Add</i> 1,844.45	9,004.22	3,688.93
27 15 13 00-0117 #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0074)		
27 15 13 00-0118 MLF 1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 2,262.68 <i>For Work In Restricted Working Space, Add</i> 612.44	2,262.68	1,225.68
27 15 13 00-0119 MLF 2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 2,524.15 <i>For Work In Restricted Working Space, Add</i> 634.43	2,524.15	1,269.25
27 15 13 00-0120 MLF 3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 2,756.70 <i>For Work In Restricted Working Space, Add</i> 656.40	2,756.70	1,313.79
27 15 13 00-0121 MLF 4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 3,000.51 <i>For Work In Restricted Working Space, Add</i> 678.98	3,000.51	1,358.35
27 15 13 00-0122 MLF 5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 3,314.52 <i>For Work In Restricted Working Space, Add</i> 724.42	3,314.52	1,449.44
27 15 13 00-0123 MLF 6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 3,608.32 <i>For Work In Restricted Working Space, Add</i> 769.86	3,608.32	1,540.52
27 15 13 00-0124 MLF 8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 3,984.52 <i>For Work In Restricted Working Space, Add</i> 861.35	3,984.52	1,722.68
27 15 13 00-0125 MLF 12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 5,247.18 <i>For Work In Restricted Working Space, Add</i> 1,135.19	5,247.18	2,271.17
27 15 13 00-0126 MLF 24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 7,784.61 <i>For Work In Restricted Working Space, Add</i> 1,676.94	7,784.61	3,354.29
27 15 13 00-0127 MLF 25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 8,164.96 <i>For Work In Restricted Working Space, Add</i> 1,716.74	8,164.96	3,433.49
27 15 13 00-0128 MLF 36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 9,655.98 <i>For Work In Restricted Working Space, Add</i> 1,998.92	9,655.98	3,997.82
27 15 13 00-0129 MLF 40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 10,352.27 <i>For Work In Restricted Working Space, Add</i> 2,139.69	10,352.27	4,278.99
27 15 13 00-0130 MLF 50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 12,558.94 <i>For Work In Restricted Working Space, Add</i> 2,673.72	12,558.94	5,348.24
27 15 13 00-0131 MLF 100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed 16,894.20 <i>For Work In Restricted Working Space, Add</i> 3,520.20	16,894.20	7,041.23

27 Communications
27 10 Structured Cabling
27 15 Communications Horizontal Cabling



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0132			#22 AWG, Shielded, Low Voltage Cable, Installed Exposed <small>(27 15 13 00-0074)</small>		
27 15 13 00-0133	MLF		1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	1,953.25	1,102.91
			<i>For Work In Restricted Working Space, Add</i>	551.26	
27 15 13 00-0134	MLF		2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,061.23	1,142.52
			<i>For Work In Restricted Working Space, Add</i>	570.86	
27 15 13 00-0135	MLF		3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,187.43	1,182.12
			<i>For Work In Restricted Working Space, Add</i>	591.06	
27 15 13 00-0136	MLF		4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,321.73	1,221.72
			<i>For Work In Restricted Working Space, Add</i>	611.26	
27 15 13 00-0137	MLF		5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,538.75	1,304.89
			<i>For Work In Restricted Working Space, Add</i>	652.25	
27 15 13 00-0138	MLF		6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	2,754.61	1,382.11
			<i>For Work In Restricted Working Space, Add</i>	691.45	
27 15 13 00-0139			Triad, Installed Exposed <small>(27 15 13 00-0074)</small>		
27 15 13 00-0140	MLF		1 Triad, #16 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	2,389.90	820.75
27 15 13 00-0141	MLF		4 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	3,121.75	1,135.59
27 15 13 00-0142	MLF		8 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	4,866.08	1,677.14
27 15 13 00-0143	MLF		12 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	6,049.95	1,998.91
27 15 13 00-0144	MLF		24 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	9,886.01	3,096.88
27 15 13 00-0145	MLF		36 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	11,368.58	3,520.62
27 15 13 00-0146			Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0001)</small>		
27 15 13 00-0147			#14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0146)</small>		
27 15 13 00-0148	MLF		1 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,663.81	857.39
			<i>For Work In Restricted Working Space, Add</i>	428.59	
27 15 13 00-0149	MLF		2 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,914.10	888.07
			<i>For Work In Restricted Working Space, Add</i>	444.04	
27 15 13 00-0150	MLF		3 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,136.23	918.77
			<i>For Work In Restricted Working Space, Add</i>	459.48	
27 15 13 00-0151	MLF		4 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,370.08	950.45
			<i>For Work In Restricted Working Space, Add</i>	475.22	
27 15 13 00-0152	MLF		5 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,645.66	1,013.81
			<i>For Work In Restricted Working Space, Add</i>	506.71	
27 15 13 00-0153	MLF		6 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,902.91	1,077.17
			<i>For Work In Restricted Working Space, Add</i>	538.49	
27 15 13 00-0154	MLF		8 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,176.52	1,205.88
			<i>For Work In Restricted Working Space, Add</i>	602.94	
27 15 13 00-0155	MLF		12 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,204.01	1,589.03
			<i>For Work In Restricted Working Space, Add</i>	794.51	
27 15 13 00-0156	MLF		24 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,246.13	2,347.41
			<i>For Work In Restricted Working Space, Add</i>	1,173.80	
27 15 13 00-0157			#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0146)</small>		
27 15 13 00-0158	MLF		1 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,483.26	765.30
			<i>For Work In Restricted Working Space, Add</i>	382.85	
27 15 13 00-0159	MLF		2 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,703.87	793.03
			<i>For Work In Restricted Working Space, Add</i>	396.51	
27 15 13 00-0160	MLF		3 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,899.67	820.75
			<i>For Work In Restricted Working Space, Add</i>	410.18	
27 15 13 00-0161	MLF		4 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,106.93	848.47
			<i>For Work In Restricted Working Space, Add</i>	424.43	
27 15 13 00-0162	MLF		5 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,351.25	904.90
			<i>For Work In Restricted Working Space, Add</i>	452.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0163 MLF 6 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,579.54	962.32
<i>For Work In Restricted Working Space, Add</i>	481.17	
27 15 13 00-0164 MLF 7 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,700.47	1,019.75
<i>For Work In Restricted Working Space, Add</i>	509.68	
27 15 13 00-0165 MLF 8 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,888.79	1,077.17
<i>For Work In Restricted Working Space, Add</i>	538.49	
27 15 13 00-0166 MLF 9 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,184.85	1,145.48
<i>For Work In Restricted Working Space, Add</i>	572.61	
27 15 13 00-0167 MLF 12 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,734.63	1,418.74
<i>For Work In Restricted Working Space, Add</i>	709.42	
27 15 13 00-0168 MLF 24 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,548.71	2,095.93
<i>For Work In Restricted Working Space, Add</i>	1,048.16	
27 15 13 00-0169 #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0146)		
27 15 13 00-0170 MLF 1 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,295.56	673.23
<i>For Work In Restricted Working Space, Add</i>	336.82	
27 15 13 00-0171 MLF 2 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,473.22	697.98
<i>For Work In Restricted Working Space, Add</i>	348.99	
27 15 13 00-0172 MLF 3 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,585.34	722.73
<i>For Work In Restricted Working Space, Add</i>	361.17	
27 15 13 00-0173 MLF 4 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,733.22	746.50
<i>For Work In Restricted Working Space, Add</i>	373.35	
27 15 13 00-0174 MLF 5 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,912.72	796.99
<i>For Work In Restricted Working Space, Add</i>	398.59	
27 15 13 00-0175 MLF 6 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,091.25	847.49
<i>For Work In Restricted Working Space, Add</i>	423.54	
27 15 13 00-0176 MLF 8 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,508.89	947.48
<i>For Work In Restricted Working Space, Add</i>	473.74	
27 15 13 00-0177 MLF 12 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,260.46	1,248.46
<i>For Work In Restricted Working Space, Add</i>	624.32	
27 15 13 00-0178 MLF 24 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,362.22	1,844.46
<i>For Work In Restricted Working Space, Add</i>	922.23	
27 15 13 00-0179 #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0146)		
27 15 13 00-0180 MLF 1 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,142.74	612.84
<i>For Work In Restricted Working Space, Add</i>	306.22	
27 15 13 00-0181 MLF 2 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,265.35	634.62
<i>For Work In Restricted Working Space, Add</i>	317.21	
27 15 13 00-0182 MLF 3 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,492.80	722.73
<i>For Work In Restricted Working Space, Add</i>	361.17	
27 15 13 00-0183 MLF 4 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,640.81	759.77
<i>For Work In Restricted Working Space, Add</i>	379.88	
27 15 13 00-0184 MLF 5 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,785.75	796.99
<i>For Work In Restricted Working Space, Add</i>	398.59	
27 15 13 00-0185 MLF 6 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,941.22	847.49
<i>For Work In Restricted Working Space, Add</i>	423.54	
27 15 13 00-0186 MLF 8 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,137.81	943.12
<i>For Work In Restricted Working Space, Add</i>	471.66	
27 15 13 00-0187 MLF 12 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,635.31	1,135.59
<i>For Work In Restricted Working Space, Add</i>	567.59	
27 15 13 00-0188 MLF 24 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,909.89	1,677.14
<i>For Work In Restricted Working Space, Add</i>	838.47	
27 15 13 00-0189 MLF 25 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,102.06	1,716.75
<i>For Work In Restricted Working Space, Add</i>	858.37	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0190 MLF 36 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,851.97	1,998.91
<i>For Work In Restricted Working Space, Add</i>	999.46	
27 15 13 00-0191 MLF 40 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,201.94	2,139.50
<i>For Work In Restricted Working Space, Add</i>	1,069.85	
27 15 13 00-0192 MLF 50 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,308.69	2,674.13
<i>For Work In Restricted Working Space, Add</i>	1,336.86	
27 15 13 00-0193 MLF 100 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,488.46	3,520.62
<i>For Work In Restricted Working Space, Add</i>	1,760.10	
27 15 13 00-0194 #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0148)		
27 15 13 00-0195 MLF 1 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	999.66	551.46
<i>For Work In Restricted Working Space, Add</i>	275.63	
27 15 13 00-0196 MLF 2 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,062.12	571.26
<i>For Work In Restricted Working Space, Add</i>	285.43	
27 15 13 00-0197 MLF 3 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,142.48	591.06
<i>For Work In Restricted Working Space, Add</i>	295.53	
27 15 13 00-0198 MLF 4 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,229.75	610.87
<i>For Work In Restricted Working Space, Add</i>	305.63	
27 15 13 00-0199 MLF 5 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,348.22	652.44
<i>For Work In Restricted Working Space, Add</i>	326.12	
27 15 13 00-0200 MLF 6 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,474.55	691.05
<i>For Work In Restricted Working Space, Add</i>	345.72	
27 15 13 00-0201 Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0001)		
27 15 13 00-0202 #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0201)		
27 15 13 00-0203 MLF 1 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,092.46	1,714.76
<i>For Work In Restricted Working Space, Add</i>	857.19	
27 15 13 00-0204 MLF 2 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,394.23	1,776.15
<i>For Work In Restricted Working Space, Add</i>	888.08	
27 15 13 00-0205 MLF 3 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,667.83	1,837.53
<i>For Work In Restricted Working Space, Add</i>	918.96	
27 15 13 00-0206 MLF 4 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,954.16	1,900.90
<i>For Work In Restricted Working Space, Add</i>	950.45	
27 15 13 00-0207 MLF 5 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,334.68	2,027.62
<i>For Work In Restricted Working Space, Add</i>	1,013.42	
27 15 13 00-0208 MLF 6 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,697.87	2,154.35
<i>For Work In Restricted Working Space, Add</i>	1,076.98	
27 15 13 00-0209 MLF 8 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,186.32	2,411.76
<i>For Work In Restricted Working Space, Add</i>	1,205.88	
27 15 13 00-0210 MLF 12 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,852.39	3,178.06
<i>For Work In Restricted Working Space, Add</i>	1,589.03	
27 15 13 00-0211 MLF 24 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	10,158.81	4,694.82
<i>For Work In Restricted Working Space, Add</i>	2,347.61	
27 15 13 00-0212 #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0201)		
27 15 13 00-0213 MLF 1 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,759.44	1,530.62
<i>For Work In Restricted Working Space, Add</i>	765.71	
27 15 13 00-0214 MLF 2 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,025.59	1,586.06
<i>For Work In Restricted Working Space, Add</i>	793.03	
27 15 13 00-0215 MLF 3 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,266.94	1,641.50
<i>For Work In Restricted Working Space, Add</i>	820.36	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0216	MLF	4	Pair	#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,521.71 <i>848.87</i>	1,696.94
27 15 13 00-0217	MLF	5	Pair	#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,860.08 <i>905.30</i>	1,809.81
27 15 13 00-0218	MLF	6	Pair	#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,183.41 <i>962.33</i>	1,924.66
27 15 13 00-0219	MLF	7	Pair	#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,399.39 <i>1,019.36</i>	2,039.50
27 15 13 00-0220	MLF	8	Pair	#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,683.75 <i>1,076.98</i>	2,154.35
27 15 13 00-0221	MLF	9	Pair	#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,093.57 <i>1,145.23</i>	2,290.98
27 15 13 00-0222	MLF	12	Pair	#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,099.35 <i>1,418.84</i>	2,837.48
27 15 13 00-0223	MLF	24	Pair	#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,042.59 <i>2,096.33</i>	4,191.87
27 15 13 00-0224 #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0201)</small>						
27 15 13 00-0225	MLF	1	Pair	#18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,418.27 <i>673.63</i>	1,346.46
27 15 13 00-0226	MLF	2	Pair	#18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,636.54 <i>697.99</i>	1,395.97
27 15 13 00-0227	MLF	3	Pair	#18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,789.24 <i>722.34</i>	1,445.48
27 15 13 00-0228	MLF	4	Pair	#18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,977.70 <i>746.69</i>	1,492.99
27 15 13 00-0229	MLF	5	Pair	#18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,241.37 <i>797.19</i>	1,593.98
27 15 13 00-0230	MLF	6	Pair	#18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,503.06 <i>847.09</i>	1,694.96
27 15 13 00-0231	MLF	8	Pair	#18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,088.02 <i>947.48</i>	1,894.95
27 15 13 00-0232	MLF	12	Pair	#18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,341.54 <i>1,248.65</i>	2,496.90
27 15 13 00-0233	MLF	24	Pair	#18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	7,436.31 <i>1,844.45</i>	3,688.93
27 15 13 00-0234 #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0201)</small>						
27 15 13 00-0235	MLF	1	Pair	#20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,163.48 <i>612.44</i>	1,225.68
27 15 13 00-0236	MLF	2	Pair	#20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,322.73 <i>634.43</i>	1,269.25
27 15 13 00-0237	MLF	3	Pair	#20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,696.70 <i>722.34</i>	1,445.48
27 15 13 00-0238	MLF	4	Pair	#20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,907.07 <i>759.76</i>	1,519.53
27 15 13 00-0239	MLF	5	Pair	#20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,114.40 <i>797.19</i>	1,593.98
27 15 13 00-0240	MLF	6	Pair	#20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,353.03 <i>847.09</i>	1,694.96
27 15 13 00-0241	MLF	8	Pair	#20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,710.01 <i>943.32</i>	1,886.24
27 15 13 00-0242	MLF	12	Pair	#20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,527.30 <i>1,135.19</i>	2,271.17

27 Communications
27 10 Structured Cabling
27 15 Communications Horizontal Cabling



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0243	MLF	24 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,704.79	3,354.29	
		<i>For Work In Restricted Working Space, Add</i>	1,676.94		
27 15 13 00-0244	MLF	25 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,963.28	3,433.49	
		<i>For Work In Restricted Working Space, Add</i>	1,716.74		
27 15 13 00-0245	MLF	36 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	8,183.51	3,997.82	
		<i>For Work In Restricted Working Space, Add</i>	1,998.92		
27 15 13 00-0246	MLF	40 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	8,768.09	4,278.99	
		<i>For Work In Restricted Working Space, Add</i>	2,139.69		
27 15 13 00-0247	MLF	50 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	10,764.89	5,348.24	
		<i>For Work In Restricted Working Space, Add</i>	2,673.72		
27 15 13 00-0248	MLF	100 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	14,355.45	7,041.23	
		<i>For Work In Restricted Working Space, Add</i>	3,520.20		
27 15 13 00-0249		#22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <small>(27 15 13 00-0201)</small>			
27 15 13 00-0250	MLF	1 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	1,918.42	1,102.91	
		<i>For Work In Restricted Working Space, Add</i>	551.26		
27 15 13 00-0251	MLF	2 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,013.57	1,142.52	
		<i>For Work In Restricted Working Space, Add</i>	570.86		
27 15 13 00-0252	MLF	3 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,127.58	1,182.12	
		<i>For Work In Restricted Working Space, Add</i>	591.06		
27 15 13 00-0253	MLF	4 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,248.51	1,221.72	
		<i>For Work In Restricted Working Space, Add</i>	611.26		
27 15 13 00-0254	MLF	5 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,435.29	1,304.89	
		<i>For Work In Restricted Working Space, Add</i>	652.25		
27 15 13 00-0255	MLF	6 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,626.98	1,382.11	
		<i>For Work In Restricted Working Space, Add</i>	691.45		
27 15 13 00-0256		Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench <small>(27 15 13 00-0001)</small>			
		Note: Excludes excavation.			
27 15 13 00-0257	MLF	1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	1,830.54		
27 15 13 00-0258	MLF	2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,269.86		
27 15 13 00-0259	MLF	3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,655.01		
27 15 13 00-0260	MLF	4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	3,062.96		
27 15 13 00-0261	MLF	5 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	3,500.73		
27 15 13 00-0262	MLF	6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	3,899.60		
27 15 13 00-0263		Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial) <small>(27 15 13 00-0001)</small>			
27 15 13 00-0264	MLF	1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	1,933.87	550.47	
27 15 13 00-0265	MLF	2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	2,430.26	589.75	
27 15 13 00-0266	MLF	3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	3,182.40	745.56	
27 15 13 00-0267	MLF	4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	3,851.53	862.33	
27 15 13 00-0268	MLF	5 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	6,259.35	982.87	
27 15 13 00-0269	MLF	6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	7,563.02	1,255.69	
27 15 13 00-0270		Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0001)</small>			
27 15 13 00-0271	MLF	1 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,482.88	765.30	
27 15 13 00-0272	MLF	2 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,809.26	793.03	
27 15 13 00-0273	MLF	3 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,038.12	820.75	
27 15 13 00-0274	MLF	4 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,158.78	848.47	
27 15 13 00-0275	MLF	5 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,606.82	904.90	
27 15 13 00-0276	MLF	6 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,822.76	962.32	
27 15 13 00-0277	MLF	8 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,550.14	1,077.17	
27 15 13 00-0278	MLF	12 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,399.28	1,418.74	



Communications	27
Structured Cabling	27 10
Communications Horizontal Cabling	27 15

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0279 MLF 24 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,687.32	2,095.93
27 15 13 00-0280 MLF 1 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,279.43	673.23
27 15 13 00-0281 MLF 2 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,547.21	697.98
27 15 13 00-0282 MLF 3 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,768.20	722.73
27 15 13 00-0283 MLF 4 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,876.07	746.50
27 15 13 00-0284 MLF 5 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,258.56	796.99
27 15 13 00-0285 MLF 6 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,542.85	847.49
27 15 13 00-0286 MLF 8 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,873.49	947.48
27 15 13 00-0287 MLF 12 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,709.57	1,248.46
27 15 13 00-0288 MLF 24 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,946.85	1,844.46
27 15 13 00-0289 MLF 1 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,128.00	612.84
27 15 13 00-0290 MLF 2 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,297.24	634.62
27 15 13 00-0291 MLF 3 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,461.18	656.40
27 15 13 00-0292 MLF 4 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,563.59	679.17
27 15 13 00-0293 MLF 5 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,704.63	724.72
27 15 13 00-0294 MLF 6 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,864.13	770.26
27 15 13 00-0295 MLF 8 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,087.92	861.35
27 15 13 00-0296 MLF 12 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,886.58	1,135.59
27 15 13 00-0297 MLF 24 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,392.58	1,677.14
27 15 13 00-0298 MLF 25 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,639.10	1,716.75
27 15 13 00-0299 MLF 36 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,481.48	1,998.91
27 15 13 00-0300 MLF 40 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,910.10	2,139.50
27 15 13 00-0301 MLF 50 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	7,110.65	2,674.13
27 15 13 00-0302 MLF 100 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	9,623.32	3,520.62
27 15 13 00-0303 MLF 250 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	18,649.52	6,484.82
27 15 13 00-0304 MLF 500 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	28,302.78	8,581.75
27 15 13 00-0305 MLF 750 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	37,982.88	10,814.31
27 15 13 00-0306 MLF 1200 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	53,541.62	14,833.91
27 15 13 00-0307 MLF 1 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,089.36	612.84
27 15 13 00-0308 MLF 2 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,210.81	634.62
27 15 13 00-0309 MLF 3 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,328.89	656.40
27 15 13 00-0310 MLF 4 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,407.94	679.17
27 15 13 00-0311 MLF 5 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,525.63	724.72
27 15 13 00-0312 MLF 6 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,654.77	770.26
27 15 13 00-0313 MLF 8 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,852.86	861.35
27 15 13 00-0314 MLF 12 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,528.21	1,135.59
27 15 13 00-0315 MLF 24 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,816.90	1,677.14
27 15 13 00-0316 MLF 25 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,998.50	1,716.75
27 15 13 00-0317 MLF 36 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,725.16	1,998.91
27 15 13 00-0318 MLF 40 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,065.52	2,139.50
27 15 13 00-0319 MLF 50 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,154.18	2,674.13
27 15 13 00-0320 MLF 100 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	8,269.84	3,520.62

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0321 MLF 250 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	15,785.19	6,484.82
27 15 13 00-0322 MLF 500 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	23,245.76	8,581.75
27 15 13 00-0323 MLF 750 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	30,774.65	10,814.31
27 15 13 00-0324 MLF 1200 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	43,135.21	14,833.91
27 15 13 00-0325 Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <small>(27 15 13 00-0001)</small>		
27 15 13 00-0326 MLF 1 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,557.07	765.30
27 15 13 00-0327 MLF 2 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,825.40	793.03
27 15 13 00-0328 MLF 3 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,987.18	820.75
27 15 13 00-0329 MLF 4 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,208.07	848.47
27 15 13 00-0330 MLF 5 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,459.09	904.90
27 15 13 00-0331 MLF 6 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,708.13	962.32
27 15 13 00-0332 MLF 8 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,306.03	1,077.17
27 15 13 00-0333 MLF 12 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,283.12	1,418.74
27 15 13 00-0334 MLF 24 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,399.77	2,095.93
27 15 13 00-0335 MLF 1 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,361.49	673.23
27 15 13 00-0336 MLF 2 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,591.44	697.98
27 15 13 00-0337 MLF 3 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,730.84	722.73
27 15 13 00-0338 MLF 4 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,919.65	746.50
27 15 13 00-0339 MLF 5 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,135.52	796.99
27 15 13 00-0340 MLF 6 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,350.42	847.49
27 15 13 00-0341 MLF 8 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,863.54	947.48
27 15 13 00-0342 MLF 12 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,711.30	1,248.46
27 15 13 00-0343 MLF 24 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,544.11	1,844.46
27 15 13 00-0344 MLF 1 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,189.28	612.84
27 15 13 00-0345 MLF 2 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,386.71	634.62
27 15 13 00-0346 MLF 3 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,522.15	656.40
27 15 13 00-0347 MLF 4 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,775.55	679.17
27 15 13 00-0348 MLF 5 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,986.64	724.72
27 15 13 00-0349 MLF 6 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,411.36	770.26
27 15 13 00-0350 MLF 8 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,694.80	861.35
27 15 13 00-0351 MLF 12 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,383.68	1,135.59
27 15 13 00-0352 MLF 24 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,119.62	1,677.14
27 15 13 00-0353 MLF 25 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,446.77	1,716.75
27 15 13 00-0354 MLF 36 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,499.95	1,998.91
27 15 13 00-0355 MLF 40 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,974.94	2,139.50
27 15 13 00-0356 MLF 50 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,316.54	2,674.13
27 15 13 00-0357 MLF 100 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	11,329.79	3,520.62
27 15 13 00-0358 MLF 250 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	22,261.41	6,484.82
27 15 13 00-0359 MLF 500 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	34,679.42	8,581.75
27 15 13 00-0360 MLF 750 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	47,071.10	10,814.31
27 15 13 00-0361 MLF 1200 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	66,662.36	14,832.92



Communications	27
Structured Cabling	27 10
Communications Horizontal Cabling	27 15

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0362 MLF 1 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,128.55	612.84
27 15 13 00-0363 MLF 2 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,268.04	634.62
27 15 13 00-0364 MLF 3 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,367.89	656.40
27 15 13 00-0365 MLF 4 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,543.53	679.17
27 15 13 00-0366 MLF 5 Pair #22 AWG, Solid, Low Voltage, Plenum Rated, Non-Shielded, Installed In Conduit.....	1,706.03	724.72
27 15 13 00-0367 MLF 6 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,004.83	770.26
27 15 13 00-0368 MLF 8 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,241.08	861.35
27 15 13 00-0369 MLF 12 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,846.19	1,135.59
27 15 13 00-0370 MLF 24 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,281.97	1,677.14
27 15 13 00-0371 MLF 25 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,515.14	1,716.75
27 15 13 00-0372 MLF 36 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,358.28	1,998.91
27 15 13 00-0373 MLF 40 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,746.68	2,139.50
27 15 13 00-0374 MLF 50 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,925.57	2,674.13
27 15 13 00-0375 MLF 100 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	9,361.42	3,520.62
27 15 13 00-0376 MLF 250 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	18,095.45	6,484.82
27 15 13 00-0377 MLF 500 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	27,324.72	8,581.75
27 15 13 00-0378 MLF 750 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	36,588.49	10,814.31
27 15 13 00-0379 MLF 1200 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	51,529.11	14,833.91
27 15 13 00-0380 Copper Telecommunications Cable <small>(27 15 13)</small>		
27 15 13 00-0381 Indoor Telecommunications Cable <small>(27 15 13 00-0380)</small>		
Note: Shielded twisted pair cables (STP) includes a metallic foil wrap. Un-shielded twisted pair cables (UTP) excludes any shielding.		
27 15 13 00-0382 Category 3, Indoor Telecommunications Cable <small>(27 15 13 00-0381)</small>		
Note: Un-shielded twisted pair cables (UTP).		
27 15 13 00-0383 Category 3, Indoor Telecommunications Riser Cable <small>(27 15 13 00-0382)</small>		
27 15 13 00-0384 24 AWG, Category 3, Indoor Telecommunications Riser Cable <small>(27 15 13 00-0383)</small>		
27 15 13 00-0385 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit <small>(27 15 13 00-0384)</small>		
27 15 13 00-0386 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	858.42	455.18
27 15 13 00-0387 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	901.01	455.18
27 15 13 00-0388 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	916.06	455.18
27 15 13 00-0389 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,109.18	520.20
27 15 13 00-0390 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,422.70	520.20
27 15 13 00-0391 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,920.51	520.20
27 15 13 00-0392 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	3,078.48	650.25
27 15 13 00-0393 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	5,579.94	1,040.39
27 15 13 00-0394 MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	7,577.27	1,170.44
27 15 13 00-0395 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	10,090.93	1,300.49
27 15 13 00-0396 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	14,766.82	1,820.68
27 15 13 00-0397 MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	19,367.41	2,249.84
27 15 13 00-0398 MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	30,730.42	3,121.18
27 15 13 00-0399 MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	49,806.50	6,242.35
27 15 13 00-0400 MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	67,633.87	9,363.52
27 15 13 00-0401 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed <small>(27 15 13 00-0384)</small>		
27 15 13 00-0402 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,617.04	910.34
<i>For Work In Restricted Working Space, Add</i>		
	455.17	
27 15 13 00-0403 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,659.63	910.34
<i>For Work In Restricted Working Space, Add</i>		
	455.17	
27 15 13 00-0404 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,674.68	910.34
<i>For Work In Restricted Working Space, Add</i>		
	455.17	
27 15 13 00-0405 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	1,759.43	910.34
<i>For Work In Restricted Working Space, Add</i>		
	455.17	
27 15 13 00-0406 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,072.95	910.34
<i>For Work In Restricted Working Space, Add</i>		
	455.17	
27 15 13 00-0407 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,787.51	1,040.39
<i>For Work In Restricted Working Space, Add</i>		
	520.20	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0408 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	4,162.22 650.24	1,300.49
27 15 13 00-0409 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	6,446.93 780.29	1,560.59
27 15 13 00-0410 MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	8,552.64 877.83	1,755.66
27 15 13 00-0411 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	11,174.68 975.37	1,950.73
27 15 13 00-0412 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	16,284.06 1,365.51	2,731.03
27 15 13 00-0413 MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	21,253.12 1,690.64	3,381.27
27 15 13 00-0414 MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	33,331.40 2,340.88	4,681.76
27 15 13 00-0415 MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	55,008.46 4,681.76	9,363.52
27 15 13 00-0416 MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	75,436.82 7,022.65	14,045.29
27 15 13 00-0417 22 AWG, Category 3, Indoor Telecommunications Riser Cable (27 15 13 00-0383)		
27 15 13 00-0418 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0417)		
27 15 13 00-0419 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	3,160.45	520.20
27 15 13 00-0420 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	4,724.30	650.25
27 15 13 00-0421 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	8,647.92	1,040.39
27 15 13 00-0422 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	15,434.74	1,300.49
27 15 13 00-0423 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	22,713.88	1,820.68
27 15 13 00-0424 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	29,603.04	2,249.84
27 15 13 00-0425 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	43,920.56	3,121.18
27 15 13 00-0426 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0417)		
27 15 13 00-0427 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	4,027.45 520.20	1,040.39
27 15 13 00-0428 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	5,808.04 650.24	1,300.49
27 15 13 00-0429 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	9,514.91 780.29	1,560.59
27 15 13 00-0430 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	16,518.49 975.37	1,950.73
27 15 13 00-0431 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	24,231.12 1,365.51	2,731.03
27 15 13 00-0432 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	31,488.75 1,690.64	3,381.27
27 15 13 00-0433 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	46,521.54 2,340.88	4,681.76
27 15 13 00-0434 Category 3, Indoor Telecommunications Plenum Cable (27 15 13 00-0382)		
27 15 13 00-0435 24 AWG, Category 3, Indoor Telecommunications Plenum Cable (27 15 13 00-0434)		
27 15 13 00-0436 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 15 13 00-0435)		
27 15 13 00-0437 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	892.86	455.18
27 15 13 00-0438 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	935.28	455.18
27 15 13 00-0439 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	967.01	455.18
27 15 13 00-0440 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,166.38	520.20
27 15 13 00-0441 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,508.14	520.20
27 15 13 00-0442 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	2,434.53	520.20
27 15 13 00-0443 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	4,125.00	650.25
27 15 13 00-0444 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	7,772.66	1,040.39
27 15 13 00-0445 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	13,527.05	1,300.49
27 15 13 00-0446 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	20,289.17	1,820.68
27 15 13 00-0447 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed (27 15 13 00-0435)		
27 15 13 00-0448 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,651.48 455.17	910.34
27 15 13 00-0449 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,693.90 455.17	910.34
27 15 13 00-0450 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,725.63 455.17	910.34
27 15 13 00-0451 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,816.63 455.17	910.34
27 15 13 00-0452 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,158.39 455.17	910.34



Communications	27	27
Structured Cabling	27 10	
Communications Horizontal Cabling	27 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0453 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,301.53 520.20	1,040.39
27 15 13 00-0454 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	5,208.74 650.24	1,300.49
27 15 13 00-0455 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	8,639.65 780.29	1,560.59
27 15 13 00-0456 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	14,610.80 975.37	1,950.73
27 15 13 00-0457 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	21,806.41 1,365.51	2,731.03
27 15 13 00-0458 Category 5E, Indoor Telecommunications Cable <small>(27 15 13 00-0381)</small>		
27 15 13 00-0459 Category 5E, Indoor Telecommunications Riser Cable <small>(27 15 13 00-0458)</small>		
27 15 13 00-0460 Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit <small>(27 15 13 00-0459)</small>		
27 15 13 00-0461 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	992.49	455.18
27 15 13 00-0462 MLF 4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,047.27	455.18
27 15 13 00-0463 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,156.69	520.20
27 15 13 00-0464 MLF 4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,211.45	520.20
27 15 13 00-0465 Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed <small>(27 15 13 00-0459)</small>		
27 15 13 00-0466 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,751.11 455.17	910.34
27 15 13 00-0467 MLF 4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,805.89 455.17	910.34
27 15 13 00-0468 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,023.69 520.20	1,040.39
27 15 13 00-0469 MLF 4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,078.45 520.20	1,040.39
27 15 13 00-0470 Category 5E, Indoor Telecommunications Plenum Cable <small>(27 15 13 00-0458)</small>		
27 15 13 00-0471 Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit <small>(27 15 13 00-0470)</small>		
27 15 13 00-0472 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,193.93	455.18
27 15 13 00-0473 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,730.32	520.20
27 15 13 00-0474 Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed <small>(27 15 13 00-0470)</small>		
27 15 13 00-0475 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,952.55 455.17	910.34
27 15 13 00-0476 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,597.32 520.20	1,040.39
27 15 13 00-0477 Category 6, Indoor Telecommunications Cable <small>(27 15 13 00-0381)</small>		
27 15 13 00-0478 Category 6, Indoor Telecommunications Riser Cable <small>(27 15 13 00-0477)</small>		
27 15 13 00-0479 Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit <small>(27 15 13 00-0478)</small>		
27 15 13 00-0480 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,461.07	455.18
27 15 13 00-0481 MLF 4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,539.61	455.18
27 15 13 00-0482 Category 6, Indoor Telecommunications Riser Cable, Installed Exposed <small>(27 15 13 00-0478)</small>		
27 15 13 00-0483 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,219.69 455.17	910.34
27 15 13 00-0484 MLF 4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,298.23 455.17	910.34
27 15 13 00-0485 Category 6, Indoor Telecommunications Plenum Cable <small>(27 15 13 00-0477)</small>		
27 15 13 00-0486 Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit <small>(27 15 13 00-0485)</small>		
27 15 13 00-0487 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	2,187.76	455.18
27 15 13 00-0488 Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed <small>(27 15 13 00-0485)</small>		
27 15 13 00-0489 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,946.38 455.17	910.34
27 15 13 00-0490 Category 6a, Indoor Telecommunications Cable <small>(27 15 13 00-0381)</small>		
27 15 13 00-0491 Category 6a, Indoor Telecommunications Riser Cable <small>(27 15 13 00-0490)</small>		

27 Communications
27 10 Structured Cabling
27 15 Communications Horizontal Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0492 Category 6a Indoor Telecommunications Riser Cable, Installed In Conduit ^(27 15 13 00-0491)		
27 15 13 00-0493 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,586.56	455.18
27 15 13 00-0494 Category 6a, Indoor Telecommunications Riser Cable, Installed Exposed ^(27 15 13 00-0491)		
27 15 13 00-0495 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,345.18 455.17	910.34
27 15 13 00-0496 Category 6a, Indoor Telecommunications Plenum Cable ^(27 15 13 00-0496)		
27 15 13 00-0497 Category 6a, Indoor Telecommunications Plenum Cable, Installed In Conduit ^(27 15 13 00-0496)		
27 15 13 00-0498 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	2,559.20	455.18
27 15 13 00-0499 Category 6a, Indoor Telecommunications Plenum Cable, Installed Exposed ^(27 15 13 00-0496)		
27 15 13 00-0500 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,317.82 455.17	910.34
27 15 13 00-0501 Category 7, Indoor Telecommunications Cable ^(27 15 13 00-0381)		
27 15 13 00-0502 Category 7, Indoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0501)		
27 15 13 00-0503 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed In Conduit.....	4,058.75	520.20
27 15 13 00-0504 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	8,658.26	520.20
27 15 13 00-0505 Category 7, Indoor Telecommunications Cable, Installed Exposed ^(27 15 13 00-0501)		
27 15 13 00-0506 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	4,925.75 520.20	1,040.39
27 15 13 00-0507 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	9,525.26 520.20	1,040.39
27 15 13 00-0508 Outdoor Telecommunications Cable ^(27 15 13 00-0380)		
Note: Cable buried in trench excludes excavation.		
27 15 13 00-0509 PE-89 Outdoor Telecommunications Cable ^(27 15 13 00-0508)		
Note: Includes foam-skin polyolefin insulated conductors.		
27 15 13 00-0510 24 AWG, PE-89 Outdoor Telecommunications Cable ^(27 15 13 00-0509)		
27 15 13 00-0511 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0510)		
27 15 13 00-0512 MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	1,517.97	520.20
27 15 13 00-0513 MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	1,793.31	910.34
27 15 13 00-0514 MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	2,494.83	585.22
27 15 13 00-0515 MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	3,733.17	650.25
27 15 13 00-0516 MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	5,289.79	910.34
27 15 13 00-0517 MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	6,632.27	1,040.39
27 15 13 00-0518 MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	11,245.54	1,170.44
27 15 13 00-0519 MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	16,524.42	1,690.64
27 15 13 00-0520 MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	21,888.86	2,210.84
27 15 13 00-0521 MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	29,724.57	2,991.12
27 15 13 00-0522 MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	47,233.62	5,982.25
27 15 13 00-0523 MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	64,714.19	8,843.32
27 15 13 00-0524 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench ^(27 15 13 00-0510)		
27 15 13 00-0525 MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	1,355.41	
27 15 13 00-0526 MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	1,630.75	
27 15 13 00-0527 MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	2,278.08	
27 15 13 00-0528 MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	3,516.42	
27 15 13 00-0529 MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	4,964.67	
27 15 13 00-0530 MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	6,090.40	
27 15 13 00-0531 MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	11,028.80	
27 15 13 00-0532 MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	15,874.17	
27 15 13 00-0533 MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	20,534.18	
27 15 13 00-0534 MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	27,340.35	
27 15 13 00-0535 MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	40,731.17	
27 15 13 00-0536 MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	55,177.26	
27 15 13 00-0537 22 AWG, PE-89 Outdoor Telecommunications Cable ^(27 15 13 00-0509)		
27 15 13 00-0538 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0537)		
27 15 13 00-0539 MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	1,693.01	520.20
27 15 13 00-0540 MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	2,120.34	520.20



Communications	27	27
Structured Cabling	27 10	
Communications Horizontal Cabling	27 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0541 MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	3,164.24	585.22
27 15 13 00-0542 MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	4,924.65	650.25
27 15 13 00-0543 MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	7,151.74	910.34
27 15 13 00-0544 MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	9,163.55	1,040.39
27 15 13 00-0545 MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	16,128.74	1,170.44
27 15 13 00-0546 MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	23,488.84	1,690.64
27 15 13 00-0547 MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	31,277.50	2,210.84
27 15 13 00-0548 MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	46,120.10	2,991.12
27 15 13 00-0549 MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	67,939.81	5,982.25
27 15 13 00-0550 MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	95,692.55	8,843.32
27 15 13 00-0551 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0537)		
27 15 13 00-0552 MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	1,530.45	
27 15 13 00-0553 MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	1,957.78	
27 15 13 00-0554 MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	2,947.49	
27 15 13 00-0555 MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	4,707.90	
27 15 13 00-0556 MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	6,826.62	
27 15 13 00-0557 MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	8,838.42	
27 15 13 00-0558 MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	15,912.00	
27 15 13 00-0559 MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	22,838.59	
27 15 13 00-0560 MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	29,922.82	
27 15 13 00-0561 MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	43,735.88	
27 15 13 00-0562 MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	61,437.36	
27 15 13 00-0563 MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	86,155.62	
27 15 13 00-0564 19 AWG, PE-89 Outdoor Telecommunications Cable (27 15 13 00-0509)		
27 15 13 00-0565 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0564)		
27 15 13 00-0566 MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	5,227.91	585.22
27 15 13 00-0567 MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	8,958.45	650.25
27 15 13 00-0568 MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	14,327.14	910.34
27 15 13 00-0569 MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	17,153.35	1,040.39
27 15 13 00-0570 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0564)		
27 15 13 00-0571 MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	5,011.16	
27 15 13 00-0572 MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	8,741.70	
27 15 13 00-0573 MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	14,002.02	
27 15 13 00-0574 MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	16,828.22	
27 15 13 00-0575 PE-39 Outdoor Telecommunications Cable (27 15 13 00-0508)		
Note: Includes solid polyolefin insulated conductors.		
27 15 13 00-0576 24 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0575)		
27 15 13 00-0577 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0576)		
27 15 13 00-0578 MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,192.83	910.34
27 15 13 00-0579 MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,529.68	910.34
27 15 13 00-0580 MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	3,209.27	910.34
27 15 13 00-0581 MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	4,433.07	910.34
27 15 13 00-0582 MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	6,915.13	910.34
27 15 13 00-0583 MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	12,388.13	1,170.44
27 15 13 00-0584 MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	18,082.96	1,690.64
27 15 13 00-0585 MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	23,787.92	2,210.84
27 15 13 00-0586 MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	32,497.35	2,991.12
27 15 13 00-0587 MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	50,819.51	5,982.25
27 15 13 00-0588 MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	74,014.53	8,843.32
27 15 13 00-0589 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0578)		
27 15 13 00-0590 MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	1,867.71	
27 15 13 00-0591 MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	2,204.56	
27 15 13 00-0592 MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	2,884.15	
27 15 13 00-0593 MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	4,107.95	
27 15 13 00-0594 MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	6,590.01	
27 15 13 00-0595 MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	12,171.39	
27 15 13 00-0596 MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	17,432.71	
27 15 13 00-0597 MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	22,433.24	
27 15 13 00-0598 MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	30,113.13	
27 15 13 00-0599 MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	44,317.06	
27 15 13 00-0600 MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	64,477.60	
27 15 13 00-0601 22 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0575)		
27 15 13 00-0602 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0601)		

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0603 MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,387.57	910.34
27 15 13 00-0604 MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,882.56	910.34
27 15 13 00-0605 MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	3,935.93	910.34
27 15 13 00-0606 MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	5,873.75	910.34
27 15 13 00-0607 MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	9,917.73	910.34
27 15 13 00-0608 MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	18,166.56	1,170.44
27 15 13 00-0609 MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	26,612.65	1,690.64
27 15 13 00-0610 MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	34,104.41	2,210.84
27 15 13 00-0611 MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	47,613.38	2,991.12
27 15 13 00-0612 MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	75,295.86	5,982.25
27 15 13 00-0613 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0601)		
27 15 13 00-0614 MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	2,062.45	
27 15 13 00-0615 MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	2,557.44	
27 15 13 00-0616 MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	3,610.81	
27 15 13 00-0617 MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	5,548.63	
27 15 13 00-0618 MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	9,592.61	
27 15 13 00-0619 MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	17,949.82	
27 15 13 00-0620 MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	25,962.40	
27 15 13 00-0621 MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	32,749.73	
27 15 13 00-0622 MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	45,229.16	
27 15 13 00-0623 MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	68,793.41	
27 15 13 00-0624 19 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0575)		
27 15 13 00-0625 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0624)		
27 15 13 00-0626 MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	6,269.38	910.34
27 15 13 00-0627 MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	10,199.54	910.34
27 15 13 00-0628 MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	18,349.29	910.34
27 15 13 00-0629 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0624)		
27 15 13 00-0630 MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	5,944.26	
27 15 13 00-0631 MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	9,874.42	
27 15 13 00-0632 MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	18,024.17	
27 15 13 00-0633 (Aerial) Outdoor Telecommunications Cable (27 15 13 00-0508)		
Note: Includes support wire.		
27 15 13 00-0634 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27 15 13 00-0633)		
27 15 13 00-0635 MLF 6-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	6,674.01	1,887.19
27 15 13 00-0636 MLF 12-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	6,954.29	1,887.19
27 15 13 00-0637 MLF 25-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	7,650.17	1,887.19
27 15 13 00-0638 MLF 50-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,938.57	1,887.19
27 15 13 00-0639 MLF 100-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	11,427.09	1,887.19
27 15 13 00-0640 MLF 200-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	16,829.99	2,075.90
27 15 13 00-0641 MLF 300-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	22,263.67	2,264.63
27 15 13 00-0642 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27 15 13 00-0633)		
27 15 13 00-0643 MLF 6-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	7,009.33	1,887.19
27 15 13 00-0644 MLF 12-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	7,423.43	1,887.19
27 15 13 00-0645 MLF 25-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,420.82	1,887.19
27 15 13 00-0646 MLF 50-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	10,391.25	1,887.19
27 15 13 00-0647 MLF 100-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	14,892.79	1,887.19
27 15 13 00-0648 MLF 200-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	22,929.12	2,075.90
27 15 13 00-0649 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27 15 13 00-0633)		
27 15 13 00-0650 MLF 6-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	7,452.66	1,887.19
27 15 13 00-0651 MLF 12-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,389.12	1,887.19
27 15 13 00-0652 MLF 25-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	10,230.35	1,887.19
27 15 13 00-0653 MLF 50-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	13,912.83	1,887.19
27 15 13 00-0654 MLF 100-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	21,477.25	1,887.19
27 15 13 00-0655 Sound System Cables (27 15 13)		
Note: Cables shall be type CL2 or CM and as manufactured by West Penn Wire, Belden or approved equal.		
27 15 13 00-0656 Speaker/Communications And Control Cable, Installed Exposed (27 15 13 00-0655)		
27 15 13 00-0657 Non-Plenum Rated Speaker/Communications And Control Cable, Installed Exposed (27 15 13 00-0656)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0658 MLF 2 Conductor, #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,706.53 415.82	693.04
<i>For Work In Restricted Working Space, Add</i>	415.82	
27 15 13 00-0659 MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,598.44 415.82	693.04
<i>For Work In Restricted Working Space, Add</i>	415.82	
27 15 13 00-0660 MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,515.07 415.82	693.04
<i>For Work In Restricted Working Space, Add</i>	415.82	
27 15 13 00-0661 MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,606.24 415.82	693.04
<i>For Work In Restricted Working Space, Add</i>	415.82	
27 15 13 00-0662 MLF 4 Conductor, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,899.28 415.82	693.04
<i>For Work In Restricted Working Space, Add</i>	415.82	
27 15 13 00-0663 MLF 6 Conductor, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,191.34 415.82	693.04
<i>For Work In Restricted Working Space, Add</i>	415.82	
27 15 13 00-0664 MLF 4 Conductor, #20 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,900.51 415.82	693.04
<i>For Work In Restricted Working Space, Add</i>	415.82	
27 15 13 00-0665 MLF 4 Conductor, #22 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,759.80 415.82	693.04
<i>For Work In Restricted Working Space, Add</i>	415.82	
27 15 13 00-0666 Plenum Rated Speaker/Communications And Control Cable, Installed Exposed <small>(27 15 13 00-0666)</small>		
27 15 13 00-0667 MLF 2 Conductor, #16 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,751.19 415.82	693.04
<i>For Work In Restricted Working Space, Add</i>	415.82	
27 15 13 00-0668 MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,626.85 415.82	693.04
<i>For Work In Restricted Working Space, Add</i>	415.82	
27 15 13 00-0669 MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,556.47 415.82	693.04
<i>For Work In Restricted Working Space, Add</i>	415.82	
27 15 13 00-0670 MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,673.90 415.82	693.04
<i>For Work In Restricted Working Space, Add</i>	415.82	
27 15 13 00-0671 MLF 8 Conductors, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,922.01 415.82	693.04
<i>For Work In Restricted Working Space, Add</i>	415.82	
27 15 13 00-0672 MLF 2 Conductors, #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,894.64 415.82	693.04
<i>For Work In Restricted Working Space, Add</i>	415.82	
27 15 13 00-0673 MLF 2 Conductors, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,722.65 415.82	693.04
<i>For Work In Restricted Working Space, Add</i>	415.82	
27 15 13 00-0674 MLF 4 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,015.00 415.82	693.04
<i>For Work In Restricted Working Space, Add</i>	415.82	
27 15 13 00-0675 MLF 6 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,306.55 415.82	693.04
<i>For Work In Restricted Working Space, Add</i>	415.82	
27 15 13 00-0676 MLF 2 Conductor, #22 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,591.76 415.82	693.04
<i>For Work In Restricted Working Space, Add</i>	415.82	
27 15 13 00-0677 MLF 2 Conductor, #20 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	1,649.85 415.82	693.04
<i>For Work In Restricted Working Space, Add</i>	415.82	
27 15 13 00-0678 Speaker/Communications And Control Cable, Installed In Conduit <small>(27 15 13 00-0678)</small>		
27 15 13 00-0679 Non-Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit <small>(27 15 13 00-0679)</small>		
27 15 13 00-0680 MLF 2 Conductors, #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,013.50	346.51
27 15 13 00-0681 MLF 2 Conductors, #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	905.41	346.51
27 15 13 00-0682 MLF 2 Conductors, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	822.04	346.51
27 15 13 00-0683 MLF 4 Conductors, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	913.21	346.51
27 15 13 00-0684 MLF 4 Conductors, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,206.25	346.51
27 15 13 00-0685 MLF 6 Conductors, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,498.31	346.51
27 15 13 00-0686 MLF 4 Conductors (2 Shielded, 2 Unshielded), #20 AWG, Stranded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit	1,207.48	346.51
27 15 13 00-0687 MLF 4 Conductors (2 Shielded, 2 Unshielded), #22 AWG, Stranded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit	1,066.77	346.51

27	Communications
27 10	Structured Cabling
27 15	Communications Horizontal Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0688 Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit <small>(27 15 13 00-0678)</small>		
27 15 13 00-0689 MLF 2 Conductor, #6 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,058.16	346.51
27 15 13 00-0690 MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	933.82	346.51
27 15 13 00-0691 MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	863.44	346.51
27 15 13 00-0692 MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	980.87	346.51
27 15 13 00-0693 MLF 8 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,228.98	346.51
27 15 13 00-0694 MLF 2 Conductor, #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,201.61	346.51
27 15 13 00-0695 MLF 2 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,029.62	346.51
27 15 13 00-0696 MLF 4 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,321.97	346.51
27 15 13 00-0697 MLF 6 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,613.52	346.51
27 15 13 00-0698 MLF 2 Conductor, #20 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit.....	956.82	346.51
27 15 13 00-0699 MLF 2 Conductor, #22 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit.....	898.73	346.51
27 15 23 Communications Optical Fiber Horizontal Cabling <small>(27 15)</small>		
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.		
27 15 23 00-0001 Indoor Fiber Optic Cable <small>(27 15 23)</small>		
Note: Distribution cables contain multiple tight-buffered fibers bundled under the same jacket with Kevlar strength members. Break-out cables contain multiple individually reinforced and jacketed simplex cables bundled together.		
27 15 23 00-0002 Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0001)</small>		
Note: Excludes conduit or innerduct.		
27 15 23 00-0003 Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0002)</small>		
27 15 23 00-0004 Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0003)</small>		
27 15 23 00-0005 Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0004)</small>		
27 15 23 00-0006 MLF 1-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	963.39	390.14
27 15 23 00-0007 MLF 2-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,057.76	390.14
27 15 23 00-0008 MLF 4-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,089.27	390.14
27 15 23 00-0009 MLF 6-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,201.49	390.14
<i>For Aluminum Armored Cable, Add</i>		1,228.66
<i>For Steel Armored Cable, Add</i>		3,123.02
27 15 23 00-0010 MLF 8-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,233.66	390.14
27 15 23 00-0011 MLF 12-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,428.14	390.14
<i>For Aluminum Armored Cable, Add</i>		1,350.79
<i>For Steel Armored Cable, Add</i>		3,412.91
27 15 23 00-0012 MLF 18-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,477.82	455.18
27 15 23 00-0013 MLF 24-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,516.68	455.18
<i>For Aluminum Armored Cable With Sub-Units, Add</i>		1,782.88
<i>For Steel Armored Cable, Add</i>		5,773.15
27 15 23 00-0014 MLF 36-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,306.23	455.18
<i>For Aluminum Armored Cable With Sub-Units, Add</i>		1,879.49
<i>For Steel Armored Cable, Add</i>		5,970.79
27 15 23 00-0015 MLF 48-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,459.36	455.18
<i>For Aluminum Armored Cable With Sub-Units, Add</i>		1,971.96
<i>For Steel Armored Cable, Add</i>		6,243.21
27 15 23 00-0016 MLF 60-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,425.02	455.18
27 15 23 00-0017 MLF 72-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,681.82	455.18
27 15 23 00-0018 MLF 96-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,032.59	455.18
27 15 23 00-0019 MLF 120-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,462.99	520.20
27 15 23 00-0020 MLF 144-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,304.99	520.20
27 15 23 00-0021 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0004)</small>		
27 15 23 00-0022 MLF 1-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	990.57	390.14
27 15 23 00-0023 MLF 2-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,160.49	390.14
27 15 23 00-0024 MLF 4-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,463.45	390.14



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0025	MLF 6-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		1,782.35	390.14
	<i>For Aluminum Armored Cable, Add</i>		795.86	
	<i>For Steel Armored Cable, Add</i>		1,090.93	
27 15 23 00-0026	MLF 8-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		2,085.30	390.14
27 15 23 00-0027	MLF 12-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		2,707.15	390.14
	<i>For Aluminum Armored Cable, Add</i>		669.26	
	<i>For Steel Armored Cable, Add</i>		1,053.72	
27 15 23 00-0028	MLF 18-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		2,974.98	455.18
27 15 23 00-0029	MLF 24-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		5,223.22	455.18
	<i>For Aluminum Armored Cable With Sub-Units, Add</i>		1,024.86	
	<i>For Steel Armored Cable, Add</i>		1,024.86	
27 15 23 00-0030	MLF 36-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		7,455.52	455.18
27 15 23 00-0031	MLF 48-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		9,687.82	455.18
	<i>For Aluminum Armored Cable With Sub-Units, Add</i>		1,828.89	
27 15 23 00-0032	MLF 60-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		11,920.12	455.18
27 15 23 00-0033	MLF 72-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		14,152.42	455.18
27 15 23 00-0034	MLF 96-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		18,632.96	455.18
	<i>For Aluminum Armored Cable With Sub-Units, Add</i>		7,876.83	
27 15 23 00-0035	MLF 120-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		23,205.93	520.20
27 15 23 00-0036	MLF 144-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		27,670.53	520.20
27 15 23 00-0037	62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0004)</small>			
27 15 23 00-0038	MLF 1-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		1,007.58	390.14
27 15 23 00-0039	MLF 2-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		1,186.00	390.14
27 15 23 00-0040	MLF 4-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		1,504.10	390.14
27 15 23 00-0041	MLF 6-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		1,838.95	390.14
27 15 23 00-0042	MLF 8-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		2,157.05	390.14
27 15 23 00-0043	MLF 12-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		2,810.00	390.14
27 15 23 00-0044	MLF 18-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		3,085.79	455.18
27 15 23 00-0045	MLF 24-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		5,446.45	455.18
27 15 23 00-0046	MLF 36-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		7,790.36	455.18
27 15 23 00-0047	MLF 48-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		10,134.28	455.18
27 15 23 00-0048	MLF 60-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		12,478.20	455.18
27 15 23 00-0049	MLF 72-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		14,822.11	455.18
27 15 23 00-0050	MLF 96-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		19,526.68	455.18
27 15 23 00-0051	MLF 120-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		24,322.88	520.20
27 15 23 00-0052	MLF 144-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		29,010.71	520.20
27 15 23 00-0053	Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0003)</small>			
27 15 23 00-0054	Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0053)</small>			
27 15 23 00-0055	MLF 2-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		1,838.06	390.14
27 15 23 00-0056	MLF 4-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		2,190.01	390.14
27 15 23 00-0057	MLF 6-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		2,964.31	390.14
27 15 23 00-0058	MLF 8-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		3,333.82	390.14
27 15 23 00-0059	MLF 12-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		5,851.24	390.14
27 15 23 00-0060	MLF 18-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		6,169.80	455.18
27 15 23 00-0061	MLF 24-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		7,791.70	455.18
27 15 23 00-0062	MLF 36-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		11,009.06	455.18
27 15 23 00-0063	MLF 48-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit		13,516.69	455.18

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0064 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0063)</small>		
27 15 23 00-0065 MLF 2-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,377.56	390.14
27 15 23 00-0066 MLF 4-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,922.17	390.14
27 15 23 00-0067 MLF 6-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,820.12	390.14
27 15 23 00-0068 MLF 8-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,154.71	390.14
27 15 23 00-0069 MLF 12-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,708.93	390.14
27 15 23 00-0070 MLF 18-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,656.43	455.18
27 15 23 00-0071 MLF 24-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,656.54	455.18
27 15 23 00-0072 MLF 36-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	11,024.01	455.18
27 15 23 00-0073 MLF 48-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	16,894.96	455.18
27 15 23 00-0074 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0053)</small>		
27 15 23 00-0075 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,463.92	390.14
27 15 23 00-0076 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,035.77	390.14
27 15 23 00-0077 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,978.61	390.14
27 15 23 00-0078 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,379.94	390.14
27 15 23 00-0079 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,961.86	390.14
27 15 23 00-0080 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,001.32	455.18
27 15 23 00-0081 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	10,101.43	455.18
27 15 23 00-0082 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	11,537.28	455.18
27 15 23 00-0083 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	17,701.78	455.18
27 15 23 00-0084 Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0002)</small>		
27 15 23 00-0085 Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0084)</small>		
27 15 23 00-0086 Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0085)</small>		
27 15 23 00-0087 MLF 1-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,018.65	390.14
27 15 23 00-0088 MLF 2-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,024.21	390.14
27 15 23 00-0089 MLF 4-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,316.06	390.14
27 15 23 00-0090 MLF 6-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,350.21	390.14
<i>For Aluminum Armored Cable, Add</i>	875.86	
<i>For Steel Armored Cable, Add</i>	5,287.11	
27 15 23 00-0091 MLF 8-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,522.12	390.14
27 15 23 00-0092 MLF 12-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,554.29	390.14
<i>For Aluminum Armored Cable, Add</i>	891.26	
<i>For Steel Armored Cable, Add</i>	5,651.38	
27 15 23 00-0093 MLF 18-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,705.82	455.18
27 15 23 00-0094 MLF 24-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,811.02	455.18
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,102.58	
<i>For Steel Armored Cable, Add</i>	5,452.20	
27 15 23 00-0095 MLF 36-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,736.36	455.18
27 15 23 00-0096 MLF 48-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,942.42	455.18
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,690.49	
<i>For Steel Armored Cable, Add</i>	6,490.98	
27 15 23 00-0097 MLF 60-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,619.38	455.18
27 15 23 00-0098 MLF 72-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	11,409.84	455.18
27 15 23 00-0099 MLF 96-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	15,130.77	455.18
27 15 23 00-0100 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0085)</small>		
27 15 23 00-0101 MLF 1-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	988.74	390.14
27 15 23 00-0102 MLF 2-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,424.10	390.14
27 15 23 00-0103 MLF 4-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,898.16	390.14



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0104 MLF 6-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,381.73	390.14
<i>For Aluminum Armored Cable, Add</i>	<i>199.28</i>	
<i>For Steel Armored Cable, Add</i>	<i>559.61</i>	
27 15 23 00-0105 MLF 8-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,845.08	390.14
27 15 23 00-0106 MLF 12-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,247.66	390.14
<i>For Aluminum Armored Cable, Add</i>	<i>104.19</i>	
<i>For Steel Armored Cable, Add</i>	<i>513.21</i>	
27 15 23 00-0107 MLF 18-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,148.41	455.18
27 15 23 00-0108 MLF 24-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,586.98	455.18
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	<i>2,028.51</i>	
<i>For Steel Armored Cable, Add</i>	<i>4,731.08</i>	
27 15 23 00-0109 MLF 36-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,001.16	455.18
27 15 23 00-0110 MLF 48-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	14,415.34	455.18
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	<i>6,023.59</i>	
27 15 23 00-0111 MLF 60-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	17,829.52	455.18
27 15 23 00-0112 MLF 72-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	21,243.70	455.18
27 15 23 00-0113 MLF 96-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	28,096.45	455.18
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	<i>12,047.18</i>	
27 15 23 00-0114 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0085)</small>		
27 15 23 00-0115 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,005.66	390.14
27 15 23 00-0116 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,462.79	390.14
27 15 23 00-0117 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,960.55	390.14
27 15 23 00-0118 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,468.30	390.14
27 15 23 00-0119 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,954.82	390.14
27 15 23 00-0120 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,377.53	390.14
27 15 23 00-0121 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,317.90	455.18
27 15 23 00-0122 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,928.40	455.18
27 15 23 00-0123 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,513.29	455.18
27 15 23 00-0124 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	15,098.18	455.18
27 15 23 00-0125 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	18,683.06	455.18
27 15 23 00-0126 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	22,267.95	455.18
27 15 23 00-0127 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	29,463.34	455.18
27 15 23 00-0128 Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0084)</small>		
27 15 23 00-0129 Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0128)</small>		
27 15 23 00-0130 MLF 2-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,914.42	390.14
27 15 23 00-0131 MLF 4-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,342.64	390.14
27 15 23 00-0132 MLF 6-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,372.08	390.14
27 15 23 00-0133 MLF 8-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,380.97	390.14
27 15 23 00-0134 MLF 12-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,991.14	390.14
27 15 23 00-0135 MLF 18-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,979.61	455.18
27 15 23 00-0136 MLF 24-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	14,413.59	455.18
27 15 23 00-0137 MLF 36-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	17,446.77	455.18
27 15 23 00-0138 MLF 48-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	21,781.59	455.18
27 15 23 00-0139 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0128)</small>		
27 15 23 00-0140 MLF 2-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,024.52	390.14
27 15 23 00-0141 MLF 4-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,301.94	390.14

27 Communications
27 10 Structured Cabling
27 15 Communications Horizontal Cabling



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0142	MLF	6-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,582.07	390.14
27 15 23 00-0143	MLF	8-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,744.16	390.14
27 15 23 00-0144	MLF	12-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,546.92	390.14
27 15 23 00-0145	MLF	18-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	15,829.79	455.18
27 15 23 00-0146	MLF	24-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	18,618.22	455.18
27 15 23 00-0147	MLF	36-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	20,554.26	455.18
27 15 23 00-0148	MLF	48-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	32,949.46	455.18
27 15 23 00-0149		62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0128)</small>		
27 15 23 00-0150	MLF	2-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,243.24	390.14
27 15 23 00-0151	MLF	4-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,584.52	390.14
27 15 23 00-0152	MLF	6-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,978.66	390.14
27 15 23 00-0153	MLF	8-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,198.86	390.14
27 15 23 00-0154	MLF	12-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	12,091.76	390.14
27 15 23 00-0155	MLF	18-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	16,583.34	455.18
27 15 23 00-0156	MLF	24-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	19,511.20	455.18
27 15 23 00-0157	MLF	36-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	21,544.04	455.18
27 15 23 00-0158	MLF	48-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	34,559.00	455.18
27 15 23 00-0159		Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0001)</small>		
		Note: For non-conduit installations such as cable trays, surface runways, etc.		
27 15 23 00-0160		Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0159)</small>		
27 15 23 00-0161		Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0160)</small>		
27 15 23 00-0162		Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0161)</small>		
27 15 23 00-0163	MLF	1-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,180.13	520.20
		<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0164	MLF	2-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,274.50	520.20
		<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0165	MLF	4-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,306.01	520.20
		<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0166	MLF	6-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,418.23	520.20
		<i>For Aluminum Armored Cable, Add</i>	1,228.66	
		<i>For Steel Armored Cable, Add</i>	3,123.02	
		<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0167	MLF	8-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,450.40	520.20
		<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0168	MLF	12-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,644.88	520.20
		<i>For Aluminum Armored Cable, Add</i>	1,350.79	
		<i>For Steel Armored Cable, Add</i>	3,412.91	
		<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0169	MLF	18-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,694.57	585.22
		<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0170	MLF	24-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,733.43	585.22
		<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,782.88	
		<i>For Steel Armored Cable, Add</i>	5,773.15	
		<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0171	MLF	36-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,522.98	585.22
		<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,879.49	
		<i>For Steel Armored Cable, Add</i>	5,970.79	
		<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0172	MLF	48-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,676.11	585.22
		<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,971.96	
		<i>For Steel Armored Cable, Add</i>	6,243.21	
		<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0173	MLF	60-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,641.77	585.22
		<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0174	MLF	72-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,898.57	585.22
		<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0175	MLF	96-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,249.34	585.22
		<i>For Work In Restricted Working Space, Add</i>	292.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0176 MLF 120-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,679.74 325.12	650.25
27 15 23 00-0177 MLF 144-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	11,521.74 325.12	650.25
27 15 23 00-0178 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0161)</small>		
27 15 23 00-0179 MLF 1-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,207.31 260.10	520.20
27 15 23 00-0180 MLF 2-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,377.23 260.10	520.20
27 15 23 00-0181 MLF 4-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,680.19 260.10	520.20
27 15 23 00-0182 MLF 6-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,999.09 795.86 1,090.93 260.10	520.20
27 15 23 00-0183 MLF 8-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,302.04 260.10	520.20
27 15 23 00-0184 MLF 12-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,923.89 669.26 1,053.72 260.10	520.20
27 15 23 00-0185 MLF 18-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,191.73 292.61	585.22
27 15 23 00-0186 MLF 24-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,439.97 1,024.86 1,024.86 292.61	585.22
27 15 23 00-0187 MLF 36-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	7,672.27 292.61	585.22
27 15 23 00-0188 MLF 48-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Work In Restricted Working Space, Add</i>	9,904.57 1,828.89 292.61	585.22
27 15 23 00-0189 MLF 60-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	12,136.87 292.61	585.22
27 15 23 00-0190 MLF 72-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	14,369.17 292.61	585.22
27 15 23 00-0191 MLF 96-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Work In Restricted Working Space, Add</i>	18,849.71 7,876.83 292.61	585.22
27 15 23 00-0192 MLF 120-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	23,422.68 325.12	650.25
27 15 23 00-0193 MLF 144-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	27,887.28 325.12	650.25
27 15 23 00-0194 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0161)</small>		
27 15 23 00-0195 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,224.32 260.10	520.20
27 15 23 00-0196 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,402.74 260.10	520.20
27 15 23 00-0197 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,720.84 260.10	520.20
27 15 23 00-0198 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,055.69 260.10	520.20
27 15 23 00-0199 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,373.79 260.10	520.20
27 15 23 00-0200 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,026.74 260.10	520.20
27 15 23 00-0201 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,302.54 292.61	585.22
27 15 23 00-0202 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,663.20 292.61	585.22
27 15 23 00-0203 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	8,007.11 292.61	585.22
27 15 23 00-0204 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	10,351.03 292.61	585.22

27 Communications
27 10 Structured Cabling
 27 15 Communications Horizontal Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0205 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	12,694.95	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0206 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	15,038.86	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0207 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	19,743.43	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0208 MLF 120-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	24,539.63	650.25
<i>For Work In Restricted Working Space, Add</i>	325.12	
27 15 23 00-0209 MLF 144-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	29,227.46	650.25
<i>For Work In Restricted Working Space, Add</i>	325.12	
27 15 23 00-0210 Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0160)</small>		
27 15 23 00-0211 Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0210)</small>		
27 15 23 00-0212 MLF 2-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,054.80	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0213 MLF 4-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,406.75	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0214 MLF 6-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,181.05	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0215 MLF 8-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,550.56	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0216 MLF 12-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,067.98	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0217 MLF 18-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,386.55	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0218 MLF 24-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,008.45	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0219 MLF 36-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	11,225.81	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0220 MLF 48-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	13,733.44	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0221 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0210)</small>		
27 15 23 00-0222 MLF 2-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,594.30	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0223 MLF 4-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,138.91	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0224 MLF 6-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,036.86	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0225 MLF 8-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,371.45	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0226 MLF 12-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,925.67	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0227 MLF 18-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,873.18	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0228 MLF 24-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,873.29	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0229 MLF 36-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	11,240.76	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0230 MLF 48-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	17,111.71	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0231 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0210)</small>		
27 15 23 00-0232 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,680.66	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0233 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,252.51	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0234 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,195.35	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0235 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,596.68	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0236 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,178.60	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0237 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,218.07	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0238 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	10,318.18	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0239 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	11,754.03 292.61	585.22
27 15 23 00-0240 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	17,918.53 292.61	585.22
27 15 23 00-0241 Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0159)</small>		
27 15 23 00-0242 Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0241)</small>		
27 15 23 00-0243 Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0242)</small>		
27 15 23 00-0244 MLF 1-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,235.39 260.10	520.20
27 15 23 00-0245 MLF 2-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,240.95 260.10	520.20
27 15 23 00-0246 MLF 4-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,532.80 260.10	520.20
27 15 23 00-0247 MLF 6-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,566.95 875.86 5,287.11 260.10	520.20
27 15 23 00-0248 MLF 8-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,738.86 260.10	520.20
27 15 23 00-0249 MLF 12-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,771.03 891.26 5,651.38 260.10	520.20
27 15 23 00-0250 MLF 18-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,922.57 292.61	585.22
27 15 23 00-0251 MLF 24-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,027.77 1,102.58 5,452.20 292.61	585.22
27 15 23 00-0252 MLF 36-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	7,953.11 292.61	585.22
27 15 23 00-0253 MLF 48-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	8,159.17 1,690.49 6,490.98 292.61	585.22
27 15 23 00-0254 MLF 60-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,836.13 292.61	585.22
27 15 23 00-0255 MLF 72-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	11,626.59 292.61	585.22
27 15 23 00-0256 MLF 96-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	15,347.52 292.61	585.22
27 15 23 00-0257 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0242)</small>		
27 15 23 00-0258 MLF 1-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,205.48 260.10	520.20
27 15 23 00-0259 MLF 2-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,640.84 260.10	520.20
27 15 23 00-0260 MLF 4-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,114.90 260.10	520.20
27 15 23 00-0261 MLF 6-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,598.47 199.28 559.61 260.10	520.20
27 15 23 00-0262 MLF 8-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,061.82 260.10	520.20
27 15 23 00-0263 MLF 12-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,464.40 104.19 513.21 260.10	520.20
27 15 23 00-0264 MLF 18-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,365.16 292.61	585.22
27 15 23 00-0265 MLF 24-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,803.73 2,028.51 4,731.08 292.61	585.22

27 Communications
27 10 Structured Cabling
27 15 Communications Horizontal Cabling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0266 MLF 36-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	11,217.91	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0267 MLF 48-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	14,632.09	585.22
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	6,023.59	
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0268 MLF 60-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	18,046.27	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0269 MLF 72-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	21,460.45	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0270 MLF 96-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	28,313.20	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	12,047.18	
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0271 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0242)</small>		
27 15 23 00-0272 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,222.40	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0273 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,679.53	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0274 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,177.29	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0275 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,685.04	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0276 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,171.56	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0277 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,594.27	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0278 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,534.65	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0279 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,145.15	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0280 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	11,730.04	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0281 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	15,314.93	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0282 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	18,899.81	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0283 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	22,484.70	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0284 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	29,680.09	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0285 Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0241)</small>		
27 15 23 00-0286 Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0285)</small>		
27 15 23 00-0287 MLF 2-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,131.16	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0288 MLF 4-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,559.38	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0289 MLF 6-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,588.82	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0290 MLF 8-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,597.71	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0291 MLF 12-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,207.88	520.20
<i>For Work In Restricted Working Space, Add</i>	260.10	
27 15 23 00-0292 MLF 18-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	10,196.36	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	
27 15 23 00-0293 MLF 24-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	14,630.34	585.22
<i>For Work In Restricted Working Space, Add</i>	292.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0294 MLF 36-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	17,663.52 292.61	585.22
27 15 23 00-0295 MLF 48-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	21,998.34 292.61	585.22
27 15 23 00-0296 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0285)</small>		
27 15 23 00-0297 MLF 2-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,241.26 260.10	520.20
27 15 23 00-0298 MLF 4-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,518.68 260.10	520.20
27 15 23 00-0299 MLF 6-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	8,798.81 260.10	520.20
27 15 23 00-0300 MLF 8-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,960.90 260.10	520.20
27 15 23 00-0301 MLF 12-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	11,763.66 260.10	520.20
27 15 23 00-0302 MLF 18-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	16,046.54 292.61	585.22
27 15 23 00-0303 MLF 24-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	18,834.97 292.61	585.22
27 15 23 00-0304 MLF 36-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	20,771.01 292.61	585.22
27 15 23 00-0305 MLF 48-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	33,166.21 292.61	585.22
27 15 23 00-0306 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0285)</small>		
27 15 23 00-0307 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,459.98 260.10	520.20
27 15 23 00-0308 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,801.26 260.10	520.20
27 15 23 00-0309 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,195.40 260.10	520.20
27 15 23 00-0310 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	10,415.60 260.10	520.20
27 15 23 00-0311 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	12,308.50 260.10	520.20
27 15 23 00-0312 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	16,800.09 292.61	585.22
27 15 23 00-0313 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	19,727.95 292.61	585.22
27 15 23 00-0314 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	21,760.79 292.61	585.22
27 15 23 00-0315 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	34,775.75 292.61	585.22
27 15 23 00-0316 Hybrid, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0001)</small> Note: Singlemode and multimode combination cable. Excludes conduit or innerduct.		
27 15 23 00-0317 Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0316)</small>		
27 15 23 00-0318 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	1,417.21	390.14
27 15 23 00-0319 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	2,454.49	390.14
27 15 23 00-0320 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	5,756.78	455.18
27 15 23 00-0321 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	9,127.70	455.18
27 15 23 00-0322 Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0316)</small>		
27 15 23 00-0323 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	1,704.17	390.14

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0324 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	2,494.87	390.14
27 15 23 00-0325 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	6,849.89	455.18
27 15 23 00-0326 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit	11,882.20	455.18
27 15 23 00-0327 Hybrid, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0001)</small> Note: Singlemode and multimode combination cable. For non-conduit installations such as cable trays, surface runways, etc.		
27 15 23 00-0328 Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0327)</small>		
27 15 23 00-0329 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,633.95 260.10	520.20
27 15 23 00-0330 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,671.23 260.10	520.20
27 15 23 00-0331 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	5,973.53 292.61	585.22
27 15 23 00-0332 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	9,344.45 292.61	585.22
27 15 23 00-0333 Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0327)</small>		
27 15 23 00-0334 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,920.91 260.10	520.20
27 15 23 00-0335 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,711.61 260.10	520.20
27 15 23 00-0336 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	7,066.64 292.61	585.22
27 15 23 00-0337 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	12,098.95 292.61	585.22
27 15 23 00-0338 Outdoor Fiber Optic Cable <small>(27 15 23)</small> Note: Cable buried in trench excludes excavation.		
27 15 23 00-0339 Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0338)</small> Note: Excludes conduit or innerduct.		
27 15 23 00-0340 Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0339)</small>		
27 15 23 00-0341 Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0340)</small>		
27 15 23 00-0342 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	1,862.50	780.29
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	274.52	
27 15 23 00-0343 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	1,896.67	780.29
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	276.79	
27 15 23 00-0344 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	1,930.90	780.29
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	278.99	
27 15 23 00-0345 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	1,965.10	780.29
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	281.67	
27 15 23 00-0346 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	2,033.05	780.29
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	254.87	
27 15 23 00-0347 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	2,172.06	780.29
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	283.96	
27 15 23 00-0348 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	2,243.52	780.29
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	223.55	
27 15 23 00-0349 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	2,265.56	780.29
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	261.29	
27 15 23 00-0350 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	2,674.51	780.29
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	287.46	
27 15 23 00-0351 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	2,899.97	780.29
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	287.44	
27 15 23 00-0352 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	3,192.49	780.29
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	339.73	
27 15 23 00-0353 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	3,707.47	780.29
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	326.17	
27 15 23 00-0354 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	4,270.15	780.29
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	396.07	
27 15 23 00-0355 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit	4,859.05	780.29
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	265.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0356 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0340)</small>		
27 15 23 00-0357 MLF 2-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,278.33	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	94.66	
27 15 23 00-0358 MLF 4-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,333.82	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	135.42	
27 15 23 00-0359 MLF 6-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,450.11	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	197.88	
27 15 23 00-0360 MLF 8-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,608.68	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	80.56	
27 15 23 00-0361 MLF 12-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,674.75	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	110.74	
27 15 23 00-0362 MLF 18-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,899.38	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	147.36	
27 15 23 00-0363 MLF 24-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	3,375.09	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	139.15	
27 15 23 00-0364 MLF 36-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	4,075.43	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	277.56	
27 15 23 00-0365 MLF 48-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	4,855.06	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	199.18	
27 15 23 00-0366 MLF 60-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	5,396.83	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	331.16	
27 15 23 00-0367 MLF 72-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	6,097.17	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	840.82	
27 15 23 00-0368 MLF 96-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	7,722.49	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	480.50	
27 15 23 00-0369 MLF 120-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	9,334.60	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	587.14	
27 15 23 00-0370 MLF 144-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	10,946.71	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	707.53	
27 15 23 00-0371 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0340)</small>		
27 15 23 00-0372 MLF 2-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	1,625.36	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	117.40	
27 15 23 00-0373 MLF 4-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	1,738.22	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	125.89	
27 15 23 00-0374 MLF 6-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	1,850.92	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	134.18	
27 15 23 00-0375 MLF 8-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	1,990.13	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	152.76	
27 15 23 00-0376 MLF 12-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,189.51	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	159.30	
27 15 23 00-0377 MLF 18-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,542.01	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	169.77	
27 15 23 00-0378 MLF 24-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,875.92	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	195.24	
27 15 23 00-0379 MLF 36-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	3,514.97	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	216.96	
27 15 23 00-0380 MLF 48-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	4,262.44	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	249.46	
27 15 23 00-0381 MLF 60-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	4,952.82	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	268.43	
27 15 23 00-0382 MLF 72-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	5,681.49	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	303.82	
27 15 23 00-0383 MLF 96-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	7,155.24	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	341.60	
27 15 23 00-0384 MLF 120-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	8,652.65	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	387.68	
27 15 23 00-0385 MLF 144-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	10,173.17	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	356.11	
27 15 23 00-0386 Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0339)</small>		
27 15 23 00-0387 Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0386)</small>		
27 15 23 00-0388 MLF 2-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,058.22	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	216.94	
27 15 23 00-0389 MLF 4-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,124.86	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	311.37	
27 15 23 00-0390 MLF 6-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,144.86	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	298.40	
27 15 23 00-0391 MLF 8-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,224.70	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	248.41	
27 15 23 00-0392 MLF 12-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,249.61	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	296.89	
27 15 23 00-0393 MLF 18-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,361.49	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	281.58	
27 15 23 00-0394 MLF 24-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,461.81	780.29
For Corrugated Coated Steel Tape Armored Cable, Add	284.92	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0395 MLF 36-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,621.84 361.31	780.29
27 15 23 00-0396 MLF 48-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,847.30 366.03	780.29
27 15 23 00-0397 MLF 60-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,071.89 379.21	780.29
27 15 23 00-0398 MLF 72-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,376.37 326.18	780.29
27 15 23 00-0399 MLF 96-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,868.89 425.39	780.29
27 15 23 00-0400 MLF 120-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,513.23 418.87	780.29
27 15 23 00-0401 MLF 144-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,040.51 334.59	780.29
27 15 23 00-0402 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0396)		
27 15 23 00-0403 MLF 2-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,282.89 307.00	780.29
27 15 23 00-0404 MLF 4-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,516.21 171.92	780.29
27 15 23 00-0405 MLF 6-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,823.21 36.84	780.29
27 15 23 00-0406 MLF 8-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,970.57 61.40	780.29
27 15 23 00-0407 MLF 12-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,117.93 61.40	780.29
27 15 23 00-0408 MLF 18-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,461.77 73.68	780.29
27 15 23 00-0409 MLF 24-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,768.77 282.44	780.29
27 15 23 00-0410 MLF 36-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,431.89 552.60	780.29
27 15 23 00-0411 MLF 48-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,095.01 921.00	780.29
27 15 23 00-0412 MLF 60-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,647.61 1,013.10	780.29
27 15 23 00-0413 MLF 72-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,372.13 1,289.40	780.29
27 15 23 00-0414 MLF 96-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,882.57 1,903.40	780.29
27 15 23 00-0415 MLF 120-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,643.93 1,436.76	780.29
27 15 23 00-0416 MLF 144-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,596.45 3,499.80	780.29
27 15 23 00-0417 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0396)		
27 15 23 00-0418 MLF 2-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,701.57 147.36	780.29
27 15 23 00-0419 MLF 4-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,812.09 159.29	780.29
27 15 23 00-0420 MLF 6-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,922.43 171.22	780.29
27 15 23 00-0421 MLF 8-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,032.95 183.13	780.29
27 15 23 00-0422 MLF 12-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,319.24 196.97	780.29
27 15 23 00-0423 MLF 18-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,599.97 230.82	780.29
27 15 23 00-0424 MLF 24-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,943.97 250.71	780.29
27 15 23 00-0425 MLF 36-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,609.81 309.76	780.29
27 15 23 00-0426 MLF 48-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,288.09 354.90	780.29
27 15 23 00-0427 MLF 60-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,968.71 395.21	780.29
27 15 23 00-0428 MLF 72-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,684.37 440.71	780.29
27 15 23 00-0429 MLF 96-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,136.64 519.66	780.29
27 15 23 00-0430 MLF 120-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,011.10 537.20	780.29
27 15 23 00-0431 MLF 144-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,109.61 554.56	780.29
27 15 23 00-0432 Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0338)		
Note: Excludes trenching.		



Communications		27
Structured Cabling		27 10
Communications Horizontal Cabling		27 15

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0433 Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15)		
27 15 23 00-0434 Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0433)		
27 15 23 00-0435 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,754.13 274.52	
27 15 23 00-0436 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,788.30 276.79	
27 15 23 00-0437 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,822.53 278.99	
27 15 23 00-0438 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,856.73 281.67	
27 15 23 00-0439 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,924.68 254.87	
27 15 23 00-0440 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,063.69 283.96	
27 15 23 00-0441 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,135.15 223.55	
27 15 23 00-0442 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,157.19 261.29	
27 15 23 00-0443 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,566.14 287.46	
27 15 23 00-0444 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,079.04 287.44	
27 15 23 00-0445 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,423.85 339.73	
27 15 23 00-0446 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,599.10 326.17	
27 15 23 00-0447 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,161.78 396.07	
27 15 23 00-0448 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,750.68 265.13	
27 15 23 00-0449 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0433)		
27 15 23 00-0450 MLF 2-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,169.96 94.66	
27 15 23 00-0451 MLF 4-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,225.45 135.42	
27 15 23 00-0452 MLF 6-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,341.74 197.88	
27 15 23 00-0453 MLF 8-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,500.31 80.56	
27 15 23 00-0454 MLF 12-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,566.38 110.74	
27 15 23 00-0455 MLF 18-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,791.01 147.36	
27 15 23 00-0456 MLF 24-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,266.72 139.15	
27 15 23 00-0457 MLF 36-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,967.06 277.56	
27 15 23 00-0458 MLF 48-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,746.69 199.18	
27 15 23 00-0459 MLF 60-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,288.46 331.16	
27 15 23 00-0460 MLF 72-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,988.80 840.82	
27 15 23 00-0461 MLF 96-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,614.12 480.50	
27 15 23 00-0462 MLF 120-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,226.23 587.14	
27 15 23 00-0463 MLF 144-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,838.34 707.53	
27 15 23 00-0464 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0433)		
27 15 23 00-0465 MLF 2-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,516.99 117.40	
27 15 23 00-0466 MLF 4-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,629.85 125.89	
27 15 23 00-0467 MLF 6-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,742.55 134.18	
27 15 23 00-0468 MLF 8-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,881.76 152.76	
27 15 23 00-0469 MLF 12-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,081.14 159.30	
27 15 23 00-0470 MLF 18-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,433.64 169.77	
27 15 23 00-0471 MLF 24-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,767.55 195.24	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0472 MLF 36-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,406.60 216.96	
27 15 23 00-0473 MLF 48-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,154.07 249.46	
27 15 23 00-0474 MLF 60-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,844.45 268.43	
27 15 23 00-0475 MLF 72-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,573.12 303.82	
27 15 23 00-0476 MLF 96-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,046.87 341.60	
27 15 23 00-0477 MLF 120-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,544.28 387.68	
27 15 23 00-0478 MLF 144-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,064.80 356.11	
27 15 23 00-0479 Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0432)		
27 15 23 00-0480 Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0479)		
27 15 23 00-0481 MLF 2-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,949.85 216.94	
27 15 23 00-0482 MLF 4-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,016.49 311.37	
27 15 23 00-0483 MLF 6-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,036.49 298.40	
27 15 23 00-0484 MLF 8-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,116.33 248.41	
27 15 23 00-0485 MLF 12-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,141.24 296.89	
27 15 23 00-0486 MLF 18-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,253.12 281.58	
27 15 23 00-0487 MLF 24-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,353.44 284.92	
27 15 23 00-0488 MLF 36-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,513.47 361.31	
27 15 23 00-0489 MLF 48-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,738.93 366.03	
27 15 23 00-0490 MLF 60-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,963.52 379.21	
27 15 23 00-0491 MLF 72-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,268.00 326.18	
27 15 23 00-0492 MLF 96-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,760.52 425.39	
27 15 23 00-0493 MLF 120-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,404.86 418.87	
27 15 23 00-0494 MLF 144-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,932.14 334.59	
27 15 23 00-0495 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0479)		
27 15 23 00-0496 MLF 2-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,174.52 307.00	
27 15 23 00-0497 MLF 4-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,407.84 171.92	
27 15 23 00-0498 MLF 6-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,714.84 36.84	
27 15 23 00-0499 MLF 8-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,862.20 61.40	
27 15 23 00-0500 MLF 12-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,009.56 61.40	
27 15 23 00-0501 MLF 18-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,353.40 73.68	
27 15 23 00-0502 MLF 24-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,660.40 282.44	
27 15 23 00-0503 MLF 36-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,323.52 552.60	
27 15 23 00-0504 MLF 48-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,986.64 921.00	
27 15 23 00-0505 MLF 60-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,539.24 1,013.10	
27 15 23 00-0506 MLF 72-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,263.76 1,289.40	
27 15 23 00-0507 MLF 96-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,774.20 1,903.40	
27 15 23 00-0508 MLF 120-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,535.56 1,436.76	
27 15 23 00-0509 MLF 144-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,488.08 3,499.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0510 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <small>(27 15 23 00-0479)</small>		
27 15 23 00-0511 MLF 2-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	1,593.20	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>147.36</i>	
27 15 23 00-0512 MLF 4-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	1,703.72	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>159.29</i>	
27 15 23 00-0513 MLF 6-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	1,814.06	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>171.22</i>	
27 15 23 00-0514 MLF 8-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	1,924.58	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>183.13</i>	
27 15 23 00-0515 MLF 12-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	2,210.87	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>196.97</i>	
27 15 23 00-0516 MLF 18-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	2,491.60	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>230.82</i>	
27 15 23 00-0517 MLF 24-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	2,835.60	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>250.71</i>	
27 15 23 00-0518 MLF 36-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	3,501.44	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>309.76</i>	
27 15 23 00-0519 MLF 48-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	4,179.72	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>354.90</i>	
27 15 23 00-0520 MLF 60-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	4,860.34	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>395.21</i>	
27 15 23 00-0521 MLF 72-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	5,576.00	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>440.71</i>	
27 15 23 00-0522 MLF 96-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	7,028.27	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>519.66</i>	
27 15 23 00-0523 MLF 120-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	8,575.52	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>537.20</i>	
27 15 23 00-0524 MLF 144-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench.....	10,001.24	
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>554.56</i>	
27 15 23 00-0525 (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <small>(27 15 23 00-0338)</small>		
27 15 23 00-0526 Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <small>(27 15 23 00-0525)</small>		
27 15 23 00-0527 Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles <small>(27 15 23 00-0526)</small>		
27 15 23 00-0528 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	8,896.45	3,030.73
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>183.61</i>	
27 15 23 00-0529 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	8,930.40	3,030.73
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>188.36</i>	
27 15 23 00-0530 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	8,964.81	3,030.73
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>192.99</i>	
27 15 23 00-0531 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	8,998.77	3,030.73
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>189.30</i>	
27 15 23 00-0532 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	9,066.72	3,030.73
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>220.68</i>	
27 15 23 00-0533 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	9,200.89	3,030.73
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>229.43</i>	
27 15 23 00-0534 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	9,303.22	3,030.73
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>253.58</i>	
27 15 23 00-0535 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	9,546.51	3,030.73
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>243.14</i>	
27 15 23 00-0536 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	9,759.28	3,030.73
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>282.48</i>	
27 15 23 00-0537 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	9,935.16	3,030.73
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>270.87</i>	
27 15 23 00-0538 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	10,154.57	3,030.73
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>309.69</i>	
27 15 23 00-0539 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	10,730.41	3,030.73
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>314.54</i>	
27 15 23 00-0540 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	11,348.23	3,030.73
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>375.33</i>	
27 15 23 00-0541 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles	11,496.34	3,030.73
<i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	<i>403.02</i>	
27 15 23 00-0542 Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0338)</small>		
<small>Note: Singlemode and multimode combination cable. Excludes conduit or innerduct.</small>		
27 15 23 00-0543 Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0542)</small>		
27 15 23 00-0544 MLF 12-Fiber, 6 Singlemode/6 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit.....	3,672.67	650.25
27 15 23 00-0545 MLF 24-Fiber, 12 Singlemode/12 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	4,666.87	650.25
27 15 23 00-0546 MLF 48-Fiber, 24 Singlemode/24 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	6,881.60	650.25
27 15 23 00-0547 Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit <small>(27 15 23 00-0542)</small>		

27 Communications

27 10 Structured Cabling

27 15 Communications Horizontal Cabling



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0548	MLF		12-Fiber, 6 Singlemode/6 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	4,940.72	650.25
27 15 23 00-0549	MLF		24-Fiber, 12 Singlemode/12 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	5,505.71	650.25
27 15 23 00-0550	MLF		48-Fiber, 24 Singlemode/24 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	7,977.14	650.25
27 15 23 00-0551			Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench <small>(27 15 23 00-0338)</small> Note: Singlemode and multimode combination cable. Excludes trenching.		
27 15 23 00-0552			Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench <small>(27 15 23 00-0551)</small>		
27 15 23 00-0553	MLF		12-Fiber, 6 Singlemode/6 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	3,564.30	596.05
27 15 23 00-0554	MLF		24-Fiber, 12 Singlemode/12 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	4,558.50	596.05
27 15 23 00-0555	MLF		48-Fiber, 24 Singlemode/24 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	6,773.23	596.05
27 15 23 00-0556			Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench <small>(27 15 23 00-0551)</small>		
27 15 23 00-0557	MLF		12-Fiber, 6 Singlemode/6 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	4,832.35	596.05
27 15 23 00-0558	MLF		24-Fiber, 12 Singlemode/12 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	5,397.34	596.05
27 15 23 00-0559	MLF		48-Fiber, 24 Singlemode/24 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	7,868.77	596.05
27 15 23 00-0560			Network Communications Cabling And Related Products <small>(27 15 23)</small>		
27 15 23 00-0561	EA		AC Surge Suppression Assembly	466.55	13.54
			Note: Liebert AccuVar Transient Voltage Surge Protection (TVSS) device or Atlantic Scientific Zone Defender Pro Model # 16100. Includes testing.		
27 15 23 00-0562	EA		Single Mode Fiber Optic To Ethernet Media Converter	788.36	16.26
			Note: Transition Networks part no. J/E-PSW-FX-02(SM). Includes testing.		
27 15 23 00-0563	EA		6' Long Single Mode Patch Cord With SC duplex Connectors At Both Ends	41.58	1.74
			Note: Includes testing.		
27 15 23 00-0564	EA		KVM (Keyboard, Video, Mouse) Cable	95.11	2.17
			Note: Raritan CCP40. Includes testing.		
27 15 23 00-0565	EA		6' Long USB (Universal Serial Bus) Cable	13.92	1.74
			Note: Includes testing.		
27 15 23 00-0566	EA		10' Long USB (Universal Serial Bus) Cable	16.52	2.17
			Note: Includes testing.		
27 15 23 00-0567	EA		6' Long Category 6 Patch Cables With A RJ-45 Connectors At Each End	18.14	1.74
			Note: Includes testing.		
27 15 23 00-0568	EA		10' Long Category 6 Patch Cables With A RJ-45 Connectors At Each End	20.74	2.17
			Note: Includes testing.		
27 15 23 00-0569	EA		6' Long Single Mode Patch Cord With SC Connectors At Both Ends	30.51	1.74
			Note: Includes testing.		
27 15 23 00-0570	EA		20' Long Single Mode Patch Cord With SC Duplex Connectors At Both Ends	66.52	2.17
			Note: Includes testing.		
27 15 23 00-0571	EA		6' Long Single Mode Patch Cord With SC Duplex Connector At One End And SC Connectors At The Other	52.96	1.74
			Note: Includes testing.		
27 15 23 00-0572	EA		20' Long Single Mode Patch Cord With SC Duplex Connector At One End And SC Connectors At The Other	66.52	2.17
			Note: Includes testing.		
27 15 23 00-0573	EA		6' Long Single Mode Patch Cord With SC Duplex Connector At One End And FC Connectors At The Other	99.62	1.74
			Note: Includes testing.		
27 15 23 00-0574	EA		6' Long Single Mode Patch Cord With SC Connectors At One End And FC Connectors At The Other	99.62	1.74
			Note: Includes testing.		
27 15 23 00-0575	LF		6 Strand Dielectric Indoor / Outdoor Fiber Optic Cable	0.98	
			Note: Corning part no. 006ESF-T41O1D20. Includes testing.		
27 15 23 00-0576	LF		12 Strand Dielectric Indoor / Outdoor Fiber Optic Cable	6.66	
			Note: Corning part no. 012ESF-T41O1D20. Includes testing.		
27 15 23 00-0577	LF		24 Strand Dielectric Indoor / Outdoor Fiber Optic Cable	8.12	
			Note: Corning part no. 024EW4-T41O1D20. Includes testing.		
27 15 23 00-0578	LF		72 Strand Dielectric Indoor / Outdoor Fiber Optic Cable	13.41	
			Note: Corning part no. 072EW4-T41O1D20. Includes testing.		
27 15 23 00-0579	LF		144 Strand Dielectric Indoor / Outdoor Fiber Optic Cable	20.91	
			Note: Corning part no. 144EW4-T41O1D20. Includes testing.		
27 15 23 00-0580	LF		36 Strand Dielectric Indoor Plenum Rated Fiber Optic Cable	13.67	
			Note: Corning part no. 036E81-61131-24. Includes testing.		
27 15 23 00-0581	LF		72 Strand Dielectric Indoor Plenum Rated Fiber Optic Cable	21.49	
			Note: Corning part no. 072E81-T3131-24. Includes testing.		
27 15 23 00-0582	EA		Aerial Storage Unit	122.96	10.84
			Note: Alcola part no. FSU-16. Includes testing.		
27 15 23 00-0583	EA		Spider Fan-Out Kits With SC Connectors	150.71	10.84
			Note: Corning part no. SFK-P-12-900-S.		
27 15 23 00-0584	LF		Ultraviolet Resistant Rated Category 6 Cable	1.32	0.20
			Note: Includes RJ 45 connectors at both ends. CommScope part no. 6NF4+. Includes testing.		
27 15 23 00-0585	LF		RG11 Coaxial Cable NEC CMR	4.49	2.03
			Note: Corning part no. SFK-P-12-900-S.		
27 15 23 00-0586	LF		Outdoor Rated UL Type CL2	4.60	
			Note: Aluminum foil-polyester tape 100% shield coverage twisted (6 twists per foot) single pair 19 X 27 stranding tin copper coated #14 AWG conductor Audio, Control, and Instrumentation Cable with polyethylene insulation and PVC jacket. Belden 8720. Includes testing.		



Communications	27	27
Structured Cabling	27 10	
Communications Horizontal Cabling	27 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0587 LF Indoor Plenum Rated UL Type CMP Note: 100% aluminum foil shield coverage twisted (6 twists per foot) 4 pairs 7X32 stranding tin copper coated #24 AWG conductor Computer Cable with Fluorinated Ethylene Propylene insulation and plenum rated jacket. Belden 82504. Includes testing.	6.77	2.03
27 15 33 Communications Coaxial Horizontal Cabling (27 15) Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.		
27 15 33 00-0001 Indoor Coaxial Cable (27 15 33)		
27 15 33 00-0002 Coaxial, Indoor Telecommunications Cable (27 15 33 00-0001)		
27 15 33 00-0003 Coaxial, Indoor Telecommunications Cable, Installed In Conduit (27 15 33 00-0002)		
27 15 33 00-0004 MLF RG 59/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9108).....	1,224.60	455.18
27 15 33 00-0005 MLF RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82108).....	2,553.72	455.18
27 15 33 00-0006 MLF RG 6/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9114).....	1,091.38	520.20
27 15 33 00-0007 MLF RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82120).....	3,185.67	520.20
27 15 33 00-0008 Coaxial, Indoor Telecommunications Cable, Installed Exposed (27 15 33 00-0002)		
27 15 33 00-0009 MLF RG 59/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9108)..... <i>For Work In Restricted Working Space, Add</i>	1,983.22 455.17	910.34
27 15 33 00-0010 MLF RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82108)..... <i>For Work In Restricted Working Space, Add</i>	3,312.34 455.17	910.34
27 15 33 00-0011 MLF RG 6/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9114)..... <i>For Work In Restricted Working Space, Add</i>	1,958.38 520.20	1,040.39
27 15 33 00-0012 MLF RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82120)..... <i>For Work In Restricted Working Space, Add</i>	4,052.67 520.20	1,040.39
27 15 33 00-0013 Coaxial Distribution Cable (27 15 33 00-0001) Note: Cables shall be as Belden, Times Fiber, West Penn or approved equal. For tasks installed in conduit, tasks exclude conduit.		
27 15 33 00-0014 MLF RG-6/U Coaxial Distribution Cable, Installed In Conduit.....	1,867.23	316.82
27 15 33 00-0015 MLF RG-6A/U Coaxial Distribution Cable, Installed In Conduit.....	6,338.24	316.82
27 15 33 00-0016 MLF RG-8/U Coaxial Distribution Cable, Installed In Conduit.....	3,451.20	334.64
27 15 33 00-0017 MLF RG-8A/U Coaxial Distribution Cable, Installed In Conduit.....	4,291.05	334.64
27 15 33 00-0018 MLF RG-11/U Coaxial Distribution Cable, Installed In Conduit.....	3,882.04	396.01
27 15 33 00-0019 MLF RG-11A/U Coaxial Distribution Cable, Installed In Conduit.....	5,506.23	396.01
27 15 33 00-0020 MLF RG-11/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	11,709.04	554.42
27 15 33 00-0021 MLF RG-58/U Coaxial Distribution Cable, Installed In Conduit.....	1,406.11	277.22
27 15 33 00-0022 MLF RG-58A/U Coaxial Distribution Cable, Installed In Conduit.....	1,572.53	277.22
27 15 33 00-0023 MLF RG-58C/U Coaxial Distribution Cable, Installed In Conduit.....	1,865.69	277.22
27 15 33 00-0024 MLF RG-58/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	4,473.61	554.42
27 15 33 00-0025 MLF RG-59/U Coaxial Distribution Cable, Installed In Conduit.....	2,183.61	277.22
27 15 33 00-0026 MLF RG-59/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	5,345.88	554.42
27 15 33 00-0027 MLF 1/2" Hard Line Coaxial, Installed In Conduit.....	1,937.77	396.01
27 15 33 00-0028 Outdoor Coaxial Cable (27 15 33)		
27 15 33 00-0029 Coaxial Cables "Television" Copper Covered Aluminum Center Core (27 15 33 00-0028) Note: Corrugated steel armor jacket.		
27 15 33 00-0030 MLF TV Coaxial Trunk Cable 3/4" Diameter, Direct Burial.....	5,556.25	1,482.30
27 15 33 00-0031 MLF TV Coaxial Distribution Cable 1/2" Diameter, Direct Burial.....	3,555.82	1,042.62
27 15 33 00-0032 MLF TV Coaxial Distribution Cable 3/8" Diameter, Direct Burial.....	2,874.71	615.12
27 15 33 00-0033 MLF TV Coaxial Cable Drop 1/4" Diameter, Direct Burial.....	1,708.95	615.12
27 15 33 00-0034 MLF 1/4" Diameter, TV Coaxial Cable Drop, Installed In Conduit.....	2,574.01	961.14
27 15 43 Communications Faceplates and Connectors (27 15)		
27 15 43 00-0001 Wall Mounted Telephone Faceplates (27 15 43) Note: Includes standard telephone mounting studs.		
27 15 43 00-0002 Plastic Faceplates For Wall Mounted Telephones (27 15 43 00-0001)		
27 15 43 00-0003 EA Single Gang, 6-Position RJ25 Jack, Flush, Plastic Faceplate For Wall Mounted Telephones.....	39.21	13.54
27 15 43 00-0004 Stainless Steel Faceplates For Wall Mounted Telephones (27 15 43 00-0001)		
27 15 43 00-0005 EA Single Gang, Keystone Opening, Flush, Stainless Steel Faceplate For Wall Mounted Telephones..... Note: Requires one snap-in modular jack.	31.52	5.42
27 15 43 00-0006 EA Single Gang, 6-Position RJ25 Jack, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	55.04	13.54
27 15 43 00-0007 EA Single Gang, 8-Position RJ45 Jack, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	64.07	16.26
27 15 43 00-0008 EA Single Gang, Keystone Opening, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones..... Note: Requires one snap-in modular jack.	30.32	5.42
27 15 43 00-0009 EA Single Gang, 6-Position RJ25 Jack, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones.....	49.93	13.54
27 15 43 00-0010 EA Single Gang, 8-Position RJ45 Jack, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones.....	59.10	16.26

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 43 00-0011 Plastic Communications Faceplates ^(27 15 43)		
Note: Excludes modular jacks. See CSI section 27 15 43 00-0051 for modular jacks.		
27 15 43 00-0012 EA One Port, Single Gang, Plastic Communication Faceplate With Station ID	8.75	2.71
27 15 43 00-0013 EA Two Port, Single Gang, Plastic Communication Faceplate With Station ID	8.75	2.71
27 15 43 00-0014 EA Three Port, Single Gang, Plastic Communication Faceplate With Station ID	8.75	2.71
27 15 43 00-0015 EA Four Port, Single Gang, Plastic Communication Faceplate With Station ID	8.75	2.71
27 15 43 00-0016 EA Six Port, Single Gang, Plastic Communication Faceplate With Station ID	8.75	2.71
27 15 43 00-0017 EA Four Port, Double Gang, Plastic Communications Faceplate With Station ID	15.59	2.71
27 15 43 00-0018 EA Six Port, Double Gang, Plastic Communication Faceplate With Station ID	15.59	2.71
27 15 43 00-0019 EA Eight Port, Double Gang, Plastic Communication Faceplate With Station ID	15.59	2.71
27 15 43 00-0020 EA Nine Port, Double Gang, Plastic Communication Faceplate With Station ID	15.59	2.71
27 15 43 00-0021 EA Twelve Port, Double Gang, Plastic Communication Faceplate With Station ID	15.59	2.71
27 15 43 00-0022 Stainless Steel Communications Faceplates ^(27 15 43)		
Note: Excludes modular jacks. See CSI section 27 15 43 00-0051 for modular jacks.		
27 15 43 00-0023 Stainless Steel Communications Faceplates ^(27 15 43 00-0022)		
27 15 43 00-0024 EA One Port, Single Gang, Stainless Steel Communications Faceplate	16.81	2.71
27 15 43 00-0025 EA Two Port, Single Gang, Stainless Steel Communications Faceplate	16.81	2.71
27 15 43 00-0026 EA Three Port, Single Gang, Stainless Steel Communications Faceplate	16.81	2.71
27 15 43 00-0027 EA Four Port, Single Gang, Stainless Steel Communications Faceplate	17.99	2.71
27 15 43 00-0028 EA Six Port, Single Gang, Stainless Steel Communications Faceplate	17.99	2.71
27 15 43 00-0029 EA Four Port, Double Gang, Stainless Steel Communications Faceplate	24.34	2.71
27 15 43 00-0030 EA Six Port, Double Gang, Stainless Steel Communications Faceplate	25.08	2.71
27 15 43 00-0031 EA Eight Port, Double Gang, Stainless Steel Communications Faceplate	29.07	2.71
27 15 43 00-0032 EA Nine Port, Double Gang, Stainless Steel Communication Faceplate	29.07	2.71
27 15 43 00-0033 EA Twelve Port, Double Gang, Stainless Steel Communications Faceplate	29.07	2.71
27 15 43 00-0034 Stainless Steel Communications Faceplates With Station ID ^(27 15 43 00-0022)		
27 15 43 00-0035 EA One Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	24.19	2.71
27 15 43 00-0036 EA Two Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	24.19	2.71
27 15 43 00-0037 EA Three Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	24.19	2.71
27 15 43 00-0038 EA Four Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	24.19	2.71
27 15 43 00-0039 EA Six Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	24.19	2.71
27 15 43 00-0040 EA Four Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	52.41	2.71
27 15 43 00-0041 EA Six Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	52.41	2.71
27 15 43 00-0042 EA Eight Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	52.41	2.71
27 15 43 00-0043 EA Nine Port, Double Gang, Stainless Steel Communication Faceplate With Station ID	52.41	2.71
27 15 43 00-0044 EA Twelve Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	52.41	2.71
27 15 43 00-0045 Surface Mount Plastic Communication Boxes ^(27 15 43)		
Note: Excludes modular jacks. See CSI section 27 15 43 00-0051 for modular jacks.		
27 15 43 00-0046 EA One Port, Surface Mount Plastic Communication Box With Station ID	31.36	13.57
27 15 43 00-0047 EA Two Port, Surface Mount Plastic Communication Box With Station ID	32.10	13.57
27 15 43 00-0048 EA Four Port, Surface Mount Plastic Communication Box With Station ID	37.20	13.57
27 15 43 00-0049 EA Six Port, Surface Mount Plastic Communication Box With Station ID	43.25	13.57
27 15 43 00-0050 EA Twelve Port, Surface Mount Plastic Communication Box With Station ID	49.61	13.57
27 15 43 00-0051 Snap-In Modular Jacks ^(27 15 43)		
Note: Includes termination.		
27 15 43 00-0052 EA Cat 3, Snap-In Modular Jack	30.13	10.86
27 15 43 00-0053 EA Category 5E, Snap-In Modular Jack	31.76	10.86
27 15 43 00-0054 EA Category 5E Shielded, Snap-In Modular Jack	36.63	10.86
27 15 43 00-0055 EA Cat 6, Snap-In Modular Jack	36.63	10.86
27 15 43 00-0056 EA Cat 6 Shielded, Snap-In Modular Jack	42.10	10.86
27 15 43 00-0057 EA Cat 6A, Snap-In Modular Jack	42.93	10.86
27 15 43 00-0058 EA Voice, RJ-11, Snap-In Modular Jack	22.51	5.43
27 15 43 00-0059 EA SC Type Fiber Optic, Snap-In Modular Jack	33.82	10.86
27 15 43 00-0060 EA ST Type Fiber Optic, Snap-In Modular Jack	37.96	10.86
27 15 43 00-0061 EA LC Type Fiber Optic, Snap-In Modular Jack	46.09	10.86
27 15 43 00-0062 EA Blank Fill In, Snap-In Modular Jack	6.20	2.71
27 15 43 00-0063 EA Open Cable Pass Through Insert, Snap-In Modular Jack	7.48	2.71
27 15 43 00-0064 EA Coaxial F-Type Coupler, Snap-In Modular Jack	25.30	8.14
Note: Includes female to female connection.		
<i>For Gold Bulkhead, Add</i>		1.58
27 15 43 00-0065 EA RCA Jack Pass-Through Coupler, Snap-In Modular Jack	25.60	8.14
Note: Includes female to female connection.		
27 15 43 00-0066 EA RCA Solder Coupler, Snap-In Modular Jack	50.37	10.86
27 15 43 00-0067 EA RCA Jack With 110 Punch Down, Snap-In Modular Jack	62.34	10.86
27 15 43 00-0068 EA 3.5 m Mini Stereo Jack, Snap-In Modular Jack	31.31	10.86
27 15 43 00-0069 EA MT-RJ Pass-Through Coupler, Snap-In Modular Jack	33.73	5.43
27 15 43 00-0070 EA BNC Connector, Snap-In Modular Jack	36.19	10.86
27 15 43 00-0071 EA S-Video With 110 Punch Down, Snap-In Modular Jack	40.62	10.86
27 15 43 00-0072 PR Speaker Connectors, Snap-In Modular Jack	57.33	16.29
Note: Includes a pair of binding posts, banana jacks or spring clip connectors. Requires two open ports.		
27 15 43 00-0073 EA USB Audio Video Connector, Snap-In Modular Jack	61.01	10.86



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 53 Communications Cable Innerduct (27 15)		
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.		
27 15 53 00-0001 Indoor Innerduct (27 15 53)		
27 15 53 00-0002 Indoor Innerduct, Installed In Conduit (27 15 53 00-0001)		
27 15 53 00-0003 Riser Rated, Indoor Innerduct, Installed In Conduit (27 15 53 00-0002)		
27 15 53 00-0004 MLF 1" Riser Rated, Indoor Innerduct, Installed In Conduit.....	4,360.34	1,625.61
27 15 53 00-0005 MLF 1-1/4" Riser Rated, Indoor Innerduct, Installed In Conduit.....	5,632.86	2,167.48
27 15 53 00-0006 MLF 1-1/2" Riser Rated, Indoor Innerduct, Installed In Conduit.....	7,518.93	2,709.36
27 15 53 00-0007 MLF 2" Riser Rated, Indoor Innerduct, Installed In Conduit.....	8,767.86	3,251.23
27 15 53 00-0008 Plenum Rated, Indoor Innerduct, Installed In Conduit (27 15 53 00-0002)		
27 15 53 00-0009 MLF 3/4" Plenum Rated, Indoor Innerduct, Installed In Conduit.....	6,611.01	1,083.74
27 15 53 00-0010 MLF 1" Plenum Rated, Indoor Innerduct, Installed In Conduit.....	7,397.37	1,625.61
27 15 53 00-0011 MLF 1-1/4" Plenum Rated, Indoor Innerduct, Installed In Conduit.....	9,327.98	2,167.48
27 15 53 00-0012 MLF 1-1/2" Plenum Rated, Indoor Innerduct, Installed In Conduit.....	11,999.61	2,709.36
27 15 53 00-0013 MLF 2" Plenum Rated, Indoor Innerduct, Installed In Conduit.....	14,441.87	3,251.23
27 15 53 00-0014 Indoor Innerduct, Installed Exposed (27 15 53 00-0001)		
27 15 53 00-0015 Riser Rated, Indoor Innerduct, Installed Exposed (27 15 53 00-0014)		
27 15 53 00-0016 MLF 1" Riser Rated, Indoor Innerduct, Installed Exposed.....	5,444.08	2,167.48
For Work In Restricted Working Space, Add	1,300.49	
27 15 53 00-0017 MLF 1-1/4" Riser Rated, Indoor Innerduct, Installed Exposed.....	6,716.60	2,709.36
For Work In Restricted Working Space, Add	1,625.61	
27 15 53 00-0018 MLF 1-1/2" Riser Rated, Indoor Innerduct, Installed Exposed.....	8,602.67	3,251.23
For Work In Restricted Working Space, Add	1,950.74	
27 15 53 00-0019 MLF 2" Riser Rated, Indoor Innerduct, Installed Exposed.....	9,851.59	3,793.10
For Work In Restricted Working Space, Add	2,275.85	
27 15 53 00-0020 Plenum Rated, Indoor Innerduct, Installed Exposed (27 15 53 00-0014)		
27 15 53 00-0021 MLF 3/4" Plenum Rated, Indoor Innerduct, Installed Exposed.....	7,694.75	1,625.61
27 15 53 00-0022 MLF 1" Plenum Rated, Indoor Innerduct, Installed Exposed.....	8,481.11	2,167.48
For Work In Restricted Working Space, Add	1,300.49	
27 15 53 00-0023 MLF 1-1/4" Plenum Rated, Indoor Innerduct, Installed Exposed.....	10,411.72	2,709.36
For Work In Restricted Working Space, Add	1,625.61	
27 15 53 00-0024 MLF 1-1/2" Plenum Rated, Indoor Innerduct, Installed Exposed.....	13,083.35	3,251.23
For Work In Restricted Working Space, Add	1,950.74	
27 15 53 00-0025 MLF 2" Plenum Rated, Indoor Innerduct, Installed Exposed.....	15,525.60	3,793.10
For Work In Restricted Working Space, Add	2,275.85	
27 15 53 00-0026 Outdoor Innerduct (27 15 53)		
27 15 53 00-0027 Outdoor Innerduct, Installed In Conduit (27 15 53 00-0026)		
27 15 53 00-0028 MLF 1" Outdoor Innerduct, Installed In Conduit.....	4,077.16	1,625.61
27 15 53 00-0029 MLF 1-1/4" Outdoor Innerduct, Installed In Conduit.....	5,215.28	2,167.48
27 15 53 00-0030 MLF 1-1/2" Outdoor Innerduct, Installed In Conduit.....	6,674.60	2,709.36
27 15 53 00-0031 MLF 2" Outdoor Innerduct, Installed In Conduit.....	7,968.83	3,251.23
27 15 53 00-0032 Outdoor Innerduct, Buried In Trench (27 15 53 00-0026)		
27 15 53 00-0033 MLF 1" Outdoor Innerduct, Buried In Trench.....	2,993.41	
27 15 53 00-0034 MLF 1-1/4" Outdoor Innerduct, Buried In Trench.....	4,131.54	
27 15 53 00-0035 MLF 1-1/2" Outdoor Innerduct, Buried In Trench.....	5,590.86	
27 15 53 00-0036 MLF 2" Outdoor Innerduct, Buried In Trench.....	6,885.09	
27 16 Communications Connecting Cords, Devices, and Adapters (27 10)		
27 16 16 Communications Media Converters, Adapters, and Transceivers (27 16)		
27 16 16 00-0001 Fiber Optic Receivers (27 16 16)		
27 16 16 00-0002 EA Fiber Optic Receiver, Range 6.2 Miles.....	795.56	54.18
27 16 16 00-0003 EA Fiber Optic MM Dual Video Receiver, Manual Gain.....	1,035.71	106.73
Note: With video presence Ind, RM.		
27 16 16 00-0004 Fiber Optic Transmitters (27 16 16)		
27 16 16 00-0005 EA Fiber Optic Transmitter, Range 6.2 Miles.....	795.55	54.18
27 16 16 00-0006 EA Fiber Optic MM Dual Video Transmitter Video Presence Indicator.....	1,035.71	106.73
27 16 16 00-0007 Fiber Optic Repeaters (27 16 16)		
Note: Consist of transmitter and receiver, back-to-back. Excludes power source.		
27 16 16 00-0008 EA Fiber Optic Repeater, 6.2 Miles Transmitter And Receiver Back-Back, No Power.....	903.92	108.38

27 Communications
27 10 Structured Cabling
 27 16 Communications Connecting Cords, Devices, and Adapters



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 16 16 00-0009	EA		Fiber Optic Digital Repeater, 2,000 Miles Transmitter And Receiver Back-Back, No Power	1,424.55	216.75
27 16 16 00-0010			Fiber Optic Transceivers (27 16 16)		
27 16 16 00-0011	EA		Fiber Optic Transceivers, 3,000 Miles Range	958.41	216.75
27 16 16 00-0012	EA		Fiber Optic Transceivers, Digital 2,000 Miles Range	958.41	216.75
27 16 16 00-0013	EA		Fiber Optic Ethernet Transceiver	1,256.59	325.12
27 16 16 00-0014	EA		Transceiver (Low Cost Bi- Directional).....	450.95	81.28
27 16 19			Communications Patch Cords, Station Cords, and Cross Connect Wire (27 16)		
27 16 19 00-0001			Cross Connect Wire (27 16 19)		
			Note: Up to 20' length.		
27 16 19 00-0002	EA		2-Pair Cross Connect Wire	17.27	
27 16 19 00-0003	EA		3-Pair Cross Connect Wire	23.12	
27 16 19 00-0004	EA		4-Pair Cross Connect Wire	28.92	
27 16 19 00-0005			Fiber Optic Patch Cords (27 16 19)		
27 16 19 00-0006			Simplex Fiber Optic Patch Cables (27 16 19 00-0005)		
27 16 19 00-0007			Singlemode, Simplex Fiber Optic Patch Cables (27 16 19 00-0006)		
27 16 19 00-0008	EA		ST To ST Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	51.31	
			For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0009	EA		ST To SC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	41.54	
			For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0010	EA		ST To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	54.25	
			For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0011	EA		SC To SC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	43.77	
			For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0012	EA		SC To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	50.91	
			For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0013	EA		LC To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	50.12	
			For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0014			Duplex Fiber Optic Patch Cables (27 16 19 00-0005)		
27 16 19 00-0015			Singlemode, Duplex Fiber Optic Patch Cables (27 16 19 00-0014)		
27 16 19 00-0016	EA		ST To ST Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	90.61	
			For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0017	EA		ST To SC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	87.86	
			For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0018	EA		ST To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	97.65	
			For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0019	EA		SC To SC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable.....	75.55	
			For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0020	EA		SC To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable.....	89.80	
			For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0021	EA		LC To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	88.24	
			For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0022			Multimode, Duplex Fiber Optic Patch Cables (27 16 19 00-0014)		
27 16 19 00-0023	EA		ST To ST Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	68.01	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0024	EA		ST To SC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	74.40	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0025	EA		ST To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	75.06	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0026	EA		ST To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	77.11	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0027	EA		SC To SC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	68.29	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0028	EA		SC To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	77.47	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0029	EA		SC To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	91.33	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0030	EA		MTRJ To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	62.39	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0031	EA		LC To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	76.28	
			For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0032			Fiber Optic Cable Pig Tail (27 16 19)		
27 16 19 00-0033	EA		Simplex Fiber Optic Cable Pig Tail	76.59	37.93
27 16 19 00-0034	EA		Duplex Fiber Optic Cable Pig Tail.....	99.78	37.93
27 16 19 00-0035			Ethernet Patch Cords (27 16 19)		
27 16 19 00-0036	EA		3' Category 5E Patch Cables With Boots.....	17.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 16 19 00-0037 EA 5' Category 5E Patch Cables With Boots.....	18.95	
27 16 19 00-0038 EA 7' Category 5E Patch Cables With Boots.....	20.71	
27 16 19 00-0039 EA 10' Category 5E Patch Cables With Boots.....	30.05	
27 16 19 00-0040 EA 15' Category 5E Patch Cables With Boots.....	37.51	
27 16 19 00-0041 EA 25' Category 5E Patch Cables With Boots.....	50.80	
27 16 19 00-0042 EA 3' Category 6 Patch Cables With Boots.....	19.28	
27 16 19 00-0043 EA 5' Category 6 Patch Cables With Boots.....	23.71	
27 16 19 00-0044 EA 7' Category 6 Patch Cables With Boots.....	23.80	
27 16 19 00-0045 EA 10' Category 6 Patch Cables With Boots.....	27.94	
27 16 19 00-0046 EA 15' Category 6 Patch Cables With Boots.....	36.85	
27 16 19 00-0047 EA 25' Category 6 Patch Cables With Boots.....	47.21	
27 16 19 00-0048 EA 50' Category 6 Patch Cables With Boots.....	76.35	
27 16 19 00-0049 EA 100' Category 6 Patch Cables With Boots.....	134.10	
27 16 19 00-0050 EA 3' Category 6A Patch Cables With Boots.....	37.29	
27 16 19 00-0051 EA 5' Category 6A Patch Cables With Boots.....	39.93	
27 16 19 00-0052 EA 7' Category 6A Patch Cables With Boots.....	41.90	
27 16 19 00-0053 EA 10' Category 6A Patch Cables With Boots.....	47.56	
27 16 19 00-0054 EA 15' Category 6A Patch Cables With Boots.....	57.48	
27 16 19 00-0055 EA 25' Category 6A Patch Cables With Boots.....	74.45	
27 16 19 00-0056 EA 50' Category 6A Patch Cables With Boots.....	112.54	
27 16 19 00-0057 EA 100' Category 6A Patch Cables With Boots.....	199.94	
27 16 19 00-0058 EA 3' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E03-06).....	17.20	
27 16 19 00-0059 EA 5' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E05-06).....	18.95	
27 16 19 00-0060 EA 7' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E07-06).....	20.71	
27 16 19 00-0061 EA 10' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E10-06).....	30.05	
27 16 19 00-0062 EA 15' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E15-06).....	37.51	
27 16 19 00-0063 EA 25' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E25-06).....	50.80	
27 16 19 00-0064 EA 3' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC603-06).....	19.28	
27 16 19 00-0065 EA 5' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC605-06).....	23.71	
27 16 19 00-0066 EA 7' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC607-06).....	23.80	
27 16 19 00-0067 EA 10' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC610-06).....	27.94	
27 16 19 00-0068 EA 15' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC615-06).....	36.85	
27 16 19 00-0069 EA 25' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC625-06).....	47.21	
27 16 19 00-0070 EA 3' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A03-09).....	37.29	
27 16 19 00-0071 EA 5' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A05-09).....	39.93	
27 16 19 00-0072 EA 7' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A07-09).....	41.90	
27 16 19 00-0073 EA 10' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A10-09).....	47.56	
27 16 19 00-0074 EA 15' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A15-09).....	57.48	
27 16 19 00-0075 EA 25' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A25-09).....	74.45	

27 20 Data Communications ⁽²⁷⁾

27 21 Data Communications Network Equipment ^(27 20)

Note: Includes testing of new devices and certification.

27 21 16 Data Communications Routers, CSU/DSU, Multiplexers, Codecs, and Modems

^(27 21)

27 21 16 00-0001 Fiber Optic Modems ^(27 21 16)

27 21 16 00-0002 EA Fiber Optic Modems, Range 6.2 Miles.....	1,578.78	216.75
27 21 16 00-0003 EA Fiber Optic Modem, Range 3.1 Miles, 12 Channel.....	3,010.39	216.75

27 21 16 00-0004 Ethernet Hubs and Switches ^(27 21 16)

27 21 16 00-0005 EA 16 Port Managed Hub With Fiberport And Standard Management.....	3,793.16	162.86
27 21 16 00-0006 EA 16 Port Unmanaged Hub.....	559.62	108.58
27 21 16 00-0007 EA 12 Port, Industrial Ethernet Switch (Cisco IE-4000-4GC4GP4G-E).....	5,266.49	108.58
27 21 16 00-0008 EA Power Supply (Cisco PWR-IE170W-PC-AC).....	1,555.90	54.28

27 21 16 00-0009 Network Equipment ^(27 21 16)

27 21 16 00-0010 Communications Entrance Protection ^(27 21 16 00-0009)

27 21 16 00-0011 EA 100-Pair, 5 Pin Configuration, 110 Termination, Building Entrance Terminal With Cover (Porta 24100-110-M110C).....	1,075.94	81.43
Note: Excludes terminations.		
27 21 16 00-0012 EA Solid State Protector Module With 4 OHM Heat Coils (CommScope 4C1S).....	12.96	1.08

27 21 16 00-0013 Communications Cabinets, Racks, Frames And Enclosures ^(27 21 16 00-0009)

27 21 16 00-0014 EA 19" Width x 36" Height x 24" Depth, Wall Mounted Telecommunications Enclosure (Chatsworth 11840-736).....	1,309.74	81.43
For Fan Kit (Chatsworth 12804-701), Add	184.23	
27 21 16 00-0015 EA 10 Outlet, 125 Volt, 20 Amperes, Telecommunications Cabinet Power Strip (Chatsworth 13239-757).....	1,208.15	5.43

27 21 16 00-0016 Communications Termination Blocks And Patch Panels ^(27 21 16 00-0009)

27 21 16 00-0017 Communications Termination Blocks ^(27 21 16 00-0016)

27 21 16 00-0018 EA 4-Pair, 300-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058810).....	335.94	16.26
27 21 16 00-0019 EA 5-Pair, 300-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058802).....	312.45	16.26
27 21 16 00-0020 EA 4-Pair, 900-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058869).....	752.89	16.26
27 21 16 00-0021 EA 5-Pair, 900-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058851).....	700.05	16.26

27	Communications
27 20	Data Communications
27 21	Data Communications Network Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 16 00-0022 EA 110 Connector System Mounting Brackets (CommScope 107535593).....	103.37	16.26
27 21 16 00-0023 EA 110 Connector System Mounting Brackets (CommScope 107535585).....	111.91	16.26
27 21 16 00-0024 EA 110 Connector System Mounting Brackets (CommScope 107098816).....	127.89	16.26
27 21 16 00-0025 Communications Copper Patch Panels (2721 16 00-0016) Note: Excludes cabinet and terminations.		
27 21 16 00-0026 EA 24 Port, Category 5E Patch Panel (CommScope 108208919).....	328.58	35.28
27 21 16 00-0027 EA 48 Port, Category 5E Patch Panel (CommScope 108208935).....	602.87	43.43
27 21 16 00-0028 EA 24 Port, Category 6 Patch Panel (CommScope 760062372).....	489.54	35.28
27 21 16 00-0029 EA 48 Port, Category 6 Patch Panel (CommScope 760062380).....	918.10	43.43
27 21 16 00-0030 Communications Optical Fiber Patch Panels (2721 16 00-0016)		
27 21 16 00-0031 Closet Connector Housings (2721 16 00-0030)		
27 21 16 00-0032 EA 48 Fiber Total Capacity, Closet Connector Housing (Corning CCH-01U).....	473.00	21.71
Note: Accepts up to 2 closet connector housing panels. Excludes panels.		
27 21 16 00-0033 EA 96 Fiber Total Capacity, Closet Connector Housing (Corning CCH-02U).....	554.25	21.71
Note: Accepts up to 4 closet connector housing panels. Excludes panels.		
27 21 16 00-0034 EA 288 Fiber Total Capacity, Closet Connector Housing (Corning CCH-04U).....	694.33	21.71
Note: Accepts up to 12 closet connector housing panels. Excludes panels.		
27 21 16 00-0035 EA SC Duplex Multimode, 62.5 Micron, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-91).....	118.37	10.86
27 21 16 00-0036 EA SC Duplex Singlemode, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-59).....	161.61	10.86
27 21 16 00-0037 EA SC Simplex Multimode, 62.5 Micron, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-56).....	133.64	10.86
27 21 16 00-0038 EA SC Simplex Singlemode, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-3C).....	175.59	10.86
27 21 16 00-0039 Communications Cable Management (2721 16 00-0009)		
27 21 16 00-0040 Horizontal Cable Communication Cable Management (2721 16 00-0039)		
27 21 16 00-0041 EA 1.7" Height, 19" Width, 3.7" Depth, 1 RU, Front Only, Horizontal Cable Manager (Panduit WMPFSE).....	146.33	21.71
27 21 16 00-0042 EA 3-1/2" Height, 19" Width, 3.7" Depth, Horizontal Cable Manager (Panduit WMPF1E).....	151.66	21.71
27 21 16 00-0043 Vertical Communication Cable Management (2721 16 00-0039)		
27 21 16 00-0044 EA 6" Width x 84" Height, Double-Sided Vertical Cabling Section (Chatsworth 11729-703).....	918.04	54.28
27 21 16 00-0045 EA 19" Width x 84" Height, Universal Rack (Chatsworth 48353-703).....	952.52	54.28
27 21 16 00-0046 EA 23" Width x 84" Height, Universal Rack (Chatsworth 48383-703).....	1,030.19	54.28
27 21 16 00-0047 Communications Patch Cords, Station Cords, And Cross Connect Wire (2721 16 00-0009)		
27 21 16 00-0048 Premise Cross-Connect Wire (2721 16 00-0047)		
27 21 16 00-0049 LF 1-Pair, 22 AWG Premise Cross-Connect Wire (General Cable 7041973).....	1.12	0.54
27 21 16 00-0050 Pathways For Communications Systems (2721 16 00-0009)		
27 21 16 00-0051 Conduits And Backboxes For Communication Systems (2721 16 00-0050)		
27 21 16 00-0052 Flexible Conduit For Communication Systems (2721 16 00-0051)		
27 21 16 00-0053 CLF 1" Diameter, Riser Rated, Non-Metallic Flexible Conduit With Pull Tape (Carlton DF4X1C).....	495.86	195.07
27 21 16 00-0054 CLF 1" Diameter, Plenum Rated, Non-Metallic Flexible Conduit With Pull Tape (Carlton CF4X1C).....	774.77	195.07
27 21 16 00-0055 Tube Cables For Communication Systems (2721 16 00-0051)		
27 21 16 00-0056 Outdoor/All-Dielectric Tube Cables (2721 16 00-0055)		
27 21 16 00-0057 CLF Two Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC02TOX).....	400.99	130.05
27 21 16 00-0058 CLF Seven Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC07TOX).....	605.76	162.56
27 21 16 00-0059 CLF Nineteen Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC19TOX).....	1,024.88	195.07
27 21 16 00-0060 Indoor/Riser Rated Tube Cables (2721 16 00-0055)		
27 21 16 00-0061 CLF Two Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC02TRX).....	464.77	130.05
27 21 16 00-0062 CLF Four Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC04TRX).....	571.58	146.30
27 21 16 00-0063 CLF Seven Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC07TRX).....	650.05	162.56
27 21 16 00-0064 CLF Nineteen Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC19TRX).....	1,225.07	195.07
27 21 16 00-0065 Indoor/Plenum Rated Tube Cables (2721 16 00-0055)		
27 21 16 00-0066 CLF Single Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC01TPX).....	331.90	130.05
27 21 16 00-0067 CLF Two Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC02TP2).....	494.88	130.05
27 21 16 00-0068 CLF Four Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC04TP2).....	777.08	146.30
27 21 16 00-0069 CLF Seven Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC07TP2).....	1,144.31	162.56
27 21 16 00-0070 CLF Nineteen Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC19TP2).....	3,643.23	195.07
27 21 16 00-0071 Unjacketed Single Tube Cables (2721 16 00-0055)		
27 21 16 00-0072 CLF Single Tube, Unjacketed Single Tube Cable (Sumitomo TC01TGX).....	282.30	130.05



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 16 00-0073 Multimode Fiber Bundles <small>(2721 16 00-0055)</small>		
Note: Includes optical fiber cables.		
27 21 16 00-0074 CLF 2-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FR02M6)	125.25	39.02
27 21 16 00-0075 CLF 4-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB04M6)	194.34	39.02
27 21 16 00-0076 CLF 6-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB06M6)	268.75	39.02
27 21 16 00-0077 CLF 12-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB12M6)	495.51	39.02
27 21 16 00-0078 CLF 18-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB18M6)	720.70	45.51
27 21 16 00-0079 CLF 24-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB24M6)	947.46	45.51
27 21 16 00-0080 Singlemode Fiber Bundles <small>(2721 16 00-0055)</small>		
Note: Includes optical fiber cables.		
27 21 16 00-0081 CLF 2-Fiber, Singlemode Fiber Bundle (Sumitomo FR02SX)	111.08	39.02
27 21 16 00-0082 CLF 4-Fiber, Singlemode Fiber Bundle (Sumitomo FB04SX)	141.20	39.02
27 21 16 00-0083 CLF 6-Fiber, Singlemode Fiber Bundle (Sumitomo FB06SX)	166.00	39.02
27 21 16 00-0084 CLF 12-Fiber, Singlemode Fiber Bundle (Sumitomo FB12SX)	213.83	39.02
27 21 16 00-0085 CLF 18-Fiber, Singlemode Fiber Bundle (Sumitomo FB18SX)	330.96	45.51
27 21 16 00-0086 CLF 24-Fiber, Singlemode Fiber Bundle (Sumitomo FB24SX)	439.03	45.51
27 21 16 00-0087 Tube Distribution Cabinets <small>(2721 16 00-0055)</small>		
27 21 16 00-0088 EA Modular Tube Distribution Cabinet (Sumitomo DE06MDU)	246.35	54.28
Note: Up to six 7-tube cables or two 19-tube cables.		
27 21 16 00-0089 Modular Fiber Termination Cabinets <small>(2721 16 00-0055)</small>		
27 21 16 00-0090 EA 24-Fiber Capacity, Wall Mount, Modular Fiber Termination Cabinet (Sumitomo FT24WFM)	315.82	54.28
27 21 16 00-0091 EA 48-Fiber Capacity, Wall Mount, Modular Fiber Termination Cabinet (Sumitomo FT48WFM)	337.78	54.28
27 21 16 00-0092 Tube Distribution Accessories <small>(2721 16 00-0055)</small>		
27 21 16 00-0093 EA Plastic Push/Pull Quick Release Pneumatic Cap For 8 mm Tube (Sumitomo DE08MA)	13.32	5.43
27 21 16 00-0094 EA Plastic Push/Pull Quick Release Pneumatic Coupling For 8 mm Tube (Sumitomo DE08MC2)	14.86	5.43
27 21 16 00-0095 EA Brass Push/Pull Quick Release Pneumatic Coupling For 8 mm Bulkhead Tube (Sumitomo DE08MB)	18.83	5.43
27 21 16 00-0096 Communications Optical Fiber Cabling <small>(2721 16 00-0009)</small>		
27 21 16 00-0097 Communications Optical Fiber Cable Splicing And Terminations <small>(2721 16 00-0096)</small>		
27 21 16 00-0098 Field Installed Fiber Connectors <small>(2721 16 00-0097)</small>		
27 21 16 00-0099 EA SC Type, Singlemode, Field Installed Fiber Connector (Corning 95-200-42)	41.23	8.14
27 21 16 00-0100 EA SC Type, 62.5 Micron Multimode, Field Installed Fiber Connector (Corning 95-000-41)	36.15	8.14
27 21 16 00-0101 Buffer Tube Fan-Out Kits <small>(2721 16 00-0097)</small>		
27 21 16 00-0102 Buffer Tube Breakout Kits (Sumitomo) <small>(2721 16 00-0101)</small>		
Note: Includes 900 micron tubing.		
27 21 16 00-0103 EA 2-Fiber Breakout Kit (Sumitomo FTFLD02)	238.01	108.38
27 21 16 00-0104 EA 4-Fiber Breakout Kit (Sumitomo FTFLD04)	243.32	108.38
27 21 16 00-0105 EA 6-Fiber Breakout Kit (Sumitomo FTFLD06)	248.02	108.38
27 21 16 00-0106 EA 12-Fiber Breakout Kit (Sumitomo FTFLD12)	262.60	108.38
27 21 16 00-0107 EA 18-Fiber Breakout Kit (Sumitomo FTFLD18)	282.55	108.38
27 21 16 00-0108 EA 24-Fiber Breakout Kit (Sumitomo FTFLD24)	297.36	108.38
27 21 16 00-0109 Buffer Tube Fan-Out Kits (Corning) <small>(2721 16 00-0101)</small>		
27 21 16 00-0110 EA 12 Fiber, 25' Tube Length, Indoor Buffer Tube Fan-Out Kit (Corning Fan-BT25-12)	240.47	108.38
27 21 16 00-0111 EA 12 Fiber, 25' Tube Length, Outdoor Buffer Tube Fan-Out Kit (Corning Fan-OD25-12)	293.10	108.38
27 21 16 00-0112 Communications Copper Cabling <small>(2721 16 00-0009)</small>		
27 21 16 00-0113 Copper Communications Cable Splicing And Terminations <small>(2721 16 00-0112)</small>		
27 21 16 00-0114 Copper Communications Cable Splice Cases <small>(2721 16 00-0113)</small>		
27 21 16 00-0115 EA 6.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8000626)	1,113.95	216.75
27 21 16 00-0116 EA 9.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8000630)	1,308.43	216.75
27 21 16 00-0117 EA 12.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8006219)	1,954.66	216.75
27 21 16 00-0118 Modular Splice Connectors <small>(2721 16 00-0113)</small>		
27 21 16 00-0119 EA 25-Pair, Straight Body Only, 26-24 Gauge Cable, Filled Modular Splice Connector (3M 710-SC1-25)	117.82	54.18
27 21 16 00-0120 EA 25-Pair, Straight/Half Tap Body, 26-24 Gauge Cable, Dry Modular Splice Connector (3M 710-SD1-25)	115.72	54.18
27 21 16 00-0121 EA 25-Pair, Straight/Half Tap Body, 26-24 Gauge Cable, Filled Modular Splice Connector (3M 710-TC1-25)	117.86	54.18
27 21 16 00-0122 EA 25-Pair, Bridge Body, 26-22 Gauge Cable, Filled Modular Splice Connector (3M 710-BC1-25)	117.57	54.18



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 21 26 Data Communications Network Management ^(27 21)

27 21 26 00-0001 Data Communications Network Management ^(27 21 26)

27 21 26 00-0002	EA	3 Port, Terminal/Serial Device Server (Comtrol 99560-9).....	639.01	27.10
27 21 26 00-0003	EA	2 Port, Terminal/Serial Device Server (Comtrol 99550-0).....	490.03	27.10
27 21 26 00-0004	EA	4 Port, DB9 Terminal/Serial Device Server (Comtrol 99445-9).....	686.86	27.10
27 21 26 00-0005	EA	4 Port, DB9 Terminal/Serial Device Server (Comtrol 99448-0).....	1,081.53	27.10
27 21 26 00-0006	EA	24 Watt, Din Rail Mountable, Power Adapter (Comtrol PS1020).....	99.70	
27 21 26 00-0007	EA	Remote Data Port, Spectra Positioning System (Pelco IPS_RDPE_2).....	476.69	16.26
27 21 26 00-0008	EA	Sennetech Code Translator (Pelco SCT_100_AD232).....	789.89	27.10
27 21 26 00-0009	EA	VPN Router (Cisco 819HG).....	4,619.22	347.43
27 21 26 00-0010	EA	Cisco Catalyst 3000 Series Switches (Cisco IE-3000 - 8TC).....	3,267.93	347.43
27 21 26 00-0011	EA	WS-C4507R+E Chassis, Two WS-X4648-RJ45V+E, Sup7L-E, LAN Base (Cisco WS-C4507RE+96V+).....	17,531.37	130.05
27 21 26 00-0012	EA	SMARTnet Extended Service Agreement, SNTC-8X5XNBD WS-C4507R+E Chassis,2 WS-X4648-RJ45V+E (Cisco CON-SNT-C4507REV).....	556.78	
27 21 26 00-0013	EA	Sup8-E And WS-X4748-RJ45V+E Upgrade For Bundle (Cisco C4500E-S7L-S8).....	11,988.88	130.05
27 21 26 00-0014	EA	Catalyst 4500 E-Series Redundant Supervisor 8-E (Cisco WS-X45-SUP8-E/2).....	26,135.81	130.05
27 21 26 00-0015	EA	Catalyst 4500 2GB SD Memory Card (Cisco SD-X45-2GB-E).....	616.57	10.86
27 21 26 00-0016	EA	Catalyst 4500 4200W AC Dual Input Power Supply (Data + PoE) (Cisco PWR-C45-4200ACV).....	4,548.36	13.54
27 21 26 00-0017	EA	Catalyst 4500 4200W AC Dual Input Power Supply (Data + PoE) (Cisco PWR-C45-4200ACV/2).....	3,924.52	13.54
27 21 26 00-0018	EA	13', NEMA 6-20 To IEC-C19 Power Cable (Cisco CAB-US620P-C19-US).....	69.47	5.43
27 21 26 00-0019	EA	1000BASE-SX SFP Transceiver Module, MMF, 850nm, DOM (Cisco GLC-SX-MMD=).....	218.27	54.18
27 21 26 00-0020	EA	Cisco Catalyst 3850 24 Port Data IP Base (Cisco WS-C3850-24TS).....	3,378.85	130.05
27 21 26 00-0021	EA	SMARTnet Extended Service Agreement, 8X5XNBD Cisco Catalyst 3850 24 Port Data IP Base (Cisco CON-SNT-WSC384TS).....	732.59	
27 21 26 00-0022	EA	North America AC Type A Power Cable (Cisco CAB-TA-NA).....	22.67	5.43
27 21 26 00-0023	EA	350 Watt AC Power Supply (Cisco PWR-C1-350WAC).....	304.02	13.54
27 21 26 00-0024	EA	Cisco Catalyst 3850 4x1GE Network Module (Cisco C3850-NM-4-1G).....	759.75	13.57
27 21 26 00-0025	EA	1' (30cm), Catalyst 3750X Stack Power Cable (Cisco CAB-SPWR-30CM).....	110.84	5.43
27 21 26 00-0026	EA	Rack Mount Switch 16 100 SFP 8 10/100 PoE 2 Geuplinks (Cisco IE-3010-16S-8PC).....	4,024.50	130.05
27 21 26 00-0027	EA	SMARTnet Extended Service Agreement, 8X5XNBD IA Rack Mount Switch 16 100 SFP 8 10/10 (Cisco CON-SNT-301016S8).....	735.52	
27 21 26 00-0028	EA	IE 3010 Power Supply (Cisco PWR-RGD-AC-DC/IA).....	649.81	13.54
27 21 26 00-0029	EA	IE 3010 AC-DC Redundant Power Supply (Cisco PWR-RGD-AC-DC/IAR).....	660.07	13.54
27 21 26 00-0030	EA	4 Ethernet 10/100 Ports And 2 Dual-Purpose Uplinks, Industrial Ethernet Switch (Cisco IE-3000-4TC).....	1,379.64	130.05
27 21 26 00-0031	EA	Expansion Power Module For Cisco IE-3000-4TC (Cisco PWR-IE50W-AC-IEC).....	356.82	13.57
27 21 26 00-0032	EA	4 Port, Expansion SFP Module for IE-3000-4TC (Cisco IEM-3000-4SM).....	1,682.83	13.57
27 21 26 00-0033	EA	Router (CISCO IR829).....	1,500.52	54.28

27 21 29 Data Communications Switches and Hubs ^(27 21)

27 21 29 00-0001 Data Communications Multimedia Modular Patch Panels ^(27 21 29)

Note: Unloaded multimedia patch panels that accept modular jacks for category 3, 5e, 6, fiber optic, etc. Excludes rack, modular jacks and terminations. See CSI section 27 15 43 00-0051 for modular jacks.

27 21 29 00-0002	EA	12 Port, Wall Mount Multimedia Modular Patch Panel, Unloaded.....	130.55	5.42
27 21 29 00-0003	EA	16 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	144.45	5.42
27 21 29 00-0004	EA	24 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	171.32	5.42
27 21 29 00-0005	EA	36 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	179.58	5.42
27 21 29 00-0006	EA	48 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	195.88	6.78
27 21 29 00-0007	EA	24 Port, Rack Mount Multimedia Modular Angled Patch Panel, Unloaded.....	186.42	5.42
27 21 29 00-0008	EA	48 Port, Rack Mount Multimedia Modular Angled Patch Panel, Unloaded.....	233.96	6.78
27 21 29 00-0009	EA	Rack Mount Rear Cable Management Bar.....	61.49	6.78

27 21 33 Data Communications Wireless Access Points ^(27 21)

27 21 33 00-0001 Data Communications Wireless Access Points ^(27 21 33)

27 21 33 00-0002	EA	Base Station Unit, 300 Mbps, MIMO 2x2, Type-N Connectors US PoE (Proxim Wireless MP-8200-BSU).....	4,605.48	162.56
27 21 33 00-0003	EA	Base Station Unit, 300 Mbps, MIMO 2x2, 23 dBi, 10° Panel Antenna - US PoE (Proxim Wireless MP-8250-BS1).....	11,092.80	162.56
27 21 33 00-0004	EA	Base Station Unit, 300 Mbps, MIMO 2x2, 16 dBi, 90 Degree Sector Antenna US PoE (Proxim Wireless MP-8250-BS9).....	11,092.80	162.56
27 21 33 00-0005	EA	Subscriber Unit, 300 Mbps, MIMO 2x2, Type-N Connectors US PoE (Proxim Wireless MP-8200-SUA).....	1,789.96	162.56
27 21 33 00-0006	EA	Subscriber Unit, 300 Mbps, MIMO 2x2, 23 dBi, Panel Antenna US PoE (Proxim Wireless MP-8250-SUR).....	2,112.34	187.51
27 21 33 00-0007	EA	Base Station Unit, 300 Mbps, MIMO 3x3, GPS Sync Ready, Type-N Connectors - US PoE (Proxim Wireless MP-8200-BSU-G).....	5,934.40	187.51
27 21 33 00-0008	EA	Base Station Unit, 300 Mbps, MIMO 2x2, GPS Sync Ready, 23 dBi, 10° Panel Antenna - US PoE (Proxim Wireless MP-8250-BS1-G).....	9,023.63	187.51
27 21 33 00-0009	EA	Base Station Unit, 300 Mbps, MIMO 2x2, GPS Sync Ready, 16 dBi, 90° Sector Antenna - US PoE (Proxim Wireless MP-8250-BS9-G).....	9,023.63	187.51
27 21 33 00-0010	EA	50 Mbps (upgradable to 100 Mbps), MIMO 2x2, 15 dBi integrated antenna - US PoE (Proxim Wireless QB-825-LNK-50).....	1,849.36	62.50
27 21 33 00-0011	EA	100 Mbps, MIMO 2x2, 15 dBi integrated antenna - US PoE (Proxim Wireless QB-825-LNK-100).....	1,875.30	62.50
27 21 33 00-0012	EA	Surge, Gigabit Surge Protector With Shielded RJ45 (Proxim Wireless ETH-SURGE-1G).....	172.79	31.25
27 21 33 00-0013	EA	FlexPort uWave AdaptRate And Modulation Feature Upgrade (BridgeWave Communications FPUWAVE-UPG-ARM).....	1,611.72	
27 21 33 00-0014	EA	1' High Performance Dish Antenna, Low Profile, 21.2-23.6 GHz, WR42 Flange, SOI (Radio Waves HPLP1-23RR).....	568.45	54.18
27 21 33 00-0015	EA	Cellular Phone / Wi-Fi Antenna (Sierra Wireless AP-CWG-Q-S222-WH).....	469.92	54.18
27 21 33 00-0016	EA	Cell LTE MIMO Antenna (Sierra Wireless 1810075).....	81.73	21.67
27 21 33 00-0017	EA	AirLink GX400 Power Adapter (Sierra Wireless 2700384).....	73.84	
27 21 33 00-0018	EA	AirLink GX400 Power Cable (Sierra Wireless 2000380).....	42.79	
27 21 33 00-0019	EA	Cellular/PCS/LTE, Hockey Puck Antenna (Sierra Wireless AP-C-Q-S2-BL).....	298.76	54.18



Communications	27	27
Data Communications	27 20	
Data Communications Network Equipment	27 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 33 00-0020 EA Cellular/PCS/LTE/GPS, Multi-Band Antenna (Sierra Wireless AP-CG-Q-S22-BL).....	300.67	54.18
27 21 33 00-0021 EA 2 Way, RF Power Divider, 790-920 MHZ (Telewave ANTPD28D)	413.04	54.28
27 21 33 00-0022 EA Wireless Cellular Modem (Sierra Wireless AirLink GX400 EVDO/GPS).....	1,051.07	81.43
27 21 33 00-0023 EA Wireless Cellular Modem (Sierra Wireless AirLink GX450 Rugged).....	1,347.64	81.43
27 21 33 00-0024 EA Magnetic Mount Cellular Antenna (Wilson Electronics 301125)	74.05	16.26
27 21 33 00-0025 EA Yagi Antenna, 890-960 MHz, 10 dBd Gain (PCTEL Bluewave Antennas BGYD890K).....	283.93	62.50
27 21 33 00-0026 EA Andrew® Omni Antenna, 890-960 MHz, 360° Horizontal Beamwidth, Fixed Electrical Tilt, Fits On 38-51 mm (1-1/2 to 2 in) OD Pipe (Commscope DB583-Y)	940.90	62.50
27 21 33 00-0027 EA Single Channel Bluetooth Sensor With Bluetooth Module And Antenna (DeepBlue SC)	4,643.37	54.28
27 21 33 00-0028 EA Point-to-Point Wireless Bridge (Proxim Tsunami® QB-10150).....	2,354.63	54.18

27 22 Data Communications Hardware (27 20)

27 22 19 Data Communications Servers (27 22)

27 22 19 00-0001 Network Communications Frames And Enclosures (27 22 19)

27 22 19 00-0002 EA Communications Equipment Enclosure	20,031.52	325.72
Note: APX Enclosures, Inc. part number TCDD727236 or an approved equivalent. UL listed, 72"Hx72"Wx36"D, .0125 5052 aluminum construction, polyester powder finish, ANSI 61 grey out/white in, dual swing rack 19"/23", standard EIA spacing, tapped 12-24 adjustable channels on side, thermostat kit, fluorescent light kit, 3PT, latch on main door with pad lock provisions, plywood back panels, and insulation thru-out) with a 12,000 BTU air conditioning unit housed in a stainless steel enclosure.		
27 22 19 00-0003 EA Wall Mounted Equipment Cabinet.....	1,305.98	108.58
Note: Mid-Atlantic DWR-24-22 PD.		
27 22 19 00-0004 EA APX 2 Bay Communications Equipment Enclosure, 72" High x 72" Wide x 36" Deep, 14 Ga. Type 304 Stainless Steel	9,872.83	
Note: UI 508A Listed Enclosure, NEMA 4x (Two Bay) APX Double Door Front Style, Stainless Steel construction with a natural mill finish. Includes Three Point Door Latching on (1) Door with Stainless Steel Pad Lockable Handle, Sloped Lid Toward Rear of Cabinet, Door Wind Stay Brackets and Bars on Both Doors, R-4 Insulation Package on inside enclosure and doors, 3/4" Plywood Back panels on Rear Wall, (1) 19" Swing Out Rack in each bay with 12-24 Tapped Holes, Lifting Ears, Door Gasket Seals, Removable Center Post, Continuous Stile Hinges/Hardware, (2) Fluorescent Light Fixtures with door activated switches, (12,000 BTU) Air Conditioner (230 Volt) with Stainless Steel Shell Mounted to Sied Wall, (4) Three Prong Duplex Receptacles, Power Distribution Panel with 100 Amp Load Center, 100 AMP Main Breaker, Equipment Circuit Breakers, Surge Suppression, includes Fiber Storage Reels.		
27 22 19 00-0005 APX 3 Bay Communications Equipment Enclosure, 72" High x 108" Wide x 36" Deep, 14 Ga. Type 304 Stainless Steel	35,964.53	
Note: UI 508A Listed Enclosure, NEMA 4x (Three Bay) APX Three Door Front Style, Stainless Steel construction with a natural mill finish. Includes Three Point Door Latching on (3) Doors with Stainless Steel Pad Lockable Handle, Sloped Lid Toward Rear of Cabinet, Door Wind Stay Brackets and Bars on all three Doors, R-4 Insulation Package on inside enclosure and doors, 3/4" Plywood Back panels on Rear Wall, (1) 19" Swing Out Rack in each bay with 12-24 Tapped Holes, Two 33 RU Racks positioned inside left and right bays, Lifting Ears Door Gasket Seals, (2) Fixed Center Posts, Continuous Stile Hinges/Hardware, (3) Fluorescent Light Fixtures with door activated switches, (19,000 BTU) Air Conditioner (230 Volt) with Stainless Steel Shell Mounted to Sied Wall, (4) Three Prong Duplex Receptacles, Power Distribution Panel with 100 Amp Load Center, 100 AMP Main Breaker, Equipment Circuit Breakers, Surge Suppression, includes Fiber Storage Reels.		

27 24 Data Communications Peripheral Data Equipment (27 20)

27 24 19 External Drives (27 24)

27 24 19 00-0001 Network Equipment (27 24 19)

27 24 19 00-0002 EA 19" Rack Mountable 110-24T Ethernet Switch	568.38	36.09
Note: 24 x 10/100Base-TX LAN with SFP (miniGBic) port, Nortel Networks Limited 110-24T Managed Business Ethernet Switch - 24 x 10/100Base-TX LAN model #NT5S01AEE5. Includes testing.		
27 24 19 00-0003 EA 19" Rack Mountable Station Access Router	2,972.04	189.66
Note: Nortel Network part number SR2101031E5. Includes testing.		
27 24 19 00-0004 EA 19" Rack Mount LCD Monitor	1,417.45	86.69
Note: Nortel Network part number SR2101031E5. Includes testing.		
27 24 19 00-0005 EA 1000VA UPS (Uninterruptible Power Supply)	1,358.60	99.00
Note: APC SUA1000RM2U. Includes testing.		
27 24 19 00-0006 EA 1000VA UPS (Uninterruptible Power Supply)	541.97	99.00
Note: APC BR1000. Includes testing.		
27 24 19 00-0007 EA 1200VA UPS (Uninterruptible Power Supply)	556.72	99.00
Note: APC BR1200. Includes testing.		

27 30 Voice Communications (27)

27 31 Voice Communications Switching and Routing Equipment (27 30)

Note: Includes testing of new devices and certification.

27 31 13 PBX/Key Systems (27 31)

27 31 13 00-0001 Interior PBX Telephone System (27 31 13)

Note: Includes telephone instruments cabling and solid state switching.

27 31 13 00-0002 Interior PBX Telephone System (27 31 13 00-0001)

Note: Cost is for each line up to 1000 lines.

27 31 13 00-0003 EA 1 Line PBX Connection, Cost Per Each Line Up To 1,000	1,731.12	564.92
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27	Communications
27 30	Voice Communications
27 31	Voice Communications Switching and Routing Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 31 13 00-0004 Additional Telephones Less Solid State Switching (PBX) (27 31 13 00-0001)		
27 31 13 00-0005 EA Add For Each Additional PBX Phone Line Less Solid State Switching.....	599.82	44.43
27 31 13 00-0006 Telephones (27 31 13 00-0001)		
27 31 13 00-0007 EA Telephones, Desk Type Intercommunication Equipment.....	229.49	42.26
27 31 13 00-0008 EA Telephones, Wall Type Intercommunication Equipment.....	257.98	56.36
27 32 Voice Communications Terminal Equipment (27 30)		
Note: Includes testing of new devices and certification.		
27 32 13 Telephone Sets (27 32)		
27 32 13 00-0001 Interior Telephone Components (27 32 13)		
27 32 13 00-0002 EA Solid State Exchange Unit With Power Supply.....	7,053.79	990.32
27 32 13 00-0003 EA Dial Telephone - Handset In Cabinet.....	852.02	80.96
27 32 13 00-0004 EA Elevator Cab Telephone With Trailer Cable.....	426.34	86.80
27 32 13 00-0005 EA Loud Ring Bell, 6".....	332.89	80.52
27 32 13 00-0006 EA Audio/Visual Indicator.....	427.71	75.86
27 32 13 00-0007 EA Administrative Telephone With Digital Display.....	446.95	68.06
27 32 13 00-0008 EA Processing Unit For 16 Station System.....	2,185.85	555.20
27 32 13 00-0009 EA Handset For 16 Station System.....	314.17	55.27
27 32 13 00-0010 EA Handset In Cabinet, For 16 Station System.....	425.61	74.56
27 32 13 00-0011 MLF 20 Conductor Unshielded Cable, #22.....	2,751.44	1,195.04
27 32 13 00-0012 EA Power Supply For 16 Station System.....	384.73	147.49
27 32 13 00-0013 EA Intercom Terminal Board.....	335.23	166.03
27 32 13 00-0014 EA Power Supply For Five Station System, 24 Volt DC.....	400.70	147.49
27 32 13 00-0015 EA Telephone Communication Board, Insulated Blueboard 24" x 24" x 1/2" Thick.....	196.90	60.59
27 32 13 00-0016 EA Telephone Cabinet With Backboard 24" High x 24" Wide x 6" Deep.....	623.41	133.36
27 32 13 00-0017 EA Telephone Cabinet With Backboard 30" High x 24" Wide x 6" Deep.....	737.02	151.58
27 32 13 00-0018 EA Telephone Cabinet With Backboard 30" High x 30" Wide x 6" Deep.....	894.46	179.40
27 32 13 00-0019 EA Telephone Cabinet With Backboard 36" High x 30" Wide x 6" Deep.....	1,058.06	193.95
27 32 13 00-0020 EA Telephone Cabinet With Backboard 48" High x 30" Wide x 6" Deep.....	1,661.09	220.69
27 32 13 00-0021 EA Ring Rung 3".....	11.83	6.04
27 32 13 00-0022 EA G66B50 Telephone Blocks Including 50 Terminators, Exterior Ring, Marking, ID.....	29.89	10.73
27 32 13 00-0023 EA G110 Data Blocks Including Terminator, Exterior Ring, Marking, ID And Testing.....	53.87	22.00
27 32 13 00-0024 Interior Telephone Accessories (27 32 13)		
27 32 13 00-0025 EA Blank Telephone Receptacle, Exposed Devices - Complete.....	12.40	5.85
27 32 13 00-0026 EA 4-Pin Telephone Receptacle, Exposed Devices - Complete.....	28.60	22.55
27 32 13 00-0027 EA Dual Flush Mounted, Level 5, RJ-45 Jack, Complete.....	74.46	24.75
27 32 13 00-0028 EA Wall Mount, Level 5, RJ-45 Jack, Complete.....	68.91	24.75
27 32 13 00-0029 EA Terminating Strips, Inside.....	140.60	49.50
27 32 13 00-0030 EA Dual Outlet, 4-Pin Telephone Receptacle, Concealed Type RJ-45 - Complete.....	57.34	25.46
27 32 13 00-0031 EA Ready Access Closure 3 To 25 Pair.....	170.15	59.72
27 32 13 00-0032 EA Ready Access Closure 25 To 100 Pair.....	202.64	66.75
27 32 13 00-0033 EA Termination Block With Bracket 25 Pair.....	67.32	20.05
27 32 13 00-0034 EA RJ-11 Telephone Receptacle, Concealed Devices - Complete.....	56.19	25.14
27 32 13 00-0035 EA Interior Protected Terminal 25 Pair.....	866.95	144.79
27 32 13 00-0036 EA Interior Protected Terminal 50 Pair.....	1,057.38	147.06
27 32 13 00-0037 EA Pedestal 6" x 6" x 50" 3 To 100 Pair.....	342.16	60.26
27 32 13 00-0038 EA Pedestal 8" x 8" x 50" 100 To 300 Pair.....	355.47	60.26
27 32 13 00-0039 EA Pedestal 10" x 10" x 43" 300 To 600 Pair.....	472.40	77.05
27 32 13 00-0040 EA Pedestal 10" x 16" x 439 600 Pair.....	1,005.41	138.82
27 32 13 00-0041 EA Entrance Protector Terminal 100 Pair.....	1,431.70	158.44
27 32 13 00-0042 EA Gas Protection Module.....	18.68	5.42
27 32 13 00-0043 EA Terminating Boxes, Outside With 3 Element Protectors, Per Pair.....	37.63	4.95
27 32 26 Ring-Down Emergency Telephones (27 32)		
27 32 26 00-0001 Emergency Telephone (27 32 26)		
Note: Includes CB3000 speakerphone, 3 auxiliary inputs, 2 auxiliary outputs, phone line surge suppressor, analog telephone connection, 70 watt area light with blue beacon, high power strobe, lighted faceplate, 110VAC power, ultra weather resistant finish, vandal resistant hardware, UV resistant lens, dome vent; flat area for directory, access control or other options; 12.75" diameter/8'-6" height, 1/4" thick steel construction, foundation anchor kit, ADA compliant.		
27 32 26 00-0002 EA Code Blue 1-Standard Emergency Telephone Pedestal Unit (CB 1-s).....	10,545.76	446.20
Note: Includes IA4100 FP1 analog speakerphone with single red "Push For Help" button, "Push For Help" bezel, hard wire phone line, passive vent at top, 24V AC, and standard color.		
27 32 26 00-0003 EA Code Blue 1-Dual Emergency Telephone Pedestal Unit (CB 1-d).....	11,100.69	446.20
Note: Includes IA4100 FP1 analog speakerphone with single red "Push For Help" button, "Push For Help" bezel, blank stainless steel plate second opening, hard wire phone line, passive vent at top, 24V AC, and standard color.		
27 32 26 00-0004 EA Analog Speakerphone With Black "Info" Button And Red "Push For Help" Button Code Blue Option (Code Blue IA4100 FP2).....	184.98	
27 32 26 00-0005 EA Analog Speakerphone With Black "Call" Button, Keypad And Red "Push For Help" Button Code Blue Option (Code Blue IA4100 FP2-K).....	277.47	
27 32 26 00-0006 EA IP Speakerphone With Single Red "Push For Help" Button Code Blue Option (Code Blue IP5000 FP1).....	693.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 32 26 00-0007 EA IP Speakerphone With Back "Info" Button And Red "Push For Help" Button Code Blue Option (Code Blue IP5000 FP2).....	943.38	
27 32 26 00-0008 EA IP Speakerphone With Black "Call" Button, Keypad And Red "Push For Help" Button Code Blue Option (Code Blue IP5000 FP2-K).....	1,035.87	
27 32 26 00-0009 EA EMERGENCY (Raised Letters With Braille) Main Bezel Code Blue Option	18.50	
27 32 26 00-0010 EA EMERGENCY/EMERGENCIA (Raised Letters With Braille) Main Bezel Code Blue Option	18.50	
27 32 26 00-0011 EA Directory, Second Opening Code Blue Option.....	166.48	
27 32 26 00-0012 EA Camera Enclosure With Color IP Camera, Second Opening Code Blue Option.....	1,757.28	
27 32 26 00-0013 EA HID Card Reader, Second Opening Code Blue Option	813.90	
27 32 26 00-0014 EA HID Card Reader And Color IP Camera, Second Opening Code Blue Option	2,635.92	
27 32 26 00-0015 EA IP Wireless Communication Code Blue Option.....	5,540.06	
Note: 802.11g or secure mesh 5.8. (system UPS backup or unit Night Charge recommended). IP5000 VoIP Speakerphone option must be ordered when selecting IP Wireless Communications. Requires Base Unit(s) and site survey.		
27 32 26 00-0016 EA Active Venting Code Blue Option.....	295.96	
27 32 26 00-0017 EA Night Charge Power Code Blue Option	2,580.43	
Note: Requires 120V AC external power supplied to Code Blue unit.		
27 32 26 00-0018 EA Power Transformer Kit, Alternate Incoming Power Code Blue Option.....	647.42	
27 32 26 00-0019 EA Overhead Camera Mount Code Blue Option	1,470.57	
Note: Excludes camera.		
27 32 26 00-0020 EA Custom Color For Overhead Camera Mount Code Blue Option	64.74	
27 32 26 00-0021	City Police Call System (27 32 26)	
27 32 26 00-0022	Components (27 32 26 00-0021)	
27 32 26 00-0023 EA City Police Call System.....	819.04	126.36
27 32 26 00-0024 EA Concrete Foundation For Police Department Telephone Post.....	722.79	183.04

27 40 Audio-Video Communications (27)

27 41 Audio-Video Systems (27 40)

27 41 16 Integrated Audio-Video Systems and Equipment (27 41)

Note: Includes testing of new devices and certification.

27 41 16 00-0001	Television Distribution System (27 41 16)		
See CSI section 26 05 13 16-0001 for basic wiring, 26 05 19 16-0012 for basic wiring.			
27 41 16 00-0002	Mounted Television Support (27 41 16 00-0001)		
27 41 16 00-0003 EA	Ceiling Mounted Television Support, 19" To 20".....	443.45	121.60
27 41 16 00-0004 EA	Ceiling Mounted Television Support, 19" To 20" With Rack	576.65	135.71
27 41 16 00-0005 EA	Ceiling Mounted Television Support, 25" To 27".....	463.99	121.60
27 41 16 00-0006 EA	Ceiling Mounted Television Support, 25" To 27" With Rack	597.19	135.71
27 41 16 00-0007 EA	Wall Mounted Television Support, 13"	351.69	97.72
27 41 16 00-0008 EA	Wall Mounted Television Support, 13" With Rack.....	484.88	108.58
27 41 16 00-0009 EA	Wall Mounted Television Support, 19" To 20".....	378.64	97.72
27 41 16 00-0010 EA	Wall Mounted Television Support, 19" To 20" With Rack	511.83	108.58
27 41 16 00-0011 EA	Wall Mounted Television Support, 25" To 27".....	405.59	97.72
27 41 16 00-0012 EA	Wall Mounted Television Support, 25" To 27" With Rack	538.78	108.58
27 41 16 00-0013	Distribution System (27 41 16 00-0001)		
See CSI section 26 05 13 16-0001 for wire and cabling.			
27 41 16 00-0014	TV Distribution Rack (27 41 16 00-0013)		
27 41 16 00-0015 EA	Steel Rack Cabinet With Shelves	1,604.67	199.30
27 41 16 00-0016 EA	Switch And Pilot Light.....	240.54	88.54
27 41 16 00-0017 LF	Surface Raceway With Outlets	28.55	12.03
27 41 16 00-0018 EA	Service Label.....	33.52	16.58
27 41 16 00-0019	Head End Amplifier (27 41 16 00-0013)		
27 41 16 00-0020 EA	Head End Amplifier.....	1,070.62	132.65
27 41 16 00-0021	UHF In-Line Booster Amplifier And Power Supply (27 41 16 00-0013)		
27 41 16 00-0022 EA	UHF In-Line Booster.....	616.51	132.65
27 41 16 00-0023	Preamplifiers (27 41 16 00-0013)		
27 41 16 00-0024 EA	VHF Preamplifier	776.41	132.65
27 41 16 00-0025 EA	UHF Preamplifier	616.51	132.65
27 41 16 00-0026	Power Supplies (27 41 16 00-0013)		
27 41 16 00-0027 EA	Common Power Supply	1,109.16	189.55
27 41 16 00-0028	Line Splitter And Mixer (27 41 16 00-0013)		
27 41 16 00-0029 EA	Line Splitter.....	91.49	44.22

27 Communications
27 40 Audio-Video Communications
 27 41 Audio-Video Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 41 16 00-0030	EA		Two-Way Splitter.....	104.22	44.22
27 41 16 00-0031	EA		Frequency Filter.....	236.36	66.43
27 41 16 00-0032	EA		Line Splitter And Mixer.....	279.69	97.54
27 41 16 00-0033			Power Line Filters (27 41 16 00-0013)		
27 41 16 00-0034	EA		120-Volt Power Supply Line Filter.....	464.40	88.54
27 41 16 00-0035			Wall Box And Receiver Outlets (27 41 16 00-0013)		
27 41 16 00-0036	EA		Wall Box With Lockable Cover, Excluding Outlet Plug.....	236.36	66.43
27 41 16 00-0037	EA		TV Receiver Outlet Plug.....	104.22	44.22
27 41 16 00-0038	EA		TV Camera Outlet Plug.....	104.22	44.22
27 41 16 00-0039	EA		Audio Outlet Plug.....	88.27	44.22
27 41 16 00-0040	EA		12 Ft RG 6U Cable With G-59 And TV Set Fittings.....	184.57	88.54
27 41 16 00-0041	EA		Male Plug PL-259.....	104.22	44.22
27 41 16 00-0042	EA		Wall Box And Receiver Outlet Television Outlets.....	121.25	46.38
27 41 33			Master Antenna Television Systems (27 41)		
27 41 33 00-0001			Antenna Systems (27 41 33)		
27 41 33 00-0002			Antenna (27 41 33 00-0001)		
27 41 33 00-0003	EA		Amateur Radio Antenna.....	1,011.75	162.56
27 41 33 00-0004	EA		Multi-Band Radio Antenna.....	782.68	162.56
27 41 33 00-0005			Receptacles (27 41 33 00-0001)		
27 41 33 00-0006	EA		Amateur Radio Antenna System Receptacle With Mating Plugs And Adapter.....	220.39	66.43
27 41 33 00-0007	EA		Multi-Band Radio Antenna System Receptacle With Mating Plugs.....	220.39	66.43
27 50			Distributed Communications and Monitoring Systems (27)		
27 51			Distributed Audio-Video Communications Systems (27 50)		
27 51 17			Video Intercom and Exterior Gate Control System (27 51)		
27 51 17 00-0001			Video Intercom And Exterior Gate Control System (27 51 17)		
27 51 17 00-0002	EA		Audio Video Master Control Station With Handset, White Finish (Aiphone IX-MV7-HW).....	1,253.18	135.71
27 51 17 00-0003	EA		Audio Video Master Control Station (Aiphone AX-8MV).....	1,012.21	135.71
27 51 17 00-0004	EA		16-call Add-on Selector For AX Masters (Aiphone AX-16SW).....	438.78	135.71
27 51 17 00-0005	EA		Central Exchange Unit (Aiphone AX-084C).....	1,183.28	67.86
27 51 17 00-0006	EA		Central Exchange Unit (Aiphone AX-248C).....	1,608.33	67.86
27 51 17 00-0007	EA		Touch Tone Programmable Dialer (Viking K-1900-5).....	125.17	27.15
27 51 17 00-0008	EA		Surface Mount Audio/Video Door Station (Aiphone IX-DV).....	849.13	27.15
27 51 17 00-0009	EA		Surface Or Flush Wall Mount Audio/Video Door Station (Aiphone IX-DVF).....	1,165.44	27.15
27 51 17 00-0010	EA		Surface Mount Audio/Video Door Station (Aiphone AX-DV).....	381.16	27.15
27 51 17 00-0011	EA		Flush Mount Audio/Video Door Station (Aiphone AX-DVF).....	429.13	27.15
27 51 17 00-0012	EA		12 Volt, 2.5 Amperes, DC Power Supply (Aiphone PS-1225UL).....	117.51	13.57
			Note: UL Listed		
27 51 17 00-0013	EA		24 Volt, 2 Amperes, DC Power Supply (Aiphone PS-2420UL).....	127.56	13.57
			Note: UL Listed		
27 51 17 00-0014	EA		IP Video Master Station (Aiphone IX-MV).....	1,525.09	135.71
27 51 17 00-0015	EA		Handset Only For IX-MV (Aiphone 285999).....	52.34	5.43
27 51 17 00-0016	EA		Hands Free Sub Master Video Monitor (Aiphone JF-2HD).....	660.78	135.71
27 51 17 00-0017	EA		Stainless Steel Video Door Station With HID ProxPoint Plus Reader, Flush Mount (Aiphone AX-DVF-P).....	608.74	27.15
27 51 17 00-0018	EA		Stainless Steel Surface Mount Box For IS-SS, IS-DVF, IS-IPDVF, IX-DF(SS) (Aiphone SBX-IDVF).....	188.16	27.15
27 51 17 00-0019	EA		Stainless Steel Surface Mount Box For AX-DVF (Aiphone SBX-AXDVF).....	209.35	27.15
27 51 17 00-0020	EA		Stainless Steel Security Lock Box For IS-DV, IS-DVF, IX-DF, IX-SS, IX-DF-HID, And IX-DF-RP10 (Aiphone LB-SDVF/A).....	257.70	40.71
27 51 17 00-0021	EA		Front Case With Lens Cover For AX-DV And AX-DVF Cameras (Aiphone 240880).....	58.18	13.57
27 51 23			Intercommunications and Program Systems (27 51)		
27 51 23 20			Commercial Intercommunications and Program Systems (27 51 23)		
27 51 23 20-0001			Intercom (27 51 23 20)		
27 51 23 20-0002	EA		Aiphone Intercom, Master.....	1,946.67	
27 51 23 20-0003	EA		Aiphone Intercom, Remotes.....	708.28	
27 51 43			Sound Reinforcement (27 51)		
			Note: Includes testing of new devices and certification.		
27 51 43 00-0001			Amplifiers (27 51 43)		
27 51 43 00-0002	EA		10 Watt PA/Paging System Amplifier, 70 Volt (Bogen C10).....	507.37	108.58
27 51 43 00-0003	EA		35 Watt PA/Paging System Amplifier, 70 Volt (Bogen C35).....	724.92	108.58
27 51 43 00-0004	EA		60 Watt PA/Paging System Amplifier, 70 Volt (Bogen C60).....	864.58	108.58
27 51 43 00-0005	EA		100 Watt PA/Paging System Amplifier, 70 Volt (Bogen 100).....	964.21	108.58



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 51 43 00-0006 EA 150 Watt PA/Paging System Amplifier, 70 Volt (Bogen GS150).....	1,205.64	108.58
27 51 43 00-0007 EA 250 Watt PA/Paging System Amplifier, 70 Volt (Bogen GS250).....	1,566.67	108.58
27 51 43 00-0008 EA Rack Mount Kit For PA/Paging System Amplifiers (Bogen GSRPK)	61.96	5.43
27 51 43 00-0009 Splitters (27 51 43)		
27 51 43 00-0010 EA 24 Watt, 5 Output, Isolated Splitter (Doug Fleenor 125EE)	3,150.13	81.28
27 51 43 00-0011 EA 1-in/11-out Splitter (Doug Fleenor DMX)	2,840.40	81.28
27 51 43 00-0012 Speakers (27 51 43)		
27 51 43 00-0013 EA 8", 5 Watt Recessed Ceiling Mounted Speaker With Transformer And Baffle (Atlas Sound FD72W)	193.60	29.04
27 51 43 00-0014 EA 8" Steel Baffle (Atlas Sound 51-8)	63.42	5.42
27 51 43 00-0015 EA T-Bar Support (Atlas Sound EZ95-8)	71.02	5.42
27 51 43 00-0016 EA 8" Cylindrical Enclosure With Undercoating (Atlas Sound Q408)	111.73	5.42
27 51 43 00-0017 EA Plate Mounted 10 Watt Attenuator With Priority Relay (Atlas Sound AT10-PA)	101.88	9.75
27 51 43 00-0018 Accessories (27 51 43)		
27 51 43 00-0019 EA Microphone And Stand For Audio/Video System (Bogen MBS-1000A)	303.41	13.57
27 51 43 00-0020 EA 5 Disk CD Player For Audio/Video System (Bogen DCM290-P).....	684.27	13.57
27 51 43 00-0021 EA Weather Proof Horn For Audio/Video System (Bogen SPT5A)	169.87	27.15
27 51 43 00-0022 EA Trumpet Driver And Line Matching Transformer For Audio/Video System (Atlas PD-60A)	318.02	27.15
27 51 43 00-0023 EA Headset Microphone For Audio/Video System (Audio Technica Pro8Hex)	231.40	27.10
27 51 43 00-0024 EA Microphone Jack For Audio/Video System	104.94	27.15
27 51 43 00-0025 EA Terminal Cabinet For Audio/Video System (Atlas 121-18)	905.16	108.58
27 51 43 00-0026 EA Volume Control For Audio/Video System (Bogen AT10A).....	100.15	27.15
27 51 43 00-0027 EA Round Bridge for 8" (S86/S810) Recessed Speakers (Bogen Communications TB8).....	69.10	27.15
27 51 43 00-0028 Removal And Reinstallation Of Speakers (27 51 43)		
Note: Includes storage, cleaning and supply materials.		
27 51 43 00-0029 EA Removal And Reinstallation Of Ceiling Mounted Speaker.....	151.73	
27 53 Distributed Systems (27 50)		
27 53 13 Clock Systems (27 53)		
27 53 13 16 Wired Clock Systems (27 53 13)		
27 53 13 16-0001 Wired Self-Corrective Clock Systems (27 53 13 16)		
27 53 13 16-0002 Wired Self-Corrective Clocks (27 53 13 16-0001)		
27 53 13 16-0003 Analog, Wired Self-Corrective Clocks (Telecor) (27 53 13 16-0002)		
27 53 13 16-0004 24 Volt AC, Analog, Wired Self-Corrective Clocks (27 53 13 16-0003)		
27 53 13 16-0005 EA 12", Single Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	212.02	27.10
For >50 To 100, Deduct		
	-14.42	
For >100, Deduct		
	-20.73	
27 53 13 16-0006 EA 12", Dual Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	493.74	27.10
For >50 To 100, Deduct		
	-25.69	
For >100, Deduct		
	-43.27	
27 53 13 16-0007 EA 16", Single Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	263.97	27.10
For >50 To 100, Deduct		
	-18.60	
For >100, Deduct		
	-26.99	
27 53 13 16-0008 EA 16", Dual Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	649.58	27.10
For >50 To 100, Deduct		
	-67.65	
For >100, Deduct		
	-91.46	
27 53 13 16-0009 120 Volt AC, Analog, Wired Self-Corrective Clocks (27 53 13 16-0003)		
27 53 13 16-0010 EA 12", Single Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	212.02	27.10
For >50 To 100, Deduct		
	-14.42	
For >100, Deduct		
	-20.73	
27 53 13 16-0011 EA 12", Dual Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	493.74	27.10
For >50 To 100, Deduct		
	-25.69	
For >100, Deduct		
	-43.27	
27 53 13 16-0012 EA 16", Single Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	263.97	27.10
For >50 To 100, Deduct		
	-18.60	
For >100, Deduct		
	-26.99	
27 53 13 16-0013 EA 16", Dual Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	649.58	27.10
For >50 To 100, Deduct		
	-67.65	
For >100, Deduct		
	-91.46	
27 53 13 16-0014 Accessories For Analog Wired Self-Corrective Clocks (27 53 13 16-0003)		
27 53 13 16-0015 EA Wire Guards For 12", 15" Or 16" Analog Wired Self-Corrective Clocks.....	171.95	13.54
27 53 13 16-0016 EA Back Box For 10", 12" Or 15" Flush Mount Analog Wired Self-Corrective Clocks	47.08	13.54
27 53 13 16-0017 EA Surface Mounting Rings For 12" Analog Wired Self-Corrective Clocks	58.57	13.54
27 53 13 16-0018 EA Surface Mounting Rings For 15" Analog Wired Self-Corrective Clocks	70.56	13.54
27 53 13 16-0019 EA Combination Back Box For Speaker And Clock.....	144.78	21.67

27 Communications**27 50 Distributed Communications and Monitoring Systems****27 53 Distributed Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 53 13 16-0020 Digital, Wired Self-Corrective Clocks (Telecor) <small>(27 53 13 16-0002)</small>		
27 53 13 16-0021 24 Volt AC, Digital, Wired Self-Corrective Clocks <small>(27 53 13 16-0020)</small>		
27 53 13 16-0022 EA 2.5", 24 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	259.97	27.10
For Surface Mount, Add	41.16	
For >50 To 100, Deduct	-12.35	
For >100, Deduct	-20.58	
27 53 13 16-0023 EA 4", 24 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	395.84	27.10
For Surface Mount, Add	68.33	
For >50 To 100, Deduct	-20.50	
For >100, Deduct	-34.17	
27 53 13 16-0024 120 Volt AC, Digital, Wired Self-Corrective Clocks <small>(27 53 13 16-0020)</small>		
27 53 13 16-0025 EA 2.5", 120 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	259.97	27.10
For Surface Mount, Add	41.16	
For >50 To 100, Deduct	-12.35	
For >100, Deduct	-20.58	
27 53 13 16-0026 EA 4", 120 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	395.84	27.10
For Surface Mount, Add	68.33	
For >50 To 100, Deduct	-20.50	
For >100, Deduct	-34.17	
27 53 13 16-0027 Replacement Modules For 24 Volt AC, Digital, Wired Self-Corrective Clocks <small>(27 53 13 16-0020)</small>		
27 53 13 16-0028 EA 2.5", Replacement Module For 24 Volt AC, Digital, Wired Self-Corrective Clocks.....	223.52	27.10
For >50 To 100, Deduct	-10.16	
For >100, Deduct	-16.93	
27 53 13 16-0029 EA 4" Replacement Module For 24 Volt AC, Digital, Wired Self-Corrective Clocks.....	362.87	27.10
For >50 To 100, Deduct	-18.52	
For >100, Deduct	-30.87	
27 53 13 16-0030 Replacement Modules For 120 Volt AC, Digital, Wired Self-Corrective Clocks <small>(27 53 13 16-0020)</small>		
27 53 13 16-0031 EA 2.5", Replacement Module For 120 Volt AC, Digital, Wired Self-Corrective Clocks.....	223.52	27.10
For >50 To 100, Deduct	-10.16	
For >100, Deduct	-16.93	
27 53 13 16-0032 EA 4" Replacement Module For 120 Volt AC, Digital, Wired Self-Corrective Clocks.....	362.87	27.10
For >50 To 100, Deduct	-18.52	
For >100, Deduct	-30.87	
27 53 13 16-0033 Accessories For Digital Wired Self-Corrective Clocks <small>(27 53 13 16-0020)</small>		
27 53 13 16-0034 EA Wire Guard For 4" Surface Mount Analog Wired Self-Corrective Clocks.....	232.89	13.54
27 53 13 16-0035 EA 2.5", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks.....	59.07	13.54
27 53 13 16-0036 EA 4", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks.....	80.05	13.54
27 53 13 16-0037 EA Dual Mounting Kit For Surface Mount Digital Wired Self-Corrective Clocks.....	203.92	13.54
27 53 13 16-0038 EA 4 Gang Extension Ring For Surface Mount Digital Wired Self-Corrective Clocks.....	60.57	13.54
27 53 13 16-0039 Wired Self-Corrective Master Clocks <small>(27 53 13 16-0001)</small>		
27 53 13 16-0040 Wired Self-Corrective Master Clocks <small>(27 53 13 16-0039)</small>		
27 53 13 16-0041 EA 24 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-24).....	2,427.48	216.75
27 53 13 16-0042 EA 120 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-120).....	2,577.33	216.75
27 53 13 16-0043 Accessories For Wired Self-Corrective Master Clocks <small>(27 53 13 16-0039)</small>		
27 53 13 16-0044 EA 5 Amperes Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2405).....	259.73	54.18
27 53 13 16-0045 EA 10 Amperes Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2406).....	291.20	54.18
27 53 13 16-0046 Other Clock And Program Systems <small>(27 53 13 16)</small>		
27 53 13 16-0047 EA 4 Circuit Master Clock And Signal Control (Lathem LTR4-512).....	1,830.20	108.38
27 53 13 16-0048 EA 8 Circuit Master Clock And Signal Control (Lathem LTR8-512).....	2,199.92	216.75
27 53 13 16-0049 EA Program Bell (Lathem 906-6).....	263.75	54.18
27 53 13 16-0050 EA Combination Clock And Speaker.....	596.89	135.46

END OF SECTION 27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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28 Electronic Safety and Security

Note: Termination costs are included with all safety and security equipment, panel boards, and devices. Terminations are not included with patch panels.

28 40 Life Safety ⁽²⁸⁾

Note: Includes testing of new devices and certification. See CSI section 26 05 19 16-0011 for electrical connections and termination.

28 42 Gas Detection and Alarm ^(28 40)

28 42 11 Gas Detection and Alarm Control, GUI, and Logic Systems ^(28 42)

28 42 11 00-0001 Monitoring System For Underground Tanks ^(28 42 11)

28 42 11 00-0002 Continuous Leak Detection System ^(28 42 11 00-0001)

Note: Includes calibration, electronic control module and probes. Excludes sample wells, electrical power supply and sensor cable.

28 42 11 00-0003	EA	Single Channel Underground Tank Monitoring System	6,825.40	444.34
28 42 11 00-0004	EA	2 Channel Underground Tank Monitoring System	9,207.32	592.81
28 42 11 00-0005	EA	3 Channel Underground Tank Monitoring System	12,976.66	635.07
28 42 11 00-0006	EA	4 Channel Underground Tank Monitoring System	13,971.14	888.67
28 42 11 00-0007	EA	Control Panel, 1-8 Tanks, Single Wall Tank Monitoring System	9,680.33	75.86
28 42 11 00-0008	EA	Control Panel, 1-4 Tanks, Double Wall Tank Monitoring System	8,729.53	67.74
28 42 11 00-0009	EA	Control Panel, 1-8 Tanks, Double Wall Tank Monitoring System	11,475.76	75.86
28 42 11 00-0010	EA	Tank Leak Detection Probe	3,550.48	16.26
28 42 11 00-0011	EA	Secondary Containment Collar Probe	434.54	6.51
28 42 11 00-0012	EA	Interstitial Leak Detection Probe	796.89	13.54
28 42 11 00-0013	EA	Liquid Phase Detection	2,628.84	40.64
28 42 11 00-0014	EA	Hydrocarbon Vapor, Fixed	2,427.31	40.64
28 42 11 00-0015	EA	Hydrocarbon Vapor, Float Mounted	2,835.50	46.06
28 42 11 00-0016	EA	Liquid And Vapor Hydrocarbon	3,238.56	46.06

28 42 15 Gas Detection Sensors ^(28 42)

28 42 15 00-0001 Hydrogen Gas Detection ^(28 42 15)

28 42 15 00-0002	EA	Hydrogen Gas Detector Sensor, 1% Fan Relay, 2% Alarm (SBS HGDI-DR)	1,861.59	40.71
28 42 15 00-0003	EA	Hydrogen Gas Detector Junction Box (SBS HGDI-JB)	96.77	13.57
28 42 15 00-0004	EA	Remote Display With 25' Cable For Hydrogen Gas Detector (SBS HGDI-REM)	469.29	40.71

28 43 Fuel Oil Detection and Alarm ^(28 40)

See CSI section 28 42 00 00-0000 for detection and alarms.

28 46 Fire Detection and Alarm ^(28 40)

28 46 13 Fire-Alarm Systems ^(28 46)

28 46 13 31 Proprietary Supervising-Station Fire-Alarm Systems ^(28 46 13)

Note: Includes programming of equipment, testing and certification of new devices.

28 46 13 31-0001 Edwards Fire Alarm ^(28 46 13 31)

28 46 13 31-0002 EST3 Life Safety And Security Control ^(28 46 13 31-0001)

28 46 13 31-0003 EST3 Network ^(28 46 13 31-0002)

28 46 13 31-0004 Remote Annunciators ^(28 46 13 31-0003)

28 46 13 31-0005	EA	Remote LCD Command Module Annunciator (EST3 3-LCDANN)	1,497.23	81.43
Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.				
28 46 13 31-0006	EA	Six Position Base Annunciator (EST3 3-6ANN)	1,218.09	81.43
Note: Includes door, CPU card, two annunciator support modules and five blank filler plates. Space provided for up to four Control/Display Modules and one 3-LCD Liquid Crystal Display Module.				
28 46 13 31-0007	EA	Ten Position Base Annunciator (EST3 3-10ANN)	1,543.58	81.43
Note: Includes door, CPU card, two annunciator support modules and nine blank filler plates. Space provided for up to eight Control/Display Modules and one 3-LCD Liquid Crystal Display Module.				
28 46 13 31-0008	EA	Annunciator CPU (EST3 3-ANNCPU3)	979.82	81.43
Note: One Required per graphic annunciator.				
28 46 13 31-0009	EA	Annunciator Support Module (EST3 3-ANNSM)	178.60	27.15
Note: Takes one space in Annunciator box. Supports one Control/Display module.				
28 46 13 31-0010	EA	Liquid Crystal Display Module (EST3 3-LCD)	625.95	81.43
Note: Mounts over 3-CPU(1).				
28 46 13 31-0011	EA	Liquid Crystal Display Module (EST3 3-LCDXL)	740.82	81.43
Note: Mounts over 3-ANNCPU plus two spaces.				
28 46 13 31-0012	EA	LED/SWITCH Driver Module Assembly For Third Part Graphics (EST3 3-EVDVRA)	707.54	81.43
Note: Assembled version of 3-EVDVR, comes packaged with cables, mounting hardware installation instructions used for third party graphics. Mounts in 3-EVDVRX.				
28 46 13 31-0013	EA	Power Supply Assembly With 19" Rail Mounting Chassis Assembly (EST3 3-EVPWRA)	830.26	54.28
Note: Assembled version of 3-EVPWR, comes packaged with cables, mounting hardware and mounting plate for 3-ANNCPU1. Used for third party graphics.				
28 46 13 31-0014	EA	Plastic Mounting Extrusion 19" Mounting (EST3 3-EVDVRX)	123.19	27.15
Note: Mounts up to three 3-EVDVRA modules.				

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0015 EA Central Processor Unit Module (EST3 3-CPU3) Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.	1,775.18	81.43
28 46 13 31-0016 EA 120 Volt AC, 50/60 Hertz, Primary Power Supply With Local Rail Module (EST3 3-CPU3) Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.	1,574.29	27.15
28 46 13 31-0017 Remote Annunciators Cabinets (28 46 13 31-0003)		
28 46 13 31-0018 EA Remote LCD Command Module Flush Mount LCD Wallbox (EST3 RLCMB).....	133.09	27.15
28 46 13 31-0019 EA Remote LCD Command Module Surface Mount LCD Wallbox (EST3 RLCMB-B-S).....	122.24	27.15
28 46 13 31-0020 EA Six Position LED/LCD Flush Wallbox (EST3 6ANN/B).....	150.59	27.15
28 46 13 31-0021 EA Six Position LED/LCD Surface Wallbox (EST3 6ANN/B-S).....	139.74	27.15
28 46 13 31-0022 EA Ten Position LED/LCD Flush Wallbox (EST3 10ANN/B).....	166.99	27.15
28 46 13 31-0023 EA Ten Position LED/LCD Surface Wallbox (EST3 10ANN/B-S).....	156.14	27.15
28 46 13 31-0024 Audio And Telephone Masters (28 46 13 31-0003)		
28 46 13 31-0025 EA Audio Source Unit With Local Microphone And Firefighters' Telephone (EST3 3-ASU/FT).....	4,901.00	108.58
28 46 13 31-0026 EA Audio Source Unit With Local Microphone (Provides Four Local Rail Spaces) (EST3 3-ASU/4).....	2,722.52	108.58
28 46 13 31-0027 EA Audio Source Unit With Local Microphone And Inner Door Filler Plate (EST3 3-ASU).....	2,113.51	108.58
28 46 13 31-0028 EA Fire Fighters Telephone Control Unit With Inner Door Filler Plate (EST3 3-FTCU).....	2,572.74	108.58
28 46 13 31-0029 EA Audio Source Unit Memory Expansion, 100 Minutes (EST3 3-ASUMX/100).....	2,940.30	108.58
28 46 13 31-0030 EA Zoned Amplifier, 95 Watt, Class B. 95 Watt Selectable For 25 Or 70 Vrms Class B Output. Mounts In 2 LRM Spaces (EST3 3-ZA95).....	2,103.79	54.28
28 46 13 31-0031 Battery Distribution Unit (28 46 13 31-0003)		
28 46 13 31-0032 EA Battery Distribution Unit (EST3 3-BTSEN).....	527.60	419.04
28 46 13 31-0033 Remote Booster Power Supply (28 46 13 31-0003)		
28 46 13 31-0034 EA 6.5 Amperes, 120 Volt AC, Booster Power Supply (EST3 BPS6A).....	843.73	81.43
28 46 13 31-0035 EA 10 Amperes, 110 Volt AC Booster Power Supply (EST3 BPS10).....	964.87	81.43
28 46 13 31-0036 EA 10 Amperes, 220 Volt AC Booster Power Supply (EST3 BPS10220).....	1,054.14	81.43
28 46 13 31-0037 EA Tamper Switch - For CAB7, 14 And 21 Series Cabinets (EST3 3-TAMP).....	136.03	27.15
28 46 13 31-0038 Batteries And Battery Cabinets (28 46 13 31-0003)		
28 46 13 31-0039 EA 1.2 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V1A2 (1.2 Ampere Hours)).....	102.76	27.15
28 46 13 31-0040 EA 4 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V4A (4.5 Ampere Hours)).....	129.07	27.15
28 46 13 31-0041 EA 24 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V24A (26 Ampere Hours)).....	310.65	27.15
28 46 13 31-0042 EA 6.5 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V6A5 (7.2 Ampere Hours)).....	139.61	27.15
28 46 13 31-0043 EA 40 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V40A (40 Ampere Hours)).....	394.94	27.15
28 46 13 31-0044 EA 10 Amperes Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V10A (11 Ampere Hours)).....	220.45	27.15
28 46 13 31-0045 EA 50 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V50A (50 Ampere Hours)).....	805.62	27.15
28 46 13 31-0046 EA 17 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V17A (18 Ampere Hours)).....	225.88	27.15
28 46 13 31-0047 EA 65 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V65A (65 Amp Hours)).....	970.74	27.15
28 46 13 31-0048 EA 8 Ampere Hours, 6 Volt DC, Sealed Lead Acid Battery (EST3 6V8A (8 Amp Hours)).....	123.95	27.15
28 46 13 31-0049 EA 10 Ampere Hours, 6 Volt DC, Sealed Lead Acid Battery (EST3 6V10A (12 Amp Hours)).....	110.80	27.15
28 46 13 31-0050 EA 14" x 18-1/4" x 7-1/4" Free Standing Battery Cabinet With Key Lock (EST3 BC-1)..... Note: Supports up to 40 Ah batteries will hold up to two 12V24A batteries.	402.20	54.28
28 46 13 31-0051 EA 22" x 15" x 3-3/4" Grey Battery Cabinet (EST3 BC-2)..... Note: Holds up to two 12V17A batteries.	331.31	54.28
28 46 13 31-0052 EA Remote Closet Enclosure (EST3 3-RCC7R).....	1,143.12	108.58
28 46 13 31-0053 EA Remote Closet Enclosure (EST3 3-RCC14R).....	1,422.18	108.58
28 46 13 31-0054 EA Remote Closet Enclosure (EST3 3-RCC21R).....	2,000.85	108.58
28 46 13 31-0055 Serial Printer (28 46 13 31-0003)		
28 46 13 31-0056 EA System Printer - Desk Top Style (EST3 PT-1S).....	1,100.11	27.15
28 46 13 31-0057 Intelligent Analog Initiating Devices (28 46 13 31-0002)		
28 46 13 31-0058 Detectors, Signature (28 46 13 31-0057)		
28 46 13 31-0059 EA Intelligent 4D Multisensor Detector For Ionization, Photoelectric, And Heat (EST3 SIGA-IPHS).....	240.17	40.71
28 46 13 31-0060 EA Black, Intelligent 4D Multisensor Detector For Ionization, Photoelectric, And Heat (EST3 SIGA-IPHSB).....	270.81	40.71
28 46 13 31-0061 EA Intelligent 3D Multisensor Detector For Photoelectric And Heat (EST3 SIGA-PHS).....	231.04	40.71
28 46 13 31-0062 EA Intelligent Photoelectric Smoke Detector (EST3 SIGA-PS).....	203.66	40.71
28 46 13 31-0063 EA Intelligent Ionization Smoke Detector (EST3 SIGA-IS).....	212.79	40.71
28 46 13 31-0064 EA 135 Degrees Fahrenheit, 15 Degrees Fahrenheit Per Minute, Intelligent Fixed Temperature/Rate-of-Rise Heat Detector (EST3 SIGA-HRS).....	173.13	40.71
28 46 13 31-0065 EA 135 Degree Fahrenheit, Intelligent Fixed Temperature Heat Detector (EST3 SIGA-HFS).....	173.13	40.71
28 46 13 31-0066 EA Passive Infrared Motion Detector (EST3 SIGA-MD).....	278.96	40.71
28 46 13 31-0067 EA Passive Infrared Motion Detector With Swivel Mount For Single Gang Boxes (EST3 SIGA-MDS).....	308.86	40.71
28 46 13 31-0068 EA Intelligent Photoelectric Smoke Detector (EST3 SIGA2-PS).....	259.55	40.71
28 46 13 31-0069 EA Intelligent Combination Photo Electric And CO Sensor (EST3 SIGA2-PCOS).....	378.36	40.71
28 46 13 31-0070 EA 135 Degree Fahrenheit, Intelligent Fixed Temperature Heat Detector (EST3 SIGA2-HFS).....	215.21	40.71
28 46 13 31-0071 EA 135 Degrees Fahrenheit, 15 Degrees Fahrenheit Per Minute, Intelligent Fixed Temperature/Rate-of-Rise Heat Detector (EST3 SIGA2-HRS).....	215.21	40.71
28 46 13 31-0072 EA Photoelectric, Heat, Intelligent 3D Multisensor Detector (EST3 SIGA2-PHS).....	299.47	40.71



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0073			Detectors, Duct Housings and Accessories, Signature <small>(28 46 13 31-0057)</small>		
		EA	Superduct, Signature Duct Smoke Detector (EST3 SIGA-SD)	488.39	67.86
		EA	Superduct, Test Magnet Kit (EST3 SD-MAG)	20.27	
		EA	Superduct, 120" Air Sample Tube (EST3 SD-T120)	62.95	16.29
		EA	Superduct, Remote Test Station, Keyed, 2-Wire And SIGA (EST3 SD-TRK)	126.87	21.71
		EA	Duct Smoke Detector Test Station, 2-Gang Plastic Plate With Key Switch, 2 Keys, Use With Duct Detector Only (EST3 SIGA-DTS)	173.20	21.71
		EA	High Temp Heat Detector, 194 Degree F, Combination Rate-Of-Rise And Fixed Temperature (EST3 282B-PL)	74.04	21.71
28 46 13 31-0080			Modules, Signature <small>(28 46 13 31-0057)</small>		
		EA	Universal Class A/B Module - UIO Mount (EST3 SIGA-MAB)	228.25	27.15
		EA	Class B Single Input Module (One Gang Standard Mount) (EST3 SIGA-CT1)	117.94	27.15
		EA	Class B Dual Input Module (One Gang Standard Mount) (EST3 SIGA-CT2)	162.33	27.15
		EA	Class B Dual Input UIO (Plug In) Module (EST3 SIGA-MCT2)	203.83	27.15
		EA	Single Input (Riser) Module, Features A Built-In Ring Tone Generator, Use For Switching A Single Signal Or Audio Circuit (EST3 SIGA-CC1)	179.09	27.15
		EA	Dual Input (Riser) Module, Use For Switching (Selecting) Either Of Two Signal Or Audio Input Circuits To One Signal Output Circuit (EST3 SIGA-CC2)	188.30	27.15
		EA	Control Relay Module (One Gang Standard Mount) (EST3 SIGA-CR)	141.39	27.15
			Note: Select for either N.O. or N.C. operation. Rated at 2 amperes (24 Volt DC).		
		EA	Control Relay UIO (Plug In) Module (EST3 SIGA-MCR)	176.51	27.15
		EA	Single Input (Riser) Module With Strobe Synchronization Output (EST3 SIGA-CC1S)	237.53	27.15
		EA	Universal Input/Output Module - Input With Programmable Output (EST3 SIGA-IO)	231.40	27.15
		EA	Input/Output Module - UIO Mount, Multifunction Module With Input And Program (EST3 SIGA-MIO)	222.27	27.15
		EA	Waterflow/Tamper Module (One Gang Standard Mount) (EST3 SIGA-WTM)	203.35	176.22
		EA	Monitor Module (One Gang Standard Mount) (EST3 SIGA-MM1)	147.41	27.15
			Note: Factory programmed for non-latching monitor operation.		
		EA	Single Input (Riser) Module, With Synchronization Output (EST3 SIGA-MCC1S)	238.72	27.15
28 46 13 31-0095			Module Accessories, Signature <small>(28 46 13 31-0057)</small>		
			Note: Universal I/O motherboards are required for UIO plug-in modules. Module mounting plates can be used to mount multiple 1 and 2-gang modules.		
		EA	Module Mounting Bracket - For 4" Square Box, Mounting Kit Allows Installing 2 Single Gang Signature Modules Into A Single 4" Square Box (EST3 SIGA-MB4)	57.81	13.57
		EA	Universal Input/Output Module Motherboard - 6 Position, Use For M Series Modules (EST3 SIGA-UIO6)	200.87	27.15
		EA	Transient Protector - For Bell And Horn Circuits, Provides Transient Protection To -CC1, -MCC1, -CC2, -MCC2, -UM And -MAB Modules (EST3 235196P)	20.85	8.14
		EA	Signature Module Mounting Plate, 1 Footprint, Space For Up To Four 2-Gang Signature Modules Or Eight 1-Gang Signature Modules (EST3 SIGA-MP1)	68.37	13.57
		EA	Signature Module Mounting Plate, 1/2 Footprint, Space For Up To Two 2-Gang Signature Modules Or Four 1-Gang Signature Modules (EST3 SIGA-MP2)	60.79	13.57
		EA	Signature Module Mounting Plate, 1/2 Extended Footprint, Space For Up To Three 2-Gang Signature Modules Or Six 1-Gang Signature Modules (EST3 SIGA-MP2L)	63.79	13.57
28 46 13 31-0102			Single Action Pull Stations, Signature <small>(28 46 13 31-0057)</small>		
		EA	One Stage Fire Alarm Station, English Markings (EST3 SIGA-270)	246.04	56.46
		EA	Two Stage (Pre Signal) Fire Alarm Station, English Markings (EST3 SIGA-270P)	291.83	56.46
		EA	GA Key - For Pre Signal Station (EST3 276-K2)	34.11	28.68
		EA	20 Glass Rods For SIGA-270 Series Stations (EST3 270-GLR)	42.93	37.50
		EA	Surface Mount Box, Red - For SIGA-270 Series (EST3 276B-RSB)	63.20	41.48
28 46 13 31-0108			Double Action Pull Stations, Signature <small>(28 46 13 31-0057)</small>		
		EA	Double Action (One Stage) Fire Alarm Station, English Markings (EST3 SIGA-278)	208.26	56.46
		EA	12 Glass Rods For SIGA-278 Series (EST3 276-GLR)	43.59	5.43
28 46 13 31-0111			Detector Bases and Accessories, Signature <small>(28 46 13 31-0057)</small>		
			Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, and -PHS detectors and -SB, -RB and -IB bases.		
		EA	Audible (Sounder) Base (EST3 SIGA-AB4G)	125.54	13.57
		EA	Surface Box - For Sounder Base, Use With -AB4G Models Only (EST3 AB4G-SB)	45.56	13.57
		EA	Audible (Sounder) Base, Mounts To 4" Square, 2-1/8" Deep Box (EST3 SIGA-AB4)	157.31	13.57
		EA	Detector (Smoke) Guard, Covers Detectors Mounted To Flush Boxes, Compatible With -IPHS And -PS Signature Detectors (EST3 SIGA-DG)	88.32	13.57
		EA	Detector (Smoke) Guard Surface Box - For SIGA-DG (EST3 SIGA-DGSB)	103.57	13.57
		EA	Detector Mounting Plate (EST3 SIGA-DMP)	164.61	13.57
			Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, -PHS and -IPHS detectors and -SB, -RB and -IB bases. SIGA-IPHS 4D detector is limited to operation in air velocities less than 500 feet per minute.		
		EA	Remote Alarm LED, Use With -SB And -SB4 Standard Base Only (EST3 SIGA-LED)	57.81	13.57
		EA	Trim Skirt/Ring - For Octagon Box (EST3 SIGA-TS)	20.98	8.14
		EA	Trim Skirt/Ring - For 4" Square Box, Use To Hide Imperfections Around Electric Boxes Not Completely Hidden By Standard Bases, With All 4" Bases (EST3 SIGA-TS4)	20.98	8.14
		EA	Detector (Smoke) Guard Mounting Flange, Provides Secure Mounting While Offering Easy Guard Removal, With Tamper Hardware (EST3 SIGA-DGMF)	62.21	8.14
		EA	Detector Base With Isolator (EST3 SIGA-IB)	102.03	13.57

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0123	EA		Detector Base With Isolator - For 4" Square Box, With TS4 Skirt (EST3 SIGA-IB4).....	108.57	13.57
28 46 13 31-0124	EA		Detector Base With Form 'C' Relay (EST3 SIGA-RB).....	70.71	13.57
28 46 13 31-0125	EA		Detector Base With Form 'C' Relay - For 4" Square Box, With TS4 Skirt (EST3 SIGA-RB4).....	90.62	13.57
28 46 13 31-0126	EA		Detector Base - Standard, For 4" Square Box, With TS4 Skirt (EST3 SIGA-SB4).....	41.39	13.57
28 46 13 31-0127			Controllers, Signature <small>(28 46 13 31-0057)</small>		
28 46 13 31-0128	EA		Signature Dual Driver Controller (EST3 3-SDDC1).....	3,517.63	81.43
28 46 13 31-0129	EA		Single Signature Loop Controller (EST3 3-SSDC1).....	2,011.59	81.43
28 46 13 31-0130	EA		Signature Loop Controller (EST3 3-SDC1).....	1,806.02	81.43
28 46 13 31-0131	EA		Analog Addressable Loop Controller (EST3 3-AADC1).....	2,901.46	81.43
28 46 13 31-0132			Relays And Accessories <small>(28 46 13 31-0057)</small>		
28 46 13 31-0133	EA		Multi Voltage Relay (EST3 MR101).....	183.59	27.15
28 46 13 31-0134	EA		Single SPDT Auxiliary Relay With LED Track Mounting (EST3 MR101/T).....	53.94	13.57
28 46 13 31-0135			Notification Appliances <small>(28 46 13 31-0002)</small>		
28 46 13 31-0136			Wall Strobes, Horns And Chimes <small>(28 46 13 31-0135)</small>		
28 46 13 31-0137	EA		Strobe (15, 30, 75, Or 110 cd Output), White (EST3 G1-VM).....	146.69	40.71
28 46 13 31-0138	EA		Strobe (15, 30, 75, Or 110 cd Output), Red (EST3 G1R-VM).....	146.69	40.71
28 46 13 31-0139	EA		Horn-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-HDVM).....	167.94	40.71
28 46 13 31-0140	EA		Temporal Horn (Selectable High Or Low dB Output), White (EST3 G1-HD).....	122.74	40.71
28 46 13 31-0141	EA		Temporal Horn (Selectable High Or Low dB Output), Red (EST3 G1R-HD).....	122.74	40.71
28 46 13 31-0142	EA		Temporal Horn, Hi/Lo dB Output, 24 Volt DC, White, With The Word "FIRE" On Housing (EST3 G1F-HD).....	122.74	40.71
28 46 13 31-0143	EA		Temporal Horn, Hi/Lo dB Output, 24 Volt DC, Red, With The Word "FIRE" On Housing (EST3 G1RF-HD).....	122.74	40.71
28 46 13 31-0144	EA		Horn (Steady Tone), 24 Volt DC, White, Not Compatible With Signal Master (EST3 G1-P).....	102.62	40.71
28 46 13 31-0145	EA		Horn (Steady Tone) - 24 Volt DC, Red, Not Compatible With Signal Master (EST3 G1R-P).....	102.62	40.71
28 46 13 31-0146	EA		Horn (Steady Tone), 24 Volt DC, Red, With The Word "FIRE" On Housing, Not Compatible With Signal Master (EST3 G1RF-P).....	102.62	40.71
28 46 13 31-0147	EA		Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-CVM).....	254.68	40.71
28 46 13 31-0148	EA		Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), Red (EST3 G1R-CVM).....	254.68	40.71
28 46 13 31-0149	EA		Genesis Chime (Selectable High Or Low dB Output), White (EST3 G1-C).....	165.35	40.71
28 46 13 31-0150	EA		Genesis Chime (Selectable High Or Low dB Output), Red (EST3 G1R-C).....	165.35	40.71
28 46 13 31-0151	EA		Wall Strobe, 15/75 cd, White, With The Word "FIRE" On Housing (EST3 G1F-V1575).....	146.69	40.71
28 46 13 31-0152	EA		Multi-cd Strobe, 24 Volt DC, White, With The Word "FIRE" On Housing (EST3 G1F-VM).....	146.69	40.71
28 46 13 31-0153	EA		Multi-Candela Strobe, 24 Volt DC, Red, With The Word "FIRE" On Housing (EST3 G1RF-VM).....	146.69	40.71
28 46 13 31-0154	EA		Wall Strobe, 15/75 cd, Red, With The Word "FIRE" On Housing (EST3 G1RF-V1575).....	146.69	40.71
28 46 13 31-0155	EA		Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCF-VM).....	152.66	40.71
28 46 13 31-0156	EA		Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCFR-VM).....	152.66	40.71
28 46 13 31-0157	EA		Genesis Ceiling Strobe, 95-177 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCF-VMH).....	166.63	40.71
28 46 13 31-0158	EA		Genesis Ceiling Strobe, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VM).....	152.66	40.71
28 46 13 31-0159	EA		Genesis Ceiling Strobe, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VMH).....	152.66	40.71
28 46 13 31-0160	EA		Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, White (EST3 G1T-FIRE).....	89.54	40.71
28 46 13 31-0161	EA		Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, Red (EST3 G1RT-FIRE).....	89.54	40.71
28 46 13 31-0162			Wall Speakers And Speaker Strobes <small>(28 46 13 31-0135)</small>		
28 46 13 31-0163	EA		Multi-Wattage 25 VRMS Speaker (EST3 G4-S2).....	120.94	40.71
28 46 13 31-0164	EA		Multi-Candela/Wattage 25 VRMS Speaker-Strobe (EST3 G4-S2VM).....	188.34	40.71
28 46 13 31-0165	EA		Multi-Wattage 70 VRMS Speaker (EST3 G4-S7).....	120.94	40.71
28 46 13 31-0166	EA		Multi-Candela/Wattage 70 VRMS Speaker-Strobe (EST3 G4-S7VM).....	188.34	40.71
28 46 13 31-0167	EA		Surface Box, White, For Genesis Speaker (EST3 G4B).....	59.86	21.71
28 46 13 31-0168	EA		Surface Box, Red, For Genesis Speaker (EST3 G4RB).....	59.86	21.71
28 46 13 31-0169			Ceiling Speakers And Speaker Strobes <small>(28 46 13 31-0135)</small>		
28 46 13 31-0170	EA		Genesis Ceiling Speaker, 70 VRMS, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7).....	145.38	40.71
28 46 13 31-0171	EA		Genesis Ceiling Speaker/Strobe, 70 VRMS, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7VM).....	188.34	40.71
28 46 13 31-0172	EA		Genesis Ceiling Speaker/Strobe, 70 VRMS, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7VMH).....	201.94	40.71
28 46 13 31-0173			Harsh Environment Signals <small>(28 46 13 31-0135)</small>		
28 46 13 31-0174	EA		Temporal Horn, Self-Synchronized, 24 Volt DC (EST3 757-1A-T).....	128.65	40.71
28 46 13 31-0175	EA		15/75 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-7A-T).....	182.30	40.71
28 46 13 31-0176	EA		110 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-8A-T).....	182.30	40.71
28 46 13 31-0177	EA		15 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-5A-T).....	166.35	40.71
28 46 13 31-0178	EA		15/75 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-7A-T).....	155.75	40.71
28 46 13 31-0179	EA		30 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-3A-T).....	166.35	40.71
28 46 13 31-0180	EA		60 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-6A-T).....	166.35	40.71
28 46 13 31-0181	EA		110 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-8A-T).....	166.35	40.71
28 46 13 31-0182	EA		15/75 Candela Synchronized, 24 Volt DC, Red, Outdoor Listed, Strobe (EST3 CS405-7A-T).....	183.79	46.15
28 46 13 31-0183	EA		110 Candela Synchronized, 24 Volt DC, Red, Outdoor Listed, Strobe (EST3 CS405-8A-T).....	183.79	46.15
28 46 13 31-0184	EA		15 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-5A-T).....	135.17	40.71
28 46 13 31-0185	EA		30 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-3A-T).....	177.30	40.71



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0186 Fire Alarm Bells <small>(28 46 13 31-0135)</small>		
28 46 13 31-0187 EA 10" Single Stroke Fire Alarm Bells, 24 Volt DC (EST3 323D-10AW).....	197.19	40.71
28 46 13 31-0188 EA 6" Vibrating Fire Alarm Bells, 24 Volt DC (EST3 439D-6AW).....	157.12	40.71
28 46 13 31-0189 EA 10" Vibrating Fire Alarm Bells, 24 Volt DC (EST3 439D-10AW).....	174.22	40.71
28 46 13 31-0190 Multiple Tone Signal <small>(28 46 13 31-0135)</small>		
28 46 13 31-0191 EA 27 Tone Selectable Signal, 24 Volt DC (EST3 5530MD-24AW).....	1,283.75	1,243.03
28 46 13 31-0192 Multi-Purpose Loudspeaker <small>(28 46 13 31-0135)</small>		
28 46 13 31-0193 EA 15 Watt Loudspeaker, Gray (EST3 HPSA15G2570).....	261.09	40.71
28 46 13 31-0194 EA 15 Watt Loudspeaker, Red (EST3 HPSA15R2570).....	261.09	40.71
28 46 13 31-0195 Bell/Strobe Plate <small>(28 46 13 31-0135)</small>		
28 46 13 31-0196 EA Bell/Strobe Plate - 15cd (EST3 403-5A-R).....	131.98	21.71
28 46 13 31-0197 Mounting Accessories <small>(28 46 13 31-0135)</small>		
28 46 13 31-0198 EA Surface Mount Box - Indoor, Red, 1-Gang (EST3 27193-11).....	61.10	21.71
28 46 13 31-0199 EA One Gang Surface Mount Box, Red, No Bottom KO (EST3 27193-11-NY).....	61.10	21.71
28 46 13 31-0200 EA Surface Mount Box - Indoor, White, 1-Gang (EST3 27193-16).....	61.10	21.71
28 46 13 31-0201 EA Surface Mount Box - Indoor, Red, 2-Gang (EST3 27193-21).....	61.10	21.71
28 46 13 31-0202 EA Surface Mount Box - Indoor, White, 2-Gang (EST3 27193-26).....	61.10	21.71
28 46 13 31-0203 Firefighters' Telephones <small>(28 46 13 31-0135)</small>		
28 46 13 31-0204 EA Remote Telephone Warden Station - Flush, Red, 5' Armored Cable, Hinged Door With Magnetic Latch, 4-State (EST3 6830-NY-F4).....	1,147.05	67.86
28 46 13 31-0205 EA Four State Remote Telephone Warden Station - Surface, Armored Cord (EST3 6830-NY-S4).....	641.39	67.86
28 46 13 31-0206 EA Remote Telephone Warden Station - Flush, Armored Cord (EST3 6830-NY-F).....	459.29	67.86
28 46 13 31-0207 EA Telephone Handset Assembly - Red c/w 60" Coiled Cord (EST3 6830-1).....	332.34	67.86
28 46 13 31-0208 EA Remote Telephone Handset Station - 4-State, Red, 5' Coiled Cord (EST3 6830-4).....	618.72	67.86
28 46 13 31-0209 EA Three State Telephone Handset Assembly - Red, 60" Coiled Cord, Push To Talk Button (EST3 6830-5A).....	377.65	67.86
28 46 13 31-0210 EA Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Coiled Cord (EST3 6830-5A-4).....	698.97	67.86
28 46 13 31-0211 EA Three State Telephone Handset Assembly - Red, 60" Armored Cord, Push To Talk Button (EST3 6830-6A).....	392.75	67.86
28 46 13 31-0212 EA Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Armored Cable (EST3 6830-6A-4).....	801.73	67.86
28 46 13 31-0213 EA Portable Handset Receptacle, 1 Gang Stainless Steel Faceplate (EST3 6833-1).....	85.80	21.71
28 46 13 31-0214 EA Portable Telephone Receptacle - 1-Gang, SS, 4-State (EST3 6833-4).....	98.95	21.71
28 46 13 31-0215 EA Portable Telephone Handset - Black, Coiled Cord (EST3 6830-3).....	141.63	
28 46 13 31-0216 EA Portable Telephone Handset - Red, Coiled Cord (EST3 6700-0061).....	141.63	
28 46 13 31-0217 EA Frontplate - Flush Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-1).....	212.04	27.15
28 46 13 31-0218 EA Frontplate - Flush Mount, Red Finish, Non Break Glass Type With Two Keys (EST3 6831-2).....	264.37	27.15
28 46 13 31-0219 EA Frontplate - Surface Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-3).....	185.88	27.15
28 46 13 31-0220 EA Frontplate - Surface Mount, Red Finish, Non Break Glass Type, With Two Keys (EST3 6831-4).....	178.18	27.15
28 46 13 31-0221 EA Wallbox - Flush Or Surface Mount, Red Finish, 14" x 8-1/2" x 3-1/2" (EST3 6832-1).....	129.24	40.71
28 46 13 31-0222 EA Portable Handset Storage Cabinet, Surface Mount, With Keylock, Red Finish (EST3 TCS-6).....	1,185.98	54.28
28 46 13 31-0223 Mass Notification EC Appliances <small>(28 46 13 31-0135)</small>		
28 46 13 31-0224 EA G1 Wall, Strobe, White Housing, Alert Markings, Amber Lens (EST3 G1WA-VMA).....	152.70	40.71
28 46 13 31-0225 EA G1 Wall, Strobe, White Housing, Alert Markings, Clear Lens (EST3 G1WA-VMC).....	147.27	40.71
28 46 13 31-0226 EA G1 Wall, Strobe, White Housing, No Markings, Amber Lens (EST3 G1WN-VMA).....	152.70	40.71
28 46 13 31-0227 EA G1 Wall, Strobe, White Housing, No Markings, Clear Lens (EST3 G1WN-VMC).....	147.27	40.71
28 46 13 31-0228 EA G1 Wall, White Trim Ring, Alert Marking (EST3 G1WT-ALERT).....	22.79	8.14
28 46 13 31-0229 Hazardous Location Devices <small>(28 46 13 31-0002)</small>		
28 46 13 31-0230 Detectors, Rate Compensation Heat, For Explosion/Weather/Moisture Proof And Ordinary Location <small>(28 46 13 31-0229)</small>		
28 46 13 31-0231 EA Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 135 Degree F (EST3 302-135).....	129.58	40.71
28 46 13 31-0232 EA Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 194 Degree F (EST3 302-194).....	129.58	40.71
28 46 13 31-0233 EA Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 135 Degree F (EST3 302-AW-135).....	134.77	40.71
28 46 13 31-0234 EA Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 194 Degree F (EST3 302-AW-194).....	134.77	40.71
28 46 13 31-0235 EA Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 135 Degree F, Requires JALX-11 Or Equal (EST3 302-EPM-135).....	182.73	40.71
28 46 13 31-0236 EA Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 194 Degree F, Requires JALX-11 Or Equal (EST3 302-EPM-194).....	182.73	40.71
28 46 13 31-0237 EA Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 135 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-135).....	134.77	40.71
28 46 13 31-0238 EA Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 194 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-194).....	134.77	40.71
28 46 13 31-0239 Hazardous Locations Fire Alarm Station <small>(28 46 13 31-0229)</small>		

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0240 EA Hazardous Location Fire Alarm Station (EST3 XAL53)	1,215.60	67.86
28 46 13 31-0241 EA Explosion Proof, Weatherproof, Fire Alarm Station, Single Action, Cat 45 Key Reset, Terminal Connections, DPDT (EST3 MPSR1-D45WX-GE)	1,156.93	67.86
28 46 13 31-0242 Hazardous Location Strobes (28 46 13 31-0229)		
28 46 13 31-0243 EA Explosion Proof Strobe (EST3 116DEXSTC-FJ)	1,812.77	40.71
28 46 13 31-0244 EA Wall Bracket Mounting Elbow (EST3 116EX-B)	337.74	13.57
28 46 13 31-0245 EA Ceiling / Wall Mounting Module (EST3 116EX-C)	441.98	16.29
28 46 13 31-0246 EA Pendant Mounting Module (EST3 116EX-P)	323.90	16.29
28 46 13 31-0247 Hazardous Location Bells (28 46 13 31-0229)		
28 46 13 31-0248 EA 6" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-6AW)	1,307.00	40.71
28 46 13 31-0249 EA 8" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-8AW)	1,340.97	40.71
28 46 13 31-0250 EA 10" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-10AW)	1,353.20	40.71
28 46 13 31-0251 Hazardous Location Horns (28 46 13 31-0229)		
28 46 13 31-0252 EA Hazardous Location Horns (EST3 888D-N5)	1,277.73	40.71
28 46 13 31-0253 EA Explosion Proof Horn, Diode Polarized, 24 Volt DC (EST3 889D-AW)	1,042.70	40.71
28 46 13 31-0254 Door Holders And Relays (28 46 13 31-0002)		
28 46 13 31-0255 Electromagnetic Door Holders (28 46 13 31-0254)		
28 46 13 31-0256 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Single, Floor Mount (EST3 1501-AQN5)	225.17	40.71
28 46 13 31-0257 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Double, Floor Mount (EST3 1502-AQN5)	293.34	40.71
28 46 13 31-0258 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Flush, Wall Mount (EST3 1504-AQN5)	190.36	40.71
28 46 13 31-0259 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Flush, Wall Mount, Short Catch Plate (EST3 1505-AQN5)	190.36	40.71
28 46 13 31-0260 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Surface, Wall Mount (EST3 1508-AQN5)	193.51	40.71
28 46 13 31-0261 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Completely Flush, Wall Mount (EST3 1509-AQN5)	196.51	40.71
28 46 13 31-0262 Control Relays, Multi-Voltage (28 46 13 31-0254)		
28 46 13 31-0263 EA Single SPDT With LED, Adhesive Tape Mounting (EST3 PAM1)	45.54	8.14
28 46 13 31-0264 FireShield Plus (28 46 13 31-0002)		
28 46 13 31-0265 3 Zone System (28 46 13 31-0264)		
28 46 13 31-0266 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302R)	1,208.27	325.72
28 46 13 31-0267 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302RD)	1,764.94	434.28
28 46 13 31-0268 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302G)	1,208.27	325.72
28 46 13 31-0269 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302GD)	1,764.94	434.28
28 46 13 31-0270 EA Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G)	85.89	13.57
28 46 13 31-0271 EA Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R)	85.89	13.57
28 46 13 31-0272 5 Zone System (28 46 13 31-0264)		
28 46 13 31-0273 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502R)	1,303.34	325.72
28 46 13 31-0274 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502RD)	1,854.58	434.28
28 46 13 31-0275 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502G)	1,303.34	325.72
28 46 13 31-0276 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502GD)	1,854.58	434.28
28 46 13 31-0277 EA Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G)	85.89	13.57
28 46 13 31-0278 EA Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R)	85.89	13.57
28 46 13 31-0279 10 Zone System (28 46 13 31-0264)		
28 46 13 31-0280 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004R)	1,887.17	434.28
28 46 13 31-0281 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004RD)	2,443.84	542.86
28 46 13 31-0282 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004G)	1,846.43	434.28
28 46 13 31-0283 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004GD)	2,443.84	542.86



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0284 EA Semi Flush Trim Kit For 10 Zone Enclosures, Gray (EST3 F-TRIM10G)	100.60	13.57
28 46 13 31-0285 EA NAC Power Expansion Transformer, 120 Volt AC, Increases 10 Zone FACP NAC (EST3 F-XTR120)	183.62	27.15
28 46 13 31-0286 FireShield Plus Off Premise Communication Options <small>(28 46 13 31-0264)</small>		
28 46 13 31-0287 EA F-Series Upload/Download DACT And Modem, Dual Line, With 2x16 LCD (EST3 F-DACT).....	407.39	27.15
28 46 13 31-0288 FireShield Plus Remote LED Annunciators <small>(28 46 13 31-0264)</small>		
28 46 13 31-0289 EA Remote System Indicator, Power, Alarm, Supervisory, Trouble And Ground Fault LED's With Local Buzzer, Single Gang, And White Trim Plate (EST3 FSRSI)	169.57	40.71
28 46 13 31-0290 EA Remote Zone Indicator, Contains 5 Red LED's For Alarm Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-A).....	169.57	40.71
28 46 13 31-0291 EA Remote Zone Indicator, Contains 5 Bi-Color LED's (Red/Yellow) For Alarm Or Supervisory Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-SA).....	176.50	40.71
28 46 13 31-0292 EA Remote Annunciator Trim Plate - 2 Gang - White (EST3 FSAT2)	33.96	8.14
28 46 13 31-0293 EA Remote Annunciator Trim Plate - 3 Gang - White (EST3 FSAT3)	42.82	8.14
28 46 13 31-0294 EA Remote Annunciator Trim Plate - 4 Gang - White (EST3 FSAT4)	64.12	8.14
28 46 13 31-0295 FireShield Plus Remote 10 Zone LED Annunciators <small>(28 46 13 31-0264)</small>		
28 46 13 31-0296 EA Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10).....	543.19	40.71
28 46 13 31-0297 EA Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators And Common Control Switches, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10C).....	597.52	40.71
28 46 13 31-0298 EA Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Gray (EST3 RA-ENC1).....	190.09	27.15
28 46 13 31-0299 FireShield Plus Remote Relays And Interfaces <small>(28 46 13 31-0264)</small>		
28 46 13 31-0300 EA Remote Relay Module, 5 Form C Contacts, Jumper Selectable Operation, With Mounting Track (EST3 FSRRM24).....	201.17	27.15
28 46 13 31-0301 EA 11" Snap Track Holds 2-4 RRM's, Used To Mount FSRRM's In MFC-A Or Other Listed Enclosure, MFC-A Will Hold Two FSRRM-11S (EST3 FSRRM-S11).....	82.61	16.29
28 46 13 31-0302 EA Common Function Graphic Driver/Interface - 9 Relays And 5 Switch Inputs For Common System Indicators And Controls (EST3 FSUIM).....	323.19	27.15
28 46 13 31-0303 FireShield Plus Accessories <small>(28 46 13 31-0264)</small>		
28 46 13 31-0304 EA Resistor Kit With 1-3.6K And 1-1.1K (46071-0409) (EST3 EOL3.6-1.1).....	18.53	
28 46 13 31-0305 EA 4.7k UL End Of Line Resistor With FireShield Panels (EST3 EOL47PK7).....	11.09	
28 46 13 31-0306 iO Series Fire Control Panels <small>(28 46 13 31-0002)</small>		
28 46 13 31-0307 Intelligent Analog Control Panels <small>(28 46 13 31-0306)</small>		
28 46 13 31-0308 EA FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 18a/h Batteries, English (EST3 iO500G)	3,605.62	542.86
28 46 13 31-0309 EA FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 18 Amp/hour Batteries, With Dual Line Dialer/Modem, English (EST3 iO500GD)	3,869.10	542.86
28 46 13 31-0310 EA FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 10 Amp/hour Batteries, English (EST3 iO64G)	2,877.98	434.28
28 46 13 31-0311 EA FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 10 Amp/hour Batteries, With Dual Line Dialer/Modem, English (EST3 iO64GD)	3,000.22	434.28
28 46 13 31-0312 Option Modules And Accessories For iO Series <small>(28 46 13 31-0306)</small>		
28 46 13 31-0313 EA 16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Left Side Mounting, Zones 1-16 (EST3 D16L-iO-1).....	353.05	40.71
28 46 13 31-0314 EA 16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Right Side Mounting, Zones 17-32, Requires D16L-iO-1 (EST3 D16L-iO-2).....	217.24	40.71
28 46 13 31-0315 EA Serial Interface, RS232, 4 Terminal Connections For Supervised/Unsupervised Printers And Connection To PC's (EST3 SA-232)	217.24	40.71
28 46 13 31-0316 EA Class A NAC Module, For 64 Point Systems Only, Mounts To Main Board (EST3 SA-CLA)	190.09	27.15
28 46 13 31-0317 EA Dialer/Modem, Two Telephone Line Connections, RJ31, Mounts To Base Plate (EST3 SA-DACT).....	396.54	21.71
28 46 13 31-0318 EA Ethernet Port Interface, RJ45, Mounts To Base Plate (EST3 SA-ETH).....	722.49	21.71
28 46 13 31-0319 EA Trim Kit For Semi-Flush Mounting 64 Point Systems (EST3 SA-TRIM1)	84.19	13.57
28 46 13 31-0320 EA Trim Kit For Semi-Flush Mounting 500 Point Systems (EST3 SA-TRIM2)	97.77	13.57
28 46 13 31-0321 EA Expansion Loop For iO500 Systems, 125 Detectors/125 Modules, Mounts On Main Board (EST3 XAL250).....	1,330.89	54.28
28 46 13 31-0322 Remote Annunciators For iO Series <small>(28 46 13 31-0306)</small>		
28 46 13 31-0323 EA Remote Annunciator, 80 Character LCD, Common System Indicators, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD)	726.53	40.71
28 46 13 31-0324 EA Remote Annunciator, 80 Character LCD, Common System Indicators And Controls, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD-C).....	760.49	40.71
28 46 13 31-0325 Remote Annunciator Accessories <small>(28 46 13 31-0306)</small>		
28 46 13 31-0326 EA 24 Expander Cable Assembly, With Cable And Hardware (EST3 730073).....	81.47	13.57

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0327 EA 12 Expander Cable (Cable Only) (EST3 7120313-01).....	54.31	13.57
28 46 13 31-0328 EA 24 Expander Cable (Cable Only) (EST3 7120313-02).....	74.67	13.57
28 46 13 31-0329 EA Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC1).....	217.24	40.71
28 46 13 31-0330 EA Dual Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC2).....	251.18	40.71
28 46 13 31-0331 EA Three Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC3).....	285.15	40.71
28 46 13 31-0332 EA Blank Zone Card Insert For RLEDx Controllers (EST3 RA-LED16ZC).....	54.31	13.57
28 46 13 31-0333 EA Blank Zone Card Insert For RLED24x Controllers (EST3 RA-LED24ZC).....	54.31	13.57
28 46 13 31-0334 EA Remote Key Switch, Single Gang Mount, Provides Keyed Control To Enable/Disable Common Control Switches On Remote Annunciators (EST3 RKEY).....	113.66	13.57
28 46 13 31-0335 System Accessories (28 46 13 31-0306)		
28 46 13 31-0336 EA Battery Cabinet, 14" x 18.25" x 7.25" Free Standing Cabinet With Key Lock, Supports Up To 40 Amp Hours Batteries, Will Hold Up To Two 12 Volt DC, 24 Ampere Batteries (EST3 BC-1).....	402.20	54.28
28 46 13 31-0337 EA Isolator Module - RS232, For Use With Short Haul Modems, VDU-3, CCA Series, CGP Series And FCOM-232, Requires 1/2 Size Cabinet Footprint (EST3 IOP3A).....	1,795.36	434.28
28 46 13 31-0338 Conventional Initiating Devices (28 46 13 31-0002)		
28 46 13 31-0339 Detectors, Heat, Double Pole (28 46 13 31-0338)		
Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.		
28 46 13 31-0340 EA Heat Detector, 135 Degree F Fixed Temperature (CF135-2).....	154.62	40.71
28 46 13 31-0341 EA Heat Detector, 200 Degree F Fixed Temperature (CF200-2).....	154.62	40.71
28 46 13 31-0342 EA Heat Detector, 135 Degree F ROR/Fixed Temperature (CR135-2).....	154.62	40.71
28 46 13 31-0343 EA Heat Detector, 200 Degree F ROR/Fixed Temperature (CR200-2).....	154.62	40.71
28 46 13 31-0344 Detectors, Rate Compensation Heat, Accessories (28 46 13 31-0338)		
28 46 13 31-0345 EA Heat Detector, Rate Compensation, Adapter Plate For Mounting 302 And 302-AW To Any 3 Outlet Box Or 4" Octagon Outlet Box (GE AP-P).....	92.15	40.71
28 46 13 31-0346 EA Explosion Proof Outlet Body With Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE JALX11).....	265.45	21.71
28 46 13 31-0347 EA 4" Weatherproof, Octagon Backbox And Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE STONCO27).....	80.75	27.15
28 46 13 31-0348 Detectors, Heat, Fire-Lite (28 46 13 31-0338)		
Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.		
28 46 13 31-0349 EA Explosion Heat Detector, 135 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-135).....	144.23	40.71
28 46 13 31-0350 EA Explosion Heat Detector, 194 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-194).....	144.23	40.71
28 46 13 31-0351 Audio Notification Systems (Standalone Voice Evacuation) (28 46 13 31-0002)		
28 46 13 31-0352 Audio Notification Panels (28 46 13 31-0351)		
28 46 13 31-0353 EA Audio Notification Panel, 100 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS100MDG).....	5,119.35	542.86
28 46 13 31-0354 EA Audio Notification Panel, 100 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS100MDR).....	5,119.35	542.86
28 46 13 31-0355 EA Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS25MDG).....	3,801.97	542.86
28 46 13 31-0356 EA Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS25MDR).....	3,801.97	542.86
28 46 13 31-0357 EA Audio Notification Panel, 50 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS50MDG).....	4,453.87	542.86
28 46 13 31-0358 EA Audio Notification Panel, 50 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS50MDR).....	4,453.87	542.86
28 46 13 31-0359 Audio Notification Expander Panels (28 46 13 31-0351)		
28 46 13 31-0360 EA Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS100XG).....	3,910.62	542.86
28 46 13 31-0361 EA Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS100XR).....	3,910.62	542.86
28 46 13 31-0362 EA Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS25XG).....	2,633.98	542.86
28 46 13 31-0363 EA Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS25XR).....	2,633.98	542.86
28 46 13 31-0364 EA Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS50XG).....	3,380.95	542.86
28 46 13 31-0365 EA Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS50XR).....	3,380.95	542.86
28 46 13 31-0366 Audio Notification Output Accessories (28 46 13 31-0351)		
28 46 13 31-0367 EA Zone Adapter, 1 Circuit To 2 Circuit's (GE ANSZC2B).....	149.38	13.57
28 46 13 31-0368 EA Zone Splitter, 2 Class A Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS2A).....	665.44	27.15



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0369 EA Zone Splitter, 4 Class B Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS4B)	665.44	27.15
28 46 13 31-0370 EA Class A Converter (GE ANSZSC4A)	475.30	27.15
28 46 13 31-0371 Audio Notification Remote Microphone <small>(28 46 13 31-0351)</small>		
28 46 13 31-0372 EA Microphone (GE ANSMIKE)	176.51	27.15
28 46 13 31-0373 EA Remote Microphone, Supervised In Surface/Semi-Flush Gray Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMG).....	733.34	27.15
28 46 13 31-0374 EA Remote Microphone, Supervised In Surface/Semi-Flush Red Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMR).....	733.34	27.15
28 46 13 31-0375 EA Remote Microphone Supervisory Card, One Per System, Supervises Up To 5 Remote Microphones (GE ANSREMSUP).....	162.96	13.57
28 46 13 31-0376 EA Relay Card For Supervision/Zone Splitter To Remote Microphone (GE ANSZSR)	88.25	13.57
28 46 13 31-0377 Audio Notification Accessories <small>(28 46 13 31-0351)</small>		
28 46 13 31-0378 EA Audio Matching - Line Input/Output Card (GE ANSAUX)	298.74	27.15
28 46 13 31-0379 EA Class B Backup Amplifier Switching Module (GE ANSBKUP)	298.74	27.15
28 46 13 31-0380 EA Class A Backup Amplifier Switching Module (GE ANSBKUPA).....	298.74	27.15
28 46 13 31-0381 EA Eight Input Remote Serial Interface Module, Accepts Dry Contact Interface To Control Up To 8 Messages, Message Recording Included With Module, For Industrial Signaling Only, Not UL Listed For Fire Alarm / Life Safety Applications (GE ANSRSl8)	665.44	27.15
28 46 13 31-0382 Audio Notification Modules, Without Cabinet And Transformer <small>(28 46 13 31-0351)</small>		
28 46 13 31-0383 EA 100W Expander Module (No Microphone OR DMR), Requires Transformer Ordered Separately (GE ANS100A)	2,430.97	54.28
Note: Excludes cabinet.		
28 46 13 31-0384 EA 100W Expander Module With Microphone (No DMR), Requires Transformer Ordered Separately (GE ANS100AM).....	2,553.20	54.28
Note: Excludes cabinet.		
28 46 13 31-0385 EA 100W Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS100AMD)	3,531.06	54.28
Note: Excludes cabinet.		
28 46 13 31-0386 EA 25 Watt Expander Module (No Microphone Or DMR), Requires Transformer Ordered Separately (GE ANS25A).....	1,330.89	54.28
Note: Excludes cabinet.		
28 46 13 31-0387 EA 25 Watt Expander Module With Microphone (No DMR), Requires Transformer (GE ANS25AM)	1,330.89	54.28
Note: Excludes cabinet.		
28 46 13 31-0388 EA 25 Watt Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS25AMD)	2,430.97	54.28
28 46 13 31-0389 EA 50W Expander Module (No Microphone Or DMR) (GE ANS50A)	1,942.05	54.28
Note: Excludes cabinet.		
28 46 13 31-0390 EA 50W Expander Module With Microphone (No DMR) (GE ANS50AM)	2,064.28	54.28
Note: Excludes cabinet.		
28 46 13 31-0391 EA 50W Audio Notification Module With DMR And Microphone (GE ANS50AMD).....	3,042.13	54.28
Note: Excludes cabinet.		
28 46 13 31-0392 EA Power Transformer, Open Frame, 28 Volt AC At 180 VA (EVAX 50/100) (GE ANST28180).....	149.38	13.57
28 46 13 31-0393 EA Power Transformer, Open Frame, 28 Volt AC At 100 VA (EVAX 25) (GE ANST2885).....	110.05	13.57
28 46 13 31-0394 Simplex Fire Alarm <small>(28 46 13 31)</small>		
28 46 13 31-0395 4100 Fire Alarm Control Panel <small>(28 46 13 31-0394)</small>		
28 46 13 31-0396 EA 4100U Master Controller Assembly With LCD And Operator Interface, 9 Amperes System Power Supply/Battery Charger (SPS), 250 Point IDNet Interface, 3 NACs, Auxiliary Relay And External RUI Communications Interface, 120 Volt AC Input (Simplex 4100-9111)	6,286.02	541.87
28 46 13 31-0397 EA 4100ES NDU With Master Controller, LCD And Operator Interface, Network Interface Module (Select Media Card Separately), 9 Amperes System Power Supply/Battery Charger, And External RUI Communications Interface (Power Supply/Battery Charger Is An SPS With Its IDNet Channel And NACs Disabled), 120 Volt AC Input (Simplex 4100-9141).....	6,876.00	541.87
28 46 13 31-0398 EA 4100ES NDU With VCC Includes The First Bay Equipment Described For The NDU And A Second Bay Assembly With Separate: Master Controller For Voice Functions, Network Interface (Select Media Card Separately), And A Standard SPS With 250 Point IDNet Channel; And 3, 3 A Class A/B NACs Capable Of SmartSync Two-Wire Operation, 120 V Input (Simplex 4100-9142)	9,965.99	541.87
28 46 13 31-0399 EA Up To 127 Points, IDNet Module, (Simplex 4100-3104)	3,967.54	541.87
Note: Add-on module.		
28 46 13 31-0400 EA Up To 64 Points, IDNet Module, (Simplex 4100-3105).....	3,067.80	541.87
Note: Add-on module.		
28 46 13 31-0401 EA Expansion Power Supply, 3 NACs, 120 Volt AC (Simplex 4100-5101)	2,036.62	135.46
Note: Add-on module.		
28 46 13 31-0402 EA Alarm Relay, 3 Form C Relays, 2 Amperes At 32 Volt DC, For SPS Or RPS (Simplex 4100-6033).....	426.22	27.10
Note: Add-on module.		
28 46 13 31-0403 EA Dual Port RS-232 Interface Card (Simplex 4100-6038).....	1,231.31	27.10
Note: Add-on module.		
28 46 13 31-0404 4100U Backbox <small>(28 46 13 31-0394)</small>		
28 46 13 31-0405 EA 2 Bay Backbox With Glass Door And Dress Panel (Simplex 2975-9425)	2,125.73	108.38
Note: 24" x 40" beige backbox.		
28 46 13 31-0406 EA 3 Bay Backbox With Glass Door And Dress Panel (Simplex 2975-9443).....	3,001.07	108.38
Note: 24" x 56" beige backbox.		
28 46 13 31-0407 DACT (Digital Alarm Communicator Transmitter) <small>(28 46 13 31-0394)</small>		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0408 EA 6 Zone Fire Control Communicator (Silent Knight SK-5104)	1,164.74	54.18
28 46 13 31-0409 4010 Fire Alarm Control Panel (28 46 13 31-0394)		
28 46 13 31-0410 EA 120 Volt AC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACs, 2 Programmable Auxiliary Relays, External N2 Communications Interface, And Internal Common Event Reporting DACT (Simplex 4010-9101)	5,924.34	541.87
28 46 13 31-0411 EA 240 Volt AC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACs, 2 Programmable Auxiliary Relays, And External N2 Communications Interface (Simplex 4010-9201)	5,745.11	541.87
28 46 13 31-0412 EA Dual Circuit Class A NAC Adapter Module (Simplex 4010-9806)	217.10	27.10
28 46 13 31-0413 EA Dual RS-232 Interface Module Expansion Slot Option (Simplex 4010-9811)	958.17	27.10
28 46 13 31-0414 EA Single RS-232 Interface Module With Service Modem Connection Expansion Slot Option (Simplex 4010-9812)	1,319.13	27.10
28 46 13 31-0415 EA 120 Volt AC, 4 Amperes, Expansion Power Supply Expansion Module (Simplex 4010-9813)	675.48	27.10
28 46 13 31-0416 EA 240 Volt AC, 4 Amperes, Expansion Power Supply Expansion Module (Simplex 4010-9823)	731.36	27.10
28 46 13 31-0417 EA Battery Meter Module Expansion Module (Simplex 4010-9820)	271.39	27.10
28 46 13 31-0418 Printer (28 46 13 31-0394)		
28 46 13 31-0419 EA 24 Pin Dot Matrix Printer (Simplex 4190-9013)	2,127.31	27.10
28 46 13 31-0420 NAC Panel / Power Booster (28 46 13 31-0394)		
28 46 13 31-0421 EA 120 Volt AC, IDNet NAC Extender With 4, Class B (Style Y) NACs And 8 Amperes Power Supply (Simplex 4009-9201) Note: Power supply for horns and strobes.	1,354.96	135.46
28 46 13 31-0422 Battery (28 46 13 31-0394)		
28 46 13 31-0423 EA 50 Ampere Hours Sealed Lead Acid Battery (Simplex 2081-9296) Note: Two required for 24 volt DC.	857.42	27.10
28 46 13 31-0424 EA 33 Ampere Hours Sealed Lead Acid Battery (Simplex 2081-9276) Note: Two required for 24 volt DC.	567.96	27.10
28 46 13 31-0425 EA 6.2 Ampere Hours Sealed Lead Acid Battery (Simplex 2081-9272) Note: Two required for 24 volt DC.	201.33	27.10
28 46 13 31-0426 Interface Modules (28 46 13 31-0394)		
28 46 13 31-0427 EA Supervised Individual Addressable Modules (Simplex 4090-9001) Note: Monitor modules for waterflow/tamper, etc.	161.55	27.10
28 46 13 31-0428 EA Relay Individual Addressable Modules (Simplex 4090-9002) Note: Control modules for gas shutdown, door holders, etc.	340.22	27.10
28 46 13 31-0429 EA Relay SPDT With LED MR-801/T (Simplex 2088-9032) Note: Interface relay for 120VAC	77.37	27.10
28 46 13 31-0430 EA SmartSync™ Adapter Module For Non-Addressable Notification Appliance Circuits (NACs) (Simplex 4905-9815)	163.52	27.10
28 46 13 31-0431 EA Surface Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9817)	72.49	13.54
28 46 13 31-0432 EA Flush Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9818)	68.71	13.54
28 46 13 31-0433 Pull Stations (28 46 13 31-0394)		
28 46 13 31-0434 EA Addressable Single Action Manual Pull Station (Simplex 4099-9001)	199.87	27.10
28 46 13 31-0435 EA N.O. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9101)	141.20	27.10
28 46 13 31-0436 EA N.C. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9102)	152.54	27.10
28 46 13 31-0437 EA Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9103)	136.09	27.10
28 46 13 31-0438 EA N.O. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9104)	160.11	27.10
28 46 13 31-0439 EA N.C. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9105)	246.44	27.10
28 46 13 31-0440 EA Single Action, Pre-Signal, N.O. Contacts, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9107)	205.50	27.10
28 46 13 31-0441 EA Break-Glass, Pre-Signal, N.O. Contacts, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9108)	243.33	27.10
28 46 13 31-0442 EA Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9754)	109.67	27.10
28 46 13 31-0443 EA Local Alarm Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9755)	116.59	27.10
28 46 13 31-0444 EA Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9756)	138.89	27.10
28 46 13 31-0445 EA N.C. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9758)	219.92	27.10
28 46 13 31-0446 EA Pre-Signal, N.O. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9759)	385.65	27.10
28 46 13 31-0447 EA Institutional Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9762)	122.28	27.10
28 46 13 31-0448 EA Surface Mount Steel Box For Manual Pull Station (Simplex 2975-9178)	76.29	13.54
28 46 13 31-0449 Weatherproof Pull Stations (28 46 13 31-0394)		
28 46 13 31-0450 EA Weather Proof Single Action Pull Station, Cast Metal, B Lock, SPST (Simplex 2099-9138)	193.67	32.51
28 46 13 31-0451 EA Surface Mount Cast Aluminum Box For Exterior Pull Station (Simplex 2975-9211)	126.55	13.54
28 46 13 31-0452 Heat / Smoke Sensor (28 46 13 31-0394)		
28 46 13 31-0453 EA 32 To 122 Degree F Heat Sensor (Simplex 4098-9733)	192.72	40.64
28 46 13 31-0454 EA Photoelectric Smoke Sensor (Simplex 4098-9714)	285.59	40.64
28 46 13 31-0455 EA Sensor Base With Relay Driver (Simplex 4098-9791)	573.70	13.54
28 46 13 31-0456 EA Standard Sensor Base (Simplex 4098-9792)	289.81	13.54



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0457 EA Remote Supervised Relay Accessory For Sensor Base With Relay Driver (Simplex 2098-9737)..... Note: Relay for 4098-9791	162.24	27.10
28 46 13 31-0458 Explosion Proof Heat Detector <small>(28 46 13 31-0394)</small>		
28 46 13 31-0459 EA 135 Degree F Explosion Proof Heat Detector (Simplex 2098-9488).....	204.60	40.64
28 46 13 31-0460 EA Explosion Proof Backbox (Killark JLX-21)	136.83	13.54
28 46 13 31-0461 EA Explosion Proof Backbox Plugs (Killark CUP-2)	12.12	2.71
28 46 13 31-0462 Weatherproof Heat Detector <small>(28 46 13 31-0394)</small>		
28 46 13 31-0463 EA 194 Degree F Fixed Hardwired Weatherproof Heat Detector (Simplex 2098-9490).....	144.93	40.64
28 46 13 31-0464 200 Degree F Heat Detector <small>(28 46 13 31-0394)</small>		
28 46 13 31-0465 EA 194 Degree F Heat Detector, ROR/Fixed Temperature (Simplex 5604)..... Note: Used in kiln rooms and kitchens.	118.26	40.64
28 46 13 31-0466 Duct Smoke Sensor <small>(28 46 13 31-0394)</small>		
28 46 13 31-0467 EA Duct Sensor Housing (Simplex 4098-9755).....	461.08	21.67
28 46 13 31-0468 EA Duct Sensor Housing With Supervised Output For Multiple Remote Relays, 4-Wire (Simplex 4098-9756)	616.75	48.77
	<small>Note: Relay output for AHU shutdown.</small>	
28 46 13 31-0469 EA 46" To 71" Duct Sampling Tube (Simplex 2098-9798)	66.56	13.54
	<small>Note: 25", 49", 73" or 97" sampling tube length.</small>	
28 46 13 31-0470 EA Remote Duct Test Station With Key Switch And Red LED Status Indicator (Simplex 2098-9806)	156.19	40.64
28 46 13 31-0471 Interior Horn <small>(28 46 13 31-0394)</small>		
28 46 13 31-0472 EA Red With White "FIRE" Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9850).....	143.77	40.64
28 46 13 31-0473 EA White With Red "FIRE" Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9853).....	143.77	40.64
28 46 13 31-0474 Interior Horn Strobe <small>(28 46 13 31-0394)</small>		
28 46 13 31-0475 EA 75Cd, Wall Mounted Horn Strobe, Red (Simplex 4903-9426)	202.79	40.64
28 46 13 31-0476 EA 110Cd, Wall Mounted Horn Strobe, Red (Simplex 4903-9427)	202.79	40.64
28 46 13 31-0477 EA Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9127)	189.32	40.64
28 46 13 31-0478 EA Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9128)	189.32	40.64
28 46 13 31-0479 EA Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9129)	189.32	40.64
28 46 13 31-0480 EA Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9130)	189.32	40.64
28 46 13 31-0481 EA Weatherproof, Red Housing, White Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9131).....	193.84	40.64
28 46 13 31-0482 EA Weatherproof, White Housing, Red Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9132).....	193.84	40.64
28 46 13 31-0483 EA Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9139)	201.77	40.64
28 46 13 31-0484 EA Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9140)	198.11	40.64
28 46 13 31-0485 EA Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9141)	201.77	40.64
28 46 13 31-0486 EA Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9142)	198.11	40.64
28 46 13 31-0487 EA Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9227).....	189.32	40.64
28 46 13 31-0488 EA Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9228).....	189.32	40.64
28 46 13 31-0489 EA Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9229).....	189.32	40.64
28 46 13 31-0490 EA Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9230).....	189.32	40.64
28 46 13 31-0491 Interior Strobe <small>(28 46 13 31-0394)</small>		
28 46 13 31-0492 EA Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9101)	160.72	40.64
28 46 13 31-0493 EA Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9102).....	160.72	40.64
28 46 13 31-0494 EA Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9103)	160.66	40.64
28 46 13 31-0495 EA Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9104).....	160.72	40.64
28 46 13 31-0496 EA Weatherproof, Red Housing, White Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9105)	177.83	40.64
28 46 13 31-0497 EA Weatherproof, White Housing, Red Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9106)	177.83	40.64
28 46 13 31-0498 EA Wall Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9109)	178.92	40.64

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0499 EA Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9110).....	181.90	40.64
28 46 13 31-0500 EA Wall Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9111).....	181.90	40.64
28 46 13 31-0501 EA Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9112).....	181.90	40.64
28 46 13 31-0502 EA Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9201).....	160.72	40.64
28 46 13 31-0503 EA Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9202).....	160.72	40.64
28 46 13 31-0504 EA Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9203).....	160.72	40.64
28 46 13 31-0505 EA Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9204).....	160.72	40.64
28 46 13 31-0506 Interior Speakers (28 46 13 31-0394)		
28 46 13 31-0507 EA Red With White "FIRE" Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9716).....	129.29	40.64
28 46 13 31-0508 EA White With Red "FIRE" Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9717).....	129.29	40.64
28 46 13 31-0509 EA Ceiling Or Wall Mount, Round Housing Speaker (Simplex 4902-9721).....	129.29	40.64
28 46 13 31-0510 Interior Speaker Strobe (28 46 13 31-0394)		
28 46 13 31-0511 EA Red Housing, White Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9151).....	216.11	40.64
28 46 13 31-0512 EA White Housing, Red Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9153).....	216.11	40.64
28 46 13 31-0513 Surge Suppressors (28 46 13 31-0394)		
28 46 13 31-0514 EA Overvoltage Suppressor (Simplex 2081-9044).....	143.62	8.13
28 46 13 31-0515 EA Isolated Loop Circuit Protector (Simplex 2081-9028).....	91.21	8.13
28 46 13 31-0516 EA 120 Volt AC, 20 Amperes, Multi Stage Hybrid Surge Protector With EMI/RFI Filtering (Ditek 120S20A).....	309.62	8.13
28 46 13 31-0517 EA 24 Volt AC, Data And Loop Circuit Surge Protector (Ditek DTK-2MHL24B).....	104.71	8.13
28 46 13 31-0518 EA Mounting Base For Two DTK-2MHL (Ditek DTK-2MB).....	157.48	13.54
28 46 13 31-0519 EA 120 Volt AC, 22,500 Amperes, Equipment Panel/Dedicated Circuit Surge Protector (Ditek DTK-120HW).....	107.39	8.13
28 46 13 31-0520 EA <105 Volt AC, 9,000 Amperes, RJ31 Connection, Alarm Dialer Surge Protection (Ditek DTK-MRJ31SCWP).....	80.38	8.13
28 46 13 31-0521 Boxes And Adapters (28 46 13 31-0394)		
28 46 13 31-0522 EA Semi-Flush Mount Modular Adapter Using Standard 4" Square Electrical Box (Simplex 4905-9921).....	68.71	13.54
28 46 13 31-0523 EA Surface Mount Modular Adapter Using Simplex Box (Simplex 4905-9925).....	64.93	13.54
28 46 13 31-0524 EA Red, Surface Mount Adapter Skirt (Simplex 4905-9937).....	57.51	13.54
28 46 13 31-0525 EA White, Surface Mount Adapter Skirt (Simplex 4905-9940).....	46.99	13.54
28 46 13 31-0526 Accessories (28 46 13 31-0394)		
28 46 13 31-0527 EA End-Of-Line Resistor Harness, 10 k Ohms, 1/2 Watt, Two Required, One Each For Audible And Visible Output (Simplex 4081-9008).....	31.50	13.54
28 46 13 31-0528 Siemens Fire Alarm (28 46 13 31)		
28 46 13 31-0529 Conventional Control Panels (28 46 13 31-0528)		
28 46 13 31-0530 SXL Batteries And Power Supplies (28 46 13 31-0529)		
28 46 13 31-0531 EA 6 Amperes Notification Appliance Circuit Expander With Built-In Auxiliary Power Output (Siemens PAD-3).....	1,216.61	54.18
28 46 13 31-0532 EA Main Board Only For PAD-3 (Siemens PAD-3-MB).....	977.58	54.18
28 46 13 31-0533 Digital Fire Communicators (28 46 13 31-0529)		
28 46 13 31-0534 EA Four Channel Digital Slave Fire Communicator (Siemens 5129).....	946.07	54.18
28 46 13 31-0535 Addressable Control Panels (28 46 13 31-0528)		
28 46 13 31-0536 Fireseeker Equipment (28 46 13 31-0535)		
28 46 13 31-0537 FS-250 System Panels (28 46 13 31-0536)		
28 46 13 31-0538 EA FS-250 Electronics Package Including One FS-250-CON And Two FS-NPE, Excludes Enclosure (Siemens FS-250-EKIT).....	2,839.52	541.87
Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer.		
28 46 13 31-0539 EA FS-250 Electronics Package Including One FS-250-CON, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-REL-EKIT).....	3,569.65	541.87
Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS-RPT is a releasing power transformer. FS-REL is a Releasing Module.		
28 46 13 31-0540 EA FS-250-SRX Releasing Electronics Package Including One FS-250-CON2-SRX, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-SRX-EKIT).....	2,105.60	433.49
Note: FS-250-CON2-SRX is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS-RPT is a releasing power transformer. FS-REL is a Releasing Module.		
28 46 13 31-0541 EA Electronics Package For Releasing Water Or Agent (Siemens FS-250-CON).....	2,843.87	541.87



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0542 FS-250 Optional Modules <small>(28 46 13 31-0536)</small>						
				28 46 13 31-0543 EA Main Board Module (Siemens FS-MB2)	1,225.30	54.18
				28 46 13 31-0544 EA Display Board Module (Siemens FS-DB2).....	958.15	27.10
				28 46 13 31-0545 EA Device Loop Card (Siemens FS-DLC).....	784.31	27.10
				28 46 13 31-0546 EA Releasing Module (Siemens FS-REL).....	345.36	27.10
				28 46 13 31-0547 EA Remote LCD Annunciator (Siemens FS-RD2).....	778.88	27.10
				28 46 13 31-0548 EA Relay Processor Card (Siemens FS-RU2).....	675.66	27.10
				28 46 13 31-0549 EA Relay Expander Board (Siemens FS-RE8).....	575.70	27.10
				28 46 13 31-0550 EA Serial Annunciator Processor Card (Siemens FS-SAU2)	778.88	27.10
				28 46 13 31-0551 EA 16 Output Annunciator Extender (Siemens FS-SAE16)	606.12	27.10
				28 46 13 31-0552 EA Digital Alarm Communication Transmitter (Siemens FS-DACT).....	550.71	27.10
				28 46 13 31-0553 EA Municipal Tie Module (Siemens FS-MT).....	467.05	27.10
				28 46 13 31-0554 EA Configuration Tool Including Laptop To FS-250 Cable And Software (Siemens FS-CT2).....	420.21	
				28 46 13 31-0555 EA Programming Cable Kit (Siemens CBL-UD)	110.76	13.54
				28 46 13 31-0556 EA Notification Appliance Circuit Power Expander Transformer (Siemens FS-NPE)	198.68	27.10
				28 46 13 31-0557 EA Releasing Power Transformer (Siemens FS-RPT-A)	201.94	27.10
				28 46 13 31-0558 EA Surface Mounted Box For Remote LCD Annunciator (Siemens FS-RD-SB).....	230.23	21.67
				28 46 13 31-0559 EA Cabinet Trim Kit (Siemens RD-CAB-TK)	379.13	13.54
28 46 13 31-0560 Firefinder Systems <small>(28 46 13 31-0535)</small>						
28 46 13 31-0561 XLS Basic Fire System Packages Without Backbox <small>(28 46 13 31-0560)</small>						
				28 46 13 31-0562 EA 500 Point Firefinder Package Including Two DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-500-ID-SP).....	10,156.51	541.87
				Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
				28 46 13 31-0563 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-250-ID-SP).....	8,915.73	541.87
				Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
				28 46 13 31-0564 EA 250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-250-INT-ID-SP).....	8,915.73	541.87
				Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
				28 46 13 31-0565 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB2-BD And One OD-LP (Siemens XLS-250-CAB2-BD).....	15,082.71	541.87
				Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB2-BD is a two row inner and outer door set. OD-LP is an outer door clear plastic lens plate.		
				28 46 13 31-0566 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB3-BD, One BCL, One ID-SP And One OD-LP (Siemens XLS-250-CAB3-BD).....	15,597.71	541.87
				Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB3-BD is a three row inner and outer door set. ID-SP is an inner door blank single plate. OD-LP is an outer door clear plastic lens plate.		
				28 46 13 31-0567 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-EP).....	8,790.78	541.87
				Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
				28 46 13 31-0568 EA 250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-INT-EP).....	8,790.78	541.87
				Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
				28 46 13 31-0569 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-8B, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC8B-EP).....	10,242.35	541.87
				Note: DLC is a device loop card. PMI is a person machine interface. ZIC-8B is an eight circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 13 31-0570 Firefinder - XLS Basic System Equipment <small>(28 46 13 31-0560)</small>						
				28 46 13 31-0571 EA Person Machine Interface With Central Processor (Siemens PMI).....	4,705.04	541.87
				Note: Includes inner door.		
				28 46 13 31-0572 EA Person Machine Interface With Central Processor, DE-2 And DPU (Siemens PMI-DPU-ENC).....	7,911.31	541.87
				Note: Includes inner door.		
				28 46 13 31-0573 EA Person Machine Interface With Multilingual Overlays And Central Processor (Siemens PMI-INT)	4,705.04	541.87
				Note: Includes inner door.		
				28 46 13 31-0574 EA Two Slot Card Cage (Siemens CC-2).....	593.08	27.10
				28 46 13 31-0575 EA Five Slot Card Cage (Siemens CC-5).....	1,007.04	27.10
				28 46 13 31-0576 EA Four Circuit Zone Indicating Card (Siemens ZIC-4A)	1,441.64	27.10
				28 46 13 31-0577 EA Eight Circuit Zone Indicating Card (Siemens ZIC-8B).....	1,505.74	27.10
				28 46 13 31-0578 EA Two Channel Adapter Card For ZIC-8B (Siemens ZIC-2C).....	471.40	27.10
				28 46 13 31-0579 EA Device Loop Card (Siemens DLC).....	1,710.01	27.10
				Note: Interfaces with up to 252 detectors and devices.		
				28 46 13 31-0580 EA Controllable Relay Card (Siemens CRC-6).....	965.75	27.10
				Note: Provides six programmable relays.		
				28 46 13 31-0581 EA 12 Amperes Power Supply Charger Module (Siemens PSC-12).....	3,675.48	27.10
				28 46 13 31-0582 EA Person Machine Interface With Central Processor And GPMI-UK Software Upgrade Kit (Siemens GPMI)	6,154.44	541.87
				Note: Software kit provides interface with multiple FireFinder XLS and MXL systems.		

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0583 EA Network Interface Card (Siemens NIC-C).....	1,130.90	27.10
Note: Provides HNET Or XNET communication between enclosures.		
28 46 13 31-0584 EA 12 Amperes Power Supply Extender (Siemens PSX-12).....	3,056.18	27.10
Note: Extends PSC-12 with an additional 24 volt DC.		
28 46 13 31-0585 EA Power Termination Board (Siemens PTB)	510.51	27.10
Note: Used with systems requiring more than one PSX-12.		
28 46 13 31-0586 EA Conventional Detector Card (Siemens CDC-4)	1,089.61	27.10
28 46 13 31-0587 EA Multi-Mode Network Fiber Optic Interface Module (Siemens D2300CPS).....	2,140.26	27.10
28 46 13 31-0588 EA Single-Mode Network Fiber Optic Interface Module (Siemens D2325CPS)	7,711.83	27.10
28 46 13 31-0589 Remote Lobby Enclosure (28 46 13 31-0560)		
28 46 13 31-0590 EA 14-1/2" x 18-1/2" x 5" Two Module Remote Enclosure (Siemens REMBOX2).....	1,397.78	108.38
Note: Flush mounted. Includes clear lens plate on cover.		
28 46 13 31-0591 EA 24" x 18-1/2" x 5" Four Module Remote Enclosure (Siemens REMBOX4)	1,810.65	108.38
Note: Flush mounted. Includes clear lens plate on cover.		
28 46 13 31-0592 EA Optional Mounting Plate For REMBOX2 (Siemens REMBOX2-MP).....	220.41	27.10
Note: Required to mount up to four SIM-16 or OCM-16 modules.		
28 46 13 31-0593 EA Optional Mounting Plate For REMBOX4 (Siemens REMBOX4-MP).....	241.06	27.10
Note: Required to mount up to eight SIM-16 or OCM-16 modules.		
28 46 13 31-0594 Battery Enclosures (28 46 13 31-0560)		
28 46 13 31-0595 EA Enclosure For 100 Ampere Hours Batteries (Siemens CAB-BATT).....	858.87	108.38
28 46 13 31-0596 Graphic Annunciator Output Drivers And Inputs (28 46 13 31-0560)		
28 46 13 31-0597 EA Output Control Module (Siemens OCM-16)	696.30	27.10
28 46 13 31-0598 EA Supervised Input Module (Siemens SIM-16)	696.30	27.10
28 46 13 31-0599 Remote LCD Displays (28 46 13 31-0560)		
28 46 13 31-0600 EA Remote LED/LCD System Status Display (Siemens SSD).....	1,610.86	81.28
Note: No control or menu capability.		
28 46 13 31-0601 EA Remote LED/LCD System Status Display, Buttons To Acknowledge Events, Silence Audible Circuits And Resetting (Siemens SSD-C)	1,818.39	81.28
28 46 13 31-0602 Voice Equipment (28 46 13 31-0560)		
28 46 13 31-0603 EA 40 Watts Zone Amplifier Card (Siemens ZAC-40)	1,610.05	27.10
28 46 13 31-0604 EA 180 Watts Zone Amplifier Module (Siemens ZAM-180).....	3,573.35	27.10
28 46 13 31-0605 EA Live Voice Module (Siemens LVM)	1,502.48	27.10
Note: Includes a dynamic microphone with a push-to-talk switch and ready-to-page indicator light, as well as a small local speaker and volume control for monitoring audio signals.		
28 46 13 31-0606 MXL Series Equipment (28 46 13 31-0535)		
28 46 13 31-0607 MXL Optional Equipment (28 46 13 31-0606)		
28 46 13 31-0608 EA Two Circuit Analog Loop Driver (Siemens ALD-2I).....	1,729.44	54.18
28 46 13 31-0609 EA CXL/MXL Interface Module (Siemens CMI-300)	4,487.10	27.10
28 46 13 31-0610 EA Four Relay Programmable Relay Module (Siemens CRM-4)	766.92	27.10
28 46 13 31-0611 EA Two Circuit Controllable Signal/Releasing Module (Siemens CSM-4).....	926.64	27.10
28 46 13 31-0612 EA Remote Conventional Zone Module (Siemens CZM-1B6)	346.45	27.10
28 46 13 31-0613 EA Short Circuit Line Isolator Module (Siemens Model LIM-1).....	212.81	27.10
28 46 13 31-0614 EA Four Circuit Conventional Zone Module (Siemens CZM-4)	901.65	27.10
28 46 13 31-0615 EA 12" x 16" x 3" Enclosure For PAD-3 (Siemens EN-PAD)	320.31	40.64
28 46 13 31-0616 EA Lexan Window For RCC (Siemens GENBOX-WD).....	218.28	21.67
28 46 13 31-0617 EA Input Driver Module (Siemens MID-16).....	589.82	27.10
28 46 13 31-0618 EA Programmable Output Driver Module (Siemens MOD-16).....	589.82	27.10
28 46 13 31-0619 EA MXL Output/Input Module (Siemens MOI-7).....	946.20	27.10
28 46 13 31-0620 EA Two Slot Network Option Module Card Cage (Siemens MOM-2)	501.82	27.10
28 46 13 31-0621 EA Four Slot Network Option Module Card Cage (Siemens MOM-4).....	791.91	27.10
28 46 13 31-0622 EA 12 Amperes, 220 Volt AC, Power Supply For MXL (Siemens MPS-12/220).....	1,945.51	81.28
28 46 13 31-0623 EA 12 Amperes, 240 Volt AC, Power Supply For MXL (Siemens MPS-12/240).....	1,945.51	81.28
28 46 13 31-0624 EA Network Interface Module (Siemens NIM-1W).....	1,413.39	27.10
28 46 13 31-0625 EA U.L. Listed Parallel Printer (Siemens PAL-1)	3,693.55	108.38
28 46 13 31-0626 EA Peripheral Interface Module, Model PIM-1 (Siemens 500-691324)	411.64	27.10
28 46 13 31-0627 EA Surface Mounted Remote Command Center (Siemens RCC-1).....	3,979.26	541.87
28 46 13 31-0628 EA Enclosure And Door With Lens For RCC-1 (Siemens RCC-1DL)	491.91	54.18
28 46 13 31-0629 EA Flush Mounted Remote Command Center (Siemens RCC-1F)	3,979.26	541.87
28 46 13 31-0630 EA Enclosure And Door With Lens For RCC-1F (Siemens RCC-1FDL).....	504.95	54.18
28 46 13 31-0631 EA Remote Control Center With System Control Functions And Sequential Event Display (Siemens RCC-2).....	3,039.44	541.87
28 46 13 31-0632 EA MXL/MXLV Remote Annunciator/Keyboard With Enhanced Display (Siemens RCC-3).....	4,592.05	541.87
28 46 13 31-0633 EA RCC-2/RSE-1 Trim Ring (Siemens RCF-1)	75.99	13.54
28 46 13 31-0634 EA Remote Diagnostics Module For MXL (Siemens RDM-MXL)	5,758.18	54.18
28 46 13 31-0635 EA Remote Diagnostics Module For PC (Siemens RDM-PC)	12,273.92	54.18
28 46 13 31-0636 EA Releasing End Of Line Module (Siemens REL-EOL).....	172.61	27.10
28 46 13 31-0637 EA 36 Zone Tabular Graphic Annunciator With Restart System Key (Siemens RSA-MBSC)	3,668.84	54.18
28 46 13 31-0638 EA 36 Zone Tabular Graphic Annunciator (Siemens RSA-MBTL).....	3,502.61	54.18
28 46 13 31-0639 EA 8-3/8" x 6-1/4" Remote Control Enclosure (Siemens RSE-1).....	1,847.59	108.38



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0640				Complete MXL And MXLV System Packages Without Enclosure <small>(28 46 13 31-0606)</small>		
28 46 13 31-0641	EA			MXL System Electronics Package Including One MMB-3, One Display/Control Keyboard, One MDL-1, One MKB-2, One Mps-6, One MOM-2, One ALD-2I And One PIM-1 (Siemens MXL-SS-EP) 13,301.93	13,301.93	541.87
Note: MMB-3 is a MXL/MXLV main control board. MDL-1 is a clear lens. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. MOM-2 is a two slot network option module card cage. ALD-2I is a two circuit analog loop driver. PIM-1 is a peripheral interface module.						
28 46 13 31-0642	EA			MXL Voice System Electronics Package Including One MMB-3, One MKB-2, One MPS-6, One ACM-1, One TBM-2, One MMM-1, One OMM-2, One ZAC-30, One OCC-1, One MHD-5, One VSM-1 And Four VSB-1 (Siemens MXLV-SS-EP)..... 17,374.13	17,374.13	541.87
Note: MMB-3 is a MXL/MXLV main control board. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. ACM-1 is an audio control module. TBM-2 is a voice terminal module. MMM-1 is a master microphone module. OMM-2 is a two half width slot card cage. ZAC-30 is a MXLV zone amplifier card. OCC-1 is a MXLV output control card. MHD-5 is a deadfront panel for MSE-2 backbox. VSM-1 is an eight switch module. VSB-1 is a module blank with overlay.						
28 46 13 31-0643	EA			MXLV Demonstration Panel (Siemens MXLV DEMO) 36,392.23	36,392.23	541.87
28 46 13 31-0644				MXL Basic System <small>(28 46 13 31-0606)</small>		
28 46 13 31-0645	EA			MXL/MXLV Main Control Board (Siemens MMB-3) 8,178.00	8,178.00	541.87
28 46 13 31-0646	EA			MXL System Electronics Package Including One MMB-3, One DE-2 And One DPU (Siemens MMB-DPU-ENCL) 10,610.67	10,610.67	541.87
Note: MMB-3 is a MXL/MXLV main control board. DE-2 is an enclosure for document storage. DPU is a handheld device programming and testing unit.						
28 46 13 31-0647	EA			MXL/MXLV Display/Keyboard Module With Hinged Frame (Siemens MKB-2) 3,093.00	3,093.00	54.18
28 46 13 31-0648	EA			MXL/MXLV Keyboard With Enhanced Display With Hinged Frame (Siemens MKB-5) 3,877.45	3,877.45	54.18
28 46 13 31-0649	EA			6 Amperes Power Supply For MXL (Siemens MPS-6) 1,335.98	1,335.98	81.28
28 46 13 31-0650	EA			220/240 Volt AC Adapter Cable (Siemens CIA-12) 97.72	97.72	13.54
28 46 13 31-0651				MXL/MXLR System Expansion Accessories <small>(28 46 13 31-0606)</small>		
28 46 13 31-0652	EA			MXL Remote Power Supply Module (Siemens PSR-1) 1,643.46	1,643.46	81.28
28 46 13 31-0653	EA			Style 4 Communication Module (Siemens NET-4) 335.58	335.58	27.10
28 46 13 31-0654	EA			Style 7 Communication Module (Siemens NET-7) 614.81	614.81	27.10
28 46 13 31-0655	EA			MXL/MXL-IQ/MXLV Intelligent Control Point, B6 Chip (Siemens ICP-B6) 367.09	367.09	27.10
28 46 13 31-0656				Peripheral Devices <small>(28 46 13 31-0535)</small>		
28 46 13 31-0657				Thermal Detectors <small>(28 46 13 31-0656)</small>		
28 46 13 31-0658	EA			Rate Of Rise And 135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135R)..... 134.52	134.52	40.64
28 46 13 31-0659	EA			Rate Of Rise And 200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200R)..... 134.52	134.52	40.64
28 46 13 31-0660	EA			135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135F)..... 134.52	134.52	40.64
28 46 13 31-0661	EA			200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200F)..... 134.52	134.52	40.64
28 46 13 31-0662	EA			Weatherproof 135 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-135WP) 216.01	216.01	40.64
28 46 13 31-0663	EA			Weatherproof 200 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-200WP) 216.01	216.01	40.64
28 46 13 31-0664	EA			Explosion Proof 190 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-190EP)..... 545.22	545.22	40.64
28 46 13 31-0665				Beam Smoke Detector <small>(28 46 13 31-0656)</small>		
28 46 13 31-0666	EA			Linear Beam Smoke Detector (Siemens PBA-1191) 2,603.99	2,603.99	40.64
28 46 13 31-0667	EA			Base For Linear Beam Smoke Detector (Siemens PBB-1191)..... 296.55	296.55	13.54
28 46 13 31-0668	EA			20cm x 20cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1192) 299.81	299.81	13.54
28 46 13 31-0669	EA			10cm x 10cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1193) 152.05	152.05	13.54
28 46 13 31-0670				Bases For Detectors <small>(28 46 13 31-0656)</small>		
28 46 13 31-0671	EA			Detector Base (Siemens DB-11)..... 43.40	43.40	13.54
28 46 13 31-0672	EA			Universal Base (Siemens DB-3S) 40.14	40.14	13.54
28 46 13 31-0673				Manual Stations <small>(28 46 13 31-0656)</small>		
28 46 13 31-0674	EA			Weatherproof Metal Manual Pull Station With Key (Siemens MSM-K-WP) 324.69	324.69	32.51
28 46 13 31-0675				Addressable Devices <small>(28 46 13 31-0535)</small>		
28 46 13 31-0676				Intelligent Detectors And Devices For Firefinder XLS And FS-250 <small>(28 46 13 31-0675)</small>		
28 46 13 31-0677	EA			Addressable Fireprint Fire Detector (Siemens HFP-11) 268.16	268.16	40.64
28 46 13 31-0678	EA			Addressable Thermal Fire Detector (Siemens HFPT-11) 230.13	230.13	40.64
28 46 13 31-0679	EA			Relay Base For H-Series Intelligent Detectors (Siemens DB-HR) 185.58	185.58	40.64
28 46 13 31-0680	EA			Ceiling Mounted Remote Alarm Indicator (Siemens RL-HC) 121.48	121.48	40.64
28 46 13 31-0681	EA			Wall Mounted Remote Alarm Indicator (Siemens RL-HW) 121.48	121.48	40.64
28 46 13 31-0682	EA			Addressable Single Action Manual Pull Station (Siemens HMS-S) 283.43	283.43	27.10
28 46 13 31-0683	EA			Addressable Double Action Manual Pull Station (Siemens HMS-D) 270.39	270.39	27.10
28 46 13 31-0684	EA			Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-S)..... 212.81	212.81	27.10
28 46 13 31-0685	EA			Dual Input Intelligent Initiating Devices Interface Module (Siemens HTRI-D) 261.70	261.70	27.10
28 46 13 31-0686	EA			Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens HTRI-R) 261.70	261.70	27.10
28 46 13 31-0687	EA			Mini Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-M)..... 196.51	196.51	27.10
28 46 13 31-0688	EA			Line Isolator Module (Siemens HLIM)..... 203.03	203.03	27.10

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0689 EA Remote Convention Zone Module (Siemens HZM)	302.99	27.10
28 46 13 31-0690 EA Intelligent Control Point Module (Siemens HCP)	385.56	27.10
28 46 13 31-0691 EA Handheld Programming And Testing Unit (Siemens DPU)	1,722.04	
28 46 13 31-0692 EA DPU Carrying Case (Siemens DPU-C1)	263.98	
28 46 13 31-0693 EA Label Printer And Carrying Case (Siemens DPU-PRT)	2,948.62	27.10
28 46 13 31-0694 Air Duct Housings And Detectors (28 46 13 31-0675)		
28 46 13 31-0695 EA Air-Duct Housing (Siemens AD2-P)	311.72	21.67
28 46 13 31-0696 EA Air-Duct Housing With Relay (Siemens AD2-XHR)	353.00	21.67
28 46 13 31-0697 EA Weatherproof Enclosure For Duct Housing (Siemens WP-2000)	281.26	27.10
28 46 13 31-0698 EA 6" To 1' Duct Sampling Tube (Siemens ST-10)	37.99	8.13
28 46 13 31-0699 EA >1' To 3' Duct Sampling Tube (Siemens ST-25)	46.66	10.84
28 46 13 31-0700 EA >3' To 5' Duct Sampling Tube (Siemens ST-50)	58.61	13.54
28 46 13 31-0701 EA >5' To 10' Duct Sampling Tube (Siemens ST-100)	68.36	16.26
28 46 13 31-0702 Intelligent Initiating Devices For MXL, MXL-LQ And MXLV (28 46 13 31-0675)		
28 46 13 31-0703 EA Addressable Fireprint Fire Detector (Siemens FP-11)	280.11	40.64
28 46 13 31-0704 EA Addressable Thermal Fire Detector (Siemens FPT-11)	239.91	40.64
28 46 13 31-0705 EA Intelligent Ionization Smoke Detector (Siemens ILI-1)	310.53	40.64
28 46 13 31-0706 EA Addressable Single Action Manual Pull Station (Siemens MSI-10B)	275.83	27.10
28 46 13 31-0707 EA Addressable Double Action Manual Pull Station (Siemens MSI-20B)	305.16	27.10
28 46 13 31-0708 EA Single Input Intelligent Initiating Devices Interface Module (Siemens TRI-S)	279.09	27.10
28 46 13 31-0709 EA Dual Input Intelligent Initiating Devices Interface Module (Siemens TRI-D)	309.51	27.10
28 46 13 31-0710 EA Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens TRI-R)	309.51	27.10
28 46 13 31-0711 Detector Universal Bases (28 46 13 31-0675)		
28 46 13 31-0712 EA Detector Base With Relay (Siemens DB-X11RS)	130.32	13.54
28 46 13 31-0713 EA PE-11 To DB-3 Base Adapter (Siemens DB-ADPT)	65.13	13.54
28 46 13 31-0714 EA Locking Kit (Siemens LK-11)	11.71	
28 46 13 31-0715 EA Detector Base With Relay (Siemens DB-X3RS)	130.32	13.54
28 46 13 31-0716 EA Audible Base For Addressable Fireprint Fire Detector (Siemens ADBX-11)	152.05	13.54
28 46 13 31-0717 EA Retrofit Adapter Box For Audible Bases Ionization Detector Air Duct (Siemens ADB-BOX)	61.87	13.54
28 46 13 31-0718 EA Flush Trim Ring For Bases (Siemens RA-ADB)	29.30	8.13
28 46 13 31-0719 EA Seal For DB-11 (Siemens DB11-SEAL)	14.33	
28 46 13 31-0720 EA Gasket For DB-11 (Siemens DB-SEAL)	15.76	
28 46 13 31-0721 EA Detector Guard Housing (Siemens DGH-11)	192.25	13.54
28 46 13 31-0722 EA Small Detector Base (Siemens DB-11E)	47.74	13.54
28 46 13 31-0723 EA Audible Base For Series 3 (Siemens ADBI-60A)	171.60	13.54
28 46 13 31-0724 EA Base Plug (Siemens DB-11-DP)	11.67	
28 46 13 31-0725 Air Duct Smoke Detectors (28 46 13 31-0675)		
28 46 13 31-0726 EA Intelligent Remote Duct Relay Module (Siemens DA-X3SR)	142.19	27.10
28 46 13 31-0727 EA Weatherproof Enclosure For Duct Housing (Siemens EAD-3)	757.15	27.10
28 46 13 31-0728 Notification Devices (28 46 13 31-0535)		
28 46 13 31-0729 Synchronization Control Devices (28 46 13 31-0728)		
28 46 13 31-0730 EA Dual Synchronization Control Module (Siemens DSC)	212.81	27.10
28 46 13 31-0731 Stand Alone Strobes (28 46 13 31-0728)		
28 46 13 31-0732 EA Wall Mounted Multi-Candela Strobe (Siemens ZR-MC-R)	173.63	40.64
28 46 13 31-0733 EA Wall Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-R)	189.93	40.64
28 46 13 31-0734 EA Ceiling Mounted Multi-Candela Strobe (Siemens ZR-MC-CR)	173.63	40.64
28 46 13 31-0735 EA Ceiling Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-CR)	189.93	40.64
28 46 13 31-0736 EA Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CW)	189.93	40.64
28 46 13 31-0737 EA Ceiling Mounted Multi-Candela Strobe (Siemens ST-MC-CW)	173.63	40.64
28 46 13 31-0738 EA Retrofit Plate Multi-Candela Strobe (Siemens ST-MC-RETRO-R)	201.88	40.64
28 46 13 31-0739 EA Weatherproof Ceiling Mounted Strobe (Siemens ST-75-CR-WP)	193.19	40.64
28 46 13 31-0740 EA Weatherproof Wall Mounted Strobe (Siemens ST-75-R-WP)	193.19	40.64
28 46 13 31-0741 EA Weatherproof Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CR-WP)	207.31	40.64
28 46 13 31-0742 EA Weatherproof Wall Mounted High Multi-Candela Strobe (Siemens ST-HMC-R-WP)	207.31	40.64
28 46 13 31-0743 Horns And Strobes (28 46 13 31-0728)		
28 46 13 31-0744 EA Wall Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-R)	237.74	40.64
28 46 13 31-0745 EA Wall Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-R)	251.86	40.64
28 46 13 31-0746 EA Wall Mounted Horn (Siemens SE-R)	134.52	40.64
28 46 13 31-0747 EA Ceiling Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-CR)	237.74	40.64
28 46 13 31-0748 EA Ceiling Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-CR)	251.86	40.64
28 46 13 31-0749 EA Ceiling Mounted Horn (Siemens SEC-R)	141.04	40.64
28 46 13 31-0750 EA Wall Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-R)	237.74	40.64
28 46 13 31-0751 EA Wall Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-R)	251.86	40.64
28 46 13 31-0752 EA Wall Mounted Low Profile Horn (Siemens SEF-R)	134.52	40.64
28 46 13 31-0753 EA Ceiling Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-CW)	237.74	40.64



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0754 EA Ceiling Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-CW).....	251.86	40.64
28 46 13 31-0755 EA Ceiling Mounted Low Profile Horn (Siemens SEF-CR).....	141.04	40.64
28 46 13 31-0756 EA Mini Horn (Siemens MH-R).....	110.62	40.64
28 46 13 31-0757 EA Indoor/Outdoor Multi Tone Horn (Siemens MTH-R).....	143.21	40.64
28 46 13 31-0758 EA Indoor/Outdoor Multi Tone, Multi-Candela Horn/Strobe (Siemens MTH-MC-R).....	223.61	40.64
28 46 13 31-0759 EA Industrial Tri-Tone Horn (Siemens ASR).....	651.69	40.64
28 46 13 31-0760 EA Wall Mounted Horn (Siemens HS-R).....	143.21	40.64
28 46 13 31-0761 EA Wall Mounted Multi-Candela Horn/Strobe (Siemens HS-MC-R).....	224.70	40.64
28 46 13 31-0762 EA Wall Mounted High Multi-Candela Horn/Strobe (Siemens HS-HMC-R).....	242.08	40.64
28 46 13 31-0763 EA 6" Motor Bell (Siemens MBDC-6).....	164.94	40.64
28 46 13 31-0764 EA 10" Motor Bell (Siemens MBDC-10).....	181.24	40.64
28 46 13 31-0765 Mounting Accessories (28 46 13 31-0728)		
28 46 13 31-0766 EA Concealed Conduit Adapter Plate (Siemens APS-R).....	40.14	13.54
28 46 13 31-0767 EA 4" x 1-1/2" Surface Mounted Back Box (Siemens BBS-R).....	40.14	13.54
28 46 13 31-0768 EA 4" x 2-1/8" Surface Mounted Back Box (Siemens DBBS-R).....	41.22	13.54
28 46 13 31-0769 EA Red Weatherproof Surface Mount Backbox (Siemens MT-SUR-BOX).....	67.30	13.54
28 46 13 31-0770 EA White Weatherproof Surface Mount Backbox (Siemens MT-SUR-BOX-W).....	53.18	13.54
28 46 13 31-0771 EA Surface Mounted Speaker Backbox (Siemens SBBS-R).....	56.44	13.54
28 46 13 31-0772 EA Surface Mounted Speaker Backbox (Siemens SBL2S-R).....	60.78	13.54
28 46 13 31-0773 EA Square Semi-Flush Extension Ring (Siemens SERS-R).....	47.74	13.54
28 46 13 31-0774 EA Semi-Flush Plate (Siemens SFPS-R).....	39.05	13.54
28 46 13 31-0775 EA Square Surface Backbox (Siemens SHBBS-R).....	47.74	13.54
28 46 13 31-0776 EA Horn Adapter Plate (Siemens SHMPS-R).....	45.57	13.54
28 46 13 31-0777 EA Ceiling Speaker Extension Ring (Siemens SPEXT-R).....	40.14	13.54
28 46 13 31-0778 EA Wall Mounted Surface Mounted Speaker Backbox (Siemens SPSB-R).....	53.18	13.54
28 46 13 31-0779 EA Wall Mounted Surface Mounted Speaker/Strobe Backbox (Siemens SPSSB-R).....	56.44	13.54
28 46 13 31-0780 EA Weatherproof Speaker Backbox (Siemens WBBS-R).....	54.26	13.54
28 46 13 31-0781 EA Weatherproof Speaker Backbox With 3/4" Knockout (Siemens WBBS-R-3/4T-3/4B).....	60.78	13.54
28 46 13 31-0782 EA Weatherproof Flush Plate (Siemens WFPAS-R).....	60.78	13.54
28 46 13 31-0783 EA Weatherproof Horn Flush Plate (Siemens WFPS-R).....	60.78	13.54
28 46 13 31-0784 EA Weatherproof Horn Backbox (Siemens WPBBS-R).....	56.44	13.54
28 46 13 31-0785 EA Weatherproof Strobe Backbox (Siemens WPSBBS-R).....	56.44	13.54
28 46 13 31-0786 EA Surface Mounted Weatherproof Backbox Kit (Siemens WPS-KIT).....	40.14	13.54
28 46 13 31-0787 EA Z Series Backbox (Siemens ZBB-R).....	45.57	13.54
28 46 13 31-0788 Door Holders (28 46 13 31-0728)		
28 46 13 31-0789 EA 120 Volt AC Concealed Wiring Fire Door Holder (Siemens SDH-2A).....	361.60	40.64
28 46 13 31-0790 EA 24 Volt DC Concealed Wiring Fire Door Holder (Siemens SDH-2D).....	361.60	40.64
28 46 13 31-0791 Voice Equipment (28 46 13 31-0535)		
28 46 13 31-0792 Voicecom (28 46 13 31-0791)		
28 46 13 31-0793 EA Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone And Enclosure With Deadfront And Space For Five Modules (Siemens VOICECOM).....	5,554.69	541.87
28 46 13 31-0794 EA Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, Two 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone, Enclosure With Deadfront And Space For 11 Modules, Auxiliary Power Supply, Four PS-AUX Strobe Zone Cables And One AM-25-50 Speaker Zone Cables (Siemens VOICECOM-L).....	8,868.51	541.87
28 46 13 31-0795 Johnson Controls Fire Alarm (28 46 13 31)		
28 46 13 31-0796 EA Intelligent Addressable ION Detector; With FlashScan. (Johnson Controls, Inc. #1951J).....	207.96	40.64
28 46 13 31-0797 EA Intelligent Addressable Photo Detector; With FlashScan. (Johnson Controls, Inc. #2951J).....	205.60	40.64
28 46 13 31-0798 EA Intelligent Addressable Photo/Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TJ).....	259.56	40.64
28 46 13 31-0799 EA Acclimate™ Intelligent Photo Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TMJ).....	258.81	40.64
28 46 13 31-0800 EA 411UD, 4 Channel Dual. (Johnson Controls, Inc. #411UD).....	727.80	54.18
28 46 13 31-0801 EA Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951HJ).....	195.93	40.64
28 46 13 31-0802 EA Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951J).....	173.60	40.64
28 46 13 31-0803 EA Intelligent Addressable Rate-of-Rise Thermal Detector; With FlashScan. (Johnson Controls, Inc. #5951RJ).....	168.87	40.64
28 46 13 31-0804 EA Intelligent Addressable Laser Detector; Low Profile, Use With IFC Series Panels Only. (Johnson Controls, Inc. #7351J).....	532.77	40.64
28 46 13 31-0805 EA 100 Watts Audio Amplifier At 70.7 VRMS With Built-in Tone Generator, 120 Volt AC (Johnson Controls, Inc. #AA-100).....	2,624.01	81.28
28 46 13 31-0806 EA AUDIO Amplifier, 100 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-100E).....	2,541.70	81.28
28 46 13 31-0807 EA 120 Watts Audio Amplifier At 25 VRMS With Built-in Tone Generator, 120 Voltage AC (Johnson Controls, Inc. #AA-120).....	2,586.11	81.28
28 46 13 31-0808 EA AUDIO Amplifier, 120 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-120E).....	2,475.24	81.28
28 46 13 31-0809 EA 30 Watts Audio Amplifier At 25 VRMS, 120 Voltage AC (Johnson Controls, Inc. #AA-30).....	1,194.31	81.28
28 46 13 31-0810 EA AUDIO Amplifier, 30 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-30E).....	1,194.31	81.28
28 46 13 31-0811 EA Annunciator Control Module With; 16 Red Alarm LED's, 16 Yellow Trouble LED's, And 16 Control Switches, On-line, System Trouble Led, And Local Sounder, Local Acknowledge And Lamp Test Switch, Supports 1, 2 Or 3 AEM-16AT Expander Modules. (Johnson Controls, Inc. #ACM-16AT).....	1,210.53	27.10
28 46 13 31-0812 EA IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED, Trouble LED And Switch Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) By Point To Be Red, Green Or Yellow And The Trouble LED Is Always Yellow. Expandable With One, Two Or Three AEM-24AT's. (Johnson Controls, Inc. #ACM-24AT).....	1,259.40	27.10

28 Electronic Safety and Security

28 40 Life Safety

28 46 Fire Detection and Alarm



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46	13 31-0813	EA	Annunciator Control Module; Includes 32 Red Alarm LED's, System Trouble LED And On-line LED, Local Acknowledge, Lamp Test Switch, And Local Piezo Sounder, Supports One AEM-32A Expander Module. (Johnson Controls, Inc. #ACM-32A)	923.10	27.10
28 46	13 31-0814	EA	IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) In Groups Of 24 To Be Red, Green Or Yellow. Expandable To 96 Points With One AEM-48A. (Johnson Controls, Inc. #ACM-48A)	923.10	27.10
28 46	13 31-0815	EA	Annunciator, Relay, Form C. (Johnson Controls, Inc. #ACM-8R)	648.98	27.10
28 46	13 31-0816	EA	Charger Power Supply - 6 Or 10 Amperes; Mounts In CAB-PS1, CAB-3/4, EQ Cabx, BB-25, Or CHS-PS1; Comes With The PK-PPS Programming Utility. Windows® PC And USB Cable Required For Programming. (Johnson Controls, Inc. #ACPS-610)	2,102.07	54.18
28 46	13 31-0817	EA	Annunciator Expander Module With: 16 Red Alarm LED's, 16 Yellow Trouble LED's, 16 Control Switches, Cable For Connection To The ACM-16AT Master. (Johnson Controls, Inc. #AEM-16AT)	923.10	27.10
28 46	13 31-0818	EA	Annunciator Expander Module; 24 Alarm And Trouble LEDs, Expands The ACM-24AT To 48, 72 Or 96 Points. (Johnson Controls, Inc. #AEM-24AT)	959.84	27.10
28 46	13 31-0819	EA	Annunciator Expander Module With: 32 Red Alarm LED's, Cable For Connection To The ACM-32A Master. (Johnson Controls, Inc. #AEM-32A)	826.72	27.10
28 46	13 31-0820	EA	Annunciator Expander Module; 48 Alarm LEDs, Expands The ACM-48A To 96 Points. (Johnson Controls, Inc. #AEM-48A)	826.72	27.10
28 46	13 31-0821	EA	Back Box, Flush Or Surface Mount; Requires A Door And Telephone Chassis. (Johnson Controls, Inc. #AFAWS-BX)	133.50	24.38
28 46	13 31-0822	EA	Receiver, Multimode Fiber. (Johnson Controls, Inc. #AFL-RM)	1,261.41	54.18
28 46	13 31-0823	EA	Receiver, Singlemode Fiber. (Johnson Controls, Inc. #AFL-RS)	2,766.63	54.18
28 46	13 31-0824	EA	Transmit, Multimode Fiber. (Johnson Controls, Inc. #AFL-TM)	1,261.41	54.18
28 46	13 31-0825	EA	Transmit, Singlemode Fiber. (Johnson Controls, Inc. #AFL-TS)	2,766.63	54.18
28 46	13 31-0826	EA	Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B110LP)	47.03	13.54
28 46	13 31-0827	EA	Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224BI)	132.78	13.54
28 46	13 31-0828	EA	Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224RB)	125.03	13.54
28 46	13 31-0829	EA	Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B401)	50.35	13.54
28 46	13 31-0830	EA	Intelligent Detector Base, Without Flange. (Johnson Controls, Inc. #B501J)	44.84	13.54
28 46	13 31-0831	EA	Battery Cabinet, Lockable. (Johnson Controls, Inc. #BB-100)	915.90	54.18
28 46	13 31-0832	EA	Projected Beam Smoke Detector, Single-ended Reflected Type, Includes Trouble Relay, Transmitter/Receiver In One Unit. (Johnson Controls, Inc. #Beam1224)	2,156.25	81.28
28 46	13 31-0833	EA	Same As Beam1224 With Built-in Sensitivity Test Filter. (Johnson Controls, Inc. #Beam1224S)	2,280.86	81.28
28 46	13 31-0834	EA	Mounting Kit, Long RG, Beam. (Johnson Controls, Inc. #BeamLRK)	251.39	13.54
28 46	13 31-0835	EA	Mounting Kit, Beam Detect. (Johnson Controls, Inc. #BeamMMK)	168.33	13.54
28 46	13 31-0836	EA	Digital Audio Amplifier, 50 Watts, 25 VRMS (Johnson Controls, Inc. #DAA-5025)	2,158.08	81.28
28 46	13 31-0837	EA	Digital Audio Amplifier, 50 Watts, 25 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5025F)	1,990.10	81.28
28 46	13 31-0838	EA	Digital Audio Amplifier, 50 Watts, 25 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5025SF)	1,990.10	81.28
28 46	13 31-0839	EA	Digital Audio Amplifier, 50 Watts, 70 VRMS (Johnson Controls, Inc. #DAA-5070)	2,339.53	81.28
28 46	13 31-0840	EA	Amplifier, Digital Audio. (Johnson Controls, Inc. #DAA-5070E)	2,156.25	81.28
28 46	13 31-0841	EA	Digital Audio Amplifier, 50 Watts, 70 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5070F)	2,156.25	81.28
28 46	13 31-0842	EA	Digital Audio Amplifier, 50 Watts, 70 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5070SF)	2,156.25	81.28
28 46	13 31-0843	EA	Digital Audio Amplifier, 75 Watts, 25 VRMS (Johnson Controls, Inc. #DAA-7525)	2,583.46	81.28
28 46	13 31-0844	EA	Digital Audio Amplifier, 75 Watts, 25 VRMS, Multi Fiber (Johnson Controls, Inc. #DAA-7525F)	2,583.46	81.28
28 46	13 31-0845	EA	Digital Audio Amplifier, 75 Watts, 25 VRMS, Single Fiber (Johnson Controls, Inc. #DAA-7525SF)	2,583.46	81.28
28 46	13 31-0846	EA	Innovairflex Intelligent. (Johnson Controls, Inc. #DNR)	263.63	27.10
28 46	13 31-0847	EA	Innovairflex Duct Detect. (Johnson Controls, Inc. #DNRW)	408.90	27.10
28 46	13 31-0848	EA	Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1)	34.91	10.84
28 46	13 31-0849	EA	Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1.5)	38.33	10.84
28 46	13 31-0850	EA	Innovairflex Sample Tube. (Johnson Controls, Inc. #DST10)	96.41	16.26
28 46	13 31-0851	EA	Innovairflex Sample Tube. (Johnson Controls, Inc. #DST3)	45.98	10.84
28 46	13 31-0852	EA	Innovairflex Sample Tube. (Johnson Controls, Inc. #DST5)	56.75	13.54
28 46	13 31-0853	EA	Digital Voice Command, Analog Output. (Johnson Controls, Inc. #DVC-AO)	411.37	27.10
28 46	13 31-0854	EA	Digital Voice Command, Keypad. (Johnson Controls, Inc. #DVC-KD)	681.58	54.18
28 46	13 31-0855	EA	Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or Amperes-24; B Size, Black. (Johnson Controls, Inc. #EQBB-B4)	556.59	81.28
28 46	13 31-0856	EA	Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or Amperes-24; C Size, Black. (Johnson Controls, Inc. #EQBB-C4)	780.32	81.28
28 46	13 31-0857	EA	Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or AMPs-24; D Size, Black. (Johnson Controls, Inc. #EQBB-D4)	855.08	81.28
28 46	13 31-0858	EA	Equipment Cabinet Door; B Size Black. (Johnson Controls, Inc. #EQDR-B4)	460.77	10.84
28 46	13 31-0859	EA	Equipment Cabinet Door; C Size Black. (Johnson Controls, Inc. #EQDR-C4)	696.18	10.84
28 46	13 31-0860	EA	Equipment Cabinet Door; D Size Black. (Johnson Controls, Inc. #EQDR-D4)	765.42	10.84
28 46	13 31-0861	EA	6.0 Amperes, 120 Volt AC Remote Charger Power Supply (Johnson Controls, Inc. #FCPS-24S6) Note: Includes Main Printed Circuit Board, Transformers And Installation Instructions	903.17	108.38
28 46	13 31-0862	EA	8 Amperes, 120 Volt AC Remote Charger Power Supply (Johnson Controls, Inc. #FCPS-24S8) Note: Includes Main Printed Circuit Board, Transformers And Installation Instructions	1,189.77	108.38
28 46	13 31-0863	EA	80 Character Display Annunciator. "Security Keypad" Mechanical Design. For Use With The IFC-320, JCPU2-640, JCPU-640 And IFC-400/300 (Rev 3.62+) Only. (Johnson Controls, Inc. #FDU-80G)	1,134.50	81.28
28 46	13 31-0864	EA	Fireman's Telephone Hand Set. (Johnson Controls, Inc. #FHS)	209.86	13.54
28 46	13 31-0865	EA	Fire Phone Storage Cabinet, Recessed, Holds 6 Phones. (Johnson Controls, Inc. #FHSC-R)	597.46	27.10
28 46	13 31-0866	EA	Door Holder, Magnetic, Floor. (Johnson Controls, Inc. #FM980)	308.74	40.64
28 46	13 31-0867	EA	Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM996)	249.82	40.64
28 46	13 31-0868	EA	Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM998)	263.23	40.64
28 46	13 31-0869	EA	Addressable Beam Detector. (Johnson Controls, Inc. #FSB-200)	2,204.54	54.18
28 46	13 31-0870	EA	Addressable Beam Detector With Remote Test Feature. (Johnson Controls, Inc. #FSB-200S)	2,696.24	54.18
28 46	13 31-0871	EA	Intelligent Addressable HARSH (Hostile Area Smoke Head) Detector; Photo, Requires B501B-FTXJ Base. (Johnson Controls, Inc. #FTX-P2J)	811.67	27.10
28 46	13 31-0872	EA	IFC-320 Intelligent Fire Alarm Panel; Single Printed Circuit Board With One SLC Loop (318 Devices), Back-lit, 80 Character Display, System And Programming Keypad And 6.0 Amperes Power Supply, 120 Volt AC, (Johnson Controls, Inc. #IFC-320) Note: Includes Door, Dress Panel And Back Box, Black	5,456.29	433.49
28 46	13 31-0873	EA	Upgrade Kit, ORG BLD, 640. (Johnson Controls, Inc. #IFC-640UG)	2,720.11	54.18



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0874	EA	Workstation Only Workstation GUI Software And Hardware Package. (Johnson Controls, Inc. #IFI)	35,829.12	650.25
28 46 13 31-0875	EA	Workstation With NFN Fiber PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-F) Fiber Version. (Johnson Controls, Inc. #IFI-F)	39,151.92	650.25
28 46 13 31-0876	EA	Workstation With Echelon Wire PC Card Workstation GUI Software And Hardware Package For Building Systems Integration, WSSUP Workstation Supervisor. Includes Echelon® Gateway (ECH-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-IP).....	44,136.15	650.25
28 46 13 31-0877	EA	Workstation With NFN Wire PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-W).....	39,151.92	650.25
28 46 13 31-0878	EA	Annunciator Flush Box. Mounts One Annunciator Module. (Johnson Controls, Inc. #JABF-1B)	261.79	16.26
28 46 13 31-0879	EA	Annunciator Flush Box. One Module. Attractive Glass Door And Key Lock. (Johnson Controls, Inc. #JABF-1DB).....	295.02	16.26
28 46 13 31-0880	EA	Annunciator Flush Box. Mounts Two Annunciator Modules. (Johnson Controls, Inc. #JABF-2B)	321.60	16.26
28 46 13 31-0881	EA	Annunciator Flush Box. Mounts Four Annunciator Modules. (Johnson Controls, Inc. #JABF-4B)	604.04	16.26
28 46 13 31-0882	EA	Annunciator Surface Box. Deep With Trim Cover. (Johnson Controls, Inc. #JABS-1TB)	194.45	10.84
28 46 13 31-0883	EA	Surface (or Semi-flush) Mount Backbox. Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Black. (Johnson Controls, Inc. #JABS-2D).....	301.86	24.38
28 46 13 31-0884	EA	Surface (or Semi-flush) Mount Backbox. Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Red. (Johnson Controls, Inc. #JABS-2DR).....	320.91	24.38
28 46 13 31-0885	EA	Surface (or Semi-flush) Mount INA, ACS, Or SCS Backbox, Black. (Johnson Controls, Inc. #JABS-4D)	593.70	24.38
28 46 13 31-0886	EA	Audio Command Door For CAB-B4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-B4).....	594.87	10.84
28 46 13 31-0887	EA	Audio Command Door For CAB-C4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-C4).....	802.55	10.84
28 46 13 31-0888	EA	Audio Command Door For CAB-D4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-D4).....	993.61	10.84
28 46 13 31-0889	EA	Addressable Pull Station; With FlashScan. (Johnson Controls, Inc. #JBG-12LX)	274.60	27.10
28 46 13 31-0890	EA	Battery Dress Panel For CAB-4 Series; For Use With The JCPU2-3030, JCPU2-640, JNCA-2, And DVC Systems. (Johnson Controls, Inc. #JBP2-4).....	128.52	10.84
28 46 13 31-0891	EA	JCPU2-3030 CPU With 640-character Display; Required For Single Panel (One CPU2-3030) Systems. Includes: CPU, 640-Character Backlit LCD Display, QWERTY Programming And Control Keypad, Installation, Programming And Operating Manuals. Supports One To 10 Signaling Line Circuits (Up To Five LCM-320 And Five LEM-320). Order One Per System Or As Necessary (Up To 103 Network Nodes) For A Networked System. Requires Top Row Of A Cabinet. (Johnson Controls, Inc. #JCPU2-3030D)	5,443.72	433.49
28 46 13 31-0892	EA	Central Processing Unit For The JCPU2-640 With Integral 120 Volt AC Power Supply (Johnson Controls, Inc. #JCPU2-640).....	3,927.55	325.12
		Note: Includes CHS2-M2 Chassis		
28 46 13 31-0893	EA	Main Board, CPU, IFC3030, DI. (Johnson Controls, Inc. #JCPU-3030D).....	7,093.17	433.49
28 46 13 31-0894	EA	Main Board, CPU, IFC640. (Johnson Controls, Inc. #JCPU-640).....	6,830.81	325.12
28 46 13 31-0895	EA	Main Board, CPU, IFC640, EUR. (Johnson Controls, Inc. #JCPU-640E).....	4,903.93	325.12
28 46 13 31-0896	EA	Digital Voice Command, Extended Memory. (Johnson Controls, Inc. #JDVC-EM).....	2,711.80	40.64
28 46 13 31-0897	EA	Digital Voice Command, Extended Memory, Multi-Fiber. (Johnson Controls, Inc. #JDVC-EMF).....	2,739.53	40.64
28 46 13 31-0898	EA	Digital Voice Command, Extended Memory, Single-Fiber. (Johnson Controls, Inc. #JDVC-EMSF).....	2,739.53	40.64
28 46 13 31-0899	EA	Annunciator, Network Control. (Johnson Controls, Inc. #JNCA).....	3,240.98	54.18
28 46 13 31-0900	EA	Network Control Annunciator-2, 640-characters; On Single Panel (one JCPU2-640) JCPU2-640 Systems, The JNCA-2 Can Be The Primary Display For The Panel And Connects Directly To The JCPU2-640. On Network Systems (Two Or More JCPU2-640's), One Network Display (Either JNCA-2 Or IFW) Is Required For Every System And Each JNCA-2 Connects To And Requires An NCM Network Control Module. Mounts In A Row Of FACP Node Or In Two Annunciator Module Positions. (Johnson Controls, Inc. #JNCA-2).....	2,745.03	54.18
		Note: Mounting Includes: NCA/640-2-Kit (directly Mounting To The CHS2-M2), CA-2, ADP-4B, Or In An Annunciator Box, Such As The ABS-2DB (requires The CHS-2D).		
28 46 13 31-0901	EA	Mass Notification Voice Paging; Requires JNOTIFY-PAA Hardware Package (Sold Separately). (Johnson Controls, Inc. #JNOTIFY-IP).....	2,311.67	325.12
28 46 13 31-0902	EA	160 Character Display Annunciator; For Use With JCPU-3030 And JCPU2-3030. (Johnson Controls, Inc. #LCD-160).....	1,946.93	54.18
28 46 13 31-0903	EA	80 Character LCD Annunciator. Mounts In ABS-1T, ABF-1D, ABF-2D, Or Flush Back Box. (Johnson Controls, Inc. #LCD-80).....	1,599.63	54.18
28 46 13 31-0904	EA	Loop Control Module. Each LCM May Be Expanded To Two Loops By Adding A LEM-320. IFC2- 3030 And IFC-3030 Only. (Johnson Controls, Inc. #LCM-320).....	2,581.20	54.18
28 46 13 31-0905	EA	Lamp Driver Annunciator Control Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-32)	799.64	13.54
28 46 13 31-0906	EA	Cable 24": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL24)	255.91	10.84
28 46 13 31-0907	EA	Cable 48": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL48).....	315.72	10.84
28 46 13 31-0908	EA	Lamp Driver Annunciator Expander Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-E32)	643.50	13.54
28 46 13 31-0909	EA	Relay Module. 32 Form-A Contacts. Connects To LDM-32 Or LDM-E32. (Johnson Controls, Inc. #LDM-R32).....	1,183.45	13.54
28 46 13 31-0910	EA	Loop Expander Module. Mounts As Daughter Board To LCM-320 To Provide Even Numbered SLC Loops. (Johnson Controls, Inc. #LEM-320).....	2,146.67	13.54
28 46 13 31-0911	EA	Addressable Control Module With FlashScan; Configured For One Class A Or Class B NAC. (Johnson Controls, Inc. #M300CJ)	165.64	13.54
28 46 13 31-0912	EA	Addressable Dual Monitor Module; With FlashScan, Two Class B Circuits. (Johnson Controls, Inc. #M300DJ).....	265.65	13.54
28 46 13 31-0913	EA	Addressable Monitor Module; With FlashScan; Supervises Either A Class A Or Class B Circuit Of N.D. Dry-contact Input Devices. (Johnson Controls, Inc. #M300MJ).....	129.41	13.54
28 46 13 31-0914	EA	Addressable Relay Module With FlashScan; Provides Two Form-C Dry Contacts That Switch Together. (Johnson Controls, Inc. #M300RJ).....	182.76	13.54
28 46 13 31-0915	EA	Addressable Mini Module With FlashScan; Supervises A Class B Circuit Of N.D. Dry-contact Devices. (Johnson Controls, Inc. #M301MJ)	143.42	13.54
28 46 13 31-0916	EA	Addressable 2-Wire Detector Monitor Module; With FlashScan. (Johnson Controls, Inc. #M302MJ).....	235.69	13.54
28 46 13 31-0917	EA	Addressable Firephone Control Module With FlashScan. (Johnson Controls, Inc. #M500FPJ).....	269.20	13.54
28 46 13 31-0918	EA	SLC Loop Isolator Module; Isolates Against Short Circuits On The SLC. (Johnson Controls, Inc. #M500XJ).....	150.55	13.54
28 46 13 31-0919	EA	Network INTFC, P2P, Wire. (Johnson Controls, Inc. #MIB-W).....	2,261.04	40.64
28 46 13 31-0920	EA	Network Adapter, Fiber. (Johnson Controls, Inc. #NAM-232F).....	2,012.96	27.10
28 46 13 31-0921	EA	Network Adapter, Wire. (Johnson Controls, Inc. #NAM-232W).....	1,860.12	27.10
28 46 13 31-0922	EA	Plate, Retrofit, NCA-2. (Johnson Controls, Inc. #NCA-2RETRO)	68.99	5.42
28 46 13 31-0923	EA	Network Control Module - Multi Mode Fiber; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2-640/3030, JNCA-2, DVC, Etc). (Johnson Controls, Inc. #NCM-F).....	1,626.55	27.10
28 46 13 31-0924	EA	Network Control Module - Wire; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2-640/3030, JNCA-2, DVC, Etc). (Johnson Controls, Inc. #NCM-W)	1,548.57	27.10
28 46 13 31-0925	EA	NFV-25/50. (Johnson Controls, Inc. #NFV-25/50)	3,956.77	54.18

28 Electronic Safety and Security

28 40 Life Safety

28 46 Fire Detection and Alarm



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46	13 31-0926	EA	NU-RPT101-1U RS485. (Johnson Controls, Inc. #NU-RPT101-1U).....	1,096.57	27.10
28 46	13 31-0927	EA	Key Switch, Remote Control. (Johnson Controls, Inc. #RKS-S).....	299.11	10.84
28 46	13 31-0928	EA	Microphone Assembly For Mounting To An ADP-4 Dress Panel. (Johnson Controls, Inc. #RM-1).....	690.51	27.10
28 46	13 31-0929	EA	Microphone Assembly For Mounting In An CAB-RM Cabinet. (Johnson Controls, Inc. #RM-1SA).....	690.51	27.10
28 46	13 31-0930	EA	Remote Page Jack. Allows Remote All-Call Paging. (Johnson Controls, Inc. #RPJ-1).....	184.50	10.84
28 46	13 31-0931	EA	SA-WBB, Weatherproof. (Johnson Controls, Inc. #SA-WBB).....	48.41	5.42
28 46	13 31-0932	EA	SA-WBBC, Weatherproof. (Johnson Controls, Inc. #SA-WBBC).....	48.41	5.42
28 46	13 31-0933	EA	Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCR).....	180.98	40.64
28 46	13 31-0934	EA	Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCRH).....	204.23	40.64
28 46	13 31-0935	EA	Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SCRHK).....	241.65	46.06
28 46	13 31-0936	EA	Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SCRK).....	238.31	46.06
28 46	13 31-0937	EA	Smoke Control Master; Includes Eight On/off/auto Switches. Supports One SCE-8. Includes Manual, Slide-in Labels. Mounts In ADP-4 Or ABS-4D. (Johnson Controls, Inc. #SCS-8).....	1,643.91	108.38
28 46	13 31-0938	EA	Smoke Control Lamp Driver. Outputs For 8 On/off/auto Switches With LED's. Intended For Custom Built Smoke Control Stations. Support One SCE-8L. (Johnson Controls, Inc. #SCS-8L).....	1,278.38	108.38
28 46	13 31-0939	EA	Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SCW).....	180.98	40.64
28 46	13 31-0940	EA	Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCWH).....	204.23	40.64
28 46	13 31-0941	EA	Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SCW-P).....	180.98	40.64
28 46	13 31-0942	EA	Mounting Kit, M300/M500. (Johnson Controls, Inc. #SMB500).....	32.22	10.84
28 46	13 31-0943	EA	SMK-MOV Kit-LON. (Johnson Controls, Inc. #SMK-MOVKit-LON).....	37.51	5.42
28 46	13 31-0944	EA	SMK-MOV Kit-MSTP. (Johnson Controls, Inc. #SMK-MOVKit-MSTP).....	42.84	5.42
28 46	13 31-0945	EA	SPBBS, Wall, Back Box. (Johnson Controls, Inc. #SPBBS).....	37.55	5.42
28 46	13 31-0946	EA	Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SR).....	164.95	40.64
28 46	13 31-0947	EA	Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SRH).....	204.23	40.64
28 46	13 31-0948	EA	Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SRHK).....	241.65	46.06
28 46	13 31-0949	EA	Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SRH-P).....	204.23	40.64
28 46	13 31-0950	EA	Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SRK).....	238.31	46.06
28 46	13 31-0951	EA	Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SR-P).....	180.98	40.64
28 46	13 31-0952	EA	Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SW).....	180.98	40.64
28 46	13 31-0953	EA	Strobe, HI, 12/24 Volt DC, White (Johnson Controls, Inc. #SWH).....	204.23	40.64
28 46	13 31-0954	EA	Strobe, HI, 12/24 Volt DC, White (Johnson Controls, Inc. #SWH-P).....	204.23	40.64
28 46	13 31-0955	EA	Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SW-P).....	180.98	40.64
28 46	13 31-0956	EA	Firefighter's Telephone Handset Only. (Johnson Controls, Inc. #TELH-1).....	258.02	13.54
28 46	13 31-0957	EA	Universal Digital Alarm Communicator Transmitter. (Johnson Controls, Inc. #UDACT).....	1,139.68	54.18
28 46	13 31-0958	EA	Speaker Strobe, Ceiling, White, 2 W (MAX), Dual Voltage, Multi (Johnson Controls, Inc. #SPSCW).....	269.38	54.18
28 46	13 31-0959	EA	Speaker, White, Ceiling Mount. (Johnson Controls, Inc. #SPCW).....	114.48	27.10
28 46	13 31-0960	EA	Speaker, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPCWV).....	114.48	27.10
28 46	13 31-0961	EA	Speaker Strobe, Red, Ceiling Mount, Standard Candela. (Johnson Controls, Inc. #SPSCR).....	215.18	27.10
28 46	13 31-0962	EA	Speaker Strobe, Red, Ceiling Mount, High Candela. (Johnson Controls, Inc. #SPSCRH).....	234.44	27.10
28 46	13 31-0963	EA	Speaker Strobe, Red, Ceiling Mount, High Candela, High Db. (Johnson Controls, Inc. #SPSCRVH).....	234.44	27.10
28 46	13 31-0964	EA	Speaker Strobe, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPSCWV).....	207.52	27.10
28 46	13 31-0965	EA	Speaker Strobe Wall, WP, White, 2W (MAX), Dual Volt, Multi D (Johnson Controls, Inc. #SPSWK).....	284.64	27.10
28 46	13 31-0966	EA	Speaker Strobe, Wall, White, Standard Candela. (Johnson Controls, Inc. #SPSW).....	215.18	27.10
28 46	13 31-0967	EA	Wall Mount Speaker, White. (Johnson Controls, Inc. #SPW).....	114.48	27.10
28 46	13 31-0968	EA	Wall Mount Speaker, Red. (Johnson Controls, Inc. #SPR).....	114.48	27.10
28 46	13 31-0969	EA	Speaker Strobe, Wall, White, High Cd. (Johnson Controls, Inc. #SPSWH).....	234.44	27.10
28 46	13 31-0970	EA	Speaker Strobe, Wall, Red, High Cd. (Johnson Controls, Inc. #SPSR).....	215.18	27.10
28 46	13 31-0971	EA	Speaker Strobe, Wall, Red, High Db, High Candela. (Johnson Controls, Inc. #SPSRV).....	215.18	27.10
28 46	13 31-0972		Honeywell Fire Alarm <small>(28 46 13 31)</small>		
28 46	13 31-0973		Notifier Fire Alarm <small>(28 46 13 31-0972)</small>		
28 46	13 31-0974		Fire Alarm Control Panel And Accessories <small>(28 46 13 31-0973)</small>		
28 46	13 31-0975	EA	NFS2-3030 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-3030D).....	5,342.72	541.87
28 46	13 31-0976	EA	NFS2-640 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-640).....	4,422.28	541.87
28 46	13 31-0977	EA	Central Processing Unit for NFS2-640 With Integral 240 Volt Power Supply Includes Chassis (Notifier CPU2-640E).....	3,704.37	541.87
28 46	13 31-0978	EA	Black, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320).....	5,331.90	541.87
28 46	13 31-0979	EA	Supports Installation Of Optional ACM-Series Annunciator In Same Cabinet, Black, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320C).....	5,182.00	541.87
28 46	13 31-0980	EA	Black, 240 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320E).....	5,051.83	541.87
28 46	13 31-0981	EA	Red, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320R).....	4,927.53	541.87
28 46	13 31-0982	EA	Two-Tone Sequential Module (Notifier 2TTM).....	327.25	27.10
28 46	13 31-0983	EA	5', Not Low Loss, Antenna Cable (Notifier 7626-5C).....	82.29	5.42
28 46	13 31-0984	EA	25', Low Loss, Antenna Cable (Notifier 7626-25HC).....	157.71	10.84
28 46	13 31-0985	EA	50', Low Loss, Antenna Cable (Notifier 7626-50HC).....	239.51	16.26
28 46	13 31-0986	EA	IPGSM-COM, IPGSM-COMa Handheld Programmer (Notifier 7720P).....	379.75	
28 46	13 31-0987	EA	RJ45-DB9F Serial Programming Cable (Notifier ALMSC-119).....	71.96	
28 46	13 31-0988	EA	120 Volt AC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYS).....	4,829.65	541.87
28 46	13 31-0989	EA	240 Volt AC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYS).....	4,877.61	541.87
28 46	13 31-0990	EA	3 dB Gain External/Remote Antenna (Notifier GSM-ANT3dB).....	203.65	5.42
28 46	13 31-0991	EA	Plug In Transformer Box For IPGSM Communicator (Notifier HPTCOVER).....	62.71	5.42
28 46	13 31-0992	EA	Mounting Bracket Kit For SFB-5UD, SFB-10UD, NFW2-100 And NFW-50 (Notifier IPBRKT).....	88.96	10.84
28 46	13 31-0993	EA	Chassis To Mount IP Communicator In CHSA Series Chassis (Notifier IPCHSKIT).....	87.78	13.54
28 46	13 31-0994	EA	IP Communicator (Notifier IPDACT-2).....	661.00	27.10
28 46	13 31-0995	EA	IP Communicator With Upload/Download Capability (Notifier IPDACT-2UD).....	766.70	27.10
28 46	13 31-0996	EA	Red, IP Communicator External Mounting Enclosure (Notifier IPENC).....	179.46	27.10
28 46	13 31-0997	EA	Black, IP Communicator External Mounting Enclosure (Notifier IPENC-B).....	178.97	27.10
			Note: Includes IPBRKT		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46	13 31-0998	EA	Dual 8TPC To Single 8TPC "Y" Splitter With Two 9" Cables For Combining Panel Phone Jacks To One IPDACT Input (Notifier IPSPLT)	45.84	10.84
28 46	13 31-0999	EA	Loop Control Module (Notifier LCM-320)	1,924.01	54.18
28 46	13 31-1000	EA	Loop Expander Module (Notifier LEM-320).....	1,515.81	54.18
28 46	13 31-1001	EA	Keyboard Display Module For CPU2-640 (Notifier KDM-R2).....	1,460.78	54.18
28 46	13 31-1002	EA	7" DACT Phone Cord (Notifier MCBL-7)	22.29	
28 46	13 31-1003	EA	Backbox For UDACT, With Viewing Window And Optional Relay Mount (Notifier UBS-1)	190.06	13.54
28 46	13 31-1004	EA	Red, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1R)	217.14	27.10
28 46	13 31-1005	EA	Black, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1B)	217.14	27.10
28 46	13 31-1006	EA	Universal Digital Alarm Communicator Transmitter (Notifier UDACT-2)	574.31	27.10
28 46	13 31-1007	EA	Universal Zone Coder (Notifier UZC-256).....	794.71	27.10
28 46	13 31-1008	EA	Hardware Kit To Connect UZC-256 To A PC (Notifier UZC-HI)..... Note: Includes null modem cable, AC power adapter, and 9-pin to 25-pin converter.	246.66	
28 46	13 31-1009	EA	Programming Software For ONYX Series Products, DVC And Associated Amplifiers, DVC-RPU And UDACT-2 (Notifier VERIFIRE-TCD).....	840.42	
28 46	13 31-1010	EA	ONYX Series Verifire Tools Upgrade (Notifier VERIFIREUG-TCD).....	528.58	
28 46	13 31-1011	EA	Central Station Receiver For Fire And Security (Notifier VISORALARM-PLUS).....	3,478.02	16.26
28 46 13 31-1012 ONYX Cabinets <small>(28 46 13 31-0973)</small>					
28 46	13 31-1013	EA	Red, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4R)	577.31	13.54
28 46	13 31-1014	EA	Red, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4R)	775.20	13.54
28 46	13 31-1015	EA	Red, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4R)	958.10	13.54
28 46	13 31-1016	EA	Battery Dress Plate For NFS-640 And NFS-3030 (Notifier BP-4).....	113.75	16.26
28 46	13 31-1017	EA	Chassis Bridge (Notifier CB-1).....	103.20	13.54
28 46	13 31-1018	EA	Four Position Chassis (Notifier CHS-4)	172.44	13.54
28 46	13 31-1019	EA	Low Profile 1st Row Chassis Assembly For CPU-640 / CPU-640E (Notifier CHS-M2)	196.16	27.10
28 46	13 31-1020	EA	Black, Dress Panel Blank, Covers Unused Cabinet Row(s) (Notifier DP-1B)	100.53	16.26
28 46	13 31-1021	EA	Dress Plate For Top Row With CPU2-3030D (Notifier DP-DISP).....	127.20	16.26
28 46	13 31-1022	EA	One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4)	362.20	27.10
28 46	13 31-1023	EA	One Tier, "A" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-A4B)	231.05	27.10
28 46	13 31-1024	EA	Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4)	459.08	40.64
28 46	13 31-1025	EA	Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4B)	284.62	40.64
28 46	13 31-1026	EA	Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4)	684.71	54.18
28 46	13 31-1027	EA	Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4B)	418.81	54.18
28 46	13 31-1028	EA	Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4)	830.91	67.74
28 46	13 31-1029	EA	Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4B)	486.79	67.74
28 46	13 31-1030	EA	Black, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4)	271.78	13.54
28 46	13 31-1031	EA	Black, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4B).....	187.61	13.54
28 46	13 31-1032	EA	Red, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4BR)	187.61	13.54
28 46	13 31-1033	EA	Red, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4R).....	276.68	13.54
28 46	13 31-1034	EA	Red, One Tier, "A" Size Blank Door Assembly, Lock And Keys (Notifier DR-A4BR).....	211.10	13.54
28 46	13 31-1035	EA	Red, One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4R)	350.08	13.54
28 46	13 31-1036	EA	Red, Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4BR)	239.98	13.54
28 46	13 31-1037	EA	Red, Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4R)	416.64	13.54
28 46	13 31-1038	EA	Red, Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4BR)	344.21	13.54
28 46	13 31-1039	EA	Red, Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4R)	617.28	13.54
28 46	13 31-1040	EA	Red, Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4BR)	385.32	13.54
28 46	13 31-1041	EA	Red, Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4R)	738.64	13.54
28 46	13 31-1042	EA	Black, Two Tiers, Equipment Backbox Assembly (Notifier EQBB-B4).....	358.57	27.10
28 46	13 31-1043	EA	Black, Three Tiers, Equipment Backbox Assembly (Notifier EQBB-C4)	526.91	27.10
28 46	13 31-1044	EA	Black, Four Tiers, Equipment Backbox Assembly (Notifier EQBB-D4)	616.96	27.10
28 46	13 31-1045	EA	Black, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4)	375.21	27.10
28 46	13 31-1046	EA	Black, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4)	564.10	27.10
28 46	13 31-1047	EA	Black, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4)	658.06	27.10
28 46	13 31-1048	EA	Red, Two Tiers, Equipment Backbox Assembly (Notifier EQBB-B4R)	361.50	27.10
28 46	13 31-1049	EA	Red, Three Tiers, Equipment Backbox Assembly (Notifier EQBB-C4R).....	526.91	27.10
28 46	13 31-1050	EA	Red, Four Tiers, Equipment Backbox Assembly (Notifier EQBB-D4R).....	624.79	27.10
28 46	13 31-1051	EA	Red, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4R).....	392.82	27.10
28 46	13 31-1052	EA	Red, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4R).....	564.10	27.10
28 46	13 31-1053	EA	Red, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4R).....	658.06	27.10
28 46	13 31-1054	EA	Backbox With Door For ONYX Firstvision™ (Notifier FIRSTVISION-ENC)	2,488.69	135.46
28 46	13 31-1055	EA	CAB-4 Series Mounting Kit (Notifier P40-KITB)	337.04	27.10
Note: Includes chassis, hinged dress plate, and mounting hardware.					
28 46	13 31-1056	EA	Black, One Tier Backbox Assembly (Notifier SBB-A4)	367.10	81.28
28 46	13 31-1057	EA	Black, Two Tier Backbox Assembly (Notifier SBB-B4)	518.75	108.38
28 46	13 31-1058	EA	Black, Three Tier Backbox Assembly (Notifier SBB-C4)	681.19	108.38
28 46	13 31-1059	EA	Black, Four Tier Backbox Assembly (Notifier SBB-D4).....	829.22	135.46
28 46	13 31-1060	EA	Black, Mini, One Tier, Backbox (Notifier SBB-AA4).....	213.71	27.10
28 46	13 31-1061	EA	Red, Mini, One Tier, Backbox (Notifier SBB-AA4R).....	213.71	27.10
28 46	13 31-1062	EA	Red, One Tier Backbox Assembly (Notifier SBB-A4R).....	258.74	27.10
28 46	13 31-1063	EA	Red, Two Tier Backbox Assembly (Notifier SBB-B4R)	357.59	27.10
28 46	13 31-1064	EA	Red, Three Tier Backbox Assembly (Notifier SBB-C4R)	521.04	27.10
28 46	13 31-1065	EA	Red, Four Tier Backbox Assembly (Notifier SBB-D4R)	615.00	27.10
28 46	13 31-1066	EA	Trim Ring For NFS-320 Cabinet (Notifier TR-320).....	204.28	16.26
28 46	13 31-1067	EA	Red, Trim Ring For NFS-320 Cabinet (Notifier TR-320R)	204.28	16.26
28 46	13 31-1068	EA	Black, "AA" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-AA4)	274.26	16.26
28 46	13 31-1069	EA	Black, "A" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-A4)	217.49	16.26
28 46	13 31-1070	EA	Black, "B" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-B4)	218.96	16.26
28 46	13 31-1071	EA	Black, "C" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-C4)	216.51	16.26
28 46	13 31-1072	EA	Black, "D" Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-D4).....	221.90	16.26

28 Electronic Safety and Security

28 40 Life Safety

28 46 Fire Detection and Alarm



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1073	EA		2" Filler Dress Plate For ADP-4B Installed In The Top Row Of A CAB-4 Series Backbox (Notifier VP-2B).....	80.86	16.26
28 46 13 31-1074	EA		Wire Trays For Routing Wire In A CAB-4 Series Backbox (Notifier WC-2).....	55.08	5.42
28 46 13 31-1075			NFS2-3030/640 Cabinet Mechanicals (28 46 13 31-0973)		
28 46 13 31-1076	EA		Dress Plate For Middle Rows With CPU2-640 (Notifier ADP2-640).....	120.34	16.26
28 46 13 31-1077	EA		Blank Module Dress Plate (Notifier BM-1B).....	99.89	16.26
28 46 13 31-1078	EA		Battery Dress Plate For NFS2-3030, NFS2-640, NCA-2 And DVC System (Notifier BP2-4).....	113.12	16.26
28 46 13 31-1079	EA		Four Position Expansion Chassis (Notifier CHS-4MB).....	266.89	13.54
28 46 13 31-1080	EA		Standard 1st Row Chassis Assembly For CPU-3030 (Notifier CHS-M3).....	254.54	40.64
28 46 13 31-1081	EA		Dress Plate For Top Row With CPU2-640 (Notifier DP-DISP2).....	125.16	16.26
28 46 13 31-1082			NFS-3030/640 Cabinet Mechanicals (28 46 13 31-0973)		
28 46 13 31-1083	EA		Annunciator Dress Plate (Notifier ADP-4B).....	114.33	16.26
28 46 13 31-1084	EA		Blank Module Dress Plate (Notifier BMP-1).....	72.22	16.26
28 46 13 31-1085	EA		Low Profile Four Position Chassis For AA-30 Or LDM (Notifier CHS-4L).....	161.87	27.10
28 46 13 31-1086	EA		Module Dress Plate (Notifier MP-1B).....	115.53	16.26
28 46 13 31-1087			Battery Cabinets (28 46 13 31-0973)		
28 46 13 31-1088	EA		Six Position Chassis (Notifier CHS-6).....	105.08	27.10
28 46 13 31-1089	EA		Black, 24" x 14" x 7-3/4" Battery Backbox (Notifier NFS-LBB).....	516.30	81.28
28 46 13 31-1090			Digital Voice (28 46 13 31-0973)		
28 46 13 31-1091	EA		Chassis Used With BB-XP (Notifier 18439).....	52.06	13.54
28 46 13 31-1092	EA		220 Volt AC, 100 Watt, 70.7 VRMS, Tone Generator, Audio Amplifier (Notifier AA-100E).....	1,615.96	40.64
28 46 13 31-1093	EA		220 Volt AC, 120 Watt, 25 VRMS, Tone Generator, Audio Amplifier (Notifier AA-120E).....	1,571.15	40.64
28 46 13 31-1094	EA		220 Volt AC, 30 Watt, 25 VRMS Audio Amplifier (Notifier AA-30E).....	800.50	40.64
28 46 13 31-1095	EA		Black, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4).....	522.85	40.64
28 46 13 31-1096	EA		Black, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4).....	708.78	54.18
28 46 13 31-1097	EA		Black, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4).....	882.65	67.74
28 46 13 31-1098	EA		Multimode Audio Fiber Link Receiver (Notifier AFL-RM).....	691.12	27.10
28 46 13 31-1099	EA		Multimode Audio Fiber Link Transmitter (Notifier AFL-TM).....	691.12	27.10
28 46 13 31-1100	EA		Single Mode Audio Fiber Link Transmitter (Notifier AFL-TS).....	1,465.44	27.10
28 46 13 31-1101	EA		15" x 8-3/8" x 3-3/8", Flush Or Surface Mounted Backbox (Notifier AFAWS-BX).....	107.11	13.54
28 46 13 31-1102	EA		Flush Mounted, Key Lock, Door (Notifier AFAWS-KR).....	179.78	13.54
28 46 13 31-1103	EA		Surface Mounted, Key Lock, Door (Notifier AFAWS-KS).....	180.76	13.54
28 46 13 31-1104	EA		Flush Mounted, Latch Style Lock, Door (Notifier AFAWS-LR).....	174.89	13.54
28 46 13 31-1105	EA		Surface Mounted, Latch Style Lock, Door (Notifier AFAWS-LS).....	176.85	13.54
28 46 13 31-1106	EA		Armored Coil Cord, Telephone Chassis (Notifier AFAWS-TELA).....	358.89	13.54
28 46 13 31-1107	EA		Coil Cord, Telephone Chassis (Notifier AFAWS-TELC).....	274.72	13.54
28 46 13 31-1108	EA		Hammer Attached To Chain, Breakglass Insert (Notifier BRKG-B).....	112.63	
28 46 13 31-1109	EA		For 25 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-25V).....	417.83	27.10
28 46 13 31-1110	EA		For 70 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-70V).....	421.50	27.10
28 46 13 31-1111	EA		Blank Dress Plate For CA-2 (Notifier BP-CA2).....	105.64	13.54
28 46 13 31-1112	EA		One Tier Chassis For Digital Voice Command Panel (Notifier CA-1).....	140.81	27.10
28 46 13 31-1113	EA		Two Tier Chassis For Digital Voice Command Panel, With MIC-1 (Notifier CA-2).....	435.02	40.64
28 46 13 31-1114	EA		Black, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RM).....	212.25	27.10
28 46 13 31-1115	EA		Red, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RMR).....	212.25	27.10
28 46 13 31-1116	EA		Chassis, Phone Well, TELH-1 And Hardware (Notifier CFFT-1).....	271.78	13.54
28 46 13 31-1117	EA		Chassis With Paging Microphone With Well (Notifier CMIC-1).....	268.85	13.54
28 46 13 31-1118	EA		120 Volt AC, 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025).....	1,784.38	27.10
28 46 13 31-1119	EA		Multi-Mode Fiber-Optic Media 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025F).....	1,775.20	27.10
28 46 13 31-1120	EA		Single-Mode Fiber-Optic Media 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025SF).....	1,775.20	27.10
28 46 13 31-1121	EA		120 Volt AC, 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070).....	1,842.14	27.10
28 46 13 31-1122	EA		Multi-Mode Fiber-Optic Media 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070F).....	1,931.65	27.10
28 46 13 31-1123	EA		120 Volt AC, 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525).....	1,913.12	27.10
28 46 13 31-1124	EA		Single-Mode Fiber-Optic Media 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525SF).....	2,322.79	27.10
28 46 13 31-1125	EA		Single-Mode Fiber-Optic Media 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525SF).....	2,322.79	27.10
28 46 13 31-1126	EA		220-240 Volt AC, 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA2-5025E).....	1,311.17	27.10
28 46 13 31-1127	EA		220-240 Volt AC, 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA2-5070E).....	1,347.90	27.10
28 46 13 31-1128	EA		220-240 Volt AC, 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA2-7525E).....	1,405.20	27.10
28 46 13 31-1129	EA		120 Volt AC, 35 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525).....	894.62	27.10
28 46 13 31-1130	EA		220-240 Volt AC, 35 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525E).....	918.13	27.10
28 46 13 31-1131	EA		120 Volt AC, 35 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570).....	939.43	27.10
28 46 13 31-1132	EA		220-240 Volt AC, 35 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570E).....	970.29	27.10
28 46 13 31-1133	EA		120 Volt AC, 50 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025).....	976.90	27.10
28 46 13 31-1134	EA		220-240 Volt AC, 50 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025E).....	1,005.55	27.10
28 46 13 31-1135	EA		120 Volt AC, 50 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070).....	1,034.20	27.10
28 46 13 31-1136	EA		220-240 Volt AC, 50 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070E).....	1,085.63	27.10
28 46 13 31-1137	EA		Dress Plate For CFFT-1 (Notifier DP-CFFT).....	122.28	13.54
28 46 13 31-1138	EA		Dress Panel For One Tier Chassis For Digital Voice Command Panel (Notifier DPA-1).....	108.31	16.26
28 46 13 31-1139	EA		Dress Panel For One Tier Chassis For Digital Voice Command Panel, Supports Keypad (Notifier DPA-1A4).....	125.16	16.26
28 46 13 31-1140	EA		Dress Panel For Two Tier Chassis For Digital Voice Command Panel (Notifier DPA-2B).....	215.40	16.26
28 46 13 31-1141	EA		WPS Power Amplifier (Notifier DPA3204P).....	493.50	27.10
28 46 13 31-1142	EA		WPS Power Amplifier (Notifier DPA4001P).....	417.83	27.10
28 46 13 31-1143	EA		Modem Interface For Direct Wire (No Dial-Up Capabilities) For Interconnecting Panels (Notifier DPI-232).....	929.15	27.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1144 EA 120 Volt AC, 125 Watt, 25 VRMS Digital Series Amplifier (Notifier DS-AMP).....	697.73	27.10
Note: Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V		
28 46 13 31-1145 EA 220-240 Volt AC, 125 Watt, 25 VRMS Digital Series Amplifier (Notifier DS-AMPE).....	705.81	27.10
Note: Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V		
28 46 13 31-1146 EA Digital Series Distribution Board, Supports One To Four DS-AMP Or DS-AMPE (Notifier DS-DB).....	1,168.64	27.10
28 46 13 31-1147 EA 125 Watt, 25 VRMS DS Series Backup Amplifier Board (Can Be Converted To 70 VRMS, 100 Watt Amplifier With A DS-XF70V) (Notifier DS-BDA).....	461.91	27.10
28 46 13 31-1148 EA Converts One DAX Or DAA2 DAL Port To Multi-Mode Fiber, Fiber Option Module (Notifier DS-FM).....	316.48	27.10
28 46 13 31-1149 EA Converts One DAX Or DAA2 Port To ST Style Multi-Mode Fiber (For Connection To DVC-EMF Or DAA-XXXX Series Amplifier), Fiber Option Module (Notifier DS-RFM).....	316.48	27.10
28 46 13 31-1150 EA Converts One DAX Or DAA2 DAL Port To Single-Mode Fiber, Fiber Option Module (Notifier DS-SFM).....	316.48	27.10
28 46 13 31-1151 EA Converts DS-AMP, DS-AMPE, Or DS-BDA To 70 VRMS, 100 Watt, DS Series Transformer (Notifier DS-XF70V).....	135.66	27.10
28 46 13 31-1152 EA Analog Output Board For Digital Voice Command (Notifier DVC-AO).....	312.87	27.10
28 46 13 31-1153 EA Extended Memory For Digital Voice Command (Notifier DVC-EM).....	1,798.82	27.10
28 46 13 31-1154 EA Keypad For Digital Voice Command (Notifier DVC-KD).....	523.48	54.18
28 46 13 31-1155 EA Microphone For NFC-50/100, NFC-LOC, NFC-RPU And NFC-RM (Notifier ECC-MICROPHONE).....	250.63	
28 46 13 31-1156 EA Portable Fireman's Telephone Handset (Notifier FHS).....	150.31	
28 46 13 31-1157 EA Red, Fireman's Telephone Handset (Notifier FHS-F).....	174.29	
28 46 13 31-1158 EA Recessed, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-R).....	435.89	27.10
28 46 13 31-1159 EA Surface Mounted, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-S).....	435.89	27.10
28 46 13 31-1160 EA Fireman's Phone Jack On A Single Gang Plate (Notifier FPJ).....	71.27	8.13
28 46 13 31-1161 EA Paging Microphone Only (Notifier MIC-1).....	211.80	27.10
28 46 13 31-1162 EA Firefighter's Telephone Handset (Notifier TELH-1).....	171.84	
28 46 13 31-1163 EA Remote Microphone Assembly For Mounting On An ADP-4 Dress Plate (Notifier RM-1).....	522.22	27.10
28 46 13 31-1164 EA Remote Microphone Assembly For Mounting In A Stand Alone Cabinet (Notifier RM-1SA).....	522.22	27.10
28 46 13 31-1165 Amplifiers <small>(28 46 13 31-0973)</small>		
28 46 13 31-1166 EA 30 Watt Audio Amplifier At 25 VRMS, 120 Volt AC (Notifier AA-30).....	1,003.50	27.10
28 46 13 31-1167 EA 100 Watt Audio Amplifier At 70.7 VRMS, 120 Volt AC, Tone Generator (Notifier AA-100).....	2,188.66	27.10
28 46 13 31-1168 EA 120 Watt Audio Amplifier At 25 VRMS, 120 Volt AC, Tone Generator (Notifier AA-120).....	2,126.09	27.10
28 46 13 31-1169 EA Audio Coupling Transformer (Notifier ACT-1).....	154.05	27.10
28 46 13 31-1170 EA Audio Coupling Transformer For DVC-AO (Notifier ACT-4).....	180.52	27.10
28 46 13 31-1171 EA Audio Coupling Transformer For DAA-5025 (Notifier ACT-25).....	180.52	27.10
28 46 13 31-1172 EA Audio Coupling Transformer For DAA-5070 (Notifier ACT-70).....	180.52	27.10
28 46 13 31-1173 FireVoice-25/50 Emergency Voice Evacuation Control Panels <small>(28 46 13 31-0973)</small>		
28 46 13 31-1174 EA 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50).....	4,690.05	541.87
28 46 13 31-1175 EA Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50DA).....	3,274.12	541.87
28 46 13 31-1176 EA Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel Used With NFV-25/50ZS (Notifier NFV-25/50DAZS).....	4,291.09	541.87
28 46 13 31-1177 EA Zoned System 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZS).....	5,620.96	541.87
28 46 13 31-1178 EA Zoned System With Telephone 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZST).....	6,231.14	541.87
28 46 13 31-1179 System Printer <small>(28 46 13 31-0973)</small>		
28 46 13 31-1180 EA 80 Column, 120 Volt AC, Desktop Printer (Notifier PRN-6).....	2,174.22	27.10
28 46 13 31-1181 Batteries <small>(28 46 13 31-0973)</small>		
28 46 13 31-1182 EA 5 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-1250-BP).....	564.10	27.10
28 46 13 31-1183 EA 7 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-1270-BP).....	465.67	27.10
28 46 13 31-1184 EA 12 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12120-BP).....	612.46	27.10
28 46 13 31-1185 EA 18 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12180-BP).....	357.39	27.10
28 46 13 31-1186 EA 26 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12260-BP).....	499.36	27.10
28 46 13 31-1187 EA 55 Ampere Hours, 12 Volt DC, Sealed Battery (Notifier BAT-12550).....	498.16	27.10
28 46 13 31-1188 EA 100 Ampere Hours, 12 Volt DC, Sealed Battery (Notifier BAT-121000).....	792.70	27.10
28 46 13 31-1189 Battery Backboxes And Miscellaneous Mechanicals <small>(28 46 13 31-0973)</small>		
28 46 13 31-1190 EA 14-1/2" x 8-1/4" x 4-3/4", Holds Up To Two BAT-12180 Batteries, Battery Backbox (Notifier BB-17).....	155.42	21.67
28 46 13 31-1191 EA 24" x 12.55" x 5.218", Mounts Up To Six XP6 Boards Or ACPS-610, Cabinet (Notifier BB-25).....	260.63	21.67
Note: XP6 modules require a CHS-6.		
28 46 13 31-1192 EA 15.6" x 15.5" x 5.152", Mounts Up To Two 26 Ampere Hours And Charger, Battery Backbox (Notifier BB-26).....	406.86	108.38
28 46 13 31-1193 EA Holds Up To Two BAT-12120 12 Ampere Hours Batteries, Battery Holder (Notifier CHS-BH).....	198.91	54.18
28 46 13 31-1194 EA Holds Up To Two BAT-12120 12 Ampere Hours Batteries, Battery Holder (Notifier CHS-BH1).....	111.76	13.54
28 46 13 31-1195 EA Battery Bracket For Two 26 Ampere Hours Batteries (Notifier SEISKIT-BB25).....	311.71	21.67
28 46 13 31-1196 EA Two 26 Ampere Hours Battery Bracket Seismic Kit For CAB-4 Series Cabinets (Notifier SEISKIT-CAB).....	207.78	21.67
28 46 13 31-1197 EA Two 12 Ampere Hours Battery Bracket Seismic Kit For DAX, DAA, And DAA2 Series Amplifiers (Notifier SEISKIT-DAA).....	230.78	21.67
28 46 13 31-1198 EA Two 55 Ampere Hours Battery Bracket Seismic Kit For NFS-LBB (Notifier SEISKIT-LBB).....	245.95	21.67
28 46 13 31-1199 Power Supplies And Chargers <small>(28 46 13 31-0973)</small>		
28 46 13 31-1200 EA 120 Volt AC, 6 Or 10 Amperes, Addressable Charging Power Supply (Notifier ACPS-610).....	1,093.63	40.64
28 46 13 31-1201 EA 220/240 Volt AC, 6 Or 10 Amperes, Addressable Charging Power Supply (Notifier ACPS-610E).....	1,146.52	40.64
28 46 13 31-1202 EA Addressable Power Supply, 120 Volt AC For NFS-3030, NFS2-3030 And NCA-2 (Notifier AMPS-24).....	1,532.91	27.10
28 46 13 31-1203 EA 6A Auxiliary Power Supply (Notifier APS-6R).....	950.67	27.10
28 46 13 31-1204 EA 10 Amperes Battery Charger (Notifier BC10A).....	1,015.00	40.64

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46	13 31-1205	EA	33.34" x 22.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS-3030 Or NFS2-3030 (Notifier BB-100).....	557.33	32.51
			Note: Holds four 55 ampere hour or two 100 ampere hour batteries		
28 46	13 31-1206	EA	Red, 33.34" x 22.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS-3030 Or NFS2-3030 (Notifier BB-100R).....	564.18	32.51
			Note: Holds four 55 ampere hour or two 100 ampere hour batteries		
28 46	13 31-1207	EA	30.34" x 36.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS2-3030 (Notifier BB-200).....	649.07	32.51
			Note: Holds four 55 ampere hour or four 100 ampere hour batteries		
28 46	13 31-1208	EA	30.34" x 36.5" x 7.5", Holds Four 55 Ampere Hours Or Four 100 Ampere Hours Batteries, For NFS2-3030, Red, Combination Power Supply And Battery Enclosure (Notifier BB-200R).....	649.07	32.51
28 46	13 31-1209	EA	15.218" x 14.5" x 3.562" ACPS Stand-Alone Cabinet (Notifier CAB-PS1).....	195.12	27.10
28 46	13 31-1210	EA	25 To 120 Ampere Hours Battery Charger (Notifier CHG-120).....	1,181.58	27.10
28 46	13 31-1211	EA	Mounts XPIQ-Ps And/Or CHS-BH In A CAB-3/4 Row, Also Mount One ACPS-610 In CAB-3 Row, Chassis Assembly (Notifier CHS-PS).....	87.78	13.54
28 46	13 31-1212	EA	Door Used For Mounting ACPS-610 (E) In a CAB-PS1 Cabinet When Replacing ACPS-2406 (Notifier DR-PS1).....	138.19	13.54
28 46	13 31-1213	EA	8 Amperes, 120 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8).....	783.32	27.10
28 46	13 31-1214	EA	8.0 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8E).....	670.94	81.28
28 46	13 31-1215	EA	Red, 8 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8R).....	643.76	81.28
28 46	13 31-1216	EA	8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPPF8).....	738.53	81.28
28 46	13 31-1217	EA	8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPPF8E).....	732.65	81.28
28 46	13 31-1218	EA	Chassis Mounted, 8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPPF8CM).....	695.45	40.64
28 46	13 31-1219	EA	Chassis Mounted, 8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPPF8CME).....	695.45	40.64
28 46	13 31-1220	EA	12 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPPF12).....	857.81	40.64
28 46	13 31-1221	EA	12 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPPF12E).....	820.34	40.64
28 46	13 31-1222	EA	12 Amperes, 24 Volt DC, 120 Volt AC, Chassis Mounted, NAC Fire Alarm Power Supply (Notifier HPPF12CM).....	870.29	81.28
28 46	13 31-1223	EA	12 Amperes, 24 Volt DC, 220 Volt AC, Chassis Mounted, NAC Fire Alarm Power Supply (Notifier HPPF12CME).....	870.29	81.28
28 46	13 31-1224	EA	6 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S6).....	630.53	81.28
28 46	13 31-1225	EA	6 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S6E).....	630.53	81.28
28 46	13 31-1226	EA	8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S8).....	677.55	81.28
28 46	13 31-1227	EA	8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S8E).....	677.55	81.28
28 46	13 31-1228	EA	6 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF602ULADA).....	551.92	81.28
28 46	13 31-1229	EA	9 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF902ULADA).....	643.76	81.28
28 46	13 31-1230	EA	Class A Adapter HPPF8/HPPF12 (Notifier HPP31076).....	136.56	13.54
28 46	13 31-1231	EA	Up To 3 Amperes, Main Power Supply And Charger (Notifier MPS-24A).....	1,384.06	27.10
28 46	13 31-1232	EA	Class A (Style Y) NAC Option Module For FCPS-2406 And FCPS-2408 (Notifier ZNAC-4).....	193.16	27.10
28 46	13 31-1233		Network Control Annunciators (28 46 13 31-0973)		
28 46	13 31-1234	EA	Network Control Annunciator For NFS2-3030, NFS-3030, NFS-320, NFS-640 And NFS2-640 (Notifier NCA-2).....	2,147.84	81.28
28 46	13 31-1235	EA	Retro-Fit Plate For Mounting NCA2 (Notifier NCA-2RETRO).....	81.84	16.26
28 46	13 31-1236	EA	Kit For Mounting NCA-2 To CHS-M2 (Notifier NCA/640-2-Kit).....	58.98	16.26
28 46	13 31-1237		FIRSTVISION Firefighter's Display (28 46 13 31-0973)		
28 46	13 31-1238	EA	ONYX Firstvision™ Touchscreen Assembly (Notifier FIRSTVISION-LCD).....	16,605.88	541.87
28 46	13 31-1239		FlashScan Addressable Modules (28 46 13 31-0973)		
28 46	13 31-1240	EA	Intelligent Addressable Control Module (Notifier FCM-1).....	185.33	27.10
28 46	13 31-1241	EA	Addressable Dual Monitor Module (Notifier FDM-1).....	206.99	27.10
28 46	13 31-1242	EA	Intelligent Addressable Monitor Module (Notifier FMM-1).....	154.05	27.10
28 46	13 31-1243	EA	Intelligent Addressable Miniature Monitor Module (Notifier FMM-101).....	137.20	27.10
28 46	13 31-1244	EA	Intelligent Addressable 4 - 20mA Analog Input Module (Notifier FMM-4-20).....	282.79	27.10
28 46	13 31-1245	EA	Intelligent Addressable Relay Module (Notifier FRM-1).....	163.06	27.10
28 46	13 31-1246	EA	Intelligent Addressable 2-Wire Detector Monitor Module (Notifier FZM-1).....	233.46	27.10
28 46	13 31-1247	EA	SLC Loop Powered Fault Isolator Module (Notifier ISO-X).....	151.64	27.10
28 46	13 31-1248		Addressable Device Bases And Accessories (28 46 13 31-0973)		
28 46	13 31-1249	EA	Intelligent Detector Base With Flange (Notifier B710LP).....	56.83	13.54
28 46	13 31-1250	EA	Weatherproof Device Housing (Notifier DH400OE-1).....	476.50	27.10
28 46	13 31-1251		XP6/XP10 Transponder (28 46 13 31-0973)		
28 46	13 31-1252	EA	Synchronization Daughter Module For XP6-C (Notifier SYNC-1).....	136.60	27.10
28 46	13 31-1253	EA	Six Circuit Supervised Control Module (Notifier XP6-C).....	684.66	27.10
28 46	13 31-1254	EA	Six Zone Intelligent To Conventional Interface Module (Notifier XP6-MA).....	829.04	27.10
28 46	13 31-1255	EA	Six Relay Control Module (Notifier XP6-R).....	658.19	27.10
28 46	13 31-1256	EA	Ten Input Monitor Module (Notifier XP10-M).....	792.94	27.10
28 46	13 31-1257		LCD Display Annunciators (28 46 13 31-0973)		
28 46	13 31-1258	EA	80 Character LCD Fire Annunciator For FireWarden-100-2, NFS-640, NFS2-640 And NFS-320 (Notifier FDU-80).....	878.46	81.28
28 46	13 31-1259	EA	80 Character LCD Annunciator For NFS-640, NFS-3030, NFS2-640, NFS2-3030 And NFS-320 (Notifier LCD-80).....	1,233.41	81.28
28 46	13 31-1260	EA	640 Character LCD Annunciator For NFS-3030 And NFS2-3030 (Notifier LCD-160).....	1,276.72	81.28
28 46	13 31-1261	EA	8 To 16 Switch Smoke Control Expander (Notifier SCE-8).....	801.94	27.10
28 46	13 31-1262	EA	8 To 16 Switch Smoke Control Lamp Driver Expander (Notifier SCE-8L).....	425.12	27.10
28 46	13 31-1263	EA	Eight Switch Smoke Control Master Module (Notifier SCS-8).....	1,038.79	27.10



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1264				ONYX ACM And AEM Series LED Annunciators <small>(28-46 13 31-0973)</small>		
				EA Remote, Eight Form C Relay Module (Notifier ACM-8R).....	459.38	27.10
				EA 16 Alarm LEDs, 16 Trouble LEDs, 16 Controls Switches, Annunciator Control Module (Notifier ACM-16AT).....	907.25	27.10
				EA 16 Alarm LEDs, 16 Trouble LEDs, 16 Control Switches, Annunciator Expander Module (Notifier AEM-16AT).....	694.28	27.10
				EA 24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Control Module (Notifier ACM-24AT).....	907.25	27.10
				EA 24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Expander Module (Notifier AEM-24AT).....	694.28	27.10
				EA 32 Alarm LEDs And 1 Trouble LED, Control Module (Notifier ACM-32A).....	694.28	27.10
				EA 32 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-32A).....	622.09	27.10
				EA 48 Alarm And 1 Trouble LED Annunciator Control Module (Notifier ACM-48A).....	694.28	27.10
				EA 48 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-48A).....	622.09	27.10
28 46 13 31-1274				Graphic Annunciator - Lamp Driver Modules <small>(28 46 13 31-0973)</small>		
				EA Single Annunciator Flush Mounted Backbox (Notifier ABF-1B).....	284.05	54.18
				EA Single Annunciator Flush Mounted Backbox With Glass Door And Key Lock (Notifier ABF-1DB).....	309.31	54.18
				EA Two Annunciator Flush Mounted Backbox (Notifier ABF-2B).....	355.65	67.74
				EA Two Annunciator Flush Mounted Backbox With Glass Door And Key Lock (Notifier ABF-2DB).....	388.13	67.74
				EA Four Annunciator Flush Mounted Backbox (Notifier ABF-4B).....	625.22	94.82
				EA Annunciator Blank Plate Used With ACM-32A/ACM-16AT (Notifier ABM-1).....	111.32	16.26
				EA Single Annunciator Surface Mounted Backbox (Notifier ABS-1B).....	181.17	54.18
				EA Single Annunciator Surface Mounted Backbox With Trim (Notifier ABS-1TB).....	190.51	13.54
				EA Two Annunciator Surface Mounted Backbox (Notifier ABS-2B).....	227.50	54.18
				EA 12" x 12" x 3-3/4" Surface Or Semi-Flush Mount Backbox (Notifier ABS-2D).....	404.98	67.74
				EA Red, Surface (Or Semi-Flush) Mounted Backbox For ACS Annunciators, SCS Series, NCA And NCA-2 (Notifier ABS-2DR).....	362.92	13.54
				EA Black, 12" x 20" x 3-1/2" Surface Or Semi-Flush Backbox (Notifier ABS-4D).....	657.70	94.82
				EA Red, 12" x 20" x 3-1/2" Surface Or Semi-Flush Backbox (Notifier ABS-4DR).....	615.70	16.26
				EA Black, 9-15/16" x 4-5/8" x 2-1/2" Surface Backbox (Notifier ABS-8RB).....	227.75	21.67
				EA Annunciator Key Switch (Notifier AKS-1B).....	99.70	8.13
				EA Chassis Used To Mount NCA-2 In ABS-2D (Notifier CHS-2D).....	105.32	27.10
				EA 32 Alarm Lamp Driver Annunciator Control Module (Notifier LDM-32).....	622.09	27.10
				EA 24" Lamp Driver Annunciator Cable (Notifier LDM-CBL24).....	174.78	5.42
				EA 48" Lamp Driver Annunciator Cable (Notifier LDM-CBL48).....	218.82	5.42
				EA 32 Alarm Lamp Driver Annunciator Expander Module (Notifier LDM-E32).....	512.60	27.10
				EA Lamp Driver Module (Notifier LDM-R32).....	851.85	27.10
				EA Eight Switch Smoke Control Lamp Driver Master Module (Notifier SCS-8L).....	790.19	27.10
				EA 48" Cable Assembly For Smoke Control Lamp Driver (Notifier SCS8L-CBL48).....	224.69	5.42
				EA Black, Trim Ring For ABS-2D Cabinet (Notifier TR-ABS2D).....	202.32	16.26
				EA Black, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4D).....	135.95	16.26
				EA Red, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4DR).....	135.95	16.26
28 46 13 31-1301				Network Gateways <small>(28 46 13 31-0973)</small>		
				EA Common Alerting Protocol Gateway (Notifier CAP-GW).....	2,331.60	27.10
				EA Fiber-Optic Cable Interface (Multi-Mode), High-Speed Network Communications Module (Notifier HS-NCM-MF).....	1,738.00	27.10
				EA Fiber-Optic Cable Interface (Multi-Mode Fiber To Single-Mode Fiber), High-Speed Network Communications Module (Notifier HS-NCM-MFSF).....	1,956.92	27.10
				EA Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS-NCM-SF).....	2,155.28	27.10
				EA Twisted-Pair Wire Interface, High-Speed Network Communications Module (Notifier HS-NCM-W).....	1,753.43	27.10
				EA Wire And Fiber-Optic Cable Interface, High-Speed Network Communications Module (Multi-Mode) (Notifier HS-NCM-WMF).....	1,706.41	27.10
				EA Wire And Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS-NCM-WSF).....	1,920.19	27.10
				EA Modbus Gateway (Notifier MODBUS-GW).....	1,912.84	27.10
				EA 22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW).....	2,216.71	17.88
				EA Capacitive Touch-Screen, 22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW-TS).....	3,289.30	17.88
				EA 1920x1080P Wide Screen (Notifier MON-42LCDW).....	10,393.36	17.88
				EA Single Monitor, Wall Mounted, Horizontal, Tilt, Bracket (Notifier MON-42HORZ-SD).....	740.93	40.64
				EA Single Monitor, Vertical Mounted, Bracket (Notifier MON-42VERT-SD).....	1,378.09	40.64
				EA Dual Monitors, Vertical Wall Mounted, Fixed Position, Bracket (Notifier MON-42VERT-DD).....	2,022.74	40.64
				EA Mass Notification Voice Paging (Notifier NOTIFY-IP).....	869.83	
				EA Embedded NFN Gateway (Notifier NFN-GW-EM).....	2,629.03	27.10
				EA NFN Gateway PC Card With Fiber (Notifier NFN-GW-PC-F).....	2,629.03	27.10
				EA High Speed NFN Gateway PC Card For Multimode Fiber (Included With ONYXworks-HNMF) (Notifier NFN-GW-PC-HNMF).....	2,647.49	27.10
				EA High Speed NFN Gateway PC Card For Single Mode Fiber (Included With ONYXworks-HNSF) (Notifier NFN-GW-PC-HNSF).....	3,080.94	27.10
				EA High Speed NFN Gateway PC Card For Wire (Included With ONYXworks-HNW) (Notifier NFN-GW-PC-HNW).....	2,647.49	27.10
				EA NFN Gateway PC Card With Wire (Notifier NFN-GW-PC-W).....	2,629.03	27.10
				EA Alpha-Numeric Pager Option For ONYXworks (Notifier ONYX-PAGER).....	1,574.16	
				EA ONYXWorks Workstation (Notifier ONYXWORKS-WS).....	20,100.34	650.25
				EA Fiber Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NW).....	6,213.55	
				Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.		
				EA Wired Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NF).....	6,213.55	
				Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.		
				EA Fiber Optics, Standard Network Repeater Board (Notifier RPT-F).....	818.22	27.10
				EA Wire, Standard Network Repeater Board (Notifier RPT-W).....	669.08	27.10
				EA Wire To Fiber Optics, Standard Network Repeater Board (Notifier RPT-WF).....	793.24	27.10
				EA Signaling Line Circuit Integration Module (Notifier SLC-IM).....	883.60	27.10

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1331 EA VESDA Gateway That Provides A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VESDA-HLI-GW).....	1,824.69	27.10
28 46 13 31-1332 EA Vesda™ High Level Interface Card Used With SLC-IM And Vesda-HLI-GW To Provide A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VHX-1420-HFS)	2,692.77	27.10
28 46 13 31-1333 EA Windows 7 Hard Drive Upgrade (Notifier WIN7-UG-US-3)	2,998.40	
28 46 13 31-1334 NOTI-FIRE-NET Network Components <small>(28 46 13 31-0973)</small>		
28 46 13 31-1335 EA Interface Between NOTI-FIRE-NET 50 And BACnet (Notifier BACNET-GW-3).....	2,629.03	27.10
28 46 13 31-1336 EA Fiber Optic Network Communications Module (Notifier NCM-F).....	1,169.55	27.10
28 46 13 31-1337 EA NOTI-FIRE-NET Web Server (Notifier NWS).....	2,629.03	27.10
28 46 13 31-1338 EA Wired Network Communications Module (Notifier NCM-W).....	1,114.20	27.10
28 46 13 31-1339 EA Fiber Optic Converter Module Mounting Kit (Notifier SMF-Kit).....	124.10	13.54
28 46 13 31-1340 FireWarden Addressable Fire Panels <small>(28 46 13 31-0973)</small>		
28 46 13 31-1341 EA 50 Point, Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW-50)	2,232.80	541.87
28 46 13 31-1342 EA Black, One SLC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100)	2,659.93	541.87
28 46 13 31-1343 EA Black, One DC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100C).....	2,337.05	270.94
28 46 13 31-1344 EA Black, One SLC Loop, 240 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100E)	2,337.05	270.94
28 46 13 31-1345 EA Red, One SLC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100R).....	2,328.24	270.94
28 46 13 31-1346 FireWarden Accessories <small>(28 46 13 31-0973)</small>		
28 46 13 31-1347 EA Intelligent Multicriteria Photo/Thermal Detector With Base (Notifier NP-A100).....	196.77	40.64
28 46 13 31-1348 EA Intelligent Addressable Photo/Thermal Detector With Base (Notifier NP-100T)	186.98	40.64
28 46 13 31-1349 FireWarden Devices <small>(28 46 13 31-0973)</small>		
28 46 13 31-1350 EA SLC Loop Powered Fault Isolator Module (Notifier N100-ISO).....	150.44	27.10
28 46 13 31-1351 EA Intelligent Addressable Control Module (Notifier NC-100)	179.31	27.10
28 46 13 31-1352 EA Intelligent Addressable Relay Module (Notifier NC-100R)	172.09	27.10
28 46 13 31-1353 EA Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector (Notifier ND-100)	439.56	40.64
28 46 13 31-1354 EA Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector With DPDT Relay (Notifier ND-100R)	533.44	40.64
28 46 13 31-1355 EA Two Zone Intelligent Addressable, Two Wire Detector Monitor Module (Notifier NDM-100).....	172.09	27.10
28 46 13 31-1356 EA Intelligent Addressable Thermal Detector With Base (Notifier NH-100).....	175.13	40.64
28 46 13 31-1357 EA Intelligent Addressable High Temperature Thermal Detector With Base (Notifier NH-100H)	175.13	40.64
28 46 13 31-1358 EA Intelligent Addressable Rate-Of-Rise Thermal Detector With Base (Notifier NH-100R)	175.13	40.64
28 46 13 31-1359 EA Intelligent Addressable Ionization Smoke Detector With Base (Notifier NI-100)	237.70	40.64
28 46 13 31-1360 EA Intelligent Addressable Monitor Module (Notifier NMM-100).....	148.03	27.10
28 46 13 31-1361 EA Intelligent Addressable Mini Monitor Module (Notifier NMM-100P).....	134.19	27.10
28 46 13 31-1362 EA Intelligent Addressable Manual Pull Station (Notifier NOT-BG12LX).....	201.57	27.10
28 46 13 31-1363 EA Intelligent Addressable Photoelectric Smoke Detector With Base (Notifier NP-100)	183.55	40.64
28 46 13 31-1364 EA Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100)	226.24	27.10
28 46 13 31-1365 EA Six Zone Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100-6)	809.79	27.10
28 46 13 31-1366 SFP-2402 And SFP-2404 2 And 4-Zone Control Panels And Accessories <small>(28 46 13 31-0973)</small>		
28 46 13 31-1367 EA 120 Volt AC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFP-2402)	1,468.59	433.49
28 46 13 31-1368 EA 120 Volt AC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFP-2404).....	1,623.80	433.49
28 46 13 31-1369 EA 240 Volt AC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFP-2402E).....	992.95	135.46
28 46 13 31-1370 EA 240 Volt AC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFP-2404E)	1,109.75	135.46
28 46 13 31-1371 EA Class A Converter Module (Notifier CAC-4).....	380.10	27.10
28 46 13 31-1372 EA Internal Dress Plate, Required For FM And ULC (Notifier DP-4X).....	138.46	16.26
28 46 13 31-1373 EA Remote Zone Annunciator (Notifier RZA-4X).....	201.66	40.64
28 46 13 31-1374 SFP-5UD 5 Zone Control Panels And Accessories <small>(28 46 13 31-0973)</small>		
28 46 13 31-1375 EA 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFP-5UD).....	2,280.92	541.87
28 46 13 31-1376 EA 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDC)	3,904.39	406.40
28 46 13 31-1377 EA 240 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDE).....	2,575.44	270.94
28 46 13 31-1378 EA Red, 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDR)	2,575.44	270.94
28 46 13 31-1379 EA Class A Converter Module (Notifier N-CAC-5X)	393.80	27.10
28 46 13 31-1380 EA Red, Trim Ring For NFW2-100, NFW-50, SFB-5UD, SFB-10UD, RP-2001, RP-2002 Cabinet (Notifier TR-CE)	149.96	16.26
28 46 13 31-1381 SFP-10UD 10 Zone Control Panels And Accessories <small>(28 46 13 31-0973)</small>		
28 46 13 31-1382 EA 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDC).....	4,738.61	541.87
28 46 13 31-1383 EA 240 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDE)	3,543.09	406.40
28 46 13 31-1384 EA 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFP-10UD).....	2,617.82	541.87
28 46 13 31-1385 EA Red, 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDR).....	4,084.96	541.87
28 46 13 31-1386 EA Four Channel, Dual Line, Stand Alone Fire Alarm Communicator (Fire-Lite 411UDAC)	677.53	81.28



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				28 46 13 31-1387 Smoke Detectors <small>(28 46 13 31-0973)</small>		
				28 46 13 31-1388 EA Low Profile Intelligent Addressable Ionization Smoke Detector (Notifier FSI-851).....	254.54	40.64
				28 46 13 31-1389 EA Intelligent Addressable Laser Smoke Detector (Notifier FSL-751).....	430.21	40.64
				28 46 13 31-1390 EA Intelligent Addressable Laser Duct Smoke Detector (Notifier FSL-751D).....	1,332.93	40.64
				28 46 13 31-1391 EA Remote Test Capable Intelligent Addressable Photo Detector (Notifier NP-100R).....	176.22	40.64
				Note: For use with DNR(W) duct detector housing.		
				28 46 13 31-1392 EA Filters For Harsh Detector (Notifier RF-FTX).....	21.44	
				28 46 13 31-1393 EA Key Activated Remote Test Station For Duct Smoke Detector (Notifier RTS151KEY).....	153.74	27.10
				28 46 13 31-1394 EA Addressable Beam Detector With Reflector, UL Listed (Notifier FS-OSI-RI).....	1,290.51	40.64
				28 46 13 31-1395 Pull Stations <small>(28 46 13 31-0973)</small>		
				28 46 13 31-1396 EA Trim Ring For NBG12 Series Pull Station (Notifier BG12TR).....	31.20	5.42
				28 46 13 31-1397 EA One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Backbox (Notifier BG-2).....	81.07	13.54
				28 46 13 31-1398 EA Red, One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Backbox (Notifier BG-2R).....	67.82	13.54
				28 46 13 31-1399 EA Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1).....	105.90	27.10
				28 46 13 31-1400 EA DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1F).....	117.15	27.10
				28 46 13 31-1401 EA Terminal Switch, DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1FTS).....	161.37	27.10
				28 46 13 31-1402 EA Red Body, Silver Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1R).....	105.90	27.10
				28 46 13 31-1403 EA Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TS).....	122.39	27.10
				28 46 13 31-1404 EA Standard "Local" Style Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TSL).....	122.39	27.10
				28 46 13 31-1405 EA Terminal Strip, Red Body, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1TSR).....	122.39	27.10
				28 46 13 31-1406 EA Red Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1).....	115.65	27.10
				28 46 13 31-1407 EA Red Body, Silver Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1R).....	125.39	27.10
				28 46 13 31-1408 EA Hazardous, Non-Hazardous, Weatherproof, Harsh Locations Fire Alarm Pull Station (Notifier HAZ-WP-PULL).....	664.49	32.51
				28 46 13 31-1409 EA Red, Single Action Fire Alarm Pull Station (Notifier NBG-12S).....	90.49	27.10
				28 46 13 31-1410 EA Red, Dual Action Fire Alarm Pull Station (Notifier NBG-12).....	94.70	27.10
				28 46 13 31-1411 EA Red, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12L).....	103.81	27.10
				28 46 13 31-1412 EA Red, Outdoor, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LOB).....	239.48	32.51
				28 46 13 31-1413 EA Red, Presignal, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LPS).....	141.04	27.10
				28 46 13 31-1414 EA Red, Agent Releasing, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LR).....	118.78	27.10
				28 46 13 31-1415 EA Addressable Manual Dual Action Fire Alarm Pull Station (Notifier NBG-12LX).....	202.78	27.10
				28 46 13 31-1416 EA Pull Station Trim Plate For New York City, For Use With All NBG Series Pull Stations (Notifier NY-PLATE).....	60.31	5.42
				28 46 13 31-1417 Rate Compensation Heat Detectors <small>(28 46 13 31-0973)</small>		
				28 46 13 31-1418 EA 135 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-135).....	187.16	40.64
				28 46 13 31-1419 EA 194 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-194).....	187.16	40.64
				28 46 13 31-1420 FM Series Door Releases <small>(28 46 13 31-0973)</small>		
				28 46 13 31-1421 EA 1/2" Door Holder Spacer (Notifier FM900-50).....	30.70	8.13
				28 46 13 31-1422 EA 3/4" Door Holder Spacer (Notifier FM900-75).....	30.70	8.13
				28 46 13 31-1423 EA 1" Door Holder Spacer (Notifier FM900-100).....	30.70	8.13
				28 46 13 31-1424 EA Door Holder Extension Kit (Notifier FM900).....	32.50	8.13
				28 46 13 31-1425 EA 90 Degree Door Holder Extension Kit (Notifier FM900-Z).....	33.10	8.13
				28 46 13 31-1426 EA 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mounted, Door Holder (Notifier FM980).....	226.87	40.64
				28 46 13 31-1427 EA 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Surface Mounted, Door Holder (Notifier FM996).....	196.79	40.64
				28 46 13 31-1428 EA 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mounted, Concealed Wiring, Door Holder (Notifier FM998).....	196.79	40.64
				28 46 13 31-1429 Multicriteria Fire Detector <small>(28 46 13 31-0973)</small>		
				28 46 13 31-1430 EA Intelligent Addressable Combination Multi-Criteria Fire/Carbon Monoxide Detector With Flashscan (Notifier FCO-851).....	301.50	40.64
				28 46 13 31-1431 EA Intelligent Addressable Multicriteria Fire Detector (Notifier FSC-851).....	300.52	40.64
				Note: Detects fire, thermal, photo, CO and IR, with Flashscan.		
				28 46 13 31-1432 Modules <small>(28 46 13 31-0973)</small>		
				28 46 13 31-1433 EA Intelligent Addressable Dual Monitor/Dual Relay Module (Notifier FDRM-1).....	358.57	27.10
				28 46 13 31-1434 EA Addressable Firephone Control Module (Notifier FTM-1).....	222.52	27.10
				28 46 13 31-1435 DH Series Door Releases <small>(28 46 13 31-0973)</small>		
				28 46 13 31-1436 EA Semi-Flush, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120FPC).....	186.74	40.64
				28 46 13 31-1437 EA Semi-Flush, Plated Brass, Electromagnetic Door Holder (Notifier DH24120FB).....	198.73	40.64
				28 46 13 31-1438 EA Semi-Flush, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120FD).....	209.98	40.64
				28 46 13 31-1439 EA Surface Mounted, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120SPC).....	207.05	40.64
				28 46 13 31-1440 EA Surface Mounted, Plated Brass, Electromagnetic Door Holder (Notifier DH24120SB).....	216.84	40.64
				28 46 13 31-1441 EA Surface Mounted, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120SPD).....	225.15	40.64
				28 46 13 31-1442 EA Recessed, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120WPC).....	186.74	40.64
				28 46 13 31-1443 EA Recessed, Plated Brass, Electromagnetic Door Holder (Notifier DH24120WB).....	197.26	40.64
				28 46 13 31-1444 EA Recessed, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120WD).....	209.98	40.64
				28 46 13 31-1445 EA Floor Mounted, Single Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC1).....	236.90	40.64
				28 46 13 31-1446 EA Floor Mounted, Single Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB1).....	252.56	40.64
				28 46 13 31-1447 EA Floor Mounted, Single Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD1).....	270.67	40.64

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46	13 31-1448	EA	Floor Mounted, Double Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC2)	275.07	40.64
28 46	13 31-1449	EA	Floor Mounted, Double Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB2)	293.67	40.64
28 46	13 31-1450	EA	Floor Mounted, Double Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD2)	316.18	40.64
28 46	13 31-1451	EA	.5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE.5PC)	21.56	5.42
28 46	13 31-1452	EA	.5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE.5B)	21.56	5.42
28 46	13 31-1453	EA	.5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE.5D)	23.56	5.42
28 46	13 31-1454	EA	1" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1PC)	21.56	5.42
28 46	13 31-1455	EA	1" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1B)	21.56	5.42
28 46	13 31-1456	EA	1" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1D)	23.56	5.42
28 46	13 31-1457	EA	1.5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5PC)	22.58	5.42
28 46	13 31-1458	EA	1.5" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5APC)	22.58	5.42
28 46	13 31-1459	EA	1.5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1.5B)	23.56	5.42
28 46	13 31-1460	EA	1.5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1.5D)	24.69	5.42
28 46	13 31-1461	EA	2" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2PC)	24.69	5.42
28 46	13 31-1462	EA	2" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2APC)	24.69	5.42
28 46	13 31-1463	EA	2" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE2B)	25.72	5.42
28 46	13 31-1464	EA	2" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE2D)	25.72	5.42
28 46	13 31-1465	EA	3" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE3PC)	25.72	5.42
28 46	13 31-1466	EA	3" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE3B)	26.84	5.42
28 46	13 31-1467	EA	3" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE3D)	26.84	5.42
28 46	13 31-1468	EA	4" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4PC)	27.87	5.42
28 46	13 31-1469	EA	4" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4APC)	27.87	5.42
28 46	13 31-1470	EA	4" Adjustable Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE4AB)	29.00	5.42
28 46	13 31-1471	EA	4" Adjustable Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE4AD)	32.18	5.42
28 46	13 31-1472	EA	5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE5PC)	31.10	5.42
28 46	13 31-1473	EA	5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE5B)	30.02	5.42
28 46	13 31-1474	EA	5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE5D)	32.18	5.42
28 46	13 31-1475	EA	Catch Plate, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHCP)	30.11	8.13
28 46	13 31-1476	EA	Catch Plate, Plated Brass For Electromagnetic Door Holder (Notifier DHCPB)	31.14	8.13
28 46	13 31-1477	EA	Catch Plate, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHCPD)	34.42	8.13
28 46	13 31-1478	EA	Swivel Base, Powder Coated Chrome, For Electromagnetic Door Holder (Notifier DHSBPC)	55.70	8.13
28 46	13 31-1479	EA	Swivel Base, Plated Brass, For Electromagnetic Door Holder (Notifier DHSBB)	58.84	8.13
28 46	13 31-1480	EA	Swivel Base, Powder Coated Dark Bronze, For Electromagnetic Door Holder (Notifier DHSBD)	61.97	8.13
28 46	13 31-1481	EA	Surface Mounted Backbox, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHBBPC)	51.57	13.54
28 46	13 31-1482	EA	Surface Mounted Backbox, Plated Brass For Electromagnetic Door Holder (Notifier DHBBB)	53.72	13.54
28 46	13 31-1483	EA	Surface Mounted Backbox, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHBBD)	58.03	13.54
28 46	13 31-1484	EA	Swivel Base Mounting Drill Fixture For Electromagnetic Door Holder (Notifier DHDF)	302.43	
28 46 13 31-1485 First Command <small>(28 46 13 31-0973)</small>					
28 46	13 31-1486	EA	Black, 120 Volt AC, 50 Watt, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100)	5,111.67	677.33
28 46	13 31-1487	EA	Black, 220-240 Volt AC, 50 Watt, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100E)	5,155.74	677.33
28 46	13 31-1488	EA	Black, 120 Volt AC, 50 Watt, 25 VRMS Or 70 VRMS), Four Class A/B Speaker Circuits, Distributed (Remote) Audio Amplifier (Notifier NFC-50DA)	1,288.60	54.18
28 46	13 31-1489	EA	Black, 220-240 Volt AC, 50 Watt, 25 VRMS Or 70 VRMS), Four Class A/B Speaker Circuits, Distributed (Remote) Audio Amplifier (Notifier NFC-50DAE)	1,321.66	54.18
28 46	13 31-1490	EA	Black, 120 Volt AC, 125 Watt, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DA)	2,317.85	54.18
28 46	13 31-1491	EA	Black, 220-240 Volt AC, 125 Watt, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DAE)	2,391.31	54.18
28 46	13 31-1492	EA	50 Watt, 25 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-25 Volt)	841.26	27.10
28 46	13 31-1493	EA	50 Watt, 70 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-70 Volt)	841.26	27.10
28 46	13 31-1494	EA	Circuit Expander Module For NFC-50/125DA(E), Four Additional Class A/B Speaker Circuits (Notifier NFC-CE4)	449.59	27.10
28 46	13 31-1495	EA	Circuit Expander Module For NFC-50/100(E), Six Additional Class A/B Speaker Circuits (Notifier NFC-CE6)	486.89	27.10
28 46	13 31-1496	EA	Standalone Firefighter Telephone System (Notifier NFC-FFT)	1,726.46	54.18
Note: Includes onboard SLC supports up to 24 monitor modules, built-in handset, black.					
28 46	13 31-1497	EA	Local Operator Console (Notifier NFC-LOC)	1,691.19	54.18
Note: Includes built-in microphone, message and zone control switches, black.					
28 46	13 31-1498	EA	Black, Remote Microphone (Notifier NFC-RM)	481.02	
28 46	13 31-1499	EA	Remote Page Unit (Notifier NFC-RPU)	1,437.74	54.18
Note: Includes built-in microphone, message control switches, black.					
28 46	13 31-1500	EA	70 V Conversion Module For NFC-50/100 (Notifier NFC-XRM-70V)	340.95	27.10
28 46	13 31-1501	EA	Firefighters Phone Jack (Notifier N-FPJ)	155.73	8.13
28 46	13 31-1502	EA	Thumbtatch Option For NFC-LOC And NFC-RPU (Notifier THUMBLTCH)	43.27	8.13
28 46	13 31-1503	EA	Black, Trim Ring For NFC-RPU Cabinet (Notifier TR-6-B)	139.44	16.26
28 46 13 31-1504 LED Displays <small>(28 46 13 31-0973)</small>					
28 46	13 31-1505	EA	2.1" x 27" Programmable LED Indoor Display (Notifier ALPHA-215)	1,322.74	32.51
28 46	13 31-1506	EA	Instant And Integrated Emergency Notification System (Notifier LEDSIGN-GW)	1,857.93	43.35
28 46	13 31-1507	EA	4" x 45-1/2" Programmable LED Array, Mass Notification Device (Notifier MEGADOT)	1,879.24	43.35
28 46	13 31-1508	EA	8 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL8)	1,805.77	43.35
28 46	13 31-1509	EA	16 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL16)	2,518.38	43.35
28 46	13 31-1510	EA	LED Sign, Instant And Integrated Emergency Notification System (Notifier OAX2-24V)	1,915.97	43.35



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1511				Control Relays <small>(28 46 13 31-0973)</small>		
				28 46 13 31-1512 EA Single SPDT Relay With LED With Metal Backbox And Red Plastic Cover (Notifier MR-101/CR)	68.89	13.54
				28 46 13 31-1513 EA Single SPDT Relay With LED With Track Mounting Hardware (Notifier MR-101/T)	52.35	13.54
				28 46 13 31-1514 EA Four Position SPDT Relay With LEDs With Metal Backbox And Red Plastic Cover (Notifier MR-104/CR)	188.76	27.10
				28 46 13 31-1515 EA Four Position SPDT Relay With LED With Track Mounting Hardware (Notifier MR-104/T)	105.64	13.54
				28 46 13 31-1516 EA Four Position DSPDT Relay With LED With Track Mounting Hardware (Notifier MR-204/T)	125.95	13.54
				28 46 13 31-1517 EA 24 Volt DC, 30 Amperes Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-13C)	194.14	27.10
				28 46 13 31-1518 EA 120 Volt AC, 30 Amperes Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-14C)	194.14	27.10
				28 46 13 31-1519 EA Single DPDT Relay With LED With Metal Backbox And Red Plastic Cover (Notifier MR-201/CR)	99.20	27.10
				28 46 13 31-1520 EA Single DPDT Relay With LED With Track Mounting Hardware (Notifier MR-201/T)	56.66	13.54
				28 46 13 31-1521 EA Four Position DPDT Relay With LEDs With Metal Backbox And Red Plastic Cover (Notifier MR-204/CR)	206.37	27.10
				28 46 13 31-1522 EA 24 Volt DC / 24 Volt AC / 115 Volt AC, 10 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-1)	71.99	27.10
				28 46 13 31-1523 EA 12/24 Volt DC, 7 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-2)	71.99	27.10
				28 46 13 31-1524 EA 9 To 40 Volt DC, 10 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-4)	71.99	27.10
28 46 13 31-1525				Gamewell-FCI Fire Control Instruments <small>(28 46 13 31-0973)</small>		
28 46 13 31-1526				7100 Series And NetSOLO® <small>(28 46 13 31-1525)</small>		
28 46 13 31-1527				7100 Compact Analog Addressable Fire Alarm Control Panels <small>(28 46 13 31-1526)</small>		
				28 46 13 31-1528 EA Enclosure With Metal Door (Gamewell-FCI 7100-ENCL-M)	1,021.40	325.12
				28 46 13 31-1529 EA Basic Systems Kit, 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2)	4,443.05	541.87
				28 46 13 31-1530 EA Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2D)	4,875.04	541.87
				28 46 13 31-1531 EA Basic Systems Kit, 2 Signaling Line Circuits (SLC), 240 Volt AC (Gamewell-FCI BK-7100-2-E)	4,443.05	541.87
				28 46 13 31-1532 EA Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC), 240 Volt AC (Gamewell-FCI BK-7100-2D-E)	4,875.04	541.87
				28 46 13 31-1533 EA Removal And Replacement Of Board For 7100-1D (Gamewell-FCI BSM-7100-1)	1,439.34	
				28 46 13 31-1534 EA Removal And Replacement Of Board For 7100-2 (Gamewell-FCI BSM-7100-1D)	1,728.35	
				28 46 13 31-1535 EA Analog Loop Unit (Gamewell-FCI ALU)	1,728.35	54.18
28 46 13 31-1536				NetSOLO® Intelligent Network <small>(28 46 13 31-1526)</small>		
				28 46 13 31-1537 EA Intelligent Network Interface Module, Fiber Optic (Gamewell-FCI INI-7100-FO)	1,918.49	54.18
				Note: Mounted in 7100 panel.		
				28 46 13 31-1538 EA Intelligent Network Interface Module, Unshielded Twisted Pair (Gamewell-FCI INI-7100-UTP)	1,521.48	54.18
				Note: Mounted in 7100 panel.		
28 46 13 31-1539				Components And Accessories <small>(28 46 13 31-1526)</small>		
				28 46 13 31-1540 EA Remote Serial Annunciator, LCD Display (Gamewell-FCI LCD-7100)	942.22	40.64
				28 46 13 31-1541 EA Remote LED Driver Module, Outputs For Remote Panel Switches And 33 Remote LEDs (Gamewell-FCI LDM-7100)	710.74	54.18
				28 46 13 31-1542 EA Fiber Optic Line Driver Module (Gamewell-FCI FLD-1)	1,314.61	54.18
				28 46 13 31-1543 EA Class "A" Optional Module For Both Signaling Line Circuits (SLC) (Gamewell-FCI CAOM)	522.12	54.18
				28 46 13 31-1544 EA Enclosure Box (Gamewell-FCI EN-7100)	409.93	108.38
				28 46 13 31-1545 EA Serial Printer (Order RJAA To Db25 Connector Separately) (Gamewell-FCI P7200-TR-2)	1,380.58	27.10
28 46 13 31-1546				E3 Series® Basic System <small>(28 46 13 31-1525)</small>		
				28 46 13 31-1547 EA Intelligent Loop Interface, Mother Board (Gamewell-FCI ILI-MB-E3)	1,251.75	54.18
				28 46 13 31-1548 EA Intelligent Loop Interface, Supplemental (Gamewell-FCI ILI-S-E3)	1,072.84	54.18
				28 46 13 31-1549 EA Intelligent Loop Interface, Mother Board, XP95 Protocol (Gamewell-FCI ILI95-MB-E3)	1,251.75	54.18
				28 46 13 31-1550 EA Intelligent Loop Interface, Supplemental, XP95 Protocol (Gamewell-FCI ILI95-S-E3)	1,072.84	54.18
				28 46 13 31-1551 EA LCD Keypad Display (Gamewell-FCI LCD-E3)	799.20	54.18
				28 46 13 31-1552 EA Power Supply Module (Gamewell-FCI PM-9)	1,051.29	54.18
				28 46 13 31-1553 EA Transponder 9 Amperes Power Supply (Gamewell-FCI PM-9 INX)	882.46	54.18
				28 46 13 31-1554 EA Power Supply And Charger, 120/220 Volt AC (Gamewell-FCI PM-9G 9A)	879.20	27.10
				28 46 13 31-1555 EA Digital Alarm Communication Transmitter (Gamewell-FCI DACT-E3)	496.04	54.18
				28 46 13 31-1556 EA Network Repeater, Fiber Optic (Gamewell-FCI RPT-E3-FO)	1,350.89	54.18
				28 46 13 31-1557 EA Network Repeater, Unshielded Twisted Pair (Gamewell-FCI RPT-E3-UTP)	1,129.71	54.18
				28 46 13 31-1558 EA Local Operating Console (Gamewell-FCI 1100-0455)	753.55	40.64
				28 46 13 31-1559 EA Network Graphic Annunciator (Gamewell-FCI 1100-0505)	2,450.78	40.64
				28 46 13 31-1560 EA 70.7 VRMS Audio Output Series Amplifier Module (Gamewell-FCI AM-50-70)	963.47	54.18
				28 46 13 31-1561 EA INI-VGE-UTP Classic Enabled Voice Gateway Module (Gamewell-FCI 1100-1326)	2,963.01	54.18
				28 46 13 31-1562 EA 8-1/4" Wide x 10" High x 4-1/2" Deep Cabinet (Gamewell-FCI E3BB-BAA1)	661.57	108.38
				28 46 13 31-1563 EA C Size, Black, Command Center Enclosure (Gamewell-FCI E3BB-BC/INCC)	480.19	108.38
				28 46 13 31-1564 EA Double Size, Blank, Inner Door Panel (Gamewell-FCI E3-BP)	104.56	27.10
				28 46 13 31-1565 EA Programmable Switch Module (Gamewell-FCI ASM-16)	671.23	54.18
				28 46 13 31-1566 EA LED Driver module (Gamewell-FCI ANU-48)	671.23	54.18
				28 46 13 31-1567 EA Network Graphic Annunciator (Gamewell-FCI NGA)	2,051.88	40.64
28 46 13 31-1568				Addressable Devices, Module, Pulls And Accessories <small>(28 46 13 31-1525)</small>		
28 46 13 31-1569				Velociti® Series Sensors And Bases <small>(28 46 13 31-1566)</small>		
				28 46 13 31-1570 EA Analog Addressable Plug-In Ionization Smoke Sensor (Gamewell-FCI ASD-IL2F)	206.01	40.64
				28 46 13 31-1571 EA Analog Addressable Plug-In Photoelectric Smoke Sensor (Gamewell-FCI ASD-PL2F)	210.57	40.64

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46	13 31-1572	EA	Analog Addressable Plug-In Photoelectric Smoke Sensor With 135 Degree F Fixed Temperature Thermal Sensing (Gamewell-FCI ASD-PTL2F)	224.26	40.64
28 46	13 31-1573	EA	Addressable Plug-In Thermal Sensor, 15 Degree F Rate Of Rise, 135 Degree F (Gamewell-FCI ATD-RL2F)	169.50	40.64
28 46	13 31-1574	EA	Addressable Plug-In Thermal Sensor, 190 Degree F (Gamewell-FCI ATD-HL2F)	177.11	40.64
28 46	13 31-1575	EA	Addressable Plug-In Thermal Sensor, 135 Degree F (Gamewell-FCI ATD-L2F)	169.50	40.64
28 46	13 31-1576	EA	Addressable Plug-In Multi-Criteria Analog Sensor (Gamewell-FCI MCS-ACCLIMATE2F)	256.21	40.64
28 46	13 31-1577	EA	Analog Addressable Laser Smoke Sensor, Low Profile (Gamewell-FCI ASD-LS)	575.64	40.64
28 46	13 31-1578	EA	Analog Addressable Low Flow Photoelectric Smoke Duct Detector Without Relay (Gamewell-FCI ADPF)	477.71	67.74
28 46	13 31-1579	EA	Analog Addressable Low Flow Photoelectric Smoke Duct Detector With Relay (Gamewell-FCI ADPRF)	538.55	67.74
28 46	13 31-1580	EA	Removal And Replacement Of Duct Detector Board (Gamewell-FCI ADP-F-SB)	252.58	
28 46	13 31-1581	EA	Flanged Mounting Base, For Use With Analog Sensor Or Velocity Sensors (Gamewell-FCI ADB-FLF)	51.44	13.54
28 46	13 31-1582	EA	Harsh Environment Analog Addressable Photoelectric Smoke Sensor (Gamewell-FCI ASD-FILTREX-F)	621.27	40.64
28 46	13 31-1583	EA	Flanged Mounting Base, For Use With ASD-FILTREX Or ASD-FILTREX-F (Gamewell-FCI ADB-FILTREXF)	122.17	13.54
28 46	13 31-1584	EA	Addressable Single-Ended Reflected Beam Smoke Sensor (Gamewell-FCI ABD-2F)	2,216.04	81.28
28 46	13 31-1585		Velociti® Series Modules And Pull Station (28 46 13 31-1588)		
28 46	13 31-1586	EA	Style "B", Class "B" Addressable Monitor Module (Gamewell-FCI AMM-2F)	150.77	27.10
28 46	13 31-1587	EA	Dual Style "B", Class "B" Addressable Monitor Module (Gamewell-FCI AMM-2IF)	247.36	27.10
28 46	13 31-1588	EA	Style "D", Class "A" Addressable Monitor Module (Gamewell-FCI AMM-4F)	165.98	27.10
28 46	13 31-1589	EA	Subloop Style "D", Class "A" Addressable Monitor Module (Gamewell-FCI AMM-4SF)	236.71	27.10
28 46	13 31-1590	EA	Addressable Output Relay Control Module (Gamewell-FCI AOM-2RF)	196.40	27.10
28 46	13 31-1591	EA	Addressable Output Supervised Module (Gamewell-FCI AOM-2SF)	204.01	27.10
28 46	13 31-1592	EA	Addressable Double Action Station, With AMM-2SF Mini-Mod (Gamewell-FCI MS-7AF)	281.02	54.18
28 46	13 31-1593	EA	Addressable Single Action Pull Station (Gamewell-FCI MS-7ASF)	210.85	27.10
28 46	13 31-1594	EA	Telephone Filters (Gamewell-FCI AOM-TEL-FL)	33.66	5.42
28 46	13 31-1595		Components And Accessories (28 46 13 31-1568)		
28 46	13 31-1596	EA	Remote LED Annunciator Alarm (Gamewell-FCI RA400Z)	81.38	21.67
			Note: Mounts on single gang box.		
28 46	13 31-1597	EA	Up To 2' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-1.5)	40.68	10.84
28 46	13 31-1598	EA	>2' To 4' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-3)	43.73	10.84
28 46	13 31-1599	EA	>4' To 8' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-5)	52.20	13.54
28 46	13 31-1600	EA	>8' To 10' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-10)	85.75	16.26
28 46	13 31-1601	EA	Remote Test Station With LED Alarm And Magnet Test Switch (Gamewell-FCI RTS451)	128.53	21.67
			Note: Mounts on single gang box.		
28 46	13 31-1602		Fixed And Rate of Rise Heat Detectors (28 46 13 31-1568)		
28 46	13 31-1603	EA	135 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5601P)	107.14	40.64
28 46	13 31-1604	EA	194 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5602)	107.14	40.64
28 46	13 31-1605	EA	135 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5603)	104.48	40.64
28 46	13 31-1606	EA	194 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5604)	104.48	40.64
28 46	13 31-1607		NAC Expander/Power Supply (28 46 13 31-1568)		
28 46	13 31-1608	EA	FireForce 8 NAC Expander/Power Supply, 12/24 Volt DC, 8 Amperes, 4 Notification Appliance Circuits, Built-in Synchronization Protocols For Gamewell, Wheelock, Gentex, Faraday, And System Sensor (Gamewell-FCI FF8)	1,962.18	433.49
28 46	13 31-1609	EA	6A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-6)	1,673.17	433.49
28 46	13 31-1610	EA	9A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-9)	1,817.68	433.49
28 46	13 31-1611		Batteries And Accessories (28 46 13 31-1525)		
28 46	13 31-1612	EA	B-17R, 12 Volt DC, 17 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2010A)	315.81	27.10
28 46	13 31-1613	EA	B-55R, 12 Volt DC, 55 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2710A)	811.69	27.10
28 46	13 31-1614	EA	B-7R, 12 Volt DC, 7 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2311A)	163.70	27.10
28 46	13 31-1615	EA	BC-1, Battery Cabinet, Beige (Gamewell-FCI 1100-0653)	383.70	54.18
28 46	13 31-1616	EA	BC-1R, Battery Cabinet, Red (Gamewell-FCI 1100-0654)	383.70	54.18
28 46	13 31-1617	EA	12" High x 12" Wide x 24" Length Vented Steel Battery Cabinet With Hinged Key Lockable Cover (Gamewell-FCI GW70970)	339.59	54.18
28 46	13 31-1618		Electronic Door Holders (28 46 13 31-1525)		
			Note: Rixson products.		
28 46	13 31-1619	EA	XK-996, Door Holder Extender Kit, 1-1/2" Spacer (Gamewell-FCI 140-30000)	55.56	5.42
28 46	13 31-1620	EA	FM-980, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mount Door Holder (Gamewell-FCI 140-90000)	446.34	40.64
28 46	13 31-1621	EA	FM-981, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mount Holder For Double Doors (Gamewell-FCI 140-90001)	612.14	40.64
28 46	13 31-1622	EA	FM-990, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Low Profile Mount Door Holder (Gamewell-FCI 140-90002)	281.15	40.64
28 46	13 31-1623	EA	FM-996, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Surface Mount Door Holder (Gamewell-FCI 140-90003)	267.46	40.64
28 46	13 31-1624	EA	FM-997, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mount Door Holder (Gamewell-FCI 140-90004)	281.15	40.64
28 46	13 31-1625	EA	FM-998, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mount Door Holder With Concealed Wiring (Gamewell-FCI 140-90005)	280.54	40.64
28 46	13 31-1626		SpectrAlert® Advance Wall Mount 2-Wire Horn/Strobes (28 46 13 31-1525)		
			See CSI section 28 46 13 31-1836 for devices.		
28 46	13 31-1627		SpectrAlert® Advance Accessories (28 46 13 31-1525)		
			See CSI section 28 46 13 31-1836 for backboxes, 28 46 13 31-2096 for backboxes.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1628	Fire Alarm Programming <small>(28 46 13 31-1525)</small>	
Note: For device replacement projects only. Tasks not to be used on projects where a fire alarm panel is replaced.		
28 46 13 31-1629 EA Program And Test Up To 5 Fire Alarm Devices.....	500.00	
28 46 13 31-1630 EA Program And Test >5 To 20 Fire Alarm Devices.....	1,000.00	
28 46 13 31-1631 EA Program And Test >20 To 50 Fire Alarm Devices.....	2,000.00	
28 46 13 31-1632	Fire-Lite Fire Alarm <small>(28 46 13 31-0972)</small>	
28 46 13 31-1633	Addressable Control Panels <small>(28 46 13 31-1632)</small>	
28 46 13 31-1634 EA 25 Point Intelligent Control (Fire Lite MS-25).....	1,959.31	541.87
28 46 13 31-1635 EA 50 Point Intelligent Control (Fire Lite MS-9050UD).....	2,172.34	541.87
28 46 13 31-1636 EA 198-Point Intelligent Control (Fire Lite MS-9200UDLS).....	3,042.55	541.87
28 46 13 31-1637 EA 636-Point Intelligent Control (Fire Lite MS-9600UDLS).....	4,518.62	541.87
28 46 13 31-1638 EA 636-Point Intelligent Control (Fire Lite MS-9600UDLS).....	4,315.37	541.87
28 46 13 31-1639 EA IP And 4G Cellur Fire Alarm Communicator For Fire Alarm Control Panel (Fire-Lite IPGSM-4G).....	621.23	
28 46 13 31-1640	Silent Knight Fire Alarm <small>(28 46 13 31-0972)</small>	
28 46 13 31-1641 EA Addressable Fire Alarm Control Panel With Integrated Emergency Communication System (Silent Knight 5820XL-EVS).....	5,307.83	270.94
28 46 13 31-1642 EA Supervised Remote Command Unit (Silent Knight EVS-RCU).....	2,179.03	162.56
28 46 13 31-1643 EA 50 Watt Amplifier (Silent Knight EVS-50W).....	1,530.66	108.38
28 46 13 31-1644 EA 125 Watt Amplifier (Silent Knight EVS-125W).....	2,765.87	108.38
28 46 13 31-1645 EA Voice Evacuation System (Silent Knight SKE-450).....	2,643.45	108.38
28 46 13 31-1646 EA Fire Fighters Telephone (Silent Knight SK-FFT).....	2,184.34	108.38
28 46 13 31-1647 EA Multi-Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5820XL).....	2,211.81	162.56
28 46 13 31-1648 EA Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5808).....	1,650.89	108.38
28 46 13 31-1649 EA Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5700).....	1,249.85	108.38
28 46 13 31-1650 EA Hybrid Conventional Fire Alarm Control/Communicator System (Silent Knight 5600).....	1,070.66	108.38
28 46 13 31-1651 EA Combination Fire And CO Detector (Silent Knight SK-FIRE-CO).....	338.73	40.64
28 46 13 31-1652 EA Photoelectric Detector (Silent Knight SK-PHOTO).....	184.92	40.64
28 46 13 31-1653 EA Photoelectric Thermal Detector (Silent Knight SK-PHOTO-T).....	195.62	40.64
28 46 13 31-1654 EA Ionization Smoke Detector (Silent Knight SK-ION).....	196.83	40.64
28 46 13 31-1655 EA 135 Degree Fixed Temperature Detector (Silent Knight SK-HEAT).....	169.16	40.64
28 46 13 31-1656 EA 190 Degree Fixed Temperature Detector (Silent Knight SK-HEAT-HT).....	178.93	40.64
28 46 13 31-1657 EA 135 Degree Fixed Temperature Rate-of-Rise Detector (Silent Knight SK-HEAT-ROR).....	182.54	40.64
28 46 13 31-1658 EA Sounder Base (Silent Knight B200SR).....	115.22	13.54
28 46 13 31-1659 EA Intelligent Sounder Base (Silent Knight B200S).....	122.38	13.54
28 46 13 31-1660 EA Isolator Base (Silent Knight B224BI).....	95.00	13.54
28 46 13 31-1661 EA Relay Base (Silent Knight B224RB).....	96.17	13.54
28 46 13 31-1662 EA Multi-Criteria Photoelectric Detector With Thermal Sensing (Silent Knight SK-ACCLIMATE).....	200.56	40.64
28 46 13 31-1663 EA Photoelectric Duct Detector (Silent Knight SK-DUCT).....	334.25	40.64
28 46 13 31-1664 EA Single-Ended Reflected Beam Smoke Detector (Silent Knight SK-BEAM).....	1,226.85	40.64
28 46 13 31-1665 EA Single-Ended Reflected Beam Smoke Detector (Silent Knight SK-BEAM-T).....	1,403.92	40.64
28 46 13 31-1666 EA Dual Monitor Module (Silent Knight SK-MONITOR-2).....	241.86	40.64
28 46 13 31-1667 EA Supervised Control Module (Silent Knight SK-CONTROL).....	198.26	40.64
28 46 13 31-1668 EA Six Circuit Supervised Control Module (Silent Knight SK-CONTROL-6).....	705.67	54.18
28 46 13 31-1669 EA Relay Control Module (Silent Knight SK-RELAY).....	173.46	27.10
28 46 13 31-1670 EA Six Relay Control Module (Silent Knight SK-RELAY-6).....	681.33	54.18
28 46 13 31-1671 EA Zone Interface Module (Silent Knight SK-ZONE).....	202.85	40.64
28 46 13 31-1672 EA Six Zone Interface Module (Silent Knight SK-ZONE-6).....	820.70	54.18
28 46 13 31-1673 EA Monitor Module (Silent Knight SK-MONITOR).....	171.80	40.64
28 46 13 31-1674 EA 10 Input Monitor Module (Silent Knight SK-MON-10).....	794.17	54.18
28 46 13 31-1675 EA Monitor Module (Silent Knight SK-MINIMON).....	158.72	40.64
28 46 13 31-1676 EA Fault Isolator Module (Silent Knight SK-ISO).....	178.93	40.64
28 46 13 31-1677 EA Addressable Heat Sensor (Silent Knight SD505-AHS).....	175.38	40.64
28 46 13 31-1678 EA Analog Ionization Smoke Detector (Silent Knight SD505-AIS).....	192.26	40.64
28 46 13 31-1679 EA Addressable Photoelectric Smoke Detector (Silent Knight SD505-APS).....	178.93	40.64
28 46 13 31-1680 EA 6" Addressable Sounder Base (Silent Knight SD505-6SB).....	142.65	13.54
28 46 13 31-1681 EA 6" Addressable Relay Base (Silent Knight SD505-6RB).....	134.29	13.54
28 46 13 31-1682 EA 6" Isolator Base (Silent Knight SD505-6IB).....	121.20	13.54
28 46 13 31-1683 EA Addressable Input Module (Silent Knight SD500-AIM).....	177.76	40.64
28 46 13 31-1684 EA Addressable Notification Module (Silent Knight SD500-ANM).....	223.50	40.64
28 46 13 31-1685 EA Addressable Relay Module (Silent Knight SD500-ARM).....	198.26	40.64
28 46 13 31-1686 EA SLC Annunciator Driver Module (Silent Knight SD500-LED).....	806.31	81.28
28 46 13 31-1687 EA Loop Isolation Module (Silent Knight SD500-LIM).....	186.09	40.64
28 46 13 31-1688 EA Addressable Mini Input Module (Silent Knight SD500-MIM).....	148.28	27.10
28 46 13 31-1689 EA Single Action Addressable Pull Station (Silent Knight SD500-PS).....	194.11	27.10
28 46 13 31-1690 EA Dual Action Addressable Pull Station (Silent Knight SD500-PSDA).....	184.93	27.10
28 46 13 31-1691 EA Back Box (Silent Knight SK-PSSMBB).....	81.76	21.67
28 46 13 31-1692 EA Smoke Detector Module (Silent Knight SD500-SDM).....	209.73	40.64
28 46 13 31-1693 EA Addressable Smoke 4" Detector Base (Silent Knight SD505-4AB).....	48.88	13.54
28 46 13 31-1694 EA Addressable Smoke 6" Detector Base (Silent Knight SD505-6AB).....	48.88	13.54
28 46 13 31-1695 EA Addressable Duct Housing (Silent Knight SD505-DUCT).....	349.93	40.64
28 46 13 31-1696 EA Addressable Duct Housing With Built-In Relay (Silent Knight SD505-DUCTR).....	459.63	40.64
28 46 13 31-1697 EA Addressable Duct Detector Test Switch (Silent Knight SD505-DTS).....	183.71	40.64
28 46 13 31-1698 EA Intelligent Power Module (Silent Knight 5895XL).....	1,165.78	108.38
28 46 13 31-1699 EA Addressable Power Supply (Silent Knight 5496).....	810.74	81.28
28 46 13 31-1700 EA Relay Interface Board (Silent Knight 5883).....	311.63	27.10



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1701	EA		Remote LED Annunciator (Silent Knight 5865-3).....	641.51	54.18
28 46 13 31-1702	EA		Remote LED Annunciator (Silent Knight 5865-4).....	729.59	54.18
28 46 13 31-1703	EA		Remote LCD Annunciator (Silent Knight SK-5860).....	680.21	81.28
28 46 13 31-1704	EA		Serial/Parallel Printer Interface (Silent Knight 5824).....	450.44	27.10
28 46 13 31-1705	EA		LED Input/Output Module (Silent Knight / IntelliKnight 5880).....	525.92	40.64
28 46 13 31-1706	EA		Addressable Pull Station (Silent Knight SK-Pull-DA/SA).....	184.93	27.10
28 46 13 31-1707	EA		Digital Fire Communicator with Cabinet (Silent Knight SK-5104)	649.23	81.28
28 46 13 31-1708	EA		Communicator (Silent Knight IPGSM-4G).....	984.57	54.18
28 46 13 31-1709	EA		Ten Zone Conventional Fire Alarm Control Panel (Silent Knight SK-5208)	1,548.15	108.38
28 46 13 31-1710	EA		10 Zone Expander (Silent Knight SK-5217)	434.78	27.10
28 46 13 31-1711	EA		Remote Annunciator (Silent Knight SK-5235).....	426.28	54.18
28 46 13 31-1712	EA		Status Display Module (Silent Knight 5280).....	119.70	27.10
28 46 13 31-1713	EA		Serial/Parallel Module (Silent Knight 5824).....	504.64	54.18
28 46 13 31-1714	EA		Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4).....	864.93	108.38
28 46 13 31-1715	EA		Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4E).....	882.62	108.38
28 46 13 31-1716	EA		Dress Panel (Silent Knight SK-DP2/4).....	161.37	27.10
28 46 13 31-1717	EA		Class A Convertor (Silent Knight SK-CAC4).....	430.53	40.64
28 46 13 31-1718	EA		Transmitter Module (Silent Knight SK-4XTM).....	221.21	40.64
28 46 13 31-1719	EA		LED Interface Module (Silent Knight SK-4XLM).....	202.85	40.64
28 46 13 31-1720	EA		110 Volt AC, 3-6 Amperes, Transformer (Silent Knight SK-XRM24).....	212.45	27.10
28 46 13 31-1721	EA		Remote Annunciator (Silent Knight SK-RZA4).....	202.85	40.64
28 46 13 31-1722	EA		Zone Relay Module (Silent Knight SK-4XZM).....	218.91	40.64
28 46 13 31-1723	EA		Two Zone Conventional Fire Alarm Control Panel (Silent Knight SK-2).....	743.24	108.38
28 46 13 31-1724	EA		Remote Battery Box Accessory Cabinet (Silent Knight RBB)	184.93	27.10
28 46 13 31-1725	EA		Manual Pull Station (single action) (Silent Knight PS-SATK)	98.59	27.10
28 46 13 31-1726	EA		Manual Pull Station (dual action) (Silent Knight PS-DATK)	107.46	27.10
28 46 13 31-1727	EA		Manual Pull Station (dual action) (Silent Knight PS-DA)	104.97	27.10
28 46 13 31-1728	EA		Dual Action Manual Pull Station, Hex Key (Silent Knight PS-DAH)	92.81	27.10
28 46 13 31-1729	EA		Dual Action Listed Outdoor Manual Pull Station With Black Box (Silent Knight PS-DALOB).....	216.42	32.51
28 46 13 31-1730	EA		6 Amperes, 24 Volt DC, Distributed Power Module (with cabinet) (Silent Knight SK-5495).....	759.85	81.28
28 46 13 31-1731	EA		9 Amperes, 24 Volt DC, Distributed Power Module (with cabinet) (Silent Knight SK-5499).....	857.19	81.28
28 46 13 31-1732	EA		Detector (Silent Knight IDP-PhotoR).....	266.95	40.64
28 46 13 31-1733	EA		Monitoring Module (Silent Knight IDP).....	267.11	40.64
28 46 13 31-1734	EA		Cabinet (Silent Knight SK-5207).....	358.00	81.28
28 46 13 31-1735	EA		Innovair IDP-Product (Silent Knight Innovair IDP-Pduct)	542.78	27.10
28 46 13 31-1736	EA		I/O Input-Output Module (Silent Knight SK-2880)	738.22	27.10
28 46 13 31-1737	EA		Remote Annunciator (Silent Knight RA-2000).....	2,116.96	81.28
28 46 13 31-1738	EA		Power Supply (Silent Knight 5195/96)	1,324.54	27.10
28 46 13 31-1739	EA		8 Zone Expander (Silent Knight SK-5210).....	1,031.38	27.10
28 46 13 31-1740	EA		LCD Remote Annunciator (Silent Knight SK-5230).....	403.89	54.18
28 46 13 31-1741	EA		Ionization Smoke Detector (Silent Knight SK-ION).....	196.83	40.64
28 46 13 31-1742	EA		Addressable Relay Module (Silent Knight IDP-Relay)	227.86	40.64
28 46 13 31-1743	EA		Telephone Line Monitor (Silent Knight SK-7150).....	142.13	27.10
28 46 13 31-1744	EA		Serial Driver Board (Silent Knight SK-2884)	271.12	27.10
28 46 13 31-1745	EA		Smoke Detector Base (Silent Knight IDP-6AB).....	75.96	13.54
28 46 13 31-1746	EA		Mini Input Module (Silent Knight IDP-MINIMON).....	200.76	27.10
28 46 13 31-1747	EA		Status Display Module (Silent Knight SK-4180).....	757.76	27.10
28 46 13 31-1748	EA		8-Channel Digital Communicator (Silent Knight SK-1420).....	445.06	27.10
28 46 13 31-1749	EA		Serial Parallel Module (Silent Knight SK-4824).....	405.97	27.10
28 46 13 31-1750	EA		Power Supply (Silent Knight SK-5197 / SK-5198).....	1,519.98	27.10
28 46 13 31-1751	EA		4-Zone Fire Alarm Control Panel, Complete (Silent Knight SK-5204).....	2,562.03	108.38
28 46 13 31-1752	EA		Intelligent Ionization Smoke Detector (Silent Knight IDP-ION).....	276.72	40.64
28 46 13 31-1753	EA		Intelligent Photoelectric Smoke Detector (Silent Knight IDP-Photo)	227.86	40.64
28 46 13 31-1754	EA		Fire Slave Communicator Dialer (Silent Knight SK-5128).....	480.36	27.10
28 46 13 31-1755	EA		Intelligent Power Module (with cabinet) (Silent Knight SK-5496).....	810.74	81.28
28 46 13 31-1756			Alerton <small>(28 46 13 31)</small>		
28 46 13 31-1757	EA		UL Listed Surge Protector In CHS-M3 Or CPU2-640 Chassis (Alerton ESD-100).....	527.16	8.13
28 46 13 31-1758			Cooper Fire Alarm <small>(28 46 13 31)</small>		
28 46 13 31-1759	EA		Single Circuit Class A / Multiple B, 12 Or 24 Volt DC, Sync Module (Cooper DSM-12/24-R).....	174.56	27.10
28 46 13 31-1760	EA		Red Lens, 21 Joules, 24 Volt DC, Class I, Div 1, Groups C, D, NEMA 4X And 6, Strobe (Cooper EP109205-001).....	4,219.42	46.06
28 46 13 31-1761	EA		Red, 100 dB, 24 Volt DC, Class I, Div 1, Groups C, D, NEMA 4X, Multitone Horn (Cooper EP109206-002).....	5,568.70	46.06
28 46 13 31-1762	EA		Red Lens, 5 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-001).....	2,022.86	54.18
28 46 13 31-1763	EA		Clear Lens, 5 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-002).....	2,034.85	54.18
28 46 13 31-1764	EA		Amber Lens, 5 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-007).....	2,034.85	54.18
28 46 13 31-1765	EA		Red Lens, 10 Joules, 24 Volt DC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-001)	1,504.14	54.18
28 46 13 31-1766	EA		Amber Lens, 10 Joules, 120 Volt AC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-003).....	1,504.14	54.18
28 46 13 31-1767	EA		Red Lens, 10 Joules, 120 Volt AC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-004).....	1,504.14	54.18
28 46 13 31-1768	EA		Amber Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Backstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-005).....	2,034.85	54.18
28 46 13 31-1769	EA		Amber Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-006)	2,034.85	54.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1770 EA Red Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Blackstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-007)	2,034.85	54.18
28 46 13 31-1771 EA Red Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-008)	2,034.85	54.18
28 46 13 31-1772 EA Red Lens, 15 Joules, 24 Volt DC, Wire Guard, Blackstrap, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109203-002)	2,034.85	54.18
28 46 13 31-1773 EA Red Lens, 21 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-001).....	2,345.19	54.18
28 46 13 31-1774 EA Red Lens, 21 Joules, 24 Volt DC, Black Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-003).....	2,177.28	54.18
28 46 13 31-1775 EA Amber Lens, 21 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-005).....	2,177.28	54.18
28 46 13 31-1776 EA Red Lens, 21 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-006).....	2,177.28	54.18
28 46 13 31-1777 Light Engineered Displays Message Boards <small>(28 46 13 31)</small>		
28 46 13 31-1778 EA Two Message Sign, "Announcement" And "Evacuate" (LED SP-2/MNS)	869.83	32.51
28 46 13 31-1779 EA Four Message Sign, "Fire", "Weather", "Announcement", "E Voltuate" (LED SP-4).....	766.24	32.51
28 46 13 31-1780 STI Fire Alarm <small>(28 46 13 31)</small>		
28 46 13 31-1781 EA Pull Station Polycarbonate Cover, Semi Flush With Horn (STI-1100)	134.60	16.26
Note: Includes 9 Volt DC self contained battery.		
28 46 13 31-1782 EA Surface Mounted, Manual Pull Station Polycarbonate Cover With Horn (STI-1130)	146.51	16.26
28 46 13 31-1783 EA Flush Mounted, Manual Pull Station Polycarbonate Cover (STI-1200).....	88.25	16.26
28 46 13 31-1784 EA Surface Mounted, Horn Strobe Polycarbonate Cover (STI-1210D)	88.97	16.26
Note: For surface mounted horn strobes.		
28 46 13 31-1785 EA Flush Mounted, Horn Strobe Polycarbonate Cover (STI-1210E).....	79.59	16.26
28 46 13 31-1786 EA Strobe Damage Stopper And Open Backbox With Conduit Knockout (STI-1221D)	88.97	16.26
Note: For surface mounted strobe.		
28 46 13 31-1787 EA Strobe Damage Stopper And Open Backbox, Semi Flush (STI-1221E).....	72.55	16.26
28 46 13 31-1788 EA NEMA 4X Rated Polycarbonate Dome Cover (STI-1229)	164.54	16.26
28 46 13 31-1789 EA Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-1230)	111.15	16.26
Note: For surface mounted pull stations.		
28 46 13 31-1790 EA Backplate For Polycarbonate Cover (STI-1280)	55.31	16.26
28 46 13 31-1791 EA Conduit Gasket For Polycarbonate Cover (STI-3003)	41.17	16.26
28 46 13 31-1792 EA Conduit Spacer For Surface Mounted Polycarbonate Cover (STI-3100).....	56.10	16.26
28 46 13 31-1793 EA Weather Resistant, Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-3150).....	123.78	16.26
28 46 13 31-1794 EA 8.5" x 6.5" x 4.6", Thumb Lock, Lockable Enclosure (STI-7511A).....	103.22	16.26
28 46 13 31-1795 EA Flush Mounted, Smoke Detector Polycarbonate Cover (STI-8100).....	77.24	16.26
28 46 13 31-1796 EA Flush Mounted, Low Profile, Smoke Detector Steel Wire Cover (STI-9601).....	73.27	16.26
28 46 13 31-1797 EA Surface Mounted, Low Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9602)	70.93	16.26
28 46 13 31-1798 EA Flush Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9604).....	73.27	16.26
28 46 13 31-1799 EA Surface Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9605)	70.93	16.26
28 46 13 31-1800 EA Flush Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9609)	73.27	16.26
28 46 13 31-1801 EA Surface Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9610).....	70.93	16.26
28 46 13 31-1802 EA Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9625).....	135.32	16.26
28 46 13 31-1803 EA White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705)	66.20	16.26
28 46 13 31-1804 EA Red, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705-R)	96.98	16.26
28 46 13 31-1805 EA Flush Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9706)	98.53	16.26
28 46 13 31-1806 EA Surface Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9707).....	98.53	16.26
28 46 13 31-1807 EA White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708).....	72.55	16.26
28 46 13 31-1808 EA Red, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708-R).....	72.55	16.26
28 46 13 31-1809 EA White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9711)	66.20	16.26
28 46 13 31-1810 EA Flush Mounted, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9713).....	72.55	16.26
28 46 13 31-1811 EA White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9714).....	72.55	16.26
28 46 13 31-1812 EA Yellow, "High Threat", Push Button Station (STI SS-2201).....	119.33	8.13
28 46 13 31-1813 EA Gasket Kit For STI Covers (STI SUB-121).....	48.86	
28 46 13 31-1814 EA Universal Cover With Horn, Flush Mount, Momentary Button, Exit Label, Green Stopper Station (STI SS-2144XT)	173.92	16.26
28 46 13 31-1815 EA No Cover, Push And Turn-To-Reset Button, Evacuation Label, Yellow Stopper Station (STI SS-2201EV)	97.08	16.26
28 46 13 31-1816 EA No Cover, Push And Key-To-Rest Button, Emergency Label, Blue Stopper Station (STI SS-2400EM)	97.08	16.26
28 46 13 31-1817 EA Universal Cover With Horn, Flush Mount, Push And Key-To-Reset Button, Emergency Label, Blue Stopper Station (STI SS-2440EM).....	173.92	16.26
28 46 13 31-1818 EA Flush Mounted, Weather Stopper II (STI-1250)	104.12	16.26
28 46 13 31-1819 EA Flush Mounted, Clear, Universal Stopper (STI-13000NC).....	70.93	16.26
28 46 13 31-1820 EA Flush Mounted, Universal, Fire Label, Red, Stopper With Horn (STI-13020FR).....	118.01	16.26
28 46 13 31-1821 EA Surface Mounted, Clear, Universal Stopper (STI-13200NC)	84.46	16.26
28 46 13 31-1822 EA Surface Mounted, Fire Label, Red, Universal Stopper (STI-13210FR).....	91.67	16.26
28 46 13 31-1823 EA Surface Mounted, No Label, White, Universal Stopper (STI-13210NW).....	99.25	16.26
28 46 13 31-1824 EA Surface Mounted, No Label, Yellow, Universal Stopper (STI-13210NY).....	99.25	16.26
28 46 13 31-1825 EA Surface Mounted, Fire Label, Red, Universal Stopper With Horn (STI-13220FR).....	131.35	16.26
28 46 13 31-1826 EA Surface Mounted, No Label, Yellow, Universal Stopper With Horn (STI-13220NY)	138.57	16.26
28 46 13 31-1827 EA Surface Mounted, Fire Label, Red, Universal Stopper With Horn And Relay (STI-13230FR)	163.82	16.26
28 46 13 31-1828 EA Stopper II, Weather Gasket (STI-3002)	40.41	16.26
28 46 13 31-1829 EA Large, Break Glass Stopper (STI-4100)	98.53	16.26
28 46 13 31-1830 EA Stopper "G" Standard Break Glass Cover (STI-6100)	95.28	16.26
28 46 13 31-1831 EA Clear, Polycarbonate Enclosure With Deep Back Box And Exterior Key Lock (STI-7510A).....	92.21	16.26
28 46 13 31-1832 EA Polycarbonate Multi-Purpose Enclosure With Backplate And Key Lock (STI-7530).....	237.41	16.26
28 46 13 31-1833 EA Heated, Metal, Protective Cabinet (STI-7560AH)	3,250.36	16.26
28 46 13 31-1834 EA Stainless Steel Guard (STI-9604SS)	67.86	16.26
28 46 13 31-1835 EA 5-3/4" Width x 4-1/2" Depth, Motion Detector Guard (STI-9621)	61.55	16.26

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1836			System Sensor Fire Alarm (28 46 13 31)		
28 46 13 31-1837			Smoke Detectors (28 46 13 31-1836)		
28 46 13 31-1838	EA		Beam Detector Heater Kit (System Sensor BEAMHK)	54.39	5.42
28 46 13 31-1839	EA		Reflectors, Beam Detector Heater Kit (System Sensor BEAMHKR).....	229.10	5.42
			Note: Four used with long range kit.		
28 46 13 31-1840	EA		Projected Beam Smoke Detector Long Range Kit (System Sensor BEAMLRK)	278.68	54.18
28 46 13 31-1841	EA		Wall Or Ceiling Mounted, Projected Beam Smoke Detector Multi-Mount Kit (System Sensor BEAMMMK)	203.81	54.18
28 46 13 31-1842	EA		Projected Beam Smoke Detector Surface Mounted Kit (System Sensor BEAMSMK)	165.64	54.18
28 46 13 31-1843	EA		Two Wire, Photoelectric Smoke Detector (System Sensor 2W-B)	159.49	40.64
28 46 13 31-1844	EA		Two Wire, Photoelectric Smoke Detector With Thermal Sensor (System Sensor 2WT-B).....	152.48	40.64
28 46 13 31-1845	EA		Two Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 2WTA-B)	167.91	40.64
28 46 13 31-1846	EA		Four Wire, Photoelectric Smoke Detector (System Sensor 4W-B)	162.20	40.64
28 46 13 31-1847	EA		Four Wire, Photoelectric Smoke Detector With Thermal Sensor, 12/24 Volt DC (System Sensor 4WT-B)	162.27	40.64
28 46 13 31-1848	EA		Four Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 4WTA-B)	172.12	40.64
28 46 13 31-1849	EA		Four Wire, Photoelectric Smoke Detector With Isolated Thermal Sensor, Built In Sounder, Form C Relay (System Sensor 4WITAR-B).....	243.19	40.64
28 46 13 31-1850	EA		Photoelectric, Low-Profile, Smoke Detector Head (System Sensor 2151).....	141.13	27.10
28 46 13 31-1851	EA		Photoelectric With Thermal Sensor, Low-Profile, Smoke Detector Head (System Sensor 2151T).....	162.12	27.10
			Note: Requires B100 series base.		
28 46 13 31-1852	EA		Heavy Duty Multi-Mount Kit (System Sensor 6500-MMK)	263.96	13.54
28 46 13 31-1853	EA		Surface-Mount Kit For Use With Beam1224 And FSB-200 When Using 6500-MMK Heavy Duty Multi-Mount Kit (System Sensor 6500-SMK)	89.98	13.54
28 46 13 31-1854			Duct Smoke Detectors (28 46 13 31-1836)		
28 46 13 31-1855	EA		Two Wire Conventional Photoelectric Duct Detector (Includes 2151 Detector) (System Sensor D2)	337.71	40.64
28 46 13 31-1856	EA		Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120)	334.77	40.64
28 46 13 31-1857	EA		Watertight, Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120W)	439.57	46.06
28 46 13 31-1858	EA		Sensor Only, Four Wire Conventional Photoelectric Duct Detector (System Sensor D4S).....	220.57	27.10
28 46 13 31-1859	EA		Duct Accessory Coil (Required On DNR If A Remote Test Station Is Used) (System Sensor DCOIL)	59.81	8.13
28 46 13 31-1860	EA		Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNR)	189.18	21.67
28 46 13 31-1861	EA		Watertight, Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNRW).....	307.67	27.10
28 46 13 31-1862	EA		1' Steel Sampling Tube (System Sensor DST1)	34.30	10.84
28 46 13 31-1863	EA		1.5' Steel Sampling Tube (System Sensor DST1.5).....	37.62	10.84
28 46 13 31-1864	EA		3' Steel Sampling Tube (System Sensor DST3).....	42.66	10.84
28 46 13 31-1865	EA		5' Steel Sampling Tube (System Sensor DST5).....	51.77	13.54
28 46 13 31-1866	EA		10' Steel Sampling Tube (System Sensor DST10).....	81.35	16.26
28 46 13 31-1867	EA		1', Steel, Exhaust Tube Duct (System Sensor ETX).....	38.99	10.84
28 46 13 31-1868	EA		Remote Test Station For Duct Smoke Detector (System Sensor RTS151)	89.74	13.54
28 46 13 31-1869	EA		Detector Installation/Removal Tool Kit For 700 Series Detectors (System Sensor XR2).....	196.24	
28 46 13 31-1870	EA		Detector Installation/Removal Tool Kit For 800 And 355 Series Detectors (System Sensor XR2B).....	210.92	
28 46 13 31-1871			Heat Detectors (28 46 13 31-1836)		
28 46 13 31-1872	EA		Single Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5601P)	106.55	40.64
28 46 13 31-1873	EA		Single Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5602)	104.48	40.64
28 46 13 31-1874	EA		Dual Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5621)	121.90	40.64
28 46 13 31-1875	EA		Dual Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5622)	121.90	40.64
28 46 13 31-1876			Horns (28 46 13 31-1836)		
28 46 13 31-1877	EA		Red, Mini Horn (System Sensor MHR)	112.36	40.64
28 46 13 31-1878	EA		White, Mini Horn (System Sensor MHW).....	112.36	40.64
28 46 13 31-1879	EA		White, 12/24 Volt DC, Wall Mounted Horn Only (System Sensor HWL).....	113.87	40.64
28 46 13 31-1880	EA		Red, Outdoor, Wall Mounted Replacement Horn (System Sensor HRK-R)	143.31	46.06
28 46 13 31-1881	EA		Red, Interior, Wall Mounted, Horn (System Sensor HRL).....	113.87	40.64
28 46 13 31-1882	EA		Red, Outdoor, Wall Mounted, Horn (System Sensor HRK).....	159.49	40.64
28 46 13 31-1883			Wall Mounted Horns/Strobes (28 46 13 31-1836)		
28 46 13 31-1884	EA		Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RL)	154.69	40.64
28 46 13 31-1885	EA		Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RH)	204.21	40.64
28 46 13 31-1886	EA		Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK).....	229.14	46.06
28 46 13 31-1887	EA		Plain, Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-P).....	223.76	46.06
28 46 13 31-1888	EA		Outdoor Backbox, Red, 120 Volt AC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-120).....	234.28	46.06
28 46 13 31-1889	EA		Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK).....	228.41	46.06
28 46 13 31-1890	EA		Plain, Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-P)	216.91	46.06
28 46 13 31-1891	EA		Outdoor, Red, , Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-R).....	188.70	40.64



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1892 EA Plain, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RL-P)	151.26	40.64
28 46 13 31-1893 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WL)	154.69	40.64
28 46 13 31-1894 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH)	205.71	40.64
28 46 13 31-1895 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK)	221.80	46.06
28 46 13 31-1896 EA Plain, Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK-P)	223.76	46.06
28 46 13 31-1897 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH-P)	204.21	40.64
28 46 13 31-1898 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK)	235.75	46.06
28 46 13 31-1899 EA Plain, Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK-P)	216.91	46.06
28 46 13 31-1900 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WL-P)	150.53	40.64
28 46 13 31-1901 EA Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RL)	185.52	40.64
28 46 13 31-1902 EA Red, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P4RH)	202.80	40.64
28 46 13 31-1903 EA Outdoor Backbox, Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK)	234.10	46.06
28 46 13 31-1904 EA Outdoor, Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK-R)	212.02	46.06
28 46 13 31-1905 EA White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4WL)	185.52	40.64
28 46 13 31-1906 EA Outdoor Backbox, White, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor PC4WHK)	260.03	46.06
28 46 13 31-1907 EA Outdoor Backbox, White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4WK)	224.25	46.06
28 46 13 31-1908 Ceiling Mounted Horns/Strobes <small>(28 46 13 31-1836)</small>		
28 46 13 31-1909 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RL)	157.13	40.64
28 46 13 31-1910 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RH)	207.21	40.64
28 46 13 31-1911 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RHK)	221.80	46.06
28 46 13 31-1912 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RK)	215.44	46.06
28 46 13 31-1913 EA Plain, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2R-P)	196.72	40.64
28 46 13 31-1914 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WL)	157.13	40.64
28 46 13 31-1915 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH)	207.21	40.64
28 46 13 31-1916 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WHK)	221.80	46.06
28 46 13 31-1917 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH-P)	207.21	40.64
28 46 13 31-1918 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WK)	215.44	46.06
28 46 13 31-1919 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2W-P)	195.22	40.64
28 46 13 31-1920 EA Red, Ceiling Mounted, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Horn/Strobe (System Sensor PC4RL)	186.74	40.64
28 46 13 31-1921 EA Red, Ceiling Mounted, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Horn/Strobe (System Sensor PC4RH)	202.80	40.64
28 46 13 31-1922 EA White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC4WL)	186.74	40.64
28 46 13 31-1923 Wall Mounted Strobes <small>(28 46 13 31-1836)</small>		
28 46 13 31-1924 EA White Strobe Expander Plate Backbox Skirt (System Sensor SEP-BBSW)	71.05	13.54
28 46 13 31-1925 EA White Strobe Expander Plate With Standard Candela (System Sensor SEP-SW)	136.96	13.54
28 46 13 31-1926 EA Red, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRL)	139.76	40.64
28 46 13 31-1927 EA Red, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRH)	171.52	40.64
28 46 13 31-1928 EA Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK)	208.83	46.06
28 46 13 31-1929 EA Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK)	206.42	46.06
28 46 13 31-1930 EA Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-P)	199.29	46.06
28 46 13 31-1931 EA Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-R)	175.31	46.06
28 46 13 31-1932 EA Red, Plain, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRL-P)	138.54	40.64
28 46 13 31-1933 EA White, 12/24 Volt DC, Selectable (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL)	139.27	40.64

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1934 EA White, Amber Lens, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-ALERT)	150.77	40.64
28 46 13 31-1935 EA White, Clear Lens, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-CLR-ALERT)	184.72	40.64
28 46 13 31-1936 EA White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH)	193.72	40.64
28 46 13 31-1937 EA White, Amber Lens, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-ALERT)	192.22	40.64
28 46 13 31-1938 EA White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-P)	192.22	40.64
28 46 13 31-1939 EA Red, Plain, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-P)	202.23	46.06
28 46 13 31-1940 EA White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK)	200.03	46.06
28 46 13 31-1941 EA White, Plain, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK-P)	201.74	46.06
28 46 13 31-1942 EA Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-R)	207.56	46.06
28 46 13 31-1943 EA White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK)	198.07	46.06
28 46 13 31-1944 EA White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK-P)	199.05	46.06
28 46 13 31-1945 EA White, Plain, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-P)	138.29	40.64
28 46 13 31-1946 EA Amber, Wall Strobe Lens Attachment (System Sensor LENS-A)	24.30	5.42
28 46 13 31-1947 EA Blue, Wall Strobe Lens Attachment (System Sensor LENS-B)	24.30	5.42
28 46 13 31-1948 EA Green, Wall Strobe Lens Attachment (System Sensor LENS-G)	24.30	5.42
28 46 13 31-1949 EA Red, Wall Strobe Lens Attachment (System Sensor LENS-R)	24.30	5.42
28 46 13 31-1950 Ceiling Mounted Strobes <small>(28 46 13 31-1836)</small>		
28 46 13 31-1951 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCRL)	142.45	40.64
28 46 13 31-1952 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRH)	173.93	40.64
28 46 13 31-1953 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRHK)	208.83	46.06
28 46 13 31-1954 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCRK)	208.83	46.06
28 46 13 31-1955 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCWL)	142.45	40.64
28 46 13 31-1956 EA Clear Lens, White, Two Wire, 12/24 Volt DC, Standard Candela, Ceiling Mounted Strobe (System Sensor SCWL-CLR-ALERT)	152.24	40.64
28 46 13 31-1957 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCWH)	196.72	40.64
28 46 13 31-1958 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCWHK)	200.03	46.06
28 46 13 31-1959 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCWK)	198.07	46.06
28 46 13 31-1960 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCW-P)	174.23	40.64
28 46 13 31-1961 EA Blue, Ceiling Strobe Lens Attachment (System Sensor LENS-BC)	24.30	5.42
28 46 13 31-1962 EA Red, Ceiling Strobe Lens Attachment (System Sensor LENS-RC)	24.30	5.42
28 46 13 31-1963 EA Green, Ceiling Strobe Lens Attachment (System Sensor LENS-GC)	24.30	5.42
28 46 13 31-1964 EA Amber, Ceiling Strobe Lens Attachment (System Sensor LENS-AC)	24.30	5.42
28 46 13 31-1965 Wall Mounted Speakers <small>(28 46 13 31-1836)</small>		
28 46 13 31-1966 EA 24 Volt DC, 4 Field Selectable Sound Pulse Patterns, Directional Sound Speaker With Voice And Integral Audio Amplifier (System Sensor PF24V)	366.09	40.64
28 46 13 31-1967 EA Red, Wall Mounted Speaker (System Sensor SPRL)	119.94	40.64
28 46 13 31-1968 EA Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK)	191.39	40.64
28 46 13 31-1969 EA Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK-R)	159.65	46.06
28 46 13 31-1970 EA Red, High dB, Wall Mounted Speaker (System Sensor SPRV)	141.44	40.64
28 46 13 31-1971 EA White, Wall Mounted Speaker (System Sensor SPWL)	119.94	40.64
28 46 13 31-1972 EA White, Outdoor, Wall Mounted Speaker (System Sensor SPWK)	201.25	46.06
28 46 13 31-1973 EA White, High dB, Wall Mounted Speaker (System Sensor SPWV)	135.01	40.64
28 46 13 31-1974 Ceiling Mounted Speakers <small>(28 46 13 31-1836)</small>		
28 46 13 31-1975 EA Red, Ceiling Mounted Speaker (System Sensor SPCRL)	117.25	40.64
28 46 13 31-1976 EA Outdoor, Ceiling Mounted Speaker (System Sensor SPCRK)	190.17	40.64
28 46 13 31-1977 EA Red, High dB, Ceiling Mounted Speaker (System Sensor SPCRV)	141.44	40.64
28 46 13 31-1978 EA White, Ceiling Mounted Speaker (System Sensor SPCWL)	119.45	40.64
28 46 13 31-1979 EA White, High dB, Ceiling Mounted Speaker (System Sensor SPCWV)	156.24	40.64
28 46 13 31-1980 EA White, Outdoor, Ceiling Mounted Speaker (System Sensor SPCWK)	202.23	46.06
28 46 13 31-1981 Wall Mounted Speakers/Strobes <small>(28 46 13 31-1836)</small>		
28 46 13 31-1982 EA White Speaker Strobe Expander Plate With Standard Candela (System Sensor SEP-SPSWL)	135.25	13.54
28 46 13 31-1983 EA White Speaker Strobe Expander Plate Backbox Skirt (System Sensor SPSEP-BBSWL)	68.11	13.54



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1984 EA Red, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRL).....	193.84	40.64
28 46 13 31-1985 EA Red, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRH).....	217.24	40.64
28 46 13 31-1986 EA Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK).....	289.44	46.06
28 46 13 31-1987 EA Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-P).....	277.59	46.06
28 46 13 31-1988 EA Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-R).....	236.97	46.06
28 46 13 31-1989 EA Red, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRL-P).....	191.63	40.64
28 46 13 31-1990 EA Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRV).....	210.02	40.64
28 46 13 31-1991 EA White, Amber Lens, Wall Mounted, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL-ALERT).....	194.81	40.64
28 46 13 31-1992 EA White, Clear Lens, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-CLR-ALERT).....	281.02	46.06
28 46 13 31-1993 EA White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL).....	193.84	40.64
28 46 13 31-1994 EA White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH).....	250.69	40.64
28 46 13 31-1995 EA White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH-P).....	250.69	40.64
28 46 13 31-1996 EA White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK).....	290.80	46.06
28 46 13 31-1997 EA White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-P).....	276.61	46.06
28 46 13 31-1998 EA White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL-P).....	190.65	40.64
28 46 13 31-1999 EA White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV).....	241.69	40.64
28 46 13 31-2000 EA White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV-P).....	241.69	40.64
28 46 13 31-2001 Ceiling Mounted Speakers/Strobes (28 46 13 31-1836)		
28 46 13 31-2002 EA Red, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCRL).....	180.62	40.64
28 46 13 31-2003 EA Red, Selectable Candela (135, 150, 177, 185) Candela, High-Candela, Ceiling Mounted Speaker/Strobe (System Sensor SPSCRH).....	219.65	40.64
28 46 13 31-2004 EA Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115), Ceiling Mounted Speaker/Strobe (System Sensor SPSCRV).....	210.02	40.64
28 46 13 31-2005 EA White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWL).....	180.62	40.64
28 46 13 31-2006 EA White, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWL-CLR-ALERT).....	192.86	40.64
28 46 13 31-2007 EA White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWH).....	250.69	40.64
28 46 13 31-2008 EA White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWHK).....	292.27	46.06
28 46 13 31-2009 EA White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWH-P).....	250.69	40.64
28 46 13 31-2010 EA White, Outdoor, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWK-CLR-ALERT).....	281.51	46.06
28 46 13 31-2011 EA White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWK).....	290.80	46.06
28 46 13 31-2012 EA White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWL-P).....	180.62	40.64
28 46 13 31-2013 EA White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWV).....	241.69	40.64
28 46 13 31-2014 EA White, High-Candela/High dB, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWVH).....	250.69	40.64
28 46 13 31-2015 EA White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWV-P).....	241.69	40.64
28 46 13 31-2016 EA High-Candela/High dB, Ceiling Mounted Speaker/Strobe (System Sensor SPSCRVH).....	250.25	40.64
28 46 13 31-2017 Electric Alarm Bells (28 46 13 31-1836)		
28 46 13 31-2018 EA 6" 24 Volt DC Alarm Bell (System Sensor SSM24-6).....	148.57	40.64
28 46 13 31-2019 EA 8" 24 Volt DC Alarm Bell (System Sensor SSM24-8).....	160.56	40.64
28 46 13 31-2020 EA 10" 24 Volt DC Alarm Bell (System Sensor SSM24-10).....	173.77	40.64
28 46 13 31-2021 EA 6" 120 Volt AC Alarm Bell (System Sensor SSV120-6).....	166.76	41.18
28 46 13 31-2022 EA 8" 120 Volt AC Alarm Bell (System Sensor SSV120-8).....	168.73	41.18
28 46 13 31-2023 EA 10" 120 Volt AC Alarm Bell (System Sensor SSV120-10).....	181.22	41.18
28 46 13 31-2024 Device Bases (28 46 13 31-1836)		
28 46 13 31-2025 EA High Or Low Volume Output, Code 3 Or 4, Continuous, March Or Custom Tone, Intelligent, Addressable, Programmable Plug-In Sounder Base (System Sensor B200S).....	115.43	13.54
28 46 13 31-2026 EA Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base (System Sensor B200SR).....	111.76	13.54
28 46 13 31-2027 EA Intelligent Isolator Base (System Sensor B224BI).....	91.94	13.54
28 46 13 31-2028 EA Intelligent Relay Base (System Sensor B224RB).....	92.92	13.54

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2029 EA Flangeless, Intelligent Detector Base (System Sensor B501).....	57.64	13.54
28 46 13 31-2030 Boxes, Plates And Decals (28 46 13 31-1836)		
28 46 13 31-2031 EA Two Wire, Flanged, 12/24 Volt DC, Low-Profile, Adapter Base (System Sensor B110LP).....	51.84	13.54
28 46 13 31-2032 EA Four Wire, Form A And C, 24 Volt DC Low-Profile, Adapter Base (System Sensor B112LP).....	105.22	16.26
28 46 13 31-2033 EA 120 Volt AC, Mounting Plate, For Spectralert Advance Devices (System Sensor MP120K).....	51.76	13.54
28 46 13 31-2034 EA Red, Wall Mounted, Metal, Weatherproof Backbox (System Sensor MWBB).....	78.29	13.54
28 46 13 31-2035 EA White, Ceiling Mounted, Metal, Weatherproof Backbox (System Sensor MWBBCW).....	85.34	13.54
28 46 13 31-2036 EA White, Wall Mounted, Metal, Weatherproof Backbox (System Sensor MWBBW).....	78.29	13.54
28 46 13 31-2037 EA Red Retrofit Plate (System Sensor RFP).....	36.03	8.13
28 46 13 31-2038 EA White Retrofit Plate (System Sensor RFPW).....	35.74	8.13
28 46 13 31-2039 EA Red, Wall Mounted, Weatherproof Backbox (System Sensor SA-WBB).....	66.05	13.54
28 46 13 31-2040 EA Red, Ceiling Mounted, Weatherproof Backbox (System Sensor SA-WBBC).....	74.47	13.54
28 46 13 31-2041 EA Red, Ceiling Mounted, Surface Mounted, Backbox (System Sensor SBBCL).....	52.35	13.54
28 46 13 31-2042 EA White, Ceiling Mounted, Surface Mounted, Backbox (System Sensor SBBCLW).....	52.35	13.54
28 46 13 31-2043 EA Red, Wall Mounted, Surface Mounted, Backbox (System Sensor SBBRL).....	45.21	13.54
28 46 13 31-2044 EA Red, Wall Mounted, Surface Mounted, Backbox For Speaker (System Sensor SBBSPRL).....	50.59	13.54
28 46 13 31-2045 EA White, Wall Mounted, Surface Mounted, Backbox For Speaker (System Sensor SBBSPWL).....	50.59	13.54
28 46 13 31-2046 EA White, Wall Mounted, Surface Mounted, Backbox (System Sensor SBBWL).....	45.21	13.54
28 46 13 31-2047 EA Surface Mounted Box For Intelligent Control Or Monitor Modules (System Sensor SMB500).....	51.09	13.54
28 46 13 31-2048 EA Surface Mounted Box For 400 And 500 Series Detectors And Sounder Bases (System Sensor SMB600).....	45.45	13.54
28 46 13 31-2049 EA Red, Wall Mounted Horn/Strobe Trim Ring (System Sensor TR-HS).....	16.44	5.42
28 46 13 31-2050 EA Red Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-R).....	24.49	
28 46 13 31-2051 EA Red Decals, Three Pack, Spectralert Advance Ceiling Products (System Sensor DECAL-RC).....	34.09	
28 46 13 31-2052 EA White Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-W).....	24.49	
28 46 13 31-2053 EA White Decals, Three Pack, Spectralert Advance Wall Products (System Sensor DECAL-WC).....	34.09	
28 46 13 31-2054 Chimes (28 46 13 31-1836)		
28 46 13 31-2055 EA Red, 12/24 Volt DC, Ceiling Or Wall Mounted Chime (System Sensor CHRL).....	127.93	40.64
28 46 13 31-2056 EA White, 12/24 Volt DC, Ceiling Or Wall Mounted Chime (System Sensor CHWL).....	143.43	40.64
28 46 13 31-2057 Chime/Strobes (28 46 13 31-1836)		
28 46 13 31-2058 EA Red, 15, 15/75, 30, 75, 110 Multi-Candela, 24 Volt DC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSRL).....	208.52	40.64
28 46 13 31-2059 EA White, 15, 15/75, 30, 75, 110 Multi-Candela, 24 Volt DC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSWL).....	208.52	40.64
28 46 13 31-2060 Carbon Monoxide Detectors (28 46 13 31-1836)		
28 46 13 31-2061 EA Conventional Carbon Monoxide Detector (System Sensor CO1224).....	260.58	54.18
28 46 13 31-2062 EA Round, Sounder And Trouble Relay With Test Function, 12/24 Volt DC, Conventional Carbon Monoxide Detector (System Sensor CO1224TR).....	206.56	40.64
28 46 13 31-2063 EA CO Detector Plate For Replacing Round CO Detectors With The CO1224T (System Sensor CO-PLATE).....	16.75	5.42
28 46 13 31-2064 Switches (28 46 13 31-1836)		
28 46 13 31-2065 EA SPDT Switch, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-1).....	188.20	21.67
28 46 13 31-2066 EA Two SPDT Switches, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-2).....	210.23	21.67
28 46 13 31-2067 EA SPDT Switch, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-1).....	188.20	21.67
28 46 13 31-2068 EA Two SPDT Switches, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-2).....	210.23	21.67
28 46 13 31-2069 EA Outside Screw And Yoke Valve, Two SPDT, Supervisory Switch (System Sensor OSY2).....	196.03	21.67
28 46 13 31-2070 EA Post Indicator Butterfly Valve, SPDT, Supervisory Switch (System Sensor PIBV2).....	183.31	21.67
28 46 13 31-2071 Low Frequency Sounders (28 46 13 31-1836)		
28 46 13 31-2072 EA Red, Low Frequency Sounder (System Sensor HR-LF).....	198.22	40.64
28 46 13 31-2073 EA White, Low Frequency Sounder (System Sensor HW-LF).....	198.22	40.64
28 46 13 31-2074 Sync Modules (28 46 13 31-1836)		
28 46 13 31-2075 EA Red, 12/24 Volt DC, Sync Module (System Sensor MDL3R).....	149.61	27.10
28 46 13 31-2076 EA White, 12/24 Volt DC, Sync Module (System Sensor MDL3W).....	147.16	27.10
28 46 13 31-2077 Relays (28 46 13 31-1836)		
28 46 13 31-2078 EA Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10E).....	84.65	21.67
28 46 13 31-2079 EA SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10T).....	54.60	13.54
28 46 13 31-2080 EA 4-Gang Relay, Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14E).....	159.23	13.54
28 46 13 31-2081 EA 4-Gang Relay, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14T).....	117.14	13.54
28 46 13 31-2082 EA Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20E).....	91.21	21.67
28 46 13 31-2083 EA DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20T).....	56.36	13.54
28 46 13 31-2084 EA 4-Gang Relay, Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24E).....	179.29	13.54
28 46 13 31-2085 EA 4-Gang Relay, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24T).....	134.03	13.54
28 46 13 31-2086 EA 18 To 35 Volt DC, 18 To 35 Volt AC, 120 Volt AC, SPDT Multivoltage Relay (System Sensor PR-1).....	47.46	13.54
28 46 13 31-2087 EA 10 To 40 Volt DC, SPDT Multivoltage Relay (System Sensor PR-2).....	47.46	13.54
28 46 13 31-2088 EA Redundant Power Input, 10 To 40 Volt DC, SPDT Multivoltage Relay (System Sensor PR-3).....	47.46	13.54



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2089 Remote Annunciator <small>(28 46 13 31-1836)</small>		
28 46 13 31-2090 EA Remote Annunciator (System Sensor RA100Z)	112.11	40.64
28 46 13 31-2091 EA Remote LED Annunciator (System Sensor RA100ZA)	110.35	40.64
28 46 13 31-2092 Remote Test Station <small>(28 46 13 31-1836)</small>		
28 46 13 31-2093 EA Remote Test Station With Key (System Sensor RTS151KEY)	175.73	40.64
28 46 13 31-2094 Fire Alarm Digital Cellular Communicator <small>(28 46 13 31)</small>		
28 46 13 31-2095 EA Digital Cellular Communicator With Antenna And Red Enclosure (Telular Telguard TG-7FS)	696.48	54.18
28 46 13 31-2096 Wheelock Fire Alarm <small>(28 46 13 31)</small>		
28 46 13 31-2097 Ceiling Mounted Chimes/Strobes <small>(28 46 13 31-2096)</small>		
28 46 13 31-2098 EA White, Round, Selectable Candela (15, 30, 75, 100 Candela), 24 Volt DC, Ceiling Mounted Chime/Strobe (Wheelock CH90-24MCC-FW)	234.19	40.64
28 46 13 31-2099 Wall Mounted Chimes/Strobes <small>(28 46 13 31-2096)</small>		
28 46 13 31-2100 EA Red, Selectable Candela (15, 30, 75, 110 Candela), 24 Volt DC, Wall Mounted Chime/Strobe (Wheelock CH70- 24MCW-FR)	234.19	40.64
28 46 13 31-2101 EA White, Selectable Candela (15, 30, 75, 110 Candela), 24 Volt DC, Wall Mounted Chime/Strobe (Wheelock CH70- 24MCW-FW)	234.19	40.64
28 46 13 31-2102 Ceiling Mounted Horns/Strobes <small>(28 46 13 31-2096)</small>		
28 46 13 31-2103 EA Red, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSRC)	151.59	40.64
28 46 13 31-2104 EA White, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSWC)	170.83	40.64
28 46 13 31-2105 Wall Mounted Horns/Strobes <small>(28 46 13 31-2096)</small>		
28 46 13 31-2106 EA Red, Weatherproof, 24 Volt DC, 75 Candela, Wall Mounted, Horn/Strobe (Wheelock ASWP-2475W-FR)	154.85	40.64
28 46 13 31-2107 EA Red, 24 Volt DC, 15/75 Candela, Continuous Or Code 3 Tone, Wall Mounted Horn/Strobe (Wheelock HS4- 241575 Watt-FR)	252.19	40.64
28 46 13 31-2108 EA Red, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4- 24MCW-FR)	205.09	40.64
28 46 13 31-2109 EA White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4- 24MCW-FW)	205.09	40.64
28 46 13 31-2110 EA Red, Flush, 24 Volt AC, 15/75 Candela, Sync/Non-Sync, Wall Mounted Horn/Strobe (Wheelock MT-241575 Watt- FR)	238.70	40.64
28 46 13 31-2111 EA Red, 24 Volt AC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock MT-24MCW-FR)	173.49	40.64
28 46 13 31-2112 EA Red, 115 Volt AC, Wall Mounted Horn/Strobe (Wheelock MT4-115-WH-VFR)	171.57	40.64
28 46 13 31-2113 EA Red, Weatherproof, 24 Volt DC, 75 Candela, Wall Mounted Horn/Strobe (Wheelock MTWP-2475W-FR)	189.32	46.06
28 46 13 31-2114 EA Red, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSR)	154.08	40.64
28 46 13 31-2115 EA White, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSW)	154.08	40.64
28 46 13 31-2116 Ceiling Mounted Strobes <small>(28 46 13 31-2096)</small>		
28 46 13 31-2117 EA Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FR)	144.67	40.64
28 46 13 31-2118 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FW)	144.67	40.64
28 46 13 31-2119 EA Red, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STRC)	154.69	40.64
28 46 13 31-2120 EA White, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STWC)	138.91	40.64
28 46 13 31-2121 Wall Mounted Strobes <small>(28 46 13 31-2096)</small>		
28 46 13 31-2122 EA Red, Multi-Candela, 24 Volt DC, Wall Mounted Strobe (Wheelock AMT-24MCW-FR)	219.97	40.64
28 46 13 31-2123 EA Red, Retrofit Plate, 12 Volt DC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSSP-121575W-FR)	176.56	40.64
28 46 13 31-2124 EA Red, 24 Volt DC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSS-241575W-FR)	199.72	40.64
28 46 13 31-2125 EA Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FR)	143.14	40.64
28 46 13 31-2126 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FW)	143.14	40.64
28 46 13 31-2127 EA Red, Retrofit Plate, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSSP- 24MCW-FR)	153.12	40.64
28 46 13 31-2128 EA Outdoor, Red, 24 Volt DC, 75 Candela, Wall Mounted Strobe (Wheelock RSSWP-2475W-FR)	159.74	46.06
Note: Requires WPSBB-R.		
28 46 13 31-2129 EA Red, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Strobe (Wheelock STR)	139.87	40.64
28 46 13 31-2130 EA White, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Strobe (Wheelock STW)	139.87	40.64
28 46 13 31-2131 Ceiling Mounted Speakers/Strobes <small>(28 46 13 31-2096)</small>		
28 46 13 31-2132 EA Red, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FR)	176.56	40.64
28 46 13 31-2133 EA White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FW)	176.56	40.64
28 46 13 31-2134 EA White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E70-24MCC-FW)	176.56	40.64

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2135 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FW)	178.48	40.64
28 46 13 31-2136 EA White, 24 Volt DC, Multi-Candela 115/177, Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FW)	189.24	40.64
28 46 13 31-2137 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Speaker/Strobe (Wheelock ET90-24MCC-FW)	204.22	40.64
28 46 13 31-2138 Wall Mounted Speakers/Strobes <small>(28 46 13 31-2096)</small>		
28 46 13 31-2139 EA Red, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FR)	277.68	40.64
28 46 13 31-2140 EA White, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FW)	277.68	40.64
28 46 13 31-2141 EA Red, 24 Volt DC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCC-FR)	189.24	40.64
28 46 13 31-2142 EA White, 24 Volt DC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCC-FW)	189.24	40.64
28 46 13 31-2143 EA Red, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FR)	176.56	40.64
28 46 13 31-2144 EA White, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FW)	173.49	40.64
28 46 13 31-2145 EA Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FR)	189.24	40.64
28 46 13 31-2146 EA White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FW)	189.24	40.64
28 46 13 31-2147 EA Red, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E70-241575 Watt-FR)	274.68	40.64
28 46 13 31-2148 EA Red, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FR)	178.48	40.64
28 46 13 31-2149 EA White, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FW)	176.94	40.64
28 46 13 31-2150 EA Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FR)	267.93	40.64
28 46 13 31-2151 EA White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FW)	274.68	40.64
28 46 13 31-2152 EA Red, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FR)	204.22	40.64
28 46 13 31-2153 EA White, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FW)	204.22	40.64
28 46 13 31-2154 EA Weatherproof, Red, 24 Volt DC, 75 Candela, Wall Mounted Speaker Strobe (Wheelock ET70WP-2475 W-FR)	298.26	46.06
Note: Requires weatherproof backbox (IOB).		
28 46 13 31-2155 Electric Alarm Bells <small>(28 46 13 31-2096)</small>		
28 46 13 31-2156 EA 6", 24 Volt DC, Red, Vibrating Bell (Wheelock 43T-G6-24-R)	171.95	40.64
28 46 13 31-2157 EA 6", 115 Volt AC, Red, Vibrating Bell (Wheelock 43T-G6-115-R)	165.80	40.64
28 46 13 31-2158 EA 10", 115 Volt AC, Red, Vibrating Bell (Wheelock 43T-G10-115-R)	206.91	40.64
28 46 13 31-2159 EA 115 Volt AC, Single Stroke, Red, 10" Explosion Proof Bell (Wheelock CSX10-115-R)	1,625.83	46.06
28 46 13 31-2160 EA Outdoor, 115 Volt AC, Single Stroke, Red, 10" Explosion Proof Bell (Wheelock CSXG10-115-R)	2,627.81	46.06
28 46 13 31-2161 EA Vibrating, Outdoor, 115 Volt AC, Single Stroke, Red, 10" Explosion Proof Bell (Wheelock CVXG10-115-R)	3,053.04	46.06
28 46 13 31-2162 EA 6", ADA, 24 Volt DC, Red, Motor Bell (Wheelock MB-G6-24-R)	137.18	40.64
28 46 13 31-2163 EA 10", ADA, 24 Volt DC, Red, Motor Bell (Wheelock MB-G10-24-R)	183.07	40.64
28 46 13 31-2164 Horns <small>(28 46 13 31-2096)</small>		
28 46 13 31-2165 EA Two Wire, 24 Volt DC, Indoor Or Outdoor, Continuous Or Code 3, Sync Or Non Sync Horn (Wheelock AH-24WP-R)	141.25	40.64
28 46 13 31-2166 EA Red, Two Wire, 12/24 Volt DC, Wall Mounted Horn (Wheelock HNR)	115.55	40.64
28 46 13 31-2167 EA White, Two Wire, 12/24 Volt DC, Wall Mounted Horn (Wheelock HNW)	115.55	40.64
28 46 13 31-2168 EA Red, Two Wire, 12/24 Volt DC, Ceiling Mounted Horn (Wheelock HNRC)	116.40	40.64
28 46 13 31-2169 EA White, Two Wire, 12/24 Volt DC, Ceiling Mounted Horn (Wheelock HNBC)	116.40	40.64
28 46 13 31-2170 EA Red, 24 Volt DC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-R)	102.18	40.64
28 46 13 31-2171 EA White, 24 Volt DC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-W)	102.18	40.64
28 46 13 31-2172 EA Red, Flush, 12/24 Volt AC, Horn (Wheelock MT-12/24-R)	116.40	40.64
28 46 13 31-2173 Speakers <small>(28 46 13 31-2096)</small>		
28 46 13 31-2174 EA Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Mounted Speaker (Wheelock E50-R)	118.85	40.64
28 46 13 31-2175 EA White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Mounted Speaker (Wheelock E50-W)	118.85	40.64
28 46 13 31-2176 EA Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Ceiling Mounted Speaker (Wheelock E60-R)	118.85	40.64
28 46 13 31-2177 EA White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Ceiling Mounted Speaker (Wheelock E60-W)	117.16	40.64
28 46 13 31-2178 EA Red, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E70-R)	118.85	40.64
28 46 13 31-2179 EA White, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E70-W)	118.85	40.64
28 46 13 31-2180 EA Red, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E90-R)	118.85	40.64
28 46 13 31-2181 EA White, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E90-W)	118.85	40.64
28 46 13 31-2182 EA Red, Flush Or Surface, Square, 1/8 - 8 Watt, Wall Mounted Speaker (Wheelock ET70-R)	137.37	40.64
28 46 13 31-2183 EA White, Flush Or Surface, Square, 1/8 - 8 Watt, Wall Mounted Speaker (Wheelock ET70-W)	137.37	40.64
28 46 13 31-2184 EA White, Round, 25 Or 70.7 VRMS, 1/8 - 8 Watt Ceiling Mounted Speaker (Wheelock ET90-W)	138.91	40.64
28 46 13 31-2185 EA Red, Surface Mounted, Vandal Resistant, Square, 1/8 - 8 Watt, Wall Or Ceiling Mounted Speaker (Wheelock ET-1010-R)	182.58	40.64
28 46 13 31-2186 EA Red, Flush Mounted, Vandal Resistant, Square, 1/8 - 8 Watt, Wall Or Ceiling Mounted Speaker (Wheelock ET-1080-R)	165.45	40.64
28 46 13 31-2187 EA Grey, 1 To 15 Watt, 25/70/100 V Transformer, Loud Speaker (Wheelock STH-15S)	258.01	40.64
28 46 13 31-2188 EA Red, 1 To 15 Watt, 25/70/100 V Transformer, Loud Speaker (Wheelock STH-15SR)	258.01	40.64
28 46 13 31-2189 Sync Modules <small>(28 46 13 31-2096)</small>		
28 46 13 31-2190 EA 12 Or 24 Volt DC, Single Circuit Class B, Sync Module (Wheelock SM-12/24-R)	171.12	27.10



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	28 46 13 31-2191			Boxes, Plates And Rings <small>(28 46 13 31-2096)</small>		
	28 46 13 31-2192	EA		4" Square, Red, Surface Backbox (Wheelock BB-R).....	35.51	13.54
	28 46 13 31-2193	EA		Standard 4" Square Box (Wheelock BB-STD).....	34.73	13.54
	28 46 13 31-2194	EA		Black, Backbox For UZC-256 (Wheelock BB-UZC).....	212.25	27.10
	28 46 13 31-2195	EA		Red, Backbox For UZC-256 (Wheelock BB-UZC-R).....	212.25	27.10
	28 46 13 31-2196	EA		9" x 12" x 2.75", For Two XP Boards, Surface Mounted Cabinet (Wheelock BB-XP).....	163.73	21.67
	28 46 13 31-2197	EA		Red, Extender Ring For E60 Series (Wheelock E60EXT-R).....	18.37	5.42
	28 46 13 31-2198	EA		White, Extender Ring For E60 Series (Wheelock E60EXT-W).....	18.37	5.42
	28 46 13 31-2199	EA		Red, Surface Mounted Backbox For E50 Speakers (Wheelock E50SB-R).....	44.62	13.54
	28 46 13 31-2200	EA		White, Surface Mounted Backbox For E50 Speakers (Wheelock E50SB-W).....	42.16	13.54
	28 46 13 31-2201	EA		Red, Surface Mounted Backbox For E50 Speaker Strobe (Wheelock E50SSB-R).....	44.62	13.54
	28 46 13 31-2202	EA		White, Surface Mounted Backbox For E50 Speaker Strobe (Wheelock E50SSB-W).....	44.62	13.54
	28 46 13 31-2203	EA		4" Square Backbox (Wheelock DBB-R).....	37.09	13.54
	28 46 13 31-2204	EA		Red, Surface Backbox (Wheelock IOB-R).....	43.01	13.54
	28 46 13 31-2205	EA		White, Surface, Backbox (Wheelock IOB-W).....	43.01	13.54
	28 46 13 31-2206	EA		White, Indoor, Surface Extender (Wheelock ISP2-W).....	17.56	5.42
	28 46 13 31-2207	EA		Red, RS/RSS Strobe Trim Plate (Wheelock NATP-R).....	23.58	5.42
	28 46 13 31-2208	EA		White, RS/RSS Strobe Trim Plate (Wheelock NATP-W).....	23.58	5.42
	28 46 13 31-2209	EA		Red Retrofit Plate (Wheelock RP-R).....	20.83	5.42
	28 46 13 31-2210	EA		4" Speaker/Strobe Ceiling Tile Support Bracket (Wheelock SSB-4).....	35.60	5.42
	28 46 13 31-2211	EA		Red, Surface Mounted, Backbox For Chimes, Speakers (Wheelock SBB-R).....	45.00	13.54
	28 46 13 31-2212	EA		White, Surface Mounted, Backbox For Chimes, Speaker (Wheelock SBB-W).....	45.54	13.54
	28 46 13 31-2213	EA		Red, Surface Mounted, Backbox For With RSSP (Wheelock SBL2-R).....	48.38	13.54
	28 46 13 31-2214	EA		Red, Semi-Flush Plate (Wheelock SFB-R).....	24.71	5.42
	28 46 13 31-2215	EA		White, Semi-Flush Plate (Wheelock SFB-W).....	24.71	5.42
	28 46 13 31-2216	EA		Red, Shallow Surface Mounted, Backbox (Wheelock SHBB-R).....	39.66	13.54
	28 46 13 31-2217	EA		White, Shallow Surface Mounted, Backbox (Wheelock SHBB-W).....	39.66	13.54
	28 46 13 31-2218	EA		Red, Adapter Plate For Mounting Sth-15S And Sth-15SR (Wheelock SHMP-R).....	25.90	5.42
	28 46 13 31-2219	EA		Red, Weather Resistant Backbox (Wheelock WBB-R).....	44.31	13.54
	28 46 13 31-2220	EA		Red, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-R).....	31.74	5.42
	28 46 13 31-2221	EA		White, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-W).....	31.74	5.42
	28 46 13 31-2222	EA		Red, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFPA-R).....	31.74	5.42
	28 46 13 31-2223	EA		White, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFPA-W).....	31.74	5.42
	28 46 13 31-2224	EA		Gasket Kit For Rear Wiring To Outdoor Backbox (Wheelock WP-KIT).....	21.56	5.42
	28 46 13 31-2225	EA		Weather Resistant Backbox For ASWP (Wheelock WPBB-R).....	53.72	13.54
	28 46 13 31-2226	EA		Weather Resistant Backbox For RSSWP (Wheelock WPSBB-R).....	49.42	13.54
	28 46 13 31-2227			Manual Pull Station <small>(28 46 13 31-2096)</small>		
	28 46 13 31-2228	EA		SPST, Single Action, Manual Pull Station (Eaton Wheelock MPS-100).....	123.78	27.10
	28 46 13 31-2229	EA		SPST, Double Action, Manual Pull Station (Eaton Wheelock MPS-200).....	123.78	27.10
	28 46 13 31-2230	EA		Explosion Proof, Single Action Manual Pull Station (Eaton Wheelock MPS-400X).....	1,105.14	27.10
	28 46 13 31-2231			Fire Alarm Terminal Cabinets <small>(28 46 13 31)</small>		
	28 46 13 31-2232	EA		18 Point Lockable Fire Alarm Terminal Cabinet.....	229.98	54.28
	28 46 13 31-2233	EA		32 Point Lockable Fire Alarm Terminal Cabinet.....	302.85	54.28
	28 46 13 31-2234	EA		64 Point Lockable Fire Alarm Terminal Cabinet.....	448.56	54.28
	28 46 13 31-2235	EA		128 Point Lockable Fire Alarm Terminal Cabinet.....	594.24	54.28
	28 46 13 31-2236			Test And Certification Of Fire Alarm System <small>(28 46 13 31)</small>		
	28 46 13 31-2237	DAY		Test And Certification Of Fire Alarm System To Tie Into Existing Systems.....	860.85	
	28 46 13 31-2238	HR		Test And Certification Of Fire Alarm System.....	269.02	
	28 46 13 31-2239			Programming Of Fire Alarm System <small>(28 46 13 31)</small>		
	28 46 13 31-2240	HR		Programming Of Fire Alarm System.....	322.82	
	28 46 13 31-2241			Removal And Reinstallation Of Smoke Detector <small>(28 46 13 31)</small>		
				Note: Includes storage, cleaning and supply materials.		
	28 46 13 31-2242	EA		Removal And Reinstallation Of Ceiling Mounted Smoke Detector.....	151.73	
	28 46 13 31-2243	EA		Removal And Reinstallation Of Wall Mounted Smoke Detector.....	121.92	
	28 46 13 31-2244			Kidde Fire Safety Equipment <small>(28 46 13 31)</small>		
	28 46 13 31-2245			Smoke Detectors <small>(28 46 13 31-2244)</small>		
	28 46 13 31-2246	EA		Combination Smoke And Carbon Monoxide Detector, 120 Volt Wired, With Battery Back-up (Kidde i12010SCO).....	147.25	40.64
	28 46 13 31-2247	EA		Combination Smoke And Carbon Monoxide Detector, With Battery Back-up (Kidde P3010K-CO).....	121.84	40.64
	28 46 13 31-2248			Potter Fire Alarm <small>(28 46 13 31)</small>		
	28 46 13 31-2249			Electric Alarm Bells <small>(28 46 13 31-2248)</small>		
	28 46 13 31-2250	EA		6" Alarm Bell, 12 Volt DC (Potter MBA-6-12).....	117.35	40.64
	28 46 13 31-2251	EA		8" Alarm Bell, 12 Volt DC (Potter MBA-8-12).....	128.73	40.64
	28 46 13 31-2252	EA		10" Alarm Bell, 12 Volt DC (Potter MBA-10-12).....	134.43	40.64
	28 46 13 31-2253	EA		6" Alarm Bell, 24 Volt DC (Potter MBA-6-24).....	117.35	40.64

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2254	EA		8" Alarm Bell, 24 Volt DC (Potter MBA-8-24).....	128.73	40.64
28 46 13 31-2255	EA		10" Alarm Bell, 24 Volt DC (Potter MBA-10-24).....	134.43	40.64
28 46 13 31-2256	EA		6" Alarm Bell, 24 Volt AC (Potter PBA246).....	127.01	40.64
28 46 13 31-2257	EA		8" Alarm Bell, 24 Volt AC (Potter PBA248).....	132.48	40.64
28 46 13 31-2258	EA		10" Alarm Bell, 24 Volt AC (Potter PBA2410).....	164.68	40.64
28 46 13 31-2259	EA		6" Alarm Bell, 120 Volt AC (Potter PBA1206).....	118.99	40.64
28 46 13 31-2260	EA		8" Alarm Bell, 120 Volt AC (Potter PBA1208).....	132.48	40.64
28 46 13 31-2261	EA		10" Alarm Bell, 120 Volt AC (Potter PBA12010).....	143.76	40.64
28 46 13 31-2262			Manual Pull Station (28 46 13 31-2248)		
28 46 13 31-2263	EA		SPST, Single Action, Manual Pull Station (Potter P32-1T).....	86.47	27.10
28 46 13 31-2264	EA		DPST, Single Action, Manual Pull Station (Potter RMS-2T).....	91.64	27.10
28 46 13 31-2265	EA		DPST, Single Action, Manual Pull Station (Potter RMS-6T).....	149.85	27.10
28 46 13 31-2266	EA		DPST, Single Action, Key Reset Manual Pull Station (Potter RMS-1T-KL).....	94.86	27.10
28 46 13 31-2267	EA		SPST, Dual Action, Manual Pull Station (Potter P32-1T-LP).....	89.40	27.10
28 46 13 31-2268	EA		SPST, Weather Proof, Manual Pull Station (Potter RMS-1T-WP).....	168.05	27.10
28 46 13 31-2269	EA		SPST, Weather Proof Dual Action, Manual Pull Station (Potter RMS-1T-WP-LP).....	211.48	27.10
28 46 31			Fire-Alarm Initiating Devices (28 46)		
28 46 31 11			Heat-Sensing Fire Detectors (28 46 31)		
28 46 31 11-0001			Protectowire Fire Alarm (28 46 31 11)		
28 46 31 11-0002			Linear Heat Detector Cable (28 46 31 11-0001)		
28 46 31 11-0003	LF		Multi-Purpose Linear Heat Detector, EPC Type, 155 To 220 Degree F (Protectowire PHSC-EPC).....	5.29	
28 46 31 11-0004	LF		Multi-Purpose Linear Heat Detector With Messenger Wire, EPC Type, 155 To 220 Degree F (Protectowire PHSC-EPC-M).....	5.74	
28 46 31 11-0005	LF		High Performance Linear Heat Detector, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR).....	5.74	
28 46 31 11-0006	LF		High Performance Linear Heat Detector With Messenger Wire, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR-M).....	6.19	
28 46 31 11-0007	LF		Multi-Purpose Linear Heat Detector, XLT Type, 135 Degree F (Protectowire PHSC-XLT).....	6.66	
28 46 31 11-0008	LF		Multi-Purpose Linear Heat Detector With Messenger Wire, XLT Type, 135 Degree F (Protectowire PHSC-XLT-M).....	7.11	
28 46 31 11-0009	EA		Flexible Lead Connector For Linear Heat Detector (Protectowire PFL).....	64.92	
28 46 31 11-0010	EA		Splicing Connector For Linear Heat Detector (Protectowire PWSC).....	26.12	
28 46 31 11-0011	EA		Cable Tray Clip For Linear Heat Detector (Protectowire CC-2N And CC-2W).....	8.57	
28 46 31 11-0012	EA		Cable Tray Spring Clip For Linear Heat Detector (Protectowire HPC-2).....	8.57	
28 46 31 11-0013	EA		Adhesive Cable Mount For Linear Heat Detector (Protectowire EMS-A-CO).....	9.45	
28 46 31 11-0014	EA		Beam Clamp For Linear Heat Detector (Protectowire BC-2).....	14.74	
28 46 31 11-0015	EA		Beam Clamp With Polypropylene Clip For Linear Heat Detector (Protectowire BC-3P).....	15.34	
28 46 31 11-0016	EA		Pipe Mounting Straps Nylon (3/4" to 2" Pipe) (Protectowire PM-3A).....	1.52	
28 46 31 11-0017	EA		Pipe Mounting Straps Nylon (2-1/2" to 3-1/2" Pipe) (Protectowire PM-3B).....	2.07	
28 46 31 11-0018	EA		Pipe Mounting Straps Nylon (4" to 6" Pipe) (Protectowire PM-3C).....	9.15	
28 46 41			Fire-Alarm Notification Appliances (28 46)		
28 46 41 11			Audible Fire-Alarm Notification Appliances (28 46 41)		
			See CSI section 28 46 13 31-0000 for fire alarm speakers.		
28 46 41 31			Combination Fire-Alarm Notification Appliances (28 46 41)		
			See CSI section 28 46 13 31-0000 for fire alarm horns and strobes.		
28 47			Mass Notification (28 40)		
28 47 15			Mass Notification Control Panels (28 47)		
28 47 15 00-0001			Central Station Controls (28 47 15)		
28 47 15 00-0002	EA		Desktop 18 Function Base Station Control/Encoder (Whelen E747).....	933.49	
28 47 15 00-0003	EA		Desktop 35 Function Base Station Control/Encoder (Whelen E969).....	1,519.41	
28 47 15 00-0004	EA		Desktop Central Station Control Encoder/Decoder (Whelen E2010).....	4,219.43	
28 47 15 00-0005	EA		Siren Status Printer And Cable Option For E2010 (Whelen E2010P).....	1,313.51	27.10
28 47 15 00-0006	EA		Rack Mounted Central Station Control Encoder/Decoder (Whelen E2010R).....	4,851.62	27.10
28 47 15 00-0007	EA		Internal Option To Convert E2010 To FSK Format (Whelen E2010FSK).....	728.82	27.10
28 47 15 00-0008	EA		Option To Convert Activation Controls To FSK Format (Whelen FSKCEO).....	823.42	27.10
28 47 17			Notification Devices and Methods (28 47)		
28 47 17 17			Notification Appliances and Methods Public Methods (28 47 17)		
28 47 17 17-0001			Voice Capable Omni-Directional Speakers (28 47 17 17)		
28 47 17 17-0002	EA		1 Cell, 109 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2901A).....	12,909.34	726.11
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0003	EA		2 Cells, 115 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2902A).....	15,803.44	757.68
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0004	EA		3 Cells, 119 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2903A).....	18,661.58	789.25
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0005	EA		4 Cells, 121 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2904A).....	21,519.73	820.83
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0006	EA		5 Cells, 123 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2905A).....	24,449.78	852.39
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0007	EA		6 Cells, 125 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2906A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	29,356.84	883.96
28 47 17 17-0008	EA		7 Cells, 126 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2907A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	32,250.93	915.53
28 47 17 17-0009	EA		8 Cells, 127 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2908A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	35,732.15	947.10
28 47 17 17-0010	EA		9 Cells, 128 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2909A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	38,590.30	978.67
28 47 17 17-0011	EA		10 Cells, 129 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2910A) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	41,484.41	1,010.24
28 47 17 17-0012	EA		3 Cells, 127 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4003) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	28,278.47	883.96
28 47 17 17-0013	EA		4 Cells, 129 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4004) Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	30,130.14	915.53
28 47 17 17-0014	EA		One-Way Control, 10 Digit DTMF Landline (Whelen D2030LL).....	464.27	27.10
28 47 17 17-0015	EA		VHF High-Band Narrow-Band, One-Way Control, 10 Digit DTMF (Whelen D2030NV).....	2,115.07	27.10
28 47 17 17-0016	EA		UHF Narrow-Band, One-Way Control, 10 Digit DTMF (Whelen D2030NU).....	2,115.07	27.10
28 47 17 17-0017	EA		UHF Wide Band, One-Way Control, 10 Digit DTMF (Whelen D2030WU).....	1,911.37	27.10
28 47 17 17-0018	EA		VHF High-Band Wide Band, One-Way Control, 10 Digit DTMF (Whelen D2030WV).....	1,851.46	27.10
28 47 17 17-0019	EA		Two-Tone Sequential Option (Whelen WPSTT).....	429.04	27.10
28 47 17 17-0020	EA		Full Function Auxiliary/Status Board For Contact Closure Activation (Two Way) (Whelen AUXCS).....	549.42	27.10
28 47 17 17-0021	EA		Landline, 10 Digit DTMF (Whelen C2030LL).....	570.95	27.10
28 47 17 17-0022	EA		VHF High-Band Narrow-Band, Two-Way Control, 10 Digit DTMF (Whelen C2030NV).....	3,015.42	27.10
28 47 17 17-0023	EA		UHF Narrow-Band, Two-Way Control, 10 Digit DTMF (Whelen C2030NU).....	2,318.76	27.10
28 47 17 17-0024	EA		UHF Wide-Band, 10 Digit DTMF (Whelen C2030WU).....	2,318.76	27.10
28 47 17 17-0025	EA		VHF High-Wide Band, 10 Digit DTMF (Whelen C2030WV).....	2,318.76	27.10
28 47 17 17-0026	EA		Option To Convert WPS Activation Controls To FSK Format (Whelen FSKXMOD).....	823.42	27.10
28 47 17 17-0027	EA		Cabinet Window LED Status Indicator (Whelen STATUS).....	541.42	27.10
28 47 17 17-0028	EA		Paging Interface Whelen Tones With Existing In-Plant Systems (Whelen PGINT).....	352.70	27.10
28 47 17 17-0029	EA		Intrusion Alarm (Whelen INTRUWPS).....	267.55	27.10
28 47 17 17-0030	EA		Custom Pre-Recorded Messages (One Time Set-Up Charge Per Message) (Whelen MSGPROG).....	186.94	
28 47 17 17-0031	EA		Whelen Library Messages (Whelen MSGPROGL).....	37.44	
28 47 17 17-0032	EA		Noise Cancelling Microphone Includes Local Microphone Input Harness (Whelen WPSNCMIC).....	144.71	27.10
28 47 17 17-0033	EA		One Pair Of Whelen Approved Batteries (Whelen WPSBATT).....	1,078.17	40.64
28 47 17 17-0034	EA		WPS And OA Series, Roof Top Mounted (Whelen RTM).....	10,075.14	694.54
28 47 17 17-0035	EA		Two 80 Watt Panels, Solar Power System (Whelen SBC280)..... Note: Includes mounting bracket and regulator.	4,243.20	162.56
28 47 17 17-0036	EA		Amber, 6 LED Lights For The Base Of WPS Series (Whelen VALERTA).....	2,166.13	40.64
28 47 17 17-0037	EA		Blue, 6 LED Lights For The Base Of WPS Series (Whelen VALERTB).....	2,166.13	40.64
28 47 17 17-0038	EA		Clear, 6 LED Lights For The Base Of WPS Series (Whelen VALERTC).....	2,166.13	40.64
28 47 17 17-0039	EA		Green, 6 LED Lights For The Base Of WPS Series (Whelen VALERTG).....	2,166.13	40.64
28 47 17 17-0040	EA		Red, 6 LED Lights For The Base Of WPS Series Products (Whelen VALERTR).....	2,166.13	40.64
28 47 17 17-0041	EA		Amber, 24 Volt DC, LED, Beacon (Whelen L31HAF4).....	695.93	40.64
28 47 17 17-0042	EA		Blue, 24 Volt DC, LED, Beacon (Whelen L31HBF4).....	695.93	40.64
28 47 17 17-0043	EA		Red, 24 Volt DC, LED, Beacon (Whelen L31HRF4).....	695.93	40.64
28 47 17 17-0044	EA		Amber, 24 Volt DC, Strobe (Whelen ISB24A).....	544.22	40.64
28 47 17 17-0045	EA		Blue, 24 Volt DC, Strobe (Whelen ISB24B).....	544.22	40.64
28 47 17 17-0046	EA		Clear, 24 Volt DC, Strobe (Whelen ISB24C).....	544.22	40.64
28 47 17 17-0047	EA		Green, 24 Volt DC, Strobe (Whelen ISB24G).....	544.22	40.64
28 47 17 17-0048	EA		Red, 24 Volt DC, Strobe (Whelen ISB24R).....	544.22	40.64
28 47 17 17-0049	EA		Strobe/LED Controller With Mounting Plate, Hardware And Harnessing For ISB24 (Whelen SCWPS).....	836.60	27.10
28 47 17 17-0050	EA		Strobe Controller (Whelen STCTRL).....	575.85	27.10
28 47 17 17-0051	EA		LED Controller (Whelen LEDCTRL).....	575.85	27.10
28 47 17 17-0052	EA		Speaker Driver Handle/Plate Assembly Only (Less Speaker Driver) (Whelen EZ-PULL).....	381.12	40.64
28 47 17 17-0053	EA		Siren Diagnostic and Programming Software In CD Format (Whelen SDPTS).....	482.97	
28 47 17 17-0054	EA		400 Watt Speaker Driver (Whelen SPKDRV).....	799.00	27.10
28 47 17 17-0055	EA		Cabinet Window LED Status Indicator (Whelen STATUS).....	400.65	27.10
28 47 17 17-0056	EA		Noise Cancelling Microphone Option For Encoder (Whelen WPSMIC).....	144.71	27.10
28 47 17 17-0057	EA		Notifier/Whelen Interface Board (Whelen NAUXCS).....	790.19	27.10
28 47 17 17-0058			Tone Only, Omni-Alert Sirens (28 47 17 17)		
28 47 17 17-0059	EA		One Cell, Tone Only, Omni-Alert Siren (Whelen OA1)..... Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	10,398.65	694.54
28 47 17 17-0060	EA		Two Cell, Tone Only, Omni-Alert Siren (Whelen OA2)..... Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	13,029.16	726.11
28 47 17 17-0061	EA		Three Cell, Tone Only, Omni-Alert Siren (Whelen OA3)..... Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	15,635.69	757.68
28 47 17 17-0062	EA		Four Cell, Tone Only, Omni-Alert Siren (Whelen OA4)..... Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.	18,302.12	789.25
28 47 17 17-0063	EA		One Way Controls, Auxiliary Board For Contact Closure Activation (Whelen OAUXXIN).....	296.21	27.10
28 47 17 17-0064	EA		One Way Landline Activation, 10 Digit DTMF (Whelen OD2030LL).....	464.27	27.10
28 47 17 17-0065	EA		VHF High-Narrow Band, 10 Digit DTMF (Whelen OD230NV).....	2,115.07	27.10
28 47 17 17-0066	EA		UHF Narrow-Band, 10 Digit DTMF (Whelen OD230NU).....	2,115.07	27.10
28 47 17 17-0067	EA		UHF Wide-Band, 10 Digit DTMF (Whelen OD230WU).....	1,911.37	27.10
28 47 17 17-0068	EA		VHF High-Wide Band, 10 Digit DTMF (Whelen OD230WV).....	1,851.46	27.10
28 47 17 17-0069	EA		One-Way Control Two-Tone Sequential Option (Whelen OTT).....	374.23	27.10
28 47 17 17-0070	EA		Two Way Controls, Contact Closure Activation Board (Whelen OAUXXCS).....	660.46	27.10
28 47 17 17-0071	EA		Two Way Landline Activation (Whelen OC2030LL).....	686.82	27.10
28 47 17 17-0072	EA		VHF High-Narrow Band, 10 Digit DTMF (Whelen OC230NV).....	2,318.76	27.10
28 47 17 17-0073	EA		UHF Narrow-Band, 10 Digit DTMF (Whelen OC230NU).....	2,318.76	27.10
28 47 17 17-0074	EA		UHF, 10 Digit DTMF (Whelen OC230WU).....	2,318.76	27.10



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0075	EA		VHF High Band, 10 Digit DTMF (Whelen OC230WV)	2,318.76	27.10
28 47 17 17-0076	EA		Converts The Omni-Alert Siren Activation Controls To FSK Format (Whelen OFSKXMOD).....	823.42	27.10
28 47 17 17-0077	EA		Paging Interface To Interface Whelen Tones With Existing In-Plant Systems (Whelen OPGINT).....	352.70	27.10
28 47 17 17-0078	EA		Cabinet Window LED Status Indicator (Whelen OSTATUS).....	400.65	27.10
28 47 17 17-0079	EA		Intrusion Alarm (Whelen OINTRU).....	214.69	27.10
28 47 17 17-0080	EA		80 Watt Solar Power Option (Whelen OSBC280).....	4,243.20	162.56
28 47 17 17-0081	EA		One Pair Of Whelen Approved Batteries For Omniaalert (Whelen BSETO).....	813.38	40.64
28 47 17 17-0082			Tone-Only Rotating Directional Speakers (28 47 17 17)		
28 47 17 17-0083	EA		3 Cells, 127 dB, Tone-Only Rotating Directional Speaker (Whelen VORTEXR3).....	21,759.37	820.83
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0084	EA		4 Cells, 129 dB, Tone-Only Rotating Directional Speaker (Whelen VORTEXR4).....	23,083.84	852.39
			Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0085	EA		Limited Function Auxiliary Board For Contact Closure Activation (Whelen VAUXIN)	251.89	27.10
28 47 17 17-0086	EA		Landline, 10 Digit DTMF (Whelen VD2030LL).....	556.22	27.10
28 47 17 17-0087	EA		VHF High-Narrow Band, 10 Digit DTMF (Whelen VD230NV).....	2,115.07	27.10
28 47 17 17-0088	EA		UHF Narrow-Band, 10 Digit DTMF (Whelen VD230NU).....	2,115.07	27.10
28 47 17 17-0089	EA		UHF Wide-Band, 10 Digit DTMF (Whelen VD230WU).....	1,911.37	27.10
28 47 17 17-0090	EA		VHF High-Wide Band, 10 Digit DTMF (Whelen VD230WV).....	1,851.46	27.10
28 47 17 17-0091	EA		Two-Tone Sequential Option (Order One-Way Control Option, Above, VD2020L, VD2020H, VD2020U) (Whelen VORTT)	374.23	27.10
28 47 17 17-0092	EA		Full Function Auxiliary/Status Control Board For Contact Closure Activation (Whelen VAUXCS)	647.28	27.10
28 47 17 17-0093	EA		Landline, 10 Digit DTMF (Whelen VC2030LL).....	686.82	27.10
28 47 17 17-0094	EA		VHF High-Narrow Band, 10 Digit DTMF (Whelen VC230NV).....	2,318.76	27.10
28 47 17 17-0095	EA		UHF Narrow-Band, 10 Digit DTMF (Whelen VC230NU).....	2,318.76	27.10
28 47 17 17-0096	EA		UHF, 10 Digit DTMF (Whelen VC230WU).....	2,318.76	27.10
28 47 17 17-0097	EA		VHF High Band, 10 Digit DTMF (Whelen VC230WV).....	2,318.76	27.10
28 47 17 17-0098	EA		Option To Convert The Vortex Activation Controls To FSK Format (Whelen VFSKXMOD)	823.42	27.10
28 47 17 17-0099	EA		Cabinet Window LED Status Indicator (Whelen VSTATUS).....	478.34	27.10
28 47 17 17-0100	EA		Paging Interface To Interface Whelen Tones With Existing In-Plant Systems (Whelen VPGINT)	352.70	27.10
28 47 17 17-0101	EA		Vortex Intrusion Alarm (Whelen VINTRU).....	214.69	27.10
28 47 17 17-0102	EA		Speaker Pole Top Bracket (Whelen VPTB).....	660.46	27.10
28 47 17 17-0103	EA		80 Watt Solar Power Option (Whelen VSBC280).....	4,243.20	162.56
28 47 17 17-0104	EA		One Pair Of Whelen Approved Batteries For Vortex Series (Whelen BSETVOR)	813.38	40.64
28 47 17 17-0105	EA		Program Charge For Custom VROM Message (Whelen VPROG).....	3,341.72	
28 47 17 17-0106			Uni-Directional Rotating Speakers (28 47 17 17)		
28 47 17 17-0107	EA		118 dB, Uni-Directional Rotating Speaker (Whelen HORNET).....	13,819.96	726.11
28 47 17 17-0108	EA		One Way Contact Closure Activation Control Board (Whelen HAUXIN).....	251.89	27.10
28 47 17 17-0109	EA		Landline, One Way Control, 10 Digit DTMF (Whelen HD2030LL)	556.22	27.10
28 47 17 17-0110	EA		VHF High-Narrow Band, One Way Control, 10 Digit DTMF (Whelen HD230NV).....	2,115.07	27.10
28 47 17 17-0111	EA		UHF Narrow-Band, One Way Control, 10 Digit DTMF (Whelen HD230NU).....	2,115.07	27.10
28 47 17 17-0112	EA		UHF Wide-Band, One Way Control, 10 Digit DTMF (Whelen HD230WU).....	1,911.37	27.10
28 47 17 17-0113	EA		VHF High-Wide Band, One Way Control, 10 Digit DTMF (Whelen HD230WV).....	1,851.46	27.10
28 47 17 17-0114	EA		Two-Tone Sequential Option For Hornet (Whelen HORTT)	445.99	27.10
28 47 17 17-0115	EA		Two Way Contact Closure Activation And Status Control Board (Whelen HAUXCS).....	538.66	27.10
28 47 17 17-0116	EA		Landline, Two Way Control, 10 Digit DTMF (Whelen HC2030LL).....	570.95	27.10
28 47 17 17-0117	EA		VHF High-Narrow Band, Two Way Control, 10 Digit DTMF (Whelen HC230NV)	2,318.76	27.10
28 47 17 17-0118	EA		UHF Narrow-Band, Two Way Control, 10 Digit DTMF (Whelen HC230NU).....	2,318.76	27.10
28 47 17 17-0119	EA		UHF, Two Way Control, 10 Digit DTMF (Whelen HC230WU).....	2,318.76	27.10
28 47 17 17-0120	EA		VHF High Band, Two Way Control, 10 Digit DTMF (Whelen HC230WV).....	2,318.76	27.10
28 47 17 17-0121	EA		Converts Siren Activation Controls To FSK Format (Whelen HFSKXMOD).....	823.42	27.10
28 47 17 17-0122	EA		LED Status Indicator (Whelen HSTATUS).....	400.65	27.10
28 47 17 17-0123	EA		Option For Paging Interface (Whelen HPGINT).....	352.70	27.10
28 47 17 17-0124	EA		Intrusion Alarm (Whelen HINTRU).....	214.69	27.10
28 47 17 17-0125	EA		Solar Power Option (Whelen HSBC280).....	4,243.20	162.56
28 47 17 17-0126	EA		Pole Top Bracket For Speaker (Whelen HPTB).....	568.02	27.10
28 47 17 17-0127	EA		One Pair Of Whelen Approved Batteries (Whelen BSETF)	813.38	40.64
28 47 17 17-0128			All Hazard In-Plant Personnel Warning System (28 47 17 17)		
28 47 17 17-0129	EA		400 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS400).....	6,814.32	866.99
28 47 17 17-0130	EA		800 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS800).....	8,289.16	975.37
28 47 17 17-0131	EA		15 Watt, Wide Angle Speaker (Whelen WS15T).....	358.26	40.64
28 47 17 17-0132	EA		Recess Mounted, 15 Watt Speaker (Whelen WS15TR)	342.60	40.64
28 47 17 17-0133	EA		With Grill, Recess Mounted, 15 Watt Speaker (Whelen WS15TEN).....	655.80	40.64
28 47 17 17-0134	EA		30 Watt, Wide Angle Speaker (Whelen WS30T).....	447.33	40.64
28 47 17 17-0135	EA		60 Watt, Wide Angle Speaker (Whelen WS60T).....	905.38	40.64
28 47 17 17-0136	EA		Explosion-Proof, 60 Watt, Wide Angle Speaker (Whelen WSXPL6T).....	1,685.71	46.06
28 47 17 17-0137	EA		100 Watt, Wide Angle Speaker (Whelen WS100).....	576.52	40.64
28 47 17 17-0138	EA		Weatherproof Housing, 100 Watt, Wide Angle Speaker (Whelen WS100TCH).....	900.56	46.06
28 47 17 17-0139	EA		Intrusion Alarm For Whelen Outdoor Speaker Cabinets (Whelen INTRU).....	214.69	27.10
28 47 17 17-0140			Firehouse Siren (28 47 17 17)		
28 47 17 17-0141	EA		Auxiliary Board Contact Closure (Whelen FAUXIN).....	251.89	27.10
28 47 17 17-0142	EA		Two-Tone Sequential Option (Whelen FTT)	374.23	27.10
28 47 17 17-0143	EA		Auxiliary/Status Control Board (Whelen FAUXCS)	647.28	27.10
28 47 17 17-0144	EA		Landline, 10 Digit DTMF (Whelen FC2030LL).....	570.95	27.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0145 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen FC230NV).....	2,318.76	27.10
28 47 17 17-0146 EA UHF Narrow-Band, 10 Digit DTMF (Whelen FC230NU).....	2,318.76	27.10
28 47 17 17-0147 EA UHF, 10 Digit DTMF (Whelen FC230WU).....	2,318.76	27.10
28 47 17 17-0148 EA VHF High Band, 10 Digit DTMF (Whelen FC230WV).....	2,318.76	27.10
28 47 17 17-0149 EA Paging Interface Control Option (Whelen FPGINT).....	352.70	27.10
28 47 17 17-0150 EA Intrusion Alarm Control Option (Whelen FINTRU).....	214.69	27.10
28 47 17 17-0151 EA Solar Power Option (Whelen FSBC280).....	4,243.20	162.56
Note: Two 80 watt panels, with brackets and solar regulator.		
28 47 17 17-0152 Alert Monitor And Message Display <small>(28 47 17 17)</small>		
28 47 17 17-0153 EA Alert Monitor With Radio Receiver VHF High Band (Whelen V2000H).....	1,935.34	27.10
28 47 17 17-0154 EA Alert Monitor VHF High-Narrow Band (Whelen V2000NH).....	1,935.34	27.10
28 47 17 17-0155 EA Alert Monitor UHF Narrow-Band (Whelen V2000NU).....	1,935.34	27.10
28 47 17 17-0156 EA Alert Monitor With Radio Receiver UHF (Whelen V2000U).....	1,935.34	27.10
28 47 17 17-0157 EA Internal Battery And Charger For VA2000 Series (Whelen VA2BATT).....	225.15	40.64
28 47 17 17-0158 EA Mounting Bracket For Under Cabinet Or Vehicle Mounting - VA2000 Series (Whelen VA2MTG).....	64.95	27.10
28 47 17 17-0159 EA Factory Programming Of 1 To 15 VA2000 Display Messages (Whelen VA2PROGA).....	138.98	
28 47 17 17-0160 EA Factory Programming Of 16 To 45 VA2000 Display Messages (Whelen VA2PROGB).....	218.26	
28 47 17 17-0161 Portable Test Set <small>(28 47 17 17)</small>		
28 47 17 17-0162 EA VHF High Band, Portable Test Set (Whelen PT2010H).....	7,824.18	
28 47 17 17-0163 EA VHF Low Band, Portable Test Set (Whelen PT2010L).....	7,824.18	
28 47 17 17-0164 EA UHF, Portable Test Set (Whelen PT2010U).....	7,824.18	
28 47 17 17-0165 Replacement Warning Lights <small>(28 47 17 17)</small>		
28 47 17 17-0166 EA Amber, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IA).....	352.91	43.35
28 47 17 17-0167 EA Blue, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IB).....	352.91	43.35
28 47 17 17-0168 EA Clear, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IC).....	352.91	43.35
28 47 17 17-0169 EA Green, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IG).....	352.91	43.35
28 47 17 17-0170 EA Red, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IR).....	352.91	43.35
28 47 17 17-0171 EA Amber, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IA).....	379.33	43.35
28 47 17 17-0172 EA Blue, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IB).....	247.20	43.35
28 47 17 17-0173 EA Clear, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IC).....	375.42	43.35
28 47 17 17-0174 EA Green, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IG).....	375.42	43.35
28 47 17 17-0175 EA Red, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IR).....	375.42	43.35
28 47 17 17-0176 EA Amber, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HA).....	352.91	43.35
28 47 17 17-0177 EA Blue, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HB).....	352.91	43.35
28 47 17 17-0178 EA Clear, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HC).....	352.91	43.35
28 47 17 17-0179 EA Green, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HG).....	352.91	43.35
28 47 17 17-0180 EA Red, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HR).....	352.91	43.35
28 47 17 17-0181 EA Amber, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HA).....	394.99	43.35
28 47 17 17-0182 EA Blue, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HB).....	394.99	43.35
28 47 17 17-0183 EA Clear, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HC).....	256.99	43.35
28 47 17 17-0184 EA Green, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HG).....	256.99	43.35
28 47 17 17-0185 EA Red, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HR).....	256.99	43.35
28 47 17 17-0186 Antenna <small>(28 47 17 17)</small>		
28 47 17 17-0187 EA 50' Antenna Cable (Honeywell Ademco 7626-50HC).....	283.15	
28 47 17 17-0188 EA External/Remote Weatherproof Antenna (Honeywell Ademco GSM-ANT3DB).....	249.63	
28 47 17 17-0189 EA 80GHz Millimeter Wave Radio (BridgeWave Flex4G-1000).....	13,995.53	

END OF SECTION 28

28 Electronic Safety and Security

28 40 Life Safety

28 47 Mass Notification



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 Earthwork

31 01 Maintenance of Earthwork ⁽³¹⁾

31 01 20 Maintenance of Earth Moving ^(31 01)

31 01 20 00-0001 Rip Settling Basins ^(31 01 20)

Note: Rip through light soil and sand in settling basin. 8' on center (machine width).

31 01 20 00-0002	ACR Rip Light Soil And Sand, By Dozer	679.98
31 01 20 00-0003	ACR Rip Light Soil And Sand, By Grader With Rear Ripper	1,030.66
31 01 20 00-0004	ACR Rip Light Soil And Sand, By Rubber Tire Front End Loader	883.11

31 05 Common Work Results for Earthwork ⁽³¹⁾

31 05 13 Soils for Earthwork ^(31 05)

Note: Includes delivery up to 15 miles from the closest approved source and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

31 05 13 00-0001 Fill Material (Loose, Purchased Material) ^(31 05 13)

Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

31 05 13 00-0002	CY Bank Run/Fill Sand	39.62
	For Up To 8, Add	7.92
	For >8 To 16, Add	3.96
	For >48 To 64, Deduct	-2.87
	For >64 To 96, Deduct	-4.85
	For >96, Deduct	-6.83
31 05 13 00-0003	CY Screened/Washed Filter/Septic Sand	47.18
	For Up To 8, Add	9.44
	For >8 To 16, Add	4.72
	For >48 To 64, Deduct	-3.24
	For >64 To 96, Deduct	-5.60
	For >96, Deduct	-7.96
31 05 13 00-0004	CY 3/8" Minus, ASTM C33, Screened/Washed Bedding Sand	65.32
	For Up To 8, Add	13.06
	For >8 To 16, Add	6.53
	For >48 To 64, Deduct	-4.15
	For >64 To 96, Deduct	-7.42
	For >96, Deduct	-10.68
31 05 13 00-0005	CY 3/16" Minus, Screened/Washed Concrete Sand	58.52
	For Up To 8, Add	11.70
	For >8 To 16, Add	5.85
	For >48 To 64, Deduct	-3.81
	For >64 To 96, Deduct	-6.74
	For >96, Deduct	-9.66
31 05 13 00-0006	CY 3/32" Minus, Screened/Washed Masonry/Mortar Sand	105.37
	For Up To 8, Add	21.07
	For >8 To 16, Add	10.54
	For >48 To 64, Deduct	-6.15
	For >64 To 96, Deduct	-11.42
	For >96, Deduct	-16.69
31 05 13 00-0007	CY Common Fill, Native Soil/Dirt	49.45
	For Up To 8, Add	9.89
	For >8 To 16, Add	4.95
	For >48 To 64, Deduct	-3.36
	For >64 To 96, Deduct	-5.83
	For >96, Deduct	-8.30
31 05 13 00-0008	CY Lime Rock Screening	44.69
	For Up To 8, Add	8.94
	For >8 To 16, Add	4.47
	For >48 To 64, Deduct	-3.12
	For >64 To 96, Deduct	-5.35
	For >96, Deduct	-7.59
31 05 13 00-0009	CY Crushed Lime Rock Maximum 3-1/2"	44.69
	For Up To 8, Add	8.94
	For >8 To 16, Add	4.47
	For >48 To 64, Deduct	-3.12
	For >64 To 96, Deduct	-5.35
	For >96, Deduct	-7.59
31 05 13 00-0010	CY Sand/Clay	41.89
	For Up To 8, Add	8.38
	For >8 To 16, Add	4.19
	For >48 To 64, Deduct	-2.98
	For >64 To 96, Deduct	-5.07
	For >96, Deduct	-7.17
31 05 13 00-0011	CY Recycled Concrete Aggregate	40.00
	For Up To 8, Add	8.00
	For >8 To 16, Add	4.00
	For >48 To 64, Deduct	-2.89
	For >64 To 96, Deduct	-4.89
	For >96, Deduct	-6.89

31 Earthwork**31 05 Common Work Results for Earthwork****31 05 13 Soils for Earthwork**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 13 00-0012 CY Pitrun Clay	72.12	
For Up To 8, Add	14.42	
For >8 To 16, Add	7.21	
For >48 To 64, Deduct	-4.49	
For >64 To 96, Deduct	-8.10	
For >96, Deduct	-11.70	
31 05 13 00-0013 CY Light Clay / Loam	58.44	
For Up To 8, Add	11.69	
For >8 To 16, Add	5.84	
For >48 To 64, Deduct	-3.81	
For >64 To 96, Deduct	-6.73	
For >96, Deduct	-9.65	
31 05 13 00-0014 CY Heavy Clay	72.12	
For Up To 8, Add	14.42	
For >8 To 16, Add	7.21	
For >48 To 64, Deduct	-4.49	
For >64 To 96, Deduct	-8.10	
For >96, Deduct	-11.70	
31 05 13 00-0015 CY SDG&E Sand	51.32	
31 05 13 00-0016 TON SDG&E B20 Sand	52.24	

31 05 16 Aggregates for Earthwork (31 05)

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

31 05 16 00-0001 Aggregate (Loose, Purchased Material) (31 05 16)

Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles, 01 74 19 00-0052 for hauling greater than 15 miles.

31 05 16 00-0002 CY #2 Stone Aggregate Fill (1-1/2" To 2-1/2" Clean)	60.03	
For Up To 8, Add	12.01	
For >8 To 16, Add	6.00	
For >48 To 64, Deduct	-3.89	
For >64 To 96, Deduct	-6.89	
For >96, Deduct	-9.89	
31 05 16 00-0003 CY #3 Stone Aggregate Fill (1" To 2" Clean)	62.50	
For Up To 8, Add	12.50	
For >8 To 16, Add	6.25	
For >48 To 64, Deduct	-4.01	
For >64 To 96, Deduct	-7.14	
For >96, Deduct	-10.26	
31 05 16 00-0004 CY #4 Stone Aggregate Fill (3/4" To 1-1/2" Clean)	60.03	
For Up To 8, Add	12.01	
For >8 To 16, Add	6.00	
For >48 To 64, Deduct	-3.89	
For >64 To 96, Deduct	-6.89	
For >96, Deduct	-9.89	
31 05 16 00-0005 CY #5 Stone Aggregate Fill (1/2" To 1" Clean)	64.30	
For Up To 8, Add	12.86	
For >8 To 16, Add	6.43	
For >48 To 64, Deduct	-4.10	
For >64 To 96, Deduct	-7.32	
For >96, Deduct	-10.53	
31 05 16 00-0006 CY #6 Stone Aggregate Fill (3/8" To 3/4" Clean)	66.83	
For Up To 8, Add	13.37	
For >8 To 16, Add	6.68	
For >48 To 64, Deduct	-4.23	
For >64 To 96, Deduct	-7.57	
For >96, Deduct	-10.91	
31 05 16 00-0007 CY #56 Stone Aggregate Fill (3/8" To 1")	64.70	
For Up To 8, Add	12.94	
For >8 To 16, Add	6.47	
For >48 To 64, Deduct	-4.12	
For >64 To 96, Deduct	-7.36	
For >96, Deduct	-10.59	
31 05 16 00-0008 CY #57 Stone Aggregate Fill (3/8" To 1")	69.09	
For Up To 8, Add	13.82	
For >8 To 16, Add	6.91	
For >48 To 64, Deduct	-4.34	
For >64 To 96, Deduct	-7.79	
For >96, Deduct	-11.25	
31 05 16 00-0009 CY #67 Or #68 Stone Aggregate Fill (3/16" To 3/4")	62.37	
For Up To 8, Add	12.47	
For >8 To 16, Add	6.24	
For >48 To 64, Deduct	-4.00	
For >64 To 96, Deduct	-7.12	
For >96, Deduct	-10.24	
31 05 16 00-0010 CY #7 Stone Aggregate Fill (3/8" To 1/2")	63.59	
For Up To 8, Add	12.72	
For >8 To 16, Add	6.36	
For >48 To 64, Deduct	-4.07	
For >64 To 96, Deduct	-7.24	
For >96, Deduct	-10.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0011 CY #78 Stone Aggregate Fill (3/32" To 1/2")	64.12	
<i>For Up To 8, Add</i>	12.82	
<i>For >8 To 16, Add</i>	6.41	
<i>For >48 To 64, Deduct</i>	-4.09	
<i>For >64 To 96, Deduct</i>	-7.30	
<i>For >96, Deduct</i>	-10.50	
31 05 16 00-0012 CY #8 Stone Aggregate Fill (3/32" To 3/8")	66.83	
<i>For Up To 8, Add</i>	13.37	
<i>For >8 To 16, Add</i>	6.68	
<i>For >48 To 64, Deduct</i>	-4.23	
<i>For >64 To 96, Deduct</i>	-7.57	
<i>For >96, Deduct</i>	-10.91	
31 05 16 00-0013 CY #89 Stone Aggregate Fill (1/16" To 3/8")	67.58	
<i>For Up To 8, Add</i>	13.52	
<i>For >8 To 16, Add</i>	6.76	
<i>For >48 To 64, Deduct</i>	-4.26	
<i>For >64 To 96, Deduct</i>	-7.64	
<i>For >96, Deduct</i>	-11.02	
31 05 16 00-0014 CY #9 Stone Aggregate Fill (3/32" To 3/16")	66.83	
<i>For Up To 8, Add</i>	13.37	
<i>For >8 To 16, Add</i>	6.68	
<i>For >48 To 64, Deduct</i>	-4.23	
<i>For >64 To 96, Deduct</i>	-7.57	
<i>For >96, Deduct</i>	-10.91	
31 05 16 00-0015 CY #10 Stone Aggregate Fill (1/16" To 3/16")	68.38	
<i>For Up To 8, Add</i>	13.68	
<i>For >8 To 16, Add</i>	6.84	
<i>For >48 To 64, Deduct</i>	-4.30	
<i>For >64 To 96, Deduct</i>	-7.72	
<i>For >96, Deduct</i>	-11.14	
31 05 16 00-0016 CY #610 Modified Stone Aggregate Fill (1/16" To 3/4")	67.58	
<i>For Up To 8, Add</i>	13.52	
<i>For >8 To 16, Add</i>	6.76	
<i>For >48 To 64, Deduct</i>	-4.26	
<i>For >64 To 96, Deduct</i>	-7.64	
<i>For >96, Deduct</i>	-11.02	
31 05 16 00-0017 CY Screenings Stone Aggregate Fill (3/16" Max)	56.55	
<i>For Up To 8, Add</i>	11.31	
<i>For >8 To 16, Add</i>	5.66	
<i>For >48 To 64, Deduct</i>	-3.71	
<i>For >64 To 96, Deduct</i>	-6.54	
<i>For >96, Deduct</i>	-9.37	
31 05 16 00-0018 CY Over 6" To 12" Stone Aggregate Fill, Random Size	61.54	
<i>For Up To 8, Add</i>	12.31	
<i>For >8 To 16, Add</i>	6.15	
<i>For >48 To 64, Deduct</i>	-3.96	
<i>For >64 To 96, Deduct</i>	-7.04	
<i>For >96, Deduct</i>	-10.12	
31 05 16 00-0019 CY Over 6" To 12" Graded Stone Aggregate Fill	61.54	
<i>For Up To 8, Add</i>	12.31	
<i>For >8 To 16, Add</i>	6.15	
<i>For >48 To 64, Deduct</i>	-3.96	
<i>For >64 To 96, Deduct</i>	-7.04	
<i>For >96, Deduct</i>	-10.12	
31 05 16 00-0020 CY 3" To 7" Surge Stone Aggregate Fill, Random Size	66.53	
<i>For Up To 8, Add</i>	13.31	
<i>For >8 To 16, Add</i>	6.65	
<i>For >48 To 64, Deduct</i>	-4.21	
<i>For >64 To 96, Deduct</i>	-7.54	
<i>For >96, Deduct</i>	-10.87	
31 05 16 00-0021 CY 3" To 7" Surge Stone Graded Aggregate Fill	70.08	
<i>For Up To 8, Add</i>	14.02	
<i>For >8 To 16, Add</i>	7.01	
<i>For >48 To 64, Deduct</i>	-4.39	
<i>For >64 To 96, Deduct</i>	-7.89	
<i>For >96, Deduct</i>	-11.40	
31 05 16 00-0022 CY Crusher Run Aggregate Fill (2-1/2" Minus)	39.19	
<i>For Up To 8, Add</i>	7.84	
<i>For >8 To 16, Add</i>	3.92	
<i>For >48 To 64, Deduct</i>	-2.85	
<i>For >64 To 96, Deduct</i>	-4.80	
<i>For >96, Deduct</i>	-6.76	
31 05 16 00-0023 CY Crusher Run Aggregate Fill (1-1/2" Minus)	43.10	
<i>For Up To 8, Add</i>	8.62	
<i>For >8 To 16, Add</i>	4.31	
<i>For >48 To 64, Deduct</i>	-3.04	
<i>For >64 To 96, Deduct</i>	-5.20	
<i>For >96, Deduct</i>	-7.35	
31 05 16 00-0024 CY Crusher Run Aggregate Fill (3/4" Minus)	40.56	
<i>For Up To 8, Add</i>	8.11	
<i>For >8 To 16, Add</i>	4.06	
<i>For >48 To 64, Deduct</i>	-2.91	
<i>For >64 To 96, Deduct</i>	-4.94	
<i>For >96, Deduct</i>	-6.97	

31 Earthwork**31 05 Common Work Results for Earthwork****31 05 16 Aggregates for Earthwork**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0025 CY Silica Sand #20 (For Playground Use Only)	222.70	
For Up To 8, Add	44.54	
For >8 To 16, Add	22.27	
For >48 To 64, Deduct	-12.02	
For >64 To 96, Deduct	-23.16	
For >96, Deduct	-34.29	
31 05 16 00-0026 CY Graded Aggregate Base Fill (3/4" Minus) Class II Base	79.37	
For Up To 8, Add	15.87	
For >8 To 16, Add	7.94	
For >48 To 64, Deduct	-4.85	
For >64 To 96, Deduct	-8.82	
For >96, Deduct	-12.79	

31 05 36 Equipment Delivery, Pickup, Mobilization and Demobilization ⁽³¹⁾

⁽⁰⁵⁾
See CSI section 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.

31 10 Site Clearing ⁽³¹⁾**31 11 Clearing and Grubbing ^(31 10)****31 11 00 00-0001 Clear And Grub Roots And Stumps ^(31 11)**

Note: Tree diameter (diameter at breast height) is the diameter of the tree trunk measured at 4.5' above ground level. Based on tree density (light, medium or heavy) to be removed. Excludes loading. See CSI section 31 13 13 00-0001 for small areas or individual trees removal.

31 11 00 00-0002 ACR Clear And Grub Light Trees Up To 6" Diameter, Cut And Chip	8,069.55	
Note: Includes grub and removal of stump		
31 11 00 00-0003 ACR Clear And Grub Light Stumps Only Up To 6" Diameter	2,285.22	
31 11 00 00-0004 ACR Clear And Grub Medium Trees Up To 10" Diameter, Cut And Chip	9,414.48	
Note: Includes grub and removal of stump		
31 11 00 00-0005 ACR Clear And Grub Medium Stumps Only Up To 10" Diameter	3,808.71	
31 11 00 00-0006 ACR Clear And Grub Heavy Trees Up To 16" Diameter, Cut And Chip	10,698.28	
Note: Includes grub and removal of stump		
31 11 00 00-0007 ACR Clear And Grub Heavy Stumps Only Up To 16" Diameter	4,328.59	
31 11 00 00-0008 ACR Clearing By Machine - Light Brush Without Grub	313.01	
31 11 00 00-0009 ACR Clearing By Machine - Medium Brush Without Grub	664.03	
31 11 00 00-0010 ACR Clearing By Machine - Heavy Brush Without Grub	942.77	
31 11 00 00-0011 ACR Chipping - Light Brush	2,510.98	
31 11 00 00-0012 ACR Chipping - Medium Brush	3,228.56	
31 11 00 00-0013 ACR Chipping - Heavy Brush	4,520.39	

31 11 00 00-0014 Loading Of Cleared And Grubbed Material ^(31 11)

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

31 11 00 00-0015 CY Machine Loading Of Cleared And Grubbed Material	11.09	
31 11 00 00-0016 CY Chute Loading Of Cleared And Grubbed Material	13.31	
31 11 00 00-0017 CY Hand Loading Of Cleared And Grubbed Material	36.06	
31 11 00 00-0018 CY Wheel And Ramp Loading Of Cleared And Grubbed Material	28.34	

31 13 Selective Tree and Shrub Removal and Trimming ^(31 10)**31 13 13 Selective Tree and Shrub Removal ^(31 13)****31 13 13 00-0001 Individual Tree Removal ^(31 13 13)**

Note: Includes sawing and chipping branches. Tree diameter, D.B.H. (Diameter At Breast Height) is the diameter of the tree trunk measured at 4.5' above ground elevation. Excludes stump removal or grinding.

31 13 13 00-0002 EA Up To 6" D.B.H. (Diameter At Breast Height) Tree Removal	588.40	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0003 EA >6" To 12" D.B.H. (Diameter At Breast Height) Tree Removal	882.61	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0004 EA >12" To 24" D.B.H. (Diameter At Breast Height) Tree Removal	1,176.81	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0005 EA >24" To 36" D.B.H. (Diameter At Breast Height) Tree Removal	1,765.21	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0006 EA >36" To 48" D.B.H. (Diameter At Breast Height) Tree Removal	2,353.63	
Note: Includes cutting up tree, chipping and loading.		
31 13 13 00-0007 EA >48" To 60" D.B.H. (Diameter At Breast Height) Tree Removal	2,942.03	
Note: Includes cutting up tree, chipping and loading.		
For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-735.51	
31 13 13 00-0008 EA >60" To 72" D.B.H. (Diameter At Breast Height) Tree Removal	3,530.43	
Note: Includes cutting up tree, chipping and loading.		
For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-882.61	
31 13 13 00-0009 EA >72" To 84" D.B.H. (Diameter At Breast Height) Tree Removal	4,707.24	
Note: Includes cutting up tree, chipping and loading.		
For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-1,176.81	

31 13 13 00-0010 Stump Removal ^(31 13 13)

Note: Measured by diameter of stump.

31 13 13 00-0011 Stump Removal By Machine ^(31 13 13 00-0010)



Earthwork	31	13
Site Clearing	31 10	
Selective Tree and Shrub Removal and Trimming	31 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 13 13 00-0012 EA Up To 6" Diameter Stump Removal.....	114.26	
Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0013 EA >6" To 12" Diameter Stump Removal.....	219.00	
Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0014 EA >12" To 24" Diameter Stump Removal.....	285.66	
Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0015 EA >24" To 36" Diameter Stump Removal.....	428.49	
Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0016 EA >36" To 48" Diameter Stump Removal.....	504.69	
Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0017 EA >48" To 60" Diameter Stump Removal.....	594.16	
Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0018 EA >60" To 72" Diameter Stump Removal.....	704.61	
Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0019 EA >72" To 84" Diameter Stump Removal.....	828.39	
Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0020 Stump Removal By Hand <small>(31 13 13 00-0010)</small>		
31 13 13 00-0021 EA Up To 6" Diameter Stump Removal By Hand.....	624.41	
Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0022 EA >6" To 12" Diameter Stump Removal By Hand.....	780.52	
Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0023 EA >12" To 24" Diameter Stump Removal By Hand.....	1,144.76	
Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0024 EA >24" To 36" Diameter Stump Removal By Hand.....	1,561.02	
Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0025 EA >36" To 48" Diameter Stump Removal By Hand.....	2,081.37	
Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0026 EA >48" To 60" Diameter Stump Removal By Hand.....	2,601.71	
Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0027 EA >60" To 72" Diameter Stump Removal By Hand.....	3,122.05	
Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0028 EA >72" To 84" Diameter Stump Removal By Hand.....	3,642.39	
Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0029 Stump Grinding <small>(31 13 13)</small>		
Note: Measured by diameter of stump.		
31 13 13 00-0030 Stump Grinding, 18" Deep Below Surface Of Soil <small>(31 13 13 00-0029)</small>		
Note: Level soil to match existing surface area.		
31 13 13 00-0031 EA Stump Grinding Up To 6" Tree.....	108.54	
For 24" Depth, Add	21.71	
31 13 13 00-0032 EA Stump Grinding >6" To 12" Tree.....	144.71	
For 24" Depth, Add	28.94	
31 13 13 00-0033 EA Stump Grinding >12" To 15" Tree.....	162.80	
For 24" Depth, Add	32.56	
31 13 13 00-0034 EA Stump Grinding >15" To 18" Tree.....	180.90	
For 24" Depth, Add	36.18	
31 13 13 00-0035 EA Stump Grinding >18" To 21" Tree.....	194.46	
For 24" Depth, Add	38.89	
31 13 13 00-0036 EA Stump Grinding >21" To 24" Tree.....	208.03	
For 24" Depth, Add	41.61	
31 13 13 00-0037 EA Stump Grinding >24" To 27" Tree.....	226.11	
For 24" Depth, Add	45.22	
31 13 13 00-0038 EA Stump Grinding >27" To 30" Tree.....	245.69	
For 24" Depth, Add	49.14	
31 13 13 00-0039 EA Stump Grinding >30" To 33" Tree.....	272.99	
For 24" Depth, Add	54.60	
31 13 13 00-0040 EA Stump Grinding >33" To 36" Tree.....	291.19	
For 24" Depth, Add	58.24	
31 13 13 00-0041 EA Stump Grinding >36" To 42" Tree.....	327.59	
For 24" Depth, Add	65.52	
31 13 13 00-0042 EA Stump Grinding >42" To 48" Tree.....	363.98	
For 24" Depth, Add	72.80	
31 13 13 00-0043 EA Stump Grinding >48" To 60" Tree.....	454.98	
For 24" Depth, Add	91.00	
31 13 13 00-0044 EA Stump Grinding >60" To 72" Tree.....	568.72	
For 24" Depth, Add	113.74	
31 13 13 00-0045 EA Stump Grinding >72" To 84" Tree.....	727.96	
For 24" Depth, Add	145.59	

31 13 16 Selective Tree and Shrub Trimming (31 13)

31	31 Earthwork
	31 10 Site Clearing
	31 13 Selective Tree and Shrub Removal and Trimming



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 13 16 00-0001	Tree Trimming For Pole Line Construction And Maintenance <small>(31 13 16)</small> Note: Area to be vertical cleared (including overhanging limbs) is minimum 20' wide (10' each side of structure) and 16' above ground. All materials to 6" D.B.H. (Diameter At Breast Height) to be chipped in place. Larger material may be chipped or disposed. Trees greater than 18" diameter use individual tree removal tasks. Quantity based on running foot of power line to be cleared.	
31 13 16 00-0002	LF Tree Trimming, Light Cutting To 6" Diameter For Pole Line Construction	1.89
31 13 16 00-0003	LF Tree Trimming, Medium Cutting >6" To 12" Diameter For Pole Line Construction	2.83
31 13 16 00-0004	LF Tree Trimming, Heavy Cutting >12" To 18" Diameter For Pole Line Construction.....	3.33

31 20 Earth Moving (31)

Note: Per OSHA -Soil Classification - 1926 Subpart P App A. Light material: Class A site material, normally referred to as "easy digging". Consisting of loose, soft, free running materials. Close lying, which will fill blade, digger or bucket to capacity, and frequently provide a heaped load. Materials such as dry sand, small gravel, unpacked earth, loam, etc., would fall into this category. Medium material: Class B site material, normally referred to as "medium and tough, wet and sticky clay would be examples of this medium digging", consisting of harder materials that are not difficult to dig without assistance such as ripping, blasting, etc. Material break up with some bulkiness causing voids in digger or bucket. Materials such as packed earth, common earth with some clay, soil with less than 25% rock content would be examples of this category. Heavy/wet material: Class C site material, normally referred to as "hard digging", consisting of materials which may require some assistance in breaking up. Bulky and somewhat hard to penetrate materials would be found in this category and voids in dipper or bucket would be common. Materials such as very hard packed soil, with up to 50% to 70% rock content and hard category. Soil conditions will be determined by soil analysis to provide appropriate percentage (%) for the various types of soil conditions. Apply the percentages to the various soil types to generate an appropriate representation of the soil condition.

31 23 Excavation and Fill (31 20)

31 23 16 Excavation (31 23)

31 23 16 13 Trenching (31 23 16)

Note: Use this section for trenching operations even if the total project volume exceeds 500 CY. Use tasks for work by hand only for areas not accessible by machine.

31 23 16 13-0001	Excavation For Trenching By Machine <small>(31 23 16 13)</small> Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	
31 23 16 13-0002	CY 12" Wide or Less, Excavation for Trenching by Machine in Soil	10.78
	<i>For Excavation In Light Material (Class A), Deduct</i>	-1.35
	<i>For Excavation In Heavy/Wet Material (Class C), Add</i>	4.31
	<i>For Up To 20, Add</i>	8.62
	<i>For >20 To 50, Add</i>	5.39
	<i>For >50 To 250, Add</i>	2.70
	<i>For >500 To 1,000, Deduct</i>	-1.62
	<i>For >1,000, Deduct</i>	-3.23
31 23 16 13-0003	CY Over 12" Wide, Excavation for Trenching by Machine in Soil	7.21
	<i>For Excavation In Light Material (Class A), Deduct</i>	-0.90
	<i>For Excavation In Heavy/Wet Material (Class C), Add</i>	2.88
	<i>For Up To 20, Add</i>	5.77
	<i>For >20 To 50, Add</i>	3.61
	<i>For >50 To 250, Add</i>	1.80
	<i>For >500 To 1,000, Deduct</i>	-1.08
	<i>For >1,000, Deduct</i>	-2.16
31 23 16 13-0004	CY 12" Wide or Less, Excavation for Trenching by Machine in Loose Rock	17.83
	Note: Includes compacted aggregate	
	<i>For Up To 20, Add</i>	14.26
	<i>For >20 To 50, Add</i>	8.92
	<i>For >50 To 250, Add</i>	4.46
	<i>For >500 To 1,000, Deduct</i>	-2.67
	<i>For >1,000, Deduct</i>	-5.35
31 23 16 13-0005	CY Over 12" Wide, Excavation for Trenching by Machine in Loose Rock	12.81
	Note: Includes compacted aggregate	
	<i>For Up To 20, Add</i>	10.25
	<i>For >20 To 50, Add</i>	6.41
	<i>For >50 To 250, Add</i>	3.20
	<i>For >500 To 1,000, Deduct</i>	-1.92
	<i>For >1,000, Deduct</i>	-3.84
31 23 16 13-0006	Excavation For Trenching By Hand <small>(31 23 16 13)</small>	
31 23 16 13-0007	CY Excavation For Trenching By Hand In Soil	119.00
	Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	
31 23 16 13-0008	CY Excavation For Trenching By Hand In Loose Rock Or Compacted Aggregate.....	204.14
	Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	
31 23 16 13-0009	Backfilling Or Placing Subbase For Trenches <small>(31 23 16 13)</small> Note: With imported or stockpiled materials.	
31 23 16 13-0010	CY Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Machine	3.91
	<i>For Up To 20, Add</i>	3.13
	<i>For >20 To 50, Add</i>	1.96
	<i>For >50 To 250, Add</i>	0.98
	<i>For >500 To 1,000, Deduct</i>	-0.59
	<i>For >1,000, Deduct</i>	-1.17
31 23 16 13-0011	CY Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Hand.....	33.06
31 23 16 13-0012	Compaction Of Fill Or Subbase For Trenches <small>(31 23 16 13)</small> Note: Includes restoration of final grade.	



Earthwork	31	13
Earth Moving	31 20	
Excavation and Fill	31 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13-0013 CY Compaction of Fill or Subbase for Trenches by Vibratory Plate, Air Tamper, Etcetera.....	6.94	
For Up To 20, Add	5.55	
For >20 To 50, Add	3.47	
For >50 To 250, Add	1.74	
For >500 To 1,000, Deduct	-1.04	
For >1,000, Deduct	-2.08	
31 23 16 13-0014 CY Compaction of Fill or Subbase for Trenches by Hand	37.29	
31 23 16 13-0015 Loading Excess Material For Removal From Excavation For Trenches (31 23 16		
¹³⁾ Note: Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0050 for hauling.		
31 23 16 13-0016 CY Load Excess Material by Machine for Removal from Excavation for Trenching	6.80	
For Up To 20, Add	5.44	
For >20 To 50, Add	3.40	
For >50 To 250, Add	1.70	
For >500 To 1,000, Deduct	-1.02	
For >1,000, Deduct	-2.04	
31 23 16 13-0017 CY Load Excess Material by Hand for Removal from Excavation for Trenching	87.26	
31 23 16 13-0018 Spread Excess Or Imported Material For Trenches (31 23 16 13)		
Note: Includes hand work by laborer for clean-up.		
31 23 16 13-0019 CY Spread Excess Or Imported Material On Site With Machine	3.22	
For Up To 20, Add	2.58	
For >20 To 50, Add	1.61	
For >50 To 250, Add	0.81	
For >500 To 1,000, Deduct	-0.48	
For >1,000, Deduct	-0.97	
31 23 16 13-0020 Direct Burial (Plowed-in) Cable Or Piping By Machine (31 23 16 13)		
Note: Includes trench, backfill, compaction and restoration of final grade.		
31 23 16 13-0021 LF Direct Burial of Cable or Piping up to 12" Deep	2.48	
31 23 16 13-0022 LF Direct Burial of Cable or Piping >12" to 24" Deep.....	2.73	
31 23 16 13-0023 LF Direct Burial of Cable or Piping >24" to 36" Deep.....	3.90	
31 23 16 13-0024 LF Direct Burial of Cable or Piping >36" to 48" Deep.....	4.40	
31 23 16 13-0025 Utility Chain Trencher (31 23 16 13)		
31 23 16 13-0026 Utility Trench, Chain Trencher (31 23 16 13-0025)		
Note: Earth left adjacent to trench.		
31 23 16 13-0027 LF 4" Wide, 12" Deep Trench, Medium Soil, Chain Trencher.....	1.30	
For >100 To 250, Deduct	-0.09	
For >250 To 500, Deduct	-0.20	
For >500, Deduct	-0.39	
31 23 16 13-0028 LF 4" Wide, 18" Deep Trench, Medium Soil, Chain Trencher.....	1.42	
For >100 To 250, Deduct	-0.10	
For >250 To 500, Deduct	-0.21	
For >500, Deduct	-0.43	
31 23 16 13-0029 LF 4" Wide, 24" Deep Trench, Medium Soil, Chain Trencher.....	1.48	
For >100 To 250, Deduct	-0.10	
For >250 To 500, Deduct	-0.22	
For >500, Deduct	-0.44	
31 23 16 13-0030 LF 6" Wide, 12" Deep Trench, Medium Soil, Chain Trencher.....	1.55	
For >100 To 250, Deduct	-0.11	
For >250 To 500, Deduct	-0.23	
For >500, Deduct	-0.47	
31 23 16 13-0031 LF 6" Wide, 18" Deep Trench, Medium Soil, Chain Trencher.....	1.71	
For >100 To 250, Deduct	-0.12	
For >250 To 500, Deduct	-0.26	
For >500, Deduct	-0.51	
31 23 16 13-0032 LF 6" Wide, 24" Deep Trench, Medium Soil, Chain Trencher.....	1.95	
For >100 To 250, Deduct	-0.14	
For >250 To 500, Deduct	-0.29	
For >500, Deduct	-0.59	
31 23 16 13-0033 LF 6" Wide, 36" Deep Trench, Medium Soil, Chain Trencher.....	2.33	
For >100 To 250, Deduct	-0.16	
For >250 To 500, Deduct	-0.35	
For >500, Deduct	-0.70	
31 23 16 13-0034 LF 8" Wide, 12" Deep Trench, Medium Soil, Chain Trencher.....	2.20	
For >100 To 250, Deduct	-0.15	
For >250 To 500, Deduct	-0.33	
For >500, Deduct	-0.66	
31 23 16 13-0035 LF 8" Wide, 18" Deep Trench, Medium Soil, Chain Trencher.....	2.59	
For >100 To 250, Deduct	-0.18	
For >250 To 500, Deduct	-0.39	
For >500, Deduct	-0.78	
31 23 16 13-0036 LF 8" Wide, 24" Deep Trench, Medium Soil, Chain Trencher.....	2.94	
For >100 To 250, Deduct	-0.21	
For >250 To 500, Deduct	-0.44	
For >500, Deduct	-0.88	

31	Earthwork
31 20	Earth Moving
31 23	Excavation and Fill



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13-0037 LF 8" Wide, 36" Deep Trench, Medium Soil, Chain Trencher	3.49	
For >100 To 250, Deduct	-0.24	
For >250 To 500, Deduct	-0.52	
For >500, Deduct	-1.05	
31 23 16 13-0038 Backfill Trenches With Compaction (31 23 16 13-0025)		
31 23 16 13-0039 LF Backfill 4" Wide, 12" Deep Trench, With Compaction	0.20	
For >100 To 250, Deduct	-0.01	
For >250 To 500, Deduct	-0.03	
For >500, Deduct	-0.06	
31 23 16 13-0040 LF Backfill 4" Wide, 18" Deep Trench, With Compaction	0.31	
For >100 To 250, Deduct	-0.02	
For >250 To 500, Deduct	-0.05	
For >500, Deduct	-0.09	
31 23 16 13-0041 LF Backfill 4" Wide, 24" Deep Trench, With Compaction	0.42	
For >100 To 250, Deduct	-0.03	
For >250 To 500, Deduct	-0.06	
For >500, Deduct	-0.13	
31 23 16 13-0042 LF Backfill 6" Wide, 12" Deep Trench, With Compaction	0.31	
For >100 To 250, Deduct	-0.02	
For >250 To 500, Deduct	-0.05	
For >500, Deduct	-0.09	
31 23 16 13-0043 LF Backfill 6" Wide, 18" Deep Trench, With Compaction	0.42	
For >100 To 250, Deduct	-0.03	
For >250 To 500, Deduct	-0.06	
For >500, Deduct	-0.13	
31 23 16 13-0044 LF Backfill 6" Wide, 24" Deep Trench, With Compaction	0.64	
For >100 To 250, Deduct	-0.04	
For >250 To 500, Deduct	-0.10	
For >500, Deduct	-0.19	
31 23 16 13-0045 LF Backfill 6" Wide, 36" Deep Trench, With Compaction	0.90	
For >100 To 250, Deduct	-0.06	
For >250 To 500, Deduct	-0.14	
For >500, Deduct	-0.27	
31 23 16 13-0046 LF Backfill 8" Wide, 12" Deep Trench, With Compaction	0.42	
For >100 To 250, Deduct	-0.03	
For >250 To 500, Deduct	-0.06	
For >500, Deduct	-0.13	
31 23 16 13-0047 LF Backfill 8" Wide, 18" Deep Trench, With Compaction	0.64	
For >100 To 250, Deduct	-0.04	
For >250 To 500, Deduct	-0.10	
For >500, Deduct	-0.19	
31 23 16 13-0048 LF Backfill 8" Wide, 24" Deep Trench, With Compaction	0.84	
For >100 To 250, Deduct	-0.06	
For >250 To 500, Deduct	-0.13	
For >500, Deduct	-0.25	
31 23 16 13-0049 LF Backfill 8" Wide, 36" Deep Trench, With Compaction	1.26	
For >100 To 250, Deduct	-0.09	
For >250 To 500, Deduct	-0.19	
For >500, Deduct	-0.38	
31 23 16 26 Rock Removal (31 23 16)		
31 23 16 26-0001 Rock Breaking By Machine (31 23 16 26)		
Note: Excludes excavation of broken-up rock.		
31 23 16 26-0002 CY Rock Breaking By Machine, Soft Sedimentary Rocks (Shale, Sandstone, Limestone).....	29.83	
31 23 16 26-0003 CY Rock Breaking By Machine, Medium Metamorphic Rock (Slate)	31.81	
31 23 16 26-0004 CY Rock Breaking By Machine, Hard Igneous Rock (Granite, Basalt)	37.78	
31 23 16 33 Bulk Excavation (31 23 16)		
Note: For excavations where the total quantity for a project is greater than 500 cubic yards. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 36-0000 for For less than 500 CY excavation.		
31 23 16 33-0001 Excavation (31 23 16 33)		
Note: For bulk excavation. Includes stockpiling excavated materials within 100' of point of excavation.		
31 23 16 33-0002 CY Bulk Excavation by Dozer in Soil	10.05	
For Excavation In Light Material (Class A), Deduct	-1.26	
For Excavation In Heavy/Wet Material (Class C), Add	4.02	
For >1,000, Deduct	-1.51	
31 23 16 33-0003 CY Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Soil	5.82	
For Excavation In Light Material (Class A), Deduct	-0.73	
For Excavation In Heavy/Wet Material (Class C), Add	2.33	
For >1,000, Deduct	-0.87	
31 23 16 33-0004 CY Bulk Excavation by Dozer in Loose Rock	12.37	
Note: Includes compacted aggregate		
For >1,000, Deduct	-1.86	
31 23 16 33-0005 CY Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Loose Rock.....	7.16	
Note: Includes compacted aggregate		
For >1,000, Deduct	-1.07	
31 23 16 33-0006 Spreading, Shaping And Rough Grading (31 23 16 33)		
Note: Imported or stockpiled material for bulk excavation.		



Earthwork	31	15
Earth Moving	31 20	
Excavation and Fill	31 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 33-0007 CY Spreading, Shaping, and Rough Grading Imported or Stockpiled Material for Bulk Excavation by Machine..... <i>For >1,000, Deduct</i>	6.20 -0.93	
31 23 16 33-0008 Cutting, Shaping and Rough Grading Of Existing Elevations (31 23 16 33) Note: For bulk excavation.		
31 23 16 33-0009 CY Cutting, Shaping and Rough Grading Existing Elevations For Bulk Excavation by Machine..... <i>For >1,000, Deduct</i>	6.90 -1.04	
31 23 16 33-0010 Relocating On Site Excavated Material From Excavation (31 23 16 33) Note: For bulk excavation.		
31 23 16 33-0011 CY Relocating On Site Excavated Material From Bulk Excavation >100' to 300' <i>For >1,000, Deduct</i>	5.51 -0.83	
31 23 16 33-0012 CY Relocating On Site Excavated Material From Bulk Excavation >300' to 500' <i>For >1,000, Deduct</i>	8.28 -1.24	
31 23 16 33-0013 CY Relocating On Site Excavated Material From Bulk Excavation >500' To 1,000' <i>For >1,000, Deduct</i>	12.41 -1.86	
31 23 16 33-0014 CY Relocating On Site Excavated Material From Bulk Excavation >1,000' <i>For >1,000, Deduct</i>	16.54 -2.48	
31 23 16 33-0015 Finish Grading (31 23 16 33) Note: For bulk excavation.		
31 23 16 33-0016 SY Finish Grading for Bulk Excavation by Machine.....	0.69	
31 23 16 33-0017 Compaction Of Fill Or Subbase, Per Lift (31 23 16 33) Note: For bulk excavation. See CSI section 31 23 23-0001 for compaction water.		
31 23 16 33-0018 SY Compaction of Fill or Subbase for Bulk Excavation by Machine..... Note: Per Lift	0.69	
31 23 16 33-0019 Loading Excess Material For Removal From Excavation (31 23 16 33) Note: For bulk excavation. Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0050 for hauling.		
31 23 16 33-0020 CY Loading Excess Material For Removal From Bulk Excavation..... <i>For >1,000, Deduct</i>	5.97 -0.90	
31 23 16 36 Excavation for Building Foundations and Other Structures (31 23 16) Note: Use of a Bobcat is limited to access restricted areas and by owner's approval. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 33-0000 for bulk excavation operations over 500 CY.		
31 23 16 36-0001 Excavation (31 23 16 36) Note: For building foundations and other structures by machine. Includes stockpiling excess materials within 100' of point of excavation, shaping, trimming and rough grading excavation.		
31 23 16 36-0002 Excavation For Building Foundations And Other Structures By Skid-Steer Loader (31 23 16 36-0001)		
31 23 16 36-0003 CY Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Soil <i>For Excavation In Light Material (Class A), Deduct</i> <i>For Excavation In Heavy/Wet Material (Class C), Add</i> <i>For Up To 20, Add</i> <i>For >20 To 50, Add</i> <i>For >50 To 250, Add</i> <i>For >250 To 500, Add</i>	9.00 -1.13 3.60 9.00 6.75 3.60 1.35	
31 23 16 36-0004 CY Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Loose Rock Note: Includes compacted aggregate <i>For Up To 20, Add</i> <i>For >20 To 50, Add</i> <i>For >50 To 250, Add</i> <i>For >250 To 500, Add</i>	11.20 11.20 8.40 4.48 1.68	
31 23 16 36-0005 Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader (31 23 16 36-0001)		
31 23 16 36-0006 CY Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Soil <i>For Excavation In Light Material (Class A), Deduct</i> <i>For Excavation In Heavy/Wet Material (Class C), Add</i> <i>For Up To 20, Add</i> <i>For >20 To 50, Add</i> <i>For >50 To 250, Add</i> <i>For >250 To 500, Add</i>	6.99 -0.87 2.80 6.99 5.24 2.80 1.05	
31 23 16 36-0007 CY Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Loose Rock Note: Includes compacted aggregate <i>For Up To 20, Add</i> <i>For >20 To 50, Add</i> <i>For >50 To 250, Add</i> <i>For >250 To 500, Add</i>	8.31 8.31 6.23 3.32 1.25	

31	31	Earthwork
	31 20	Earth Moving
	31 23	Excavation and Fill



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 36-0008 Excavation For Building Foundations And Other Structures By Hand <small>(31 23 16 36-0001)</small>		
Note: For areas not accessible by machine and only with owner's approval.		
31 23 16 36-0009 CY Excavation For Building Foundations And Other Structures By Hand in Soil.....	119.00	
For Excavation In Light Material (Class A), Deduct	-14.88	
For Excavation In Heavy/Wet Material (Class C), Add	47.60	
31 23 16 36-0010 CY Excavation For Building Foundations And Other Structures By Hand in Loose Rock.....	204.14	
Note: Includes compacted aggregate		
31 23 16 36-0011 Relocating On Site Excavated Material From Excavation <small>(31 23 16 36)</small>		
Note: For building foundations and other structures over 100'.		
31 23 16 36-0012 CY Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >100' to 300'.....	5.51	
For Up To 20, Add	5.51	
For >20 To 50, Add	4.13	
For >50 To 250, Add	2.20	
For >250 To 500, Add	0.83	
31 23 16 36-0013 CY Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >300' to 500'.....	8.28	
For Up To 20, Add	8.28	
For >20 To 50, Add	6.21	
For >50 To 250, Add	3.31	
For >250 To 500, Add	1.24	
31 23 16 36-0014 CY Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >500' to 1,000'.....	12.41	
For Up To 20, Add	12.41	
For >20 To 50, Add	9.31	
For >50 To 250, Add	4.96	
For >250 To 500, Add	1.86	
31 23 16 36-0015 CY Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >1,000'.....	16.54	
For Up To 20, Add	16.54	
For >20 To 50, Add	12.41	
For >50 To 250, Add	6.62	
For >250 To 500, Add	2.48	
31 23 16 36-0016 Backfilling <small>(31 23 16 36)</small>		
Note: For building foundations and other structures with imported or stockpiled materials. Includes rough grading.		
31 23 16 36-0017 CY Backfilling Around Building Foundations And Other Structures By Skid-Steer Loader.....	4.45	
For Up To 20, Add	4.45	
For >20 To 50, Add	3.34	
For >50 To 250, Add	1.78	
For >250 To 500, Add	0.67	
31 23 16 36-0018 CY Backfilling Around Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader.....	5.41	
For Up To 20, Add	5.41	
For >20 To 50, Add	4.06	
For >50 To 250, Add	2.16	
For >250 To 500, Add	0.81	
31 23 16 36-0019 CY Backfilling Around Building Foundations And Other Structures By Hand.....	56.67	
31 23 16 36-0020 Compaction Of Fill Or Subbase <small>(31 23 16 36)</small>		
Note: For building foundations and other structures. See CSI section 31 23 23 23-0001 for compaction water.		
31 23 16 36-0021 CY Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Vibratory Plate, Air Tamper, Etcetera.....	11.00	
For Up To 20, Add	11.00	
For >20 To 50, Add	8.25	
For >50 To 250, Add	4.40	
For >250 To 500, Add	1.65	
31 23 16 36-0022 CY Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Hand.....	37.29	
31 23 16 36-0023 Grading <small>(31 23 16 36)</small>		
Note: For building foundations and other structures.		
31 23 16 36-0024 SY Rough Grading For Building Foundations And Other Structures by Machine.....	1.19	
31 23 16 36-0025 SY Finish Grading For Building Foundations And Other Structures by Machine.....	1.91	
31 23 16 36-0026 SY Finish Grading For Building Foundations And Other Structures by Hand.....	11.02	
31 23 16 36-0027 Loading Excess Material For Removal From Excavation <small>(31 23 16 36)</small>		
Note: For building foundations and other structures. Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0050 for hauling.		
31 23 16 36-0028 CY Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Machine.....	6.22	
For Up To 20, Add	6.22	
For >20 To 50, Add	4.67	
For >50 To 250, Add	2.49	
For >250 To 500, Add	0.93	
31 23 16 36-0029 CY Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Hand.....	87.26	
31 23 16 36-0030 Spread Material <small>(31 23 16 36)</small>		
Note: For building foundations and other structures.		



Earthwork	31	13
Earth Moving	31 20	
Excavation and Fill	31 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 36-0031 CY Spread Excess Or Imported Material On Site By Machine	3.22	
<i>For Up To 20, Add</i>	3.22	
<i>For >20 To 50, Add</i>	2.42	
<i>For >50 To 250, Add</i>	1.29	
<i>For >250 To 500, Add</i>	0.48	
31 23 16 36-0032 CY Spread Excess Or Imported Material On Site By Hand	48.15	
31 23 19 Dewatering ^(31 23)		
31 23 19 00-0001 Well Point Dewatering System ^(31 23 19)		
31 23 19 00-0002 Delivery, Installation And Removal Cost ^(31 23 19 00-0001)		
Note: Priced by linear foot of header used.		
31 23 19 00-0003 LF Up To 100' In Length Well Point System Delivery, Installation And Removal	123.93	
31 23 19 00-0004 LF >100' To 250' In Length Well Point System Delivery, Installation And Removal	68.16	
31 23 19 00-0005 LF >250' To 500' In Length Well Point System Delivery, Installation And Removal	61.96	
31 23 19 00-0006 LF >250' To 500' In Length Well Point System Delivery, Installation And Removal	55.77	
31 23 19 00-0007 LF >500' To 1,000' In Length Well Point System Delivery, Installation And Removal	49.57	
31 23 19 00-0008 LF >1,000' In Length Well Point System Delivery, Installation And Removal	43.38	
31 23 19 00-0009 Well Point Dewatering System Rental ^(31 23 19 00-0001)		
Note: Includes all necessary equipment for a well point system (well point with risers, pump, valves, header pipe, discharge pipe, etc.). Use normal adjustment factor only for rental tasks and modifiers. Unit of measure and modifier quantities are based on linear feet of header per day (ex. 200 ft of header for four days - quantity should be 200x4 or 800 ft). Rental days include weekends, when appropriate, regardless if the system is operational during that time. Use weekly modifier for system use of five days to less than a month. Use monthly modifier for system use of one month or greater. See CSI section 31 23 19 00-0002 for installation, 31 23 19 00-0015 for operational costs.		
31 23 19 00-0010 LFD Up To 100' In Length Well Point System Rental (LF x Days = Quantity)	1.85	
<i>For >5 Days And <1 Month, Deduct</i>	-0.41	
<i>For >1 Month, Deduct</i>	-0.52	
31 23 19 00-0011 LFD >100' To 250' In Length Well Point System Rental (LF x Days = Quantity)	1.08	
<i>For >5 Days And <1 Month, Deduct</i>	-0.24	
<i>For >1 Month, Deduct</i>	-0.30	
31 23 19 00-0012 LFD >250' To 500' In Length Well Point System Rental (LF x Days = Quantity)	0.77	
<i>For >5 Days And <1 Month, Deduct</i>	-0.17	
<i>For >1 Month, Deduct</i>	-0.22	
31 23 19 00-0013 LFD >500' To 1,000' In Length Well Point System Rental (LF x Days = Quantity)	0.57	
<i>For >5 Days And <1 Month, Deduct</i>	-0.13	
<i>For >1 Month, Deduct</i>	-0.16	
31 23 19 00-0014 LFD >1,000' In Length Well Point System Rental (LF x Days = Quantity)	0.52	
<i>For >5 Days And <1 Month, Deduct</i>	-0.11	
<i>For >1 Month, Deduct</i>	-0.15	
31 23 19 00-0015 Well Point Dewatering System Operation Costs ^(31 23 19 00-0001)		
Note: The quantity for operation shall be the total number of hours the well point system is operational.		
31 23 19 00-0016 HR Operation Costs.....	112.79	
31 23 23 Fill ^(31 23)		
31 23 23 23 Compaction ^(31 23 23)		
31 23 23 23-0001 Compaction Water, Water Truck And Operator ^(31 23 23 23)		
31 23 23 23-0002 MGL Compaction Water, Water Truck And Operator	207.43	
Note: Use this task in situations where fill, base material, etc. requires additional moisture to comply with the compaction specification. Includes delivery up to 15 miles. (Per 1000 Gallons) See CSI section 01 22 23 00-1247 for water truck when water is available on site.		
31 23 23 33 Flowable Fill ^(31 23 23)		
31 23 23 33-0001 Flowable Cement Backfill For Trenches ^(31 23 23 33)		
Note: Includes compaction and restoration of final grade.		
31 23 23 33-0002 CY Flowable Cement Backfill for Trenches	228.82	
<i>For Up To 20, Add</i>	82.86	
<i>For >20 To 50, Add</i>	54.29	
<i>For >50 To 250, Add</i>	27.15	
<i>For >500 To 1,000, Deduct</i>	-14.28	
<i>For >1,000, Deduct</i>	-28.57	
31 24 Embankments ^(31 20)		
31 24 13 Roadway Embankments ^(31 24)		
31 24 13 00-0001 Roadway, Parking Areas, Landscaping And Embankment Excavation And Shaping Operations ^(31 24 13)		
Note: Use this section for excavation and shaping operations even if the total quantity for the project exceeds 500 CY. See CSI section 31 05 16 00-0000 for imported material, 32 12 16 00-0000 for asphalt paving, 32 13 13 00-0000 for concrete paving.		



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 24 13 00-0002		Cutting, Shaping And Rough Grading <small>(31 24 13 00-0001)</small>	
		Note: For roadways, parking areas, landscaping, and embankments. Includes loading or stockpiling excess materials within 300' of initial cut.	
31 24 13 00-0003		Cutting, Shaping, And Rough Grading <small>(31 24 13 00-0002)</small>	
31 24 13 00-0004	CY	Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Soil.....	6.90
		For Up To 20, Add	6.90
		For >20 To 50, Add	5.18
		For >50 To 250, Add	2.76
		For >250 To 500, Add	1.04
		For >1,000, Deduct	-1.04
31 24 13 00-0005	CY	Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Loose Rock.....	8.55
		Note: Includes compacted aggregate	
		For Up To 20, Add	8.55
		For >20 To 50, Add	6.41
		For >50 To 250, Add	3.42
		For >250 To 500, Add	1.28
		For >1,000, Deduct	-1.28
31 24 13 00-0006		Cutting, Shaping, And Rough Grading By Hand <small>(31 24 13 00-0002)</small>	
31 24 13 00-0007	SY	Shape Embankment/Slope By Hand Up To 1 On 4 Slope	6.10
31 24 13 00-0008	SY	Shape Embankment/Slope By Hand Greater Than 1 On 4 Slope	7.93
31 24 13 00-0009		Scarify Soil <small>(31 24 13 00-0001)</small>	
		Note: For roadways, parking areas, landscaping and embankments by machine.	
31 24 13 00-0010	CSF	Scarify Soil For Roadways, Parking Areas, Landscaping And Embankments By Machine	6.38
		For Up To 20, Add	3.19
		For >20 To 50, Add	1.60
		For >250 To 500, Deduct	-0.64
		For >500, Deduct	-1.28
31 24 13 00-0011		Relocating On Site Excavated Material <small>(31 24 13 00-0001)</small>	
31 24 13 00-0012	CY	>500' To 1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine	12.41
		For Up To 20, Add	12.41
		For >20 To 50, Add	9.31
		For >50 To 250, Add	4.96
		For >250 To 500, Add	1.86
		For >1,000, Deduct	-1.86
31 24 13 00-0013	CY	>1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine	16.54
		For Up To 20, Add	16.54
		For >20 To 50, Add	12.41
		For >50 To 250, Add	6.62
		For >250 To 500, Add	2.48
		For >1,000, Deduct	-2.48
31 24 13 00-0014		Spread And Shape Imported Or Stockpiled Material <small>(31 24 13 00-0001)</small>	
		Note: For roadways, parking areas, landscaping and embankments. See CSI section 31 23 16 36-0032 for spreading material by hand.	
31 24 13 00-0015	CY	Spread And Shape Imported Or Stockpiled Material For Roadways, Parking Areas, Landscaping and Embankments By Machine	7.58
		For Up To 20, Add	7.58
		For >20 To 50, Add	5.69
		For >50 To 250, Add	3.03
		For >250 To 500, Add	1.14
		For >1,000, Deduct	-1.14
31 24 13 00-0016		Grading <small>(31 24 13 00-0001)</small>	
		Note: For roadways, parking areas, landscaping and embankments by machine.	
31 24 13 00-0017	SY	Rough Grade Roadway, Parking Areas, Landscaping And Embankments By Machine	0.77
31 24 13 00-0018	SY	Finish Grade Roadway, Parking Areas, Landscaping And Embankments By Machine	1.02
31 24 13 00-0019	LF	Finish Grade For Curb	1.15
31 24 13 00-0020	LF	Finish Grade For Curb And Gutter	1.40
31 24 13 00-0021		Compaction Of Fill Or Subbase <small>(31 24 13 00-0001)</small>	
		Note: For roadways, parking areas, landscaping and embankments by machine, per lift.	
31 24 13 00-0022	SY	Compaction Of Fill Or Subbase For Roadways, Parking Areas, Landscaping And Embankments By Machine Per Lift.....	0.69
		For Up To 250, Add	0.69
		For >250 To 500, Add	0.52
		For >500 To 1,000, Add	0.28
		For >5,000, Deduct	-0.10



Earthwork	31	13
Earth Moving	31 20	
Embankments	31 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 24 13 00-0023 Loading Excess Material For Removal From Excavation <small>(31 24 13 00-0001)</small> Note: For roadways, parking areas, landscaping and embankments by machine. Includes hand work by laborer for clean-up.		
31 24 13 00-0024 CY Load Excess Material For Removal For Roadways, Parking Areas, Landscaping and Embankments by Machine	5.97	
For Up To 20, Add	5.97	
For >20 To 50, Add	4.48	
For >50 To 250, Add	2.39	
For >250 To 500, Add	0.90	
For >1,000, Deduct	-0.90	
31 25 Erosion and Sedimentation Controls <small>(31 20)</small>		
31 25 14 Stabilization Measures for Erosion and Sedimentation Control <small>(31 25)</small>		
31 25 14 13 Hydraulically-Applied Erosion Control <small>(31 25 14)</small>		
31 25 14 13-0001 Bonded Fiber Matrix <small>(31 25 14 13)</small>		
31 25 14 13-0002 MSF Up To 25,000 SF Bonded Fiber Matrix, Hydraulically Applied	57.96	
31 25 14 13-0003 MSF >25,000 To 50,000 SF Bonded Fiber Matrix, Hydraulically Applied.....	53.24	
31 25 14 13-0004 MSF >50,000 To 100,000 SF Bonded Fiber Matrix, Hydraulically Applied.....	49.24	
31 25 14 13-0005 MSF >100,000 Bonded Fiber Matrix, Hydraulically Applied	46.95	
31 25 14 16 Rolled Erosion Control Mats and Blankets <small>(31 25 14)</small> Note: Includes all staples and stakes for erosion control blankets and turf reinforcement mats.		
31 25 14 16-0001 Erosion Control Blankets And Turf Reinforcement Mats <small>(31 25 14 16)</small>		
31 25 14 16-0002 Erosion Control Blankets, Short Term, Light Duty <small>(31 25 14 16-0001)</small>		
31 25 14 16-0003 SY S75 Single Net Erosion Control Blanket	2.80	
Note: Straw matrix with degradable thread to a single standard photodegradable polypropylene netting as manufactured by North American Green.		
31 25 14 16-0004 SY S75BN Single Net Erosion Control Blanket	3.62	
Note: Straw Matrix with Biodegradable Thread to a Single Natural Fiber Netting as manufactured by North American Green.		
31 25 14 16-0005 SY Curlex 1, Single Net Erosion Control Blanket	2.66	
Note: As manufactured by American Excelsior		
31 25 14 16-0006 SY Curlex 1, Single Net Erosion Control Blanket	2.80	
Note: As manufactured by American Green.		
31 25 14 16-0007 SY Futerra Erosion Control Blanket, Wood Fibers With Biodegradable Netting.....	2.48	
31 25 14 16-0008 Erosion Control Blankets, Intermediate Duration <small>(31 25 14 16-0001)</small>		
31 25 14 16-0009 SY S150 Double Net Erosion Control Blanket.....	3.60	
Note: Straw matrix with degradable thread to a double standard photodegradable polypropylene netting as manufactured by North American Green.		
31 25 14 16-0010 SY S150 BN Double Net Erosion Control Blanket.....	4.88	
Note: Straw matrix with biodegradable thread to a double natural fiber netting as manufactured by North American Green.		
31 25 14 16-0011 SY Curlex II, Double Net Erosion Control Blanket, Natural	3.00	
Note: As manufactured by American Excelsior.		
31 25 14 16-0012 SY Curlex II, Double Net Erosion Control Blanket, Green	3.14	
Note: As manufactured by American Excelsior.		
31 25 14 16-0013 SY Enforcer Double Net Erosion Control Blanket.....	3.35	
Note: As manufactured by American Excelsior.		
31 25 14 16-0014 Turf Reinforcement Mats (TRM) <small>(31 25 14 16-0001)</small> Note: Permanent, UV stabilized.		
31 25 14 16-0015 SY P300 Permanent Polypropylene Turf Reinforcement Mat.....	13.33	
Note: 100% synthetic, UV stabilized, two layer netting.		
31 25 14 16-0016 SY C350 Permanent Turf Reinforcement Mat	12.24	
Note: 100% synthetic, UV stabilized netting incorporating natural coconut fibers as manufactured by North American Green.		
31 25 14 16-0017 SY Recyclex TRM, Permanent Turf Reinforcement Mat	14.90	
Note: As manufactured by American Excelsior, 100% recycled		
31 25 14 16-0018 Jute Mesh Erosion Control Blankets <small>(31 25 14 16-0001)</small>		
31 25 14 16-0019 SY Jute Mesh, Open Uniform Weave.....	3.78	
31 25 14 16-0020 Revegetation Mat <small>(31 25 14 16-0001)</small>		
31 25 14 16-0021 SY 3-Dimensional Webbed Revegetation Mat, Polyolefin Fiber.....	10.51	
Note: Polyolefin fibers oriented and mechanically bonded between two nets. Landlok TRM 450 or equal.		
31 25 14 16-0022 SY Webbed Revegetation Mat, Polypropylene Fiber.....	15.06	
Note: Polypropylene fibers positioned between two high strength biaxially oriented nets and mechanically held together by parallel stitching with polypropylene thread. Landlok TRM 1060 or equal.		
31 25 14 16-0023 Erosion Control Rolls <small>(31 25 14 16-0001)</small>		
31 25 14 16-0024 SY Erosion Control Rolls, Mirafi 140N.....	2.19	

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31 25 14 16-0025 SY Erosion Control Rolls, Amoco 45472.24

31 25 14 23 Stabilization Measures for Erosion Control (31 25 14)
See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

31 25 14 23-0001 Sand Bags (31 25 14 23)

Note: Bags filled on site with delivered material. Includes material and placement of bags.

31 25 14 23-0002	BAG 50 LB Capacity Sand Bag With Sand	6.13	2.51
	<i>For >2,500 To 5,000, Deduct</i>	-0.50	
	<i>For >5,000, Deduct</i>	-1.11	
31 25 14 23-0003	BAG 75 LB Capacity Sand Bag With Sand	7.94	3.12
	<i>For >2,500 To 5,000, Deduct</i>	-0.62	
	<i>For >5,000, Deduct</i>	-1.42	
31 25 14 23-0004	BAG 100 LB Capacity Sand Bag With Sand	10.06	3.72
	<i>For >2,500 To 5,000, Deduct</i>	-0.75	
	<i>For >5,000, Deduct</i>	-1.75	
31 25 14 23-0005	BAG 125 LB Capacity Sand Bag With Sand	12.38	4.66
	<i>For >2,500 To 5,000, Deduct</i>	-0.93	
	<i>For >5,000, Deduct</i>	-2.17	
31 25 14 23-0006	BAG 150 LB Capacity Sand Bag With Sand	15.07	5.58
	<i>For >2,500 To 5,000, Deduct</i>	-1.12	
	<i>For >5,000, Deduct</i>	-2.62	
31 25 14 23-0007	BAG 175 LB Capacity Sand Bag With Sand	17.60	6.35
	<i>For >2,500 To 5,000, Deduct</i>	-1.27	
	<i>For >5,000, Deduct</i>	-3.03	
31 25 14 23-0008	BAG 2,000 LB Capacity Sand Bag With Sand	149.92	45.89
	<i>For >2,500 To 5,000, Deduct</i>	-8.83	
	<i>For >5,000, Deduct</i>	-23.83	
31 25 14 23-0009	BAG 3,000 LB Capacity Sand Bag With Sand	195.09	50.47
	<i>For >2,500 To 5,000, Deduct</i>	-9.72	
	<i>For >5,000, Deduct</i>	-29.23	

31 25 14 23-0010 Gravel Bags (31 25 14 23)

Note: Bags filled on site with delivered material. Includes material and placement of bags.

31 25 14 23-0011	BAG 30 LB Capacity Gravel Bag With Gravel	5.89	1.67
	<i>For >2,500 To 5,000, Deduct</i>	-0.33	
	<i>For >5,000, Deduct</i>	-0.92	
31 25 14 23-0012	BAG 50 LB Capacity Gravel Bag With Gravel	10.63	2.51
	<i>For >2,500 To 5,000, Deduct</i>	-0.50	
	<i>For >5,000, Deduct</i>	-1.56	

31 25 14 23-0013 Floating Turbidity Curtain (31 25 14 23)

Note: Type 2 DOT fabric - 18 oz. nominal laminated vinyl/polyester. EPS flotation, 6 in. x 6 in., 13.5 lb./ft. buoyancy in fresh water and 14.4 lb./ft buoyancy in saltwater.

31 25 14 23-0014	LF 3' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	25.93	
	<i>For Type 1, Deduct</i>	-4.04	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-2.46	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	2.99	
31 25 14 23-0015	LF 4' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	28.12	
	<i>For Type 1, Deduct</i>	-4.45	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-2.71	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	3.29	
31 25 14 23-0016	LF 5' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	31.13	
	<i>For Type 1, Deduct</i>	-5.04	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.07	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	3.72	
31 25 14 23-0017	LF 6' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	33.69	
	<i>For Type 1, Deduct</i>	-5.52	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.36	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	4.08	
31 25 14 23-0018	LF 7' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	35.35	
	<i>For Type 1, Deduct</i>	-5.79	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.53	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	4.28	
31 25 14 23-0019	LF 8' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	37.03	
	<i>For Type 1, Deduct</i>	-6.06	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.69	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	4.48	
31 25 14 23-0020	LF 9' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	38.97	
	<i>For Type 1, Deduct</i>	-6.39	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-3.89	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	4.72	
31 25 14 23-0021	LF 10' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	41.65	
	<i>For Type 1, Deduct</i>	-6.87	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-4.18	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	5.08	
31 25 14 23-0022	LF 12' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	43.75	
	<i>For Type 1, Deduct</i>	-7.22	
	<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-4.40	
	<i>For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add</i>	5.34	



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31 25 14 23-0023 LF 13' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	46.60	
For Type 1, Deduct	-7.73	
For 13 Oz PVC Fabric, Type 2, Deduct	-4.71	
For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	5.72	
31 25 14 23-0024 LF 14' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	49.24	
For Type 1, Deduct	-8.19	
For 13 Oz PVC Fabric, Type 2, Deduct	-4.99	
For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	6.06	
31 25 14 23-0025 LF 15' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	51.79	
For Type 1, Deduct	-8.62	
For 13 Oz PVC Fabric, Type 2, Deduct	-5.25	
For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	6.37	
31 25 14 23-0026 LF 16' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	56.38	
For Type 1, Deduct	-9.51	
For 13 Oz PVC Fabric, Type 2, Deduct	-5.79	
For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	7.03	
31 25 14 23-0027 LF 17' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	59.12	
For Type 1, Deduct	-9.97	
For 13 Oz PVC Fabric, Type 2, Deduct	-6.07	
For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	7.37	
31 25 14 23-0028 LF 18' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	61.79	
For Type 1, Deduct	-10.40	
For 13 Oz PVC Fabric, Type 2, Deduct	-6.33	
For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	7.69	
31 25 14 23-0029 LF 19' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	64.61	
For Type 1, Deduct	-10.86	
For 13 Oz PVC Fabric, Type 2, Deduct	-6.61	
For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	8.03	
31 25 14 23-0030 LF 20' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	67.34	
For Type 1, Deduct	-11.29	
For 13 Oz PVC Fabric, Type 2, Deduct	-6.87	
For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	8.35	
31 25 14 23-0031 Turbidity Curtain Anchors (31 25 14 23)		
31 25 14 23-0032 EA 14 LB, Turbidity Curtain Anchor System.....	700.15	
Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0033 EA 25 LB, Turbidity Curtain Anchor System.....	960.14	
Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0034 EA 40 LB, Turbidity Curtain Anchor System.....	1,221.27	
Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0035 EA 65 LB, Turbidity Curtain Anchor System.....	1,597.39	
Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0036 Filter Bags (31 25 14 23)		
31 25 14 23-0037 Non-Woven Filter Bags (31 25 14 23-0036)		
31 25 14 23-0038 EA 6' x 15' Non-Woven Filter Bag.....	230.47	
31 25 14 23-0039 EA 13' x 15' Non-Woven Filter Bag.....	333.61	
31 25 14 23-0040 EA 15' x 15' Non-Woven Filter Bag.....	383.41	
31 25 14 23-0041 Monofilament Filter Bags (31 25 14 23-0036)		
31 25 14 23-0042 EA 5' x 15' Monofilament Filter Bag.....	239.66	
31 25 14 23-0043 EA 10' x 15' Monofilament Filter Bag.....	331.97	
31 25 14 23-0044 Cable Articulating Concrete Block (31 25 14 23)		
Note: 4000 PSI Compressive strength, 12 LB/CF maximum absorption. Interlocking block with longitudinal retvetment cable. Includes anchoring block to 12" x 12" x 6" concrete pier every 5' with anchor and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 25 14 23-0045 SF 4.75" Open Cell Articulated Concrete Block With Earth Backfill.....	37.96	
For Up To 500, Add	8.61	
For >500 To 1,000, Add	4.82	
31 25 14 23-0046 SF 6" Open Cell Articulated Concrete Block With Earth Backfill.....	43.31	
For Up To 500, Add	9.78	
For >500 To 1,000, Add	5.45	
31 25 14 23-0047 SF 7.5" Open Cell Articulated Concrete Block With Earth Backfill.....	49.45	
For Up To 500, Add	11.12	
For >500 To 1,000, Add	6.17	
31 25 14 23-0048 SF 9" Open Cell Articulated Concrete Block With Earth Backfill.....	55.72	
For Up To 500, Add	12.51	
For >500 To 1,000, Add	6.94	
31 25 14 23-0049 SF 4.75" Closed Cell Articulated Concrete Block.....	40.60	
For Up To 500, Add	9.14	
For >500 To 1,000, Add	5.08	
31 25 14 23-0050 SF 6" Closed Cell Articulated Concrete Block.....	46.46	
For Up To 500, Add	10.41	
For >500 To 1,000, Add	5.76	
31 25 14 23-0051 SF 7.5" Closed Cell Articulated Concrete Block.....	53.18	
For Up To 500, Add	11.86	
For >500 To 1,000, Add	6.54	

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31 25 14 23-0052 SF 9" Closed Cell Articulated Concrete Block	59.99	
For Up To 500, Add	13.36	
For >500 To 1,000, Add	7.36	
31 25 14 26 Stabilization Measures for Sedimentation Control (31 25 14)		
31 25 14 26-0001 Silt Fences And Dike Barriers (31 25 14 26) Note: Includes stakes and embedding.		
31 25 14 26-0002 Silt Fences 2' High (31 25 14 26-0001) See CSI section 31 25 14 26-0014 for removal of silt fence.		
31 25 14 26-0003 LF 2' High Silt Fence with Stakes at 4' On Center.....	2.82	
31 25 14 26-0004 LF 2' High Silt Fence with Stakes at 6' On Center.....	2.19	
31 25 14 26-0005 LF 2' High Silt Fence with Stakes at 8' On Center.....	1.57	
31 25 14 26-0006 LF 2' High Silt Fence with Stakes at 10' On Center.....	1.36	
31 25 14 26-0007 Silt Fences 3' High (31 25 14 26-0001) See CSI section 31 25 14 26-0014 for removal of silt fence.		
31 25 14 26-0008 LF 3' High Silt Fence with Stakes at 4' On Center.....	2.91	
31 25 14 26-0009 LF 3' High Silt Fence with Stakes at 6' On Center.....	2.37	
31 25 14 26-0010 LF 3' High Silt Fence with Stakes at 8' On Center.....	2.06	
31 25 14 26-0011 LF 3' High Silt Fence with Stakes at 10' On Center.....	1.42	
31 25 14 26-0012 Silt Dike Barrier (31 25 14 26-0001)		
31 25 14 26-0013 LF Silt Dike Barrier With Stakes.....	3.30	
31 25 14 26-0014 Silt Fences Removal (31 25 14 26-0001)		
31 25 14 26-0015 LF Removal Of Silt Fence And Stakes.....	0.79	
31 25 14 26-0016 Hay And Straw Bales (31 25 14 26) Note: Includes trench for placement, and stakes.		
31 25 14 26-0017 LF Place Sterilized Straw Bales.....	4.65	
Note: Includes securing in ground with stakes. See CSI section 31 25 14 26-0020 for removal of straw bale.		
31 25 14 26-0018 LF Place Hay Bales.....	4.29	
Note: Includes securing in ground with stakes. See CSI section 31 25 14 26-0020 for removal of hay bale.		
31 25 14 26-0019 EA Place And Remove Hay Bales, Includes Securing In Ground With Stakes.....	12.87	
31 25 14 26-0020 LF Removal Of Hay Or Straw Bales.....	1.42	
Note: Includes removal of stakes.		
31 25 14 26-0021 Sediment Logs (Degradable) (31 25 14 26)		
31 25 14 26-0022 Sediment Logs (Degradable) (31 25 14 26-0021) Note: Includes stakes and removal after use. Curflex sediment logs as manufactured by American Excelsior.		
31 25 14 26-0023 LF 12" Sediment Log	7.47	
31 25 14 26-0024 LF 20" Sediment Log	9.92	
31 25 14 26-0025 Wattles (Degradable) With UV Stabilized Synthetic Netting (31 25 14 26-0021) Note: Includes trench for placement, 24" wood staking at 4' on-center		
31 25 14 26-0026 EA Wattles (Sterile Straw Filled Rolls), 9" x 25'	171.01	
31 25 14 26-0027 EA Wattles (Sterile Straw Filled Rolls), 12" x 20'	166.33	
31 25 14 26-0028 Fiber Roll (CALTRANS Type 1) (31 25 14 26) Note: Includes furrow trench for placement, 24" wood staking at 4' on-center		
31 25 14 26-0029 LF 8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	6.90	
For >1,000 To 10,000, Deduct	-0.72	
For >10,000, Deduct	-1.23	
31 25 14 26-0030 LF 9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	8.02	
For >1,000 To 10,000, Deduct	-0.76	
For >10,000, Deduct	-1.29	
31 25 14 26-0031 LF 12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	10.18	
For >1,000 To 10,000, Deduct	-0.91	
For >10,000, Deduct	-1.55	
31 25 14 26-0032 Fiber Roll (CALTRANS Type 2) (31 25 14 26) Note: Includes 24" wood stakes at 2' on-center off-set on sides with ropes.		
31 25 14 26-0033 LF 8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	6.01	
For >1,000 To 10,000, Deduct	-0.59	
For >10,000, Deduct	-1.00	
31 25 14 26-0034 LF 9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	7.09	
For >1,000 To 10,000, Deduct	-0.62	
For >10,000, Deduct	-1.06	
31 25 14 26-0035 LF 12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	8.58	
For >1,000 To 10,000, Deduct	-0.67	
For >10,000, Deduct	-1.15	



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31 25 14 26-0036 Inlet Protection Sediment Bags <small>(31 25 14 26)</small> Note: Includes removal, cleaning, and replacement per each location.		
31 25 14 26-0037 EA 2' x 2' x 3' Inlet Protection Sediment Bag.....	57.67	
31 25 14 26-0038 EA 2' x 3' x 3' Inlet Protection Sediment Bag.....	73.16	
31 25 14 26-0039 EA 2' x 4' x 3' Inlet Protection Sediment Bag.....	91.28	
31 25 14 26-0040 Clean Sediment Logs/Wattles <small>(31 25 14 26)</small> Note: Includes removal, cleaning, and replacement per each location.		
31 25 14 26-0041 EA Clean Sediment Logs/Wattles.....	79.34	
31 30 Earthwork Methods <small>(31)</small>		
31 31 Soil Treatment <small>(31 30)</small>		
31 31 16 Termite Control <small>(31 31)</small>		
31 31 16 13 Chemical Termite Control <small>(31 31 16)</small>		
31 31 16 13-0001 Commercial Use <small>(31 31 16 13)</small>		
31 31 16 13-0002 SF Termite Pretreatment, Commercial Soil Poisoning Under Slab	0.75	
31 31 16 13-0003 SF Termite Pretreatment, Commercial Slab And Walls.....	1.07	
31 31 16 13-0004 Residential Use <small>(31 31 16 13)</small>		
31 31 16 13-0005 SF Termite Pretreatment, Residential General Spraying Walls And Slab	1.14	
31 31 16 13-0006 SF Termite Treatment, Existing Residential Structure.....	1.25	
31 31 19 Vegetation Control <small>(31 31)</small>		
31 31 19 13 Chemical Vegetation Control <small>(31 31 19)</small>		
31 31 19 13-0001 Soil Sterilants <small>(31 31 19 13)</small>		
31 31 19 13-0002 MSF Soil Sterilant.....	30.21	
Note: Use only in areas where complete control of all vegetation is desired, such as industrial sites, right-of-way, lumberyards, petroleum tank farms, around farm buildings, along fence lines, etc. When applied to the soil, this product usually inhibits plant growth for a year or more.		
For >45 To 90, Deduct	-0.43	
For >90 To 225, Deduct	-2.38	
For >225, Deduct	-3.25	
31 32 Soil Stabilization <small>(31 30)</small>		
31 32 13 Soil Mixing Stabilization <small>(31 32)</small>		
31 32 13 16 Cement Soil Stabilization <small>(31 32 13)</small>		
31 32 13 16-0001 Soil Cement Course <small>(31 32 13 16)</small> Note: Includes soil material, adding and mixing of cement, water and calcium chloride (if required), shaping, finishing and final compaction. Excludes cement, calcium chloride, foundation preparation, compaction water and additional surface treatments.		
31 32 13 16-0002 CY Compacted Soil Cement Course, Material mixed in Central Plant.....	77.58	
31 32 13 16-0003 CY Compacted Soil Cement Course, Material mixed in Traveling Pugmill. Cement.....	81.76	
31 32 13 16-0004 LB Cement, Per Unit Of Measure.....	0.06	
31 32 13 16-0005 LB Flake Calcium Chloride, Per Unit Of Measure.....	0.73	
31 32 13 16-0006 EA Mobilize And Demobilize Traveling Pugmill	150.00	
31 32 13 16-0007 Cementitious Soil Binder <small>(31 32 13 16)</small>		
31 32 13 16-0008 CY Cementitious Soil Binder, 4% Cement Mix By Volume	37.98	
31 32 13 16-0009 CY Cementitious Soil Binder, 6% Cement Mix By Volume	43.78	
31 32 13 16-0010 CY Cementitious Soil Binder, 9% Cement Mix By Volume	53.33	
31 32 13 16-0011 CY Cementitious Soil Binder, 12% Cement Mix By Volume	62.74	
31 32 13 19 Lime Soil Stabilization <small>(31 32 13)</small> Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. The price excludes the cost for spreading or backfilling. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.		
31 32 13 19-0001 Lime Slurry <small>(31 32 13 19)</small>		
31 32 13 19-0002 LCY Soil Stabilization With Lime Slurry 10% Lime Slurry By Volume.....	34.11	
31 32 13 19-0003 TON Cement Stabilized Base Material.....	133.13	
31 32 13 19-0004 CWT Lime For Soil Stabilization	21.60	
Note: Excludes the cost for spreading or backfilling		
31 32 13 19-0005 LCY Roller, Grader - Lime Stabilization	19.19	
31 32 13 19-0006 LCY Roller, Grader - Cement Stabilization	4.25	

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	31 30 Earthwork Methods
	31 32 Soil Stabilization



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31 32 13 19-0007	Lime Stabilized Subgrade <small>(31 32 13 19)</small>	
	Note: Based on soil weight of 110 LB/CF using lime weight of 5.5 LB/CF (5%).	
31 32 13 19-0008	SY 6" Thick Lime Stabilized Subgrade, 25 LB.....	12.64
	For 4% Lime Instead Of 5%, Deduct	-0.38
	For 6% Lime Instead Of 5%, Add	0.38
31 32 13 19-0009	SY 7" Thick Lime Stabilized Subgrade, 29 LB.....	14.65
	For 4% Lime Instead Of 5%, Deduct	-0.44
	For 6% Lime Instead Of 5%, Add	0.44
31 32 13 19-0010	SY 8" Thick Lime Stabilized Subgrade, 33 LB.....	16.72
	For 4% Lime Instead Of 5%, Deduct	-0.50
	For 6% Lime Instead Of 5%, Add	0.50
31 32 13 19-0011	SY 10" Thick Lime Stabilized Subgrade, 41 LB/SY.....	20.89
	For 4% Lime Instead Of 5%, Deduct	-0.63
	For 6% Lime Instead Of 5%, Add	0.63
	For >5,000 SY, Deduct	-1.33
31 32 13 19-0012	SY 12" Thick Lime Stabilized Subgrade, 50 LB/SY.....	25.08
	For 4% Lime Instead Of 5%, Deduct	-0.76
	For 6% Lime Instead Of 5%, Add	0.76
	For >5,000 SY, Deduct	-1.60
31 32 13 19-0013	SY 14" Thick Lime Stabilized Subgrade, 58 LB/SY.....	29.22
	For 4% Lime Instead Of 5%, Deduct	-0.88
	For 6% Lime Instead Of 5%, Add	0.88
	For >5,000 SY, Deduct	-1.86
31 32 13 19-0014	SY 16" Thick Lime Stabilized Subgrade, 66 LB/SY.....	33.42
	For 4% Lime Instead Of 5%, Deduct	-1.01
	For 6% Lime Instead Of 5%, Add	1.01
	For >5,000 SY, Deduct	-2.13
31 32 13 19-0015	SY 18" Thick Lime Stabilized Subgrade, 74 LB/SY.....	37.62
	For 4% Lime Instead Of 5%, Deduct	-1.13
	For 6% Lime Instead Of 5%, Add	1.13
	For >5,000 SY, Deduct	-2.40

31 32 13 19-0016	Hydrated Lime Stabilized Subgrade <small>(31 32 13 19)</small>	
	Note: Includes scarifying, adding and mixing of hydrated lime and water, light sealing, curing, secondary mixing, shaping, finishing and final compaction. Excludes hydrated lime, foundation preparation, compaction water and additional surface treatments.	
31 32 13 19-0017	CY Compacted Hydrated Lime Stabilized Subgrade.....	75.85
31 32 13 19-0018	LB Hydrated Lime.....	1.52

31 32 13 29	Liquid Soil Stabilization <small>(31 32 13)</small>	
31 32 13 29-0001	GAL Polyacrylamide And Calcium Solution.....	2.72

31 32 19 Geosynthetic Soil Stabilization and Layer Separation (31 32)

31 32 19 13 Geogrid Soil Stabilization (31 32 19)

31 32 19 13-0001	Geogrid Fabrics <small>(31 32 19 13)</small>	
	Note: For reinforcement of over steepened earth slopes, segmental retaining walls and other mechanically stabilized earth applications.	
31 32 19 13-0002	SY 5.3 Ounce/SY, 1,700 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-150).....	5.15
	For Up To 50, Add	1.13
	For >50 To 150, Add	0.84
	For >150 To 250, Add	0.55
	For >250 To 500, Add	0.27
31 32 19 13-0003	SY 6.9 Ounce/SY, 3,100 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-300).....	5.88
	For Up To 50, Add	1.28
	For >50 To 150, Add	0.95
	For >150 To 250, Add	0.62
	For >250 To 500, Add	0.31
31 32 19 13-0004	SY 8.7 Ounce/SY, 4,280 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-500).....	6.42
	For Up To 50, Add	1.39
	For >50 To 150, Add	1.04
	For >150 To 250, Add	0.68
	For >250 To 500, Add	0.34
31 32 19 13-0005	SY 12.6 Ounce/SY, 7,315 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-800).....	9.25
	For Up To 50, Add	1.96
	For >50 To 150, Add	1.46
	For >150 To 250, Add	0.96
	For >250 To 500, Add	0.48
31 32 19 13-0006	SY 14.1 Ounce/SY, 9,790 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-1000).....	10.60
	For Up To 50, Add	2.24
	For >50 To 150, Add	1.67
	For >150 To 250, Add	1.10
	For >250 To 500, Add	0.55



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 13-0007 SY 4.3 Ounce/SY, 1,658 LB/FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 20)	5.23	
<i>For Up To 50, Add</i>	1.15	
<i>For >50 To 150, Add</i>	0.85	
<i>For >150 To 250, Add</i>	0.56	
<i>For >250 To 500, Add</i>	0.28	
31 32 19 13-0008 SY 5.9 Ounce/SY, 2,192 LB/FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 30)	7.72	
<i>For Up To 50, Add</i>	1.65	
<i>For >50 To 150, Add</i>	1.23	
<i>For >150 To 250, Add</i>	0.81	
<i>For >250 To 500, Add</i>	0.40	
31 32 19 16 Geotextile Soil Stabilization (31 32 19)		
31 32 19 16-0001 Nonwoven Polypropylene Geotextiles (31 32 19 16)		
Note: For drainage, filtration and separation.		
31 32 19 16-0002 SY 3.0 Ounce/SY, 40 Mil, 80 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-30HS)	1.60	
<i>For Up To 50, Add</i>	0.36	
<i>For >50 To 150, Add</i>	0.27	
<i>For >150 To 250, Add</i>	0.17	
<i>For >250 To 500, Add</i>	0.09	
31 32 19 16-0003 SY 3.5 Ounce/SY, 50 Mil, 95 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-35HS)	1.72	
<i>For Up To 50, Add</i>	0.38	
<i>For >50 To 150, Add</i>	0.28	
<i>For >150 To 250, Add</i>	0.19	
<i>For >250 To 500, Add</i>	0.09	
31 32 19 16-0004 SY 4.0 Ounce/SY, 60 Mil, 115 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-40HS)	1.86	
<i>For Up To 50, Add</i>	0.41	
<i>For >50 To 150, Add</i>	0.31	
<i>For >150 To 250, Add</i>	0.20	
<i>For >250 To 500, Add</i>	0.10	
31 32 19 16-0005 SY 4.5 Ounce/SY, 55 Mil, 120 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-45HS)	2.01	
<i>For Up To 50, Add</i>	0.44	
<i>For >50 To 150, Add</i>	0.33	
<i>For >150 To 250, Add</i>	0.21	
<i>For >250 To 500, Add</i>	0.11	
31 32 19 16-0006 SY 6.0 Ounce/SY, 70 Mil, 160 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-60HS)	2.38	
<i>For Up To 50, Add</i>	0.52	
<i>For >50 To 150, Add</i>	0.38	
<i>For >150 To 250, Add</i>	0.25	
<i>For >250 To 500, Add</i>	0.13	
31 32 19 16-0007 SY 7.0 Ounce/SY, 85 Mil, 180 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-70HS)	2.79	
<i>For Up To 50, Add</i>	0.61	
<i>For >50 To 150, Add</i>	0.45	
<i>For >150 To 250, Add</i>	0.30	
<i>For >250 To 500, Add</i>	0.15	
31 32 19 16-0008 SY 8.0 Ounce/SY, 85 Mil, 205 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-80HS)	3.08	
<i>For Up To 50, Add</i>	0.67	
<i>For >50 To 150, Add</i>	0.50	
<i>For >150 To 250, Add</i>	0.33	
<i>For >250 To 500, Add</i>	0.16	
31 32 19 16-0009 SY 10 Ounce/SY, 115 Mil, 250 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-100HS)	3.80	
<i>For Up To 50, Add</i>	0.81	
<i>For >50 To 150, Add</i>	0.60	
<i>For >150 To 250, Add</i>	0.40	
<i>For >250 To 500, Add</i>	0.20	
31 32 19 16-0010 SY 16 Ounce/SY, 175 Mil, 425 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric	6.34	
<i>For Up To 50, Add</i>	1.32	
<i>For >50 To 150, Add</i>	0.99	
<i>For >150 To 250, Add</i>	0.65	
<i>For >250 To 500, Add</i>	0.33	
31 32 19 16-0011 Woven Geotextiles Fabric (31 32 19 16)		
31 32 19 16-0012 SY 200 LB Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-55)	2.32	
<i>For Up To 50, Add</i>	0.50	
<i>For >50 To 150, Add</i>	0.37	
<i>For >150 To 250, Add</i>	0.25	
<i>For >250 To 500, Add</i>	0.12	
31 32 19 16-0013 SY 315 LB Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-66)	3.27	
<i>For Up To 50, Add</i>	0.69	
<i>For >50 To 150, Add</i>	0.52	
<i>For >150 To 250, Add</i>	0.34	
<i>For >250 To 500, Add</i>	0.17	
31 32 19 16-0014 SY 4 To 6% Open Area, 370 x 250 LB Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 6%)	5.79	
<i>For Up To 50, Add</i>	1.21	
<i>For >50 To 150, Add</i>	0.90	
<i>For >150 To 250, Add</i>	0.60	
<i>For >250 To 500, Add</i>	0.30	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	31 32 19 16-0015	SY	11 To 15% Open Area, 370 x 220 LB Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 15%).....	5.65	
			<i>For Up To 50, Add</i>	1.18	
			<i>For >50 To 150, Add</i>	0.88	
			<i>For >150 To 250, Add</i>	0.58	
			<i>For >250 To 500, Add</i>	0.29	
	31 32 19 16-0016	SY	6.9 Oz/SY, 250 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-250TF).....	4.93	
			<i>For Up To 50, Add</i>	1.04	
			<i>For >50 To 150, Add</i>	0.77	
			<i>For >150 To 250, Add</i>	0.51	
			<i>For >250 To 500, Add</i>	0.26	
	31 32 19 16-0017	SY	9.1 Oz/SY, 333 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-330TF).....	5.28	
			<i>For Up To 50, Add</i>	1.11	
			<i>For >50 To 150, Add</i>	0.83	
			<i>For >150 To 250, Add</i>	0.55	
			<i>For >250 To 500, Add</i>	0.27	
	31 32 19 16-0018	SY	12.1 Oz/SY, 400 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-400TF).....	6.75	
			<i>For Up To 50, Add</i>	1.40	
			<i>For >50 To 150, Add</i>	1.05	
			<i>For >150 To 250, Add</i>	0.69	
			<i>For >250 To 500, Add</i>	0.35	
	31 32 19 16-0019	SY	12.1 Oz/SY, 400 LB/IN Wide Width Tensile Ultimate Woven Monofilament And Fibrillated Geotextile Fabric (Carthage Mills FX-400MF).....	9.63	
			<i>For Up To 50, Add</i>	1.98	
			<i>For >50 To 150, Add</i>	1.48	
			<i>For >150 To 250, Add</i>	0.98	
			<i>For >250 To 500, Add</i>	0.49	
	31 32 19 16-0020		Geomembranes (31 32 19 16)		
	31 32 19 16-0021		Polyvinyl Chloride (PVC) Geomembrane (31 32 19 16-0020)		
	31 32 19 16-0022	SF	20 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	1.32	
	31 32 19 16-0023	SF	30 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	1.53	
	31 32 19 16-0024	SF	40 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	1.86	
	31 32 19 16-0025	SF	50 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	2.23	
	31 32 19 16-0026	SF	60 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	2.56	
	31 32 19 16-0027	SF	70 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	2.79	
	31 32 19 16-0028	SF	80 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	3.03	
	31 32 19 16-0029	SF	90 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	3.35	
	31 32 19 16-0030	SF	100 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	3.66	
	31 32 19 16-0031		High Density Polyethylene (HDPE) Geomembrane (31 32 19 16-0020)		
	31 32 19 16-0032	SF	20 Mil High Density Polyethylene Membrane (US Fabrics).....	0.94	
	31 32 19 16-0033	SF	30 Mil High Density Polyethylene Membrane (US Fabrics).....	0.97	
	31 32 19 16-0034	SF	40 Mil High Density Polyethylene Membrane (US Fabrics).....	1.10	
	31 32 19 16-0035	SF	50 Mil High Density Polyethylene Membrane (US Fabrics).....	1.66	
	31 32 19 16-0036	SF	60 Mil High Density Polyethylene Membrane (US Fabrics).....	1.33	
	31 32 19 16-0037	SF	80 Mil High Density Polyethylene Membrane (US Fabrics).....	1.59	
	31 32 19 16-0038	SF	100 Mil High Density Polyethylene Membrane (US Fabrics).....	1.85	
	31 32 19 16-0039	SF	120 Mil High Density Polyethylene Membrane (US Fabrics).....	3.16	
	31 32 19 16-0040	SF	140 Mil High Density Polyethylene Membrane (US Fabrics).....	3.27	
	31 32 19 16-0041		Rock Slope Protection Fabric (Monterey County) (31 32 19 16)		
	31 32 19 16-0042	SY	Rock Slope Protection Fabric, Drainage Outlet (Monterey County).....	12.30	
	31 32 19 26		Geoweb Cellular Confinement System (31 32 19)		
			Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		
	31 32 19 26-0001		Geoweb Cellular Confinement System (31 32 19 26)		
			Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		
	31 32 19 26-0002	SF	4" Geoweb Cellular Confinement System (Presto Geosystems).....	7.13	
			<i>For >20,000, Deduct</i>	-0.18	
			<i>For >2:1 Slope, Add</i>	1.15	
	31 32 19 26-0003	SF	6" Geoweb Cellular Confinement System (Presto Geosystems).....	8.78	
			<i>For >20,000, Deduct</i>	-0.27	
			<i>For >2:1 Slope, Add</i>	1.15	
	31 32 19 26-0004	SF	8" Geoweb Cellular Confinement System (Presto Geosystems).....	10.73	
			<i>For >20,000, Deduct</i>	-0.36	
			<i>For >2:1 Slope, Add</i>	1.15	
	31 32 36		Soil Nailing (31 32)		
	31 32 36 11		Soil Nailing Stabilization (31 32 36)		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 11-0001 Landslide and Slip-Out Stabilization ^(31 32 36 11) Note: Work shall consist of the Contractor stabilizing identified slides by internally reinforcing the soil mass with reinforcing elements (nails) by using one or more of the installation methods specified in this contract. The Owner will identify locations for work to be performed as specified herein. The Contractor shall review all locations with Owner representatives to determine the method to be used. The Contractor will provide all necessary engineering plans and details required to successfully repair slides as noted. These plans shall be stamped by a registered professional engineer with a current California license who is knowledgeable in the design and implementation of slope stabilization with soil nails and related work. The contractor shall furnish all labor, materials, and equipment required to complete the work. Any necessary installation methods and associated costs are the responsibility of the contractor. The Contractor and the Contractor's Engineer will also warrant the stability of the repaired roadway section for a period of 5 years.		
31 32 36 11-0002 BioWall® ^(31 32 36 11-0001) Note: Furnish and install the BioWall® to integrate with Launched Soil Nails™, SuperNails® or Self Drilling SuperNails®. The BioWall® is a confined soil/compost mass capable of sustaining vegetation at slope angles up to ¼(H):1(V), and is composed of 2 layers of galvanized wire mesh and 2 layers of lightweight geosynthetic encasing a seeded compost and/or topsoil mix, tied to the soil nails by steel plates. Furnish equipment and incidentals necessary to complete the work. BioWall® to soil nail connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0003 SF BioWall® Construction.....	25.00	
31 32 36 11-0004 Green Terra Mesh ^(31 32 36 11-0001) Note: Furnish and install the Green Terra Mesh. Furnish equipment and incidentals necessary to complete the work. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0005 EA Green Terra Mesh	635.25	
31 32 36 11-0006 GeoSynthetically Confined Soil™ (GCS®) Components ^(31 32 36 11-0001) Note: Furnish and install geosynthetic reinforcement, backfill and facing element to construct a Geosynthetically Confined Soil Wall™ (GCS®). Designs shall comply with the Design Standards for Geosynthetically Confined Soil Walls (adapted from the NCHRP Report 556 – Design and Construction Guidelines for Geosynthetic – Reinforced Soil Bridge Abutments with a Flexible Facing) noted below. Reinforcement Selection and Placement: Geosynthetic reinforcement shall consist of high-tenacity geotextiles manufactured for soil reinforcement applications. Geotextiles shall not be exposed to sunlight and extreme temperatures for an extended period of time. Damaged or improperly handled geosynthetic reinforcement shall be rejected. Use a woven polypropylene geotextile with ultimate tensile strength of 2400 lbs/ft (Amoco 2044 or similar) in the cross-machine direction (as per ASTM D4595). The geosynthetic reinforcement perpendicular to the wall face should consist of one continuous piece of material. Overlap of reinforcement in the design strength direction is not permitted. Adjacent sections of geosynthetic reinforcement should be placed so as to ensure that horizontal coverage shown on the plans is provided. Tracked construction equipment shall not be operated directly on the geosynthetic reinforcement. A minimum backfill thickness of 150 mm (6 in.) is required before operation of tracked vehicles over the geosynthetic reinforcement. Turning of tracked vehicles should be kept to a minimum to prevent displacing the fill and damaging or moving the geosynthetic reinforcement. Rubber-tired equipment may pass over the geosynthetic reinforcement at slow speeds less than 17 km/hr (10 miles/hr). Sudden braking and sharp turning should be avoided. Backfill Specifications: Structure backfill material should consist of material free from organic or other unsuitable material as determined by the Contractor's Engineer. Grading of the backfill should be as follows: 100 percent passing 100 mm (4 in.) sieve, 0-60 percent passing No. 40 (0.425 mm) sieve, and 0-15 percent passing No. 200 (0.075mm) sieve; plasticity index (PI) as determined by AASHTO T90, should not exceed 6. The backfill should exhibit an angle of internal friction of not less than 34 degrees, as determined by the standard direct shear test on the portion finer than 2 mm (No.10) sieve, using a sample compacted to 95 percent of AASHTO T-99, Methods C or D, at optimum moisture content. No testing is required for backfills where 80 percent of sizes are greater than 19 mm. The backfill should be substantially free of shale or other soft, poor durability particles and should have an organic content not larger than 1 percent. The backfill should have a pH between 4.5 and 9. Backfill Placement: Reinforced fill should be placed as specified in construction plans in compacted lift thickness of 8in, but in no case in lifts greater than 12in. Reinforced fill should be placed and compacted at or within 2 percent dry of the optimum moisture content. If the reinforced fill is free draining (i.e., with less than 5 percent passing a No. 200 sieve), water content of the fill may be within ±3 percent of the optimum. A minimum density of 90 percent of standard Proctor density is required. Optimum compaction is 100 percent of AASHTO T-99 (or 95 percent of AASHTO T-180) but this may not be possible throughout the wall structure. If significant percentage of the backfill is coarse material (i.e., greater than 30 percent retained on the 19 mm, or ¾ in., sieve), a procedural specification may be used to verify compaction, (no less than two passes with a conventional vibratory plate compaction equipment). Backfill should be placed, spread, and compacted so as to prevent the development of wrinkles or movement of the geosynthetic reinforcement and the wall facing units. Only hand-operated compaction equipment should be allowed within 0.5 m (1.5 ft) of the front of the See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0007 SF GeoSynthetically Confined Soil™ (GCS®) Wall Construction	23.75	
31 32 36 11-0008 EA Note: Installation sold per square face foot (excludes materials)		
31 32 36 11-0009 EA GeoSynthetically Confined Soil™ (GCS®) Wall Galvanized Wire Basket Units (approximately 10' x 120')	108.50	
31 32 36 11-0010 SF GeoSynthetically Confined Soil™ (GCS®) Wall Concrete Masonry Units (approximately 8' x 8' x 16')	6.50	
31 32 36 11-0010 SF GeoSynthetically Confined Soil™ (GCS®) Wall Woven Geotextile	0.75	
31 32 36 11-0011 Turf ^(31 32 36 11-0001) Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0012 Permanent Turf Reinforcing Mat (TRM) ^(31 32 36 11-0011) Note: Furnish a web of mechanically bonded synthetic fibers that are entangled to form a strong and dimensionally stable mat. Place fibers between 2 or 3 high-strength, biaxially oriented nets mechanically bound together by stitching with polyolefin thread. The netting material must be resistant to biological, chemical, and ultra-violet degradation.		
31 32 36 11-0013 SF Permanent Turf Reinforcement Mat.....	1.50	
Note: sold per square face foot		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 32 36 11-0014	Biodegradable Turf Reinforcing Mat (TRM) <small>(31 32 36 11-0011)</small> Note: Furnish a geotextile composed of seed free processed natural fiber matrix mechanically bound together with 100% degradable binding fiber or netting to form a continuous matrix.	
31 32 36 11-0015	SF Biodegradable Turf Reinforcement Mat Note: sold per square face foot	0.75

31 32 36 11-0016	Shotcrete or Gunit <small>(31 32 36 11-0001)</small> Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).	
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31 32 36 11-0017	Wet-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ <small>(31 32 36 11-0016)</small> Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a wet-mix. The wet-mix process consists of thoroughly mixing all the ingredients except accelerating admixtures, but including the mixing water, introducing the mixture into the delivery equipment and delivering it, by positive displacement, to the nozzle. Air jet the wet-mix shotcrete from the nozzle at high velocity onto the surface. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement AASHTO M85/ ASTM C150, Type I, II, III or V. Fine Aggregate AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate AASHTO M80, Class B for quality Water Clean and Potable. AASHTO M157/ASTM C94 Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. Water-reducer and Superplastisizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size Percent Passing by Weight 1/2" 100 3/8" 90-100 No. 4 70-85 No. 8 100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 psi in 3 days and 4000 psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C685. Use mixing equipment that thoroughly blends the materials in sufficient quantity to maintain placing continuity. Produce ready mix shotcrete complying	
31 32 36 11-0018	SFI Wet-Mix Reinforced Shotcrete Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).	5.50



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Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<p>31 32 36 11-0019 Dry-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ <small>(31 32 36 11-0016)</small></p> <p>Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a dry-mix. The dry-mix process consists of thoroughly mixing Portland cement and aggregate (and or synthetic fiber) thoroughly mixed dry, passed through a cement gun and conveyed by air through a flexible tube, hydrated at a nozzle at the end of such flexible tube and deposited by air pressure in its place of final repose. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement AASHTO M85/ ASTM C150, Type I, II, or III. Fine Aggregate AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate AASHTO M80, Class B for quality Fiber Reinforcement ASTM C116-00 Water Clean and Potable. AASHTO M157/ASTM C94 and shall be maintained at a uniform pressure which shall be at least 15 pounds per square inch above air pressure at the nozzle. Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. Water-reducer and Superplasticizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size Percent Passing by Weight 1/2" 100 3/8" 90-100 No. 4 70-85 No. 8 100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 psi in 3 days and 4000 psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C6</p>	8.50	
<p>31 32 36 11-0020 SFI Dry-Mix Reinforced Gunite.....</p> <p>Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).</p>	8.50	
<p>31 32 36 11-0021 Steel Fiber Reinforcement for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ <small>(31 32 36 11-0016)</small></p>		
<p>31 32 36 11-0022 SFI Steel Fiber Reinforcement</p> <p>Note: sold per inch thickness over one square face foot of area</p>	1.25	
<p>31 32 36 11-0023 Steel Mesh and Steel Plates for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® <small>(31 32 36 11-0001)</small></p> <p>Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).</p>		
<p>31 32 36 11-0024 Steel Mesh Surface Treatment for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® <small>(31 32 36 11-0023)</small></p> <p>Note: Furnish Galfan® Coated Steel Mesh for use with Launched Soil Nails™, SuperNails®, or Self Drilling SuperNails® that is a double twisted hexagonal galvanized steel wire mesh manufactured according to ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions. Alternately, the mesh may be a diamond shaped, three dimensional mesh made with high capacity 3-millimeter diameter wire. Furnish steel plates to connect the mesh to the nail systems described herein. Furnish equipment and incidentals necessary to complete the work. Soil Nail to mesh connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.</p>		
<p>31 32 36 11-0025 SF High Capacity Diamond Mesh</p> <p>Note: sold per square face foot</p>	11.00	
<p>31 32 36 11-0026 SF Double Twist Wire Mesh.....</p> <p>Note: sold per square face foot</p>	13.75	
<p>31 32 36 11-0027 Steel Plates <small>(31 32 36 11-0023)</small></p>		
<p>31 32 36 11-0028 EA Galvanized Steel Plates (8x8).....</p>	35.00	
<p>31 32 36 11-0029 EA Galvanized Steel Plates (10x10).....</p>	54.75	
<p>31 32 36 11-0030 EA Galvanized Steel Plates (12x12).....</p>	78.75	
<p>31 32 36 11-0031 EA Epoxy Coated Steel Plates (8x8).....</p>	76.00	
<p>31 32 36 11-0032 EA Epoxy Coated Steel Plates (10x10).....</p>	89.25	
<p>31 32 36 11-0033 EA Epoxy Coated Steel Plates (12x12).....</p>	105.25	

31	31	Earthwork
	31 30	Earthwork Methods
	31 32	Soil Stabilization



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 32 36 11-0034	Drilled Horizontal Drains <small>(31 32 36 11-0001)</small>		
	Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0035	LF Drilled PVC Horizontal Drains (up to 2" Diameter).....	26.00	
31 32 36 11-0036	LF Stripdrain - 6" Wide.....	3.25	
31 32 36 11-0037	LF Stripdrain - 12" Wide.....	4.00	
31 32 36 11-0038	LF PVC Drain Collector Pipe System.....	26.75	

31 32 36 11-0039	Rockfall Stabilization <small>(31 32 36 11-0001)</small>		
	Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0040	SF Scaling.....	3.75	
31 32 36 11-0041	SF Trim Blasting.....	155.00	
31 32 36 11-0042	SY Slope Drape - Double Twist Wire Mesh.....	45.00	
31 32 36 11-0043	SY Slope Drape - Cable Net.....	135.00	
31 32 36 11-0044	SY Slope Drape - Tecco Mesh (4mm).....	135.00	
31 32 36 11-0045	LF Temporary Rockfall Barrier.....	500.00	
31 32 36 11-0046	LF Low Reach Drilling (<25 feet).....	25.00	
31 32 36 11-0047	LF High Reach Drilling (>25 feet).....	45.00	
31 32 36 11-0048	LF Limited Access Drilling.....	100.00	
31 32 36 11-0049	LF F&I Rock Dowel - #8 Grade 75 All-Thread Bar (Galvanized).....	18.50	
31 32 36 11-0050	LF F&I Rock Dowel - #8 Grade 75 All-Thread Bar (Epoxy Coated).....	15.25	
31 32 36 11-0051	LF F&I Rock Dowel - #8 Grade 150 All-Thread Bar (Galvanized).....	23.25	
31 32 36 11-0052	LF F&I Rock Dowel - #8 Grade 150 All-Thread Bar (Epoxy Coated).....	17.25	
31 32 36 11-0053	LF F&I Rock Dowel - #10 Grade 75 All-Thread Bar (Galvanized).....	23.50	
31 32 36 11-0054	LF F&I Rock Dowel - #10 Grade 75 All-Thread Bar (Epoxy Coated).....	18.75	
31 32 36 11-0055	LF F&I Rock Dowel - #10 Grade 150 All-Thread Bar (Galvanized).....	26.50	
31 32 36 11-0056	LF F&I Rock Dowel - #10 Grade 150 All-Thread Bar (Epoxy Coated).....	21.00	
31 32 36 11-0057	LF F&I Rock Dowel - #11 Grade 75 All-Thread Bar (Galvanized).....	29.25	
31 32 36 11-0058	LF F&I Rock Dowel - #11 Grade 75 All-Thread Bar (Epoxy Coated).....	21.00	
31 32 36 11-0059	LF F&I Rock Dowel - #11 Grade 150 All-Thread Bar (Galvanized).....	34.50	
31 32 36 11-0060	LF F&I Rock Dowel - #11 Grade 150 All-Thread Bar (Epoxy Coated).....	31.75	
31 32 36 11-0061	EA Rock Anchor Testing.....	825.00	

31 32 36 11-0062	Mobilization / Demobilization <small>(31 32 36 11-0001)</small>		
31 32 36 11-0063	EA Mobilization - In State.....	10,000.00	
31 32 36 11-0064	EA Mobilization - Out Of State.....	25,000.00	
31 32 36 11-0065	EA Mobilization - Specialty Equipment Adder.....	9,800.00	

31 32 36 11-0066	Daily Crew Rates (DCR) <small>(31 32 36 11-0001)</small>		
31 32 36 11-0067	DAY Soils Stabilization Crew - DCR , Per Workday.....	13,150.00	
31 32 36 11-0068	DAY Rockfall Stabilization Crew - DCR, Per Workday.....	15,200.00	
31 32 36 11-0069	DAY Compaction Grouting Crew - DCR, Per Workday.....	12,925.00	
31 32 36 11-0070	DAY Additional Crew Member/Crew - DCR, Per Workday.....	2,050.00	
31 32 36 11-0071	EA Out of State Crew Rotation.....	4,950.00	
31 32 36 11-0072	EA Spider Excavation.....	5,500.00	

31 32 36 13 Driven Soil Nailing (31 32 36)

31 32 36 13-0001	Large Diameter Micropiles <small>(31 32 36 13)</small>		
	Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 13-0002	LF 5" Micropiles (with up to 5.5" steel casing).....	94.50	
31 32 36 13-0003	LF 7" Micropiles (with up to 7.625" steel casing).....	130.25	
31 32 36 13-0004	LF 10" Micropiles (with up to 9.625" steel casing).....	166.50	
31 32 36 13-0005	LF 12" Micropiles (with up to 11.875" steel casing).....	213.25	

31 32 36 16 Grouted Soil Nailing (31 32 36)

31 32 36 16-0001	Grouting <small>(31 32 36 16)</small>		
	Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		



	Earthwork	31	
	Earthwork Methods	31 30	13
	Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 32 36 16-0002

Compaction Grouting (31 32 36 16-0001)

Note: A. Furnish compaction grout material manufactured on-site (at the project location) in volumetric batching equipment so that grout rheology can be controlled real-time. The grout shall have a slump of 0.50' to 3.0' depending on the specific requirements of the project and shall conform to the engineering plans developed and submitted by the Contractor. Grout components shall consist of Type I/II cement, potable water and aggregate. Fly Ash may be added to the mix per the engineering plans. All aggregate for the compaction grout material shall meet the following requirements: a. 100% passing the 1/2" sieve b. Less than 2% organics c. No bentonite or other clay of medium to high plasticity shall be used. Site conditions and re-leveling requirements shall determine the exact proportions of cement, water and soil. The grout mix shall generally consist of aggregate with up to 12% cement by weight and water to form a very stiff mortar-like mixture. No admixtures shall be used without the Project Manager's approval, and previous testing. Mix design and test results of grout mixture must be submitted and approved by the Project Manager 15 Days prior to the commencement of the work. A. Gradations of the aggregate material to be utilized shall be submitted as part of the submittal process and prior to any work taking place. B. The compaction grouting mixer shall be of a type to ensure complete mixing of the stiff grout, as approved by the Project Manager. The compaction grout mixer shall be of sufficient capacity to continuously deliver grout having a slump of less than 1.5 inches at pressures up to 1,000 psi, at flow rates ranging from 0.1 to 5.0 cubic feet per minute. Gauges shall be provided at the pump and the grout pipe head to measure pressure the rate of flow. Type and location of gauges shall be as specified by the Contractor. A dial gauge or meter capable of measuring to 0.5 cubic feet or less shall be provided to measure the amount of grout pumped into the hole. A pressure gauge shall be graduated in 10-psi increments or less and used to measure the applied pressure. Compaction grout hose shall have a minimum inside diameter of 2 inches with non-restrictive full flow couplings. The hose shall be of sufficient strength for the pressures anticipated, and shall be in good condition.

31 32 36 16-0003	LF	Compaction Grouting Casing Installation.....	52.75
31 32 36 16-0004	CF	Compaction Grout Injection for Soils Densification.....	55.50
31 32 36 16-0005	CF	Compaction Grout For Void Fill.....	39.00

31 32 36 16-0006

Polyurethane Grouting (31 32 36 16-0001)

Note: The material shall be a two part 1:1 ratio by volume, polyurethane-forming mixture, having a water insoluble diluent, which permits the formation of polyurethanes in excess water. The material shall reach 90% Compressive strength in 30 minutes such that traffic may be returned to roadway within 30 minutes after last injection of material. Polyurethane Free-rise Physical Properties Property I Units ASTM Minimum Maximum Density - lb/cf D 1622 3.0 lb/cf 6.0 lb/cf Tensile Strength - psi D 1623 80 psi Compressive Strength at Yield Point - psi D 1621 60 psi Furnish equipment and incidentals necessary to complete the work. Polyurethane grout shall not be used for deep injection (deeper than 3 ft below bottom of structure) or soils densification, it shall only be used for void filling under structures and for re-leveling. The Contractor shall prepare a profile to determine the areas that require void filling and re-leveling and determine the locations of the injection holes for each treated area. The Contractor shall obtain approval for the final proposed grades and the location of injection holes. The Contractor shall submit a plan for approval of the proposed polyurethane injection methods for the designated project areas. The plan shall include, but not be limited to: proposed diameter of casing (if required), depth of placement, angle of inclination, injection tube spacing, and project staging. The plan shall include monitoring procedures to ensure that damage will not occur to any existing structures due to the injection process. Monitoring devices shall be installed on mechanically stabilized earth retaining systems and between approach slabs and approach slab footings or other components to help prevent damage. The Contractor shall drill a pattern of holes as proposed in his plan. The holes shall be located in a manner that the void filling and structure lifting process does not affect any adjoining structures, such as mechanically stabilized earth retaining walls. Holes shall not be drilled within 4" of the edge of the slab, construction joints or major cracks. No more holes shall be drilled and tubes installed during the day than can be filled during that day. On bridge approach and roadway projects, and as applicable, the initial lift shall be at the sleeper footer. The Contractor shall lift the sleeper footer and the approach slab to the desired elevation by injecting material under the structures with care to assure that polyurethane material is not placed between the sleeper footer and the approach slab. The amount of rise shall be controlled by regulating the rate of injection of the high density polyurethane material. When the nozzle is removed from the hole, any excessive polyurethane material shall be removed from the area.

31 32 36 16-0007	LB	Polyurethane Grouting For Void Fill and Re-Leveling.....	11.50
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31 32 36 19 Corrosion-Protected Soil Nailing (31 32 36)

31 32 36 19-0001

Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 19)

Note: Furnish Self-Drilling SuperNails® / SuperMicropiles™ that consist of a hollow, threaded bar with a sacrificial drill bit. Multiple bars may be coupled to produce final length. Bar thread pattern should be continuous and conform to the pullout requirements of ASTM A 615 (Williams Form Engineering B7X or Ischebeck Titan bars, or approved equivalent). R-thread bars, bars/couplers made from high carbon (>0.20%) or high phosphorous (>0.06%) steels, or bars/couplers made from steels that do not meet the tensile ductility requirements of ASTM A 615 shall not be used for any tensile applications. Bar outer diameters shall be a minimum of 1.5 inches and up to and 3 inches depending on design load. Corrosion Protection for Self Drilling Nails shall follow current FHWA guidance. Inserted length and spacing of Self-Drilling SuperNails® / SuperMicropiles™ will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 19-0002

Self-Drilling SuperNails® (31 32 36 19-0001)

31 32 36 19-0003	EA	Self Drilling SuperNails® Up To 10 Ft. Length.....	559.00
31 32 36 19-0004	EA	Self Drilling SuperNails® Up To 20 Ft. Length.....	939.25
31 32 36 19-0005	EA	Self Drilling SuperNails® Up To 30 Ft. Length.....	1,305.75
31 32 36 19-0006	EA	Self Drilling SuperNails® Up To 40 Ft. Length.....	1,735.75
31 32 36 19-0007	EA	Self Drilling SuperNails® Up To 50 Ft. Length.....	2,119.75
31 32 36 19-0008	EA	Self Drilling SuperNails® Up To 60 Ft. Length.....	2,459.25
31 32 36 19-0009	EA	Self Drilling SuperNails® Up To 70 Ft. Length.....	2,879.25
31 32 36 19-0010	EA	Self Drilling SuperNails® Up To 80 Ft. Length.....	3,253.50
31 32 36 19-0011	EA	Additional Cost for 10' High Capacity X-51 Bar	129.50

31 32 36 19-0012

SuperNail® Testing (31 32 36 19)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31	31 Earthwork
	31 30 Earthwork Methods
	31 32 Soil Stabilization



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 32 36 19-0013	EA	SuperNail® Proof Testing	769.00
31 32 36 19-0014	EA	SuperNail® Verification Testing	2,339.75

31 32 36 26 Launched Soil Nailing (31 32 36)

31 32 36 26-0001		Launched SuperDrain™ (Horizontal Drains) (31 32 36 26) Note: Furnish Launched SuperDrain™ up to 20 feet in length composed of a tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized 36ksi steel (ASTM A513) that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities). Drainage perforations consist of 0.5-inch diameter holes drilled or torch-cut at 6 inch spacing along the distal 5 feet of nail. Every other hole is rotated 90° about the longitudinal axis of the nail. Furnish equipment and incidentals necessary to complete the work. Insert Launched SuperDrain™ with a single stroke at initial velocities in excess of 200 miles per hour. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).	
31 32 36 26-0002	EA	GalvaDized™ SuperDrain™ - Up To 20' Note: perforated GalvaDized™ steel tube up to 20 ft. length.	605.00
31 32 36 26-0003	EA	Fiberglass SuperNail® - Up To 20' Note: perforated fiberglass tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.	621.50
31 32 36 26-0004	EA	GalvaDized™ SuperNail® - Up To 20' Note: perforated GalvaDized™ steel tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.	478.50
31 32 36 26-0005	EA	Temporary Launched Soil Nail..... Note: bare steel tube up to 20 ft. length.	379.50
31 32 36 26-0006	EA	Fiberglass SuperDrain™..... Note: perforated fiberglass tube up to 20 ft. length.	495.00
31 32 36 26-0007	EA	GalvaDized™ SuperDrain™..... Note: perforated GalvaDized™ steel tube up to 20 ft. length.	379.50

31 32 36 29 Drilled Soil Nailing (31 32 36)

31 32 36 29-0001		Drilled SuperNails® (Permanently Cased Soil Nails) (31 32 36 29) Note: Furnish SuperNails® that are a three stage construction including installation of (1) an outer tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized steel tube that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities); (2) neat cement grout that completely encases and fills the outer tube; and (3) immediately install an epoxy coated, #6 (or greater) grade 75 threadbar as the inner bar. SuperNails® may be in lengths up to 60 feet. Although field adjustments in design may be allowed on certain projects (subject to approval by the Contractor's Engineer and the Owner) bidding an equivalent system is not allowed (i.e. the winning bidder must have the ability to install the above system). Furnish equipment and incidentals necessary to complete the work. Insert SuperNail® outer tubes with a single stroke at initial velocities in excess of 200 miles per hour or by drilling a hole to a prescribed depth and inserting the outer tube. Fill the outer tube with neat cement grout and immediately insert a #6 or larger epoxy coated inner threadbar. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).	
31 32 36 29-0002	EA	Drilled GalvaDized™ SuperNail® Up To 10 Ft. Length..... Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	602.25
31 32 36 29-0003	EA	Drilled GalvaDized™ SuperNail® Up To 20 Ft. Length..... Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	693.50
31 32 36 29-0004	EA	Drilled GalvaDized™ SuperNail® Up To 30 Ft. Length..... Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	921.50
31 32 36 29-0005	EA	Drilled GalvaDized™ SuperNail® Up To 40 Ft. Length..... Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	1,056.00
31 32 36 29-0006	EA	Drilled GalvaDized™ SuperNail® Up To 50 Ft. Length..... Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	1,171.50
31 32 36 29-0007	EA	Drilled GalvaDized™ SuperNail® Up To 60 Ft. Length..... Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	1,376.50
31 32 36 29-0008	EA	Drilled GalvaDized™ SuperNail® Up To 70 Ft. Length..... Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	1,624.75
31 32 36 29-0009	EA	Drilled GalvaDized™ SuperNail® Up To 80 Ft. Length..... Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	1,872.75

31 32 36 33 Drilled / Launched Soil Nailing (31 32 36)

31 32 36 33-0001		Drilled / Launched SuperMicropiles™ (31 32 36 33) Note: Furnish SuperMicropiles™ that are a three stage construction including installation of (1) an outer tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized steel tube that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities); (2) neat cement grout that completely encases and fills the outer tube; and (3) immediately install an epoxy coated, #6 (or greater) grade 75 threadbar as the inner bar. SuperMicropiles™ may be in lengths up to 60 feet. Although field adjustments in design may be allowed on certain projects (subject to approval by the Contractor's Engineer and the Owner) bidding an equivalent system is not allowed (i.e. the winning bidder must have the ability to install the above system). Furnish equipment and incidentals necessary to complete the work. Insert SuperMicropile™ outer tubes with a single stroke at initial velocities in excess of 200 miles per hour or by drilling a hole to a prescribed depth and inserting the outer tube. Fill the outer tube with neat cement grout and immediately insert a #6 or larger epoxy coated inner threadbar. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.	
31 32 36 33-0002	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 20 Ft. Length..... Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	695.00
31 32 36 33-0003	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 30 Ft. Length..... Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	1,020.00
31 32 36 33-0004	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 40 Ft. Length..... Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	1,280.00
31 32 36 33-0005	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 50 Ft. Length..... Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	1,540.00



Earthwork	31	13
Earthwork Methods	31 30	
Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 35 Slope Protection (31 30)

31 35 19 Geosynthetic Slope Protection (31 35)

31 35 19 19 Slope Protection with Mulch Control Netting (31 35 19)

31 35 19 19-0001 Erosion Control Fabric (31 35 19 19)

31 35 19 19-0002 SY 26.6 OZ/SY Erosion Control Fabric (Belton Industries Geocoir 900)	4.90
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31 36 Gabions (31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, unloading and placing. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

31 36 13 Gabion Boxes (31 36)

31 36 13 00-0001 Stone Filled Gabion Slope Protection (31 36 13)

Note: Machine placed by SY of total top face area for depth indicated.

31 36 13 00-0002 SY 6" Deep Stone Filled Gabion Slope Protection	66.15
31 36 13 00-0003 SY 9" Deep Stone Filled Gabion Slope Protection	78.11
31 36 13 00-0004 SY 12" Deep Stone Filled Gabion Slope Protection	94.28
31 36 13 00-0005 SY 15" Deep Stone Filled Gabion Slope Protection	111.36
31 36 13 00-0006 SY 18" Deep Stone Filled Gabion Slope Protection	130.75
31 36 13 00-0007 SY 24" Deep Stone Filled Gabion Slope Protection	178.99
31 36 13 00-0008 SY 36" Deep Stone Filled Gabion Slope Protection	226.24

31 37 Riprap (31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, and dumping. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

31 37 13 Machined Riprap (31 37)

31 37 13 00-0001 Random - Filter Stone (31 37 13)

31 37 13 00-0002 CY 10 To 50 LB Average Pieces Random, Dumped From Truck, Rip Rap	61.12
<i>For Chinking Material, Add</i>	14.43
31 37 13 00-0003 CY >50 To 100 LB Average Pieces Random, Dumped From Truck, Rip Rap	70.34
<i>For Chinking Material, Add</i>	14.43
31 37 13 00-0004 CY >100 To 200 LB Average Pieces Random, Dumped From Truck, Rip Rap	74.68
<i>For Chinking Material, Add</i>	14.43
31 37 13 00-0005 CY >200 To 300 LB Average Pieces Random, Dumped From Truck, Rip Rap	79.62
<i>For Chinking Material, Add</i>	14.43
31 37 13 00-0006 CY >300 To 600 LB Average Pieces Random, Dumped From Truck, Rip Rap	83.60
<i>For Chinking Material, Add</i>	14.43
31 37 13 00-0007 CY >600 LB Average Pieces Random, Dumped From Truck, Rip Rap	90.11
31 37 13 00-0008 CY 3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap	107.76
31 37 13 00-0009 TON 10 To 50 LB Average Pieces Random, Dumped From Truck, Rip Rap	40.84
31 37 13 00-0010 TON >50 To 100 LB Average Pieces Random, Dumped From Truck, Rip Rap	46.69
31 37 13 00-0011 TON >100 To 200 LB Average Pieces Random, Dumped From Truck, Rip Rap	49.45
31 37 13 00-0012 TON >200 To 300 LB Average Pieces Random, Dumped From Truck, Rip Rap	52.58
31 37 13 00-0013 TON >300 To 600 LB Average Pieces Random, Dumped From Truck, Rip Rap	55.11
31 37 13 00-0014 TON >600 LB Average Pieces Random, Dumped From Truck, Rip Rap	59.30
31 37 13 00-0015 TON 3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap	73.23

31 40 Shoring and Underpinning (31)

31 41 Shoring (31 40)

31 41 13 Timber Shoring (31 41)

31 41 13 00-0001 Wood Sheet Piling (31 41 13)

31 41 13 00-0002 Pull And Salvage (31 41 13 00-0001)

Note: Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-backs (rock bolting) where required.

31 41 13 00-0003 SF 8' Deep Excavation, Wood Shoring, Pull And Salvage	14.50
<i>For Wood Sheeting Left In Place</i>	0.69
31 41 13 00-0004 SF 10' Deep Excavation, Wood Shoring, Pull And Salvage	15.59
<i>For Wood Sheeting Left In Place</i>	0.54
31 41 13 00-0005 SF 12' Deep Excavation, Wood Shoring, Pull And Salvage	16.79
<i>For Wood Sheeting Left In Place</i>	0.39
31 41 13 00-0006 SF 14' Deep Excavation, Wood Shoring, Pull And Salvage	18.08
<i>For Wood Sheeting Left In Place</i>	0.19
31 41 13 00-0007 SF 16' Deep Excavation, Wood Shoring, Pull And Salvage	19.48
<i>For Wood Sheeting Left In Place</i>	-0.01
31 41 13 00-0008 SF 18' Deep Excavation, Wood Shoring, Pull And Salvage	20.99
<i>For Wood Sheeting Left In Place</i>	-0.26
31 41 13 00-0009 SF 20' Deep Excavation, Wood Shoring, Pull And Salvage	22.64
<i>For Wood Sheeting Left In Place</i>	-0.52

31	Earthwork
31 40	Shoring and Underpinning
31 41	Shoring



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 41 16 Sheet Piling ^(31 41)

31 41 16 13 Steel Sheet Piling ^(31 41 16)

31 41 16 13-0001 Standard Carbon Grade Steel Sheeting - Pull And Salvage ^(31 41 16 13)

Note: Up to 3 months. 38.5 KSI steel per SF minimum. PSF indicated is for the weight of the material per square foot. Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-backs (rock bolting) where required.

31 41 16 13-0002	TON Driven Steel Sheet Piling, 15' Excavation, 22 PSF Steel Sheeting, Pull And Salvage.....	2,113.44
	<i>For Standard Sheeting Left In Place, Add</i>	1,130.12
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	1,087.24
	<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	96.48
	<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	107.20
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	332.31
	<i>For Each Additional Month >3 Months, Add</i>	53.60
31 41 16 13-0003	TON Driven Steel Sheet Piling, 20' Excavation, 27 PSF Steel Sheeting, Pull And Salvage.....	2,198.43
	<i>For Standard Sheeting Left In Place, Add</i>	1,087.62
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	1,044.75
	<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	96.48
	<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	107.20
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	332.31
	<i>For Each Additional Month >3 Months, Add</i>	53.60
31 41 16 13-0004	TON Driven Steel Sheet Piling, 25' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....	2,593.54
	<i>For Standard Sheeting Left In Place, Add</i>	890.07
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	847.19
	<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	96.48
	<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	107.20
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	332.31
	<i>For Each Additional Month >3 Months, Add</i>	53.60
31 41 16 13-0005	TON Driven Steel Sheet Piling, 30' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....	2,973.74
	<i>For Standard Sheeting Left In Place, Add</i>	699.97
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	657.09
	<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	96.48
	<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	107.20
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	332.31
	<i>For Each Additional Month >3 Months, Add</i>	53.60
31 41 16 13-0006	TON Driven Steel Sheet Piling, 35' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....	3,197.39
	<i>For Standard Sheeting Left In Place, Add</i>	588.14
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	545.27
	<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	96.48
	<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	107.20
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	332.31
	<i>For Each Additional Month >3 Months, Add</i>	53.60
31 41 16 13-0007	TON Driven Steel Sheet Piling, 40' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....	3,425.52
	<i>For Standard Sheeting Left In Place, Add</i>	474.08
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add</i>	431.20
	<i>For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add</i>	96.48
	<i>For High Strength Sheeting 55,000 PSI Grade, Add</i>	107.20
	<i>For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add</i>	332.31
	<i>For Each Additional Month >3 Months, Add</i>	53.60

31 45 Vibroflotation and Densification ^(31 40)

31 45 13 Vibroflotation ^(31 45)

31 45 13 00-0001	LCY Soil Stabilization, Vibroflotation.....	15.44
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31 60 Special Foundations and Load-bearing Elements ⁽³¹⁾

31 62 Driven Piles ^(31 60)

31 62 13 Concrete Piles ^(31 62)

31 62 13 23 Prestressed Concrete Piles ^(31 62 13)

31 62 13 23-0001 Square Prestressed Driven Concrete Piles ^(31 62 13 23)

31 62 13 23-0002	VLF 10" Square Prestressed Driven Concrete Pile	33.07
	<i>For Piles Driven In Water, Add</i>	16.11
31 62 13 23-0003	VLF 12" Square Prestressed Driven Concrete Pile	41.47
	<i>For Piles Driven In Water, Add</i>	18.14
31 62 13 23-0004	VLF 14" Square Prestressed Driven Concrete Pile	50.26
	<i>For Piles Driven In Water, Add</i>	19.97
31 62 13 23-0005	VLF 16" Square Prestressed Driven Concrete Pile	61.54
	<i>For Piles Driven In Water, Add</i>	22.16
31 62 13 23-0006	VLF 18" Square Prestressed Driven Concrete Pile	74.69
	<i>For Piles Driven In Water, Add</i>	24.70
31 62 13 23-0007	VLF 20" Square Prestressed Driven Concrete Pile	86.38
	<i>For Piles Driven In Water, Add</i>	27.30
31 62 13 23-0008	VLF 24" Square Prestressed Driven Concrete Pile	110.15
	<i>For Piles Driven In Water, Add</i>	31.38



Earthwork	31	13
Special Foundations and Load-bearing Elements	31 60	
Driven Piles	31 62	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 13 23-0009 Octagonal Prestressed Driven Concrete Piles <small>(31 62 13 23)</small>		
31 62 13 23-0010 VLF 12" Octagonal Prestressed Driven Concrete Pile	37.14	
<i>For Piles Driven In Water, Add</i>	16.89	
31 62 13 23-0011 VLF 14" Octagonal Prestressed Driven Concrete Pile	45.55	
<i>For Piles Driven In Water, Add</i>	18.55	
31 62 13 23-0012 VLF 16" Octagonal Prestressed Driven Concrete Pile	54.10	
<i>For Piles Driven In Water, Add</i>	20.35	
31 62 13 23-0013 VLF 18" Octagonal Prestressed Driven Concrete Pile	64.65	
<i>For Piles Driven In Water, Add</i>	22.47	
31 62 13 23-0014 VLF 20" Octagonal Prestressed Driven Concrete Pile	68.82	
<i>For Piles Driven In Water, Add</i>	24.12	
31 62 13 23-0015 VLF 24" Octagonal Prestressed Driven Concrete Pile	73.23	
<i>For Piles Driven In Water, Add</i>	25.99	
31 62 13 23-0016 Straight Cylinder Prestressed Driven Concrete Piles <small>(31 62 13 23)</small>		
31 62 13 23-0017 VLF 12" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile	53.25	
<i>For Piles Driven In Water, Add</i>	17.77	
31 62 13 23-0018 VLF 14" Diameter, 2-1/2" Wall, Straight Cylinder Prestressed Driven Concrete Pile	63.07	
<i>For Piles Driven In Water, Add</i>	19.48	
31 62 13 23-0019 VLF 16" Diameter, 3" Wall, Straight Cylinder Prestressed Driven Concrete Pile	74.68	
<i>For Piles Driven In Water, Add</i>	21.46	
31 62 13 23-0020 VLF 18" Diameter, 3-1/2" Wall, Straight Cylinder Prestressed Driven Concrete Pile	84.49	
<i>For Piles Driven In Water, Add</i>	23.39	
31 62 13 23-0021 VLF 20" Diameter, 4" Wall, Straight Cylinder Prestressed Driven Concrete Pile	106.11	
<i>For Piles Driven In Water, Add</i>	26.61	
31 62 13 23-0022 VLF 24" Diameter, 5" Wall, Straight Cylinder Prestressed Driven Concrete Pile	131.09	
<i>For Piles Driven In Water, Add</i>	30.34	
31 62 16 Steel Piles <small>(31 62)</small>		
31 62 16 16 Steel H Piles <small>(31 62 16)</small>		
31 62 16 16-0001 Rolled, Driven Steel H Piles <small>(31 62 16 16)</small>		
31 62 16 16-0002 VLF 8" x 8" x 36 LB/FT, Rolled, Driven Steel H Pile	34.00	
<i>For Piles Driven In Water, Add</i>	17.40	
31 62 16 16-0003 VLF 10" x 10" x 42 LB/FT, Rolled, Driven Steel H Pile	37.86	
<i>For Piles Driven In Water, Add</i>	18.48	
31 62 16 16-0004 VLF 10" x 10" x 57 LB/FT, Rolled, Driven Steel H Pile	45.54	
<i>For Piles Driven In Water, Add</i>	19.25	
31 62 16 16-0005 VLF 12" x 12" x 53 LB/FT, Rolled, Driven Steel H Pile	43.97	
<i>For Piles Driven In Water, Add</i>	19.53	
31 62 16 16-0006 VLF 12" x 12" x 63 LB/FT, Rolled, Driven Steel H Pile	49.10	
<i>For Piles Driven In Water, Add</i>	20.04	
31 62 16 16-0007 VLF 12" x 12" x 74 LB/FT, Rolled, Driven Steel H Pile	56.15	
<i>For Piles Driven In Water, Add</i>	22.01	
31 62 16 16-0008 VLF 12" x 12" x 84 LB/FT, Rolled, Driven Steel H Pile	61.27	
<i>For Piles Driven In Water, Add</i>	22.53	
31 62 16 16-0009 VLF 14" x 14" x 73 LB/FT, Rolled, Driven Steel H Pile	56.08	
<i>For Piles Driven In Water, Add</i>	22.41	
31 62 16 16-0010 VLF 14" x 14" x 89 LB/FT, Rolled, Driven Steel H Pile	64.80	
<i>For Piles Driven In Water, Add</i>	23.28	
31 62 16 16-0011 VLF 14" x 14" x 102 LB/FT, Rolled, Driven Steel H Pile	72.50	
<i>For Piles Driven In Water, Add</i>	25.45	
31 62 16 16-0012 VLF 14" x 14" x 117 LB/FT, Rolled, Driven Steel H Pile	80.70	
<i>For Piles Driven In Water, Add</i>	26.27	
31 62 16 16-0013 Splices, Caps, And Points For H-Piles <small>(31 62 16 16)</small>		
31 62 16 16-0014 Rolled Steel H Pile Splices <small>(31 62 16 16-0013)</small>		
31 62 16 16-0015 EA 8" Rolled Steel H Pile Splice	294.31	
31 62 16 16-0016 EA 10" Rolled Steel H Pile Splice	330.71	
31 62 16 16-0017 EA 12" Rolled Steel H Pile Splice	452.73	
31 62 16 16-0018 EA 14" Rolled Steel H Pile Splice	470.93	
31 62 16 16-0019 Rolled Steel H Driving Caps <small>(31 62 16 16-0013)</small>		
31 62 16 16-0020 EA 8" Rolled Steel H Driving Cap	3,023.02	
31 62 16 16-0021 EA 10" Rolled Steel H Driving Cap	3,023.02	
31 62 16 16-0022 EA 12" Rolled Steel H Driving Cap	3,077.51	
31 62 16 16-0023 EA 14" Rolled Steel H Driving Cap	4,624.66	
31 62 16 16-0024 Rolled Steel H Standard Pile Points <small>(31 62 16 16-0013)</small>		
31 62 16 16-0025 EA 8" Rolled Steel H Standard Pile Point	312.51	
31 62 16 16-0026 EA 10" Rolled Steel H Standard Pile Point	330.71	
31 62 16 16-0027 EA 12" Rolled Steel H Standard Pile Point	452.73	
31 62 16 16-0028 EA 14" Rolled Steel H Standard Pile Point	507.34	
31 62 16 16-0029 EA 10" Rolled Steel H Standard Pile Point	452.73	
31 62 16 16-0030 EA 14" Rolled Steel H Standard Pile Point	542.59	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 62 Driven Piles**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**31 62 16 19 Unfilled Tubular Steel Piles** (31 62 16)**31 62 16 19-0001 Unfilled Tubular Driven Steel Piles** (31 62 16 19)

31 62 16 19-0002	VLF	8" Diameter x 29 LB/FT, Unfilled Tubular Driven Steel Pile	53.86
		<i>For Piles Driven In Water, Add</i>	23.31
31 62 16 19-0003	VLF	8" Diameter x 36 LB/FT, Unfilled Tubular Driven Steel Pile	62.34
		<i>For Piles Driven In Water, Add</i>	24.16
31 62 16 19-0004	VLF	8" Diameter x 43 LB/FT, Unfilled Tubular Driven Steel Pile	71.51
		<i>For Piles Driven In Water, Add</i>	25.08
31 62 16 19-0005	VLF	10" Diameter x 34 LB/FT, Unfilled Tubular Driven Steel Pile	62.34
		<i>For Piles Driven In Water, Add</i>	24.16
31 62 16 19-0006	VLF	10" Diameter x 41 LB/FT, Unfilled Tubular Driven Steel Pile	70.41
		<i>For Piles Driven In Water, Add</i>	24.97
31 62 16 19-0007	VLF	10" Diameter x 55 LB/FT, Unfilled Tubular Driven Steel Pile	88.22
		<i>For Piles Driven In Water, Add</i>	26.75
31 62 16 19-0008	VLF	12" Diameter x 42 LB/FT, Unfilled Tubular Driven Steel Pile	73.38
		<i>For Piles Driven In Water, Add</i>	26.20
31 62 16 19-0009	VLF	12" Diameter x 50 LB/FT, Unfilled Tubular Driven Steel Pile	82.81
		<i>For Piles Driven In Water, Add</i>	27.15
31 62 16 19-0010	VLF	12" Diameter x 54 LB/FT, Unfilled Tubular Driven Steel Pile	88.06
		<i>For Piles Driven In Water, Add</i>	27.67
31 62 16 19-0011	VLF	12" Diameter x 65 LB/FT, Unfilled Tubular Driven Steel Pile	102.73
		<i>For Piles Driven In Water, Add</i>	29.14
31 62 16 19-0012	VLF	14" Diameter x 46 LB/FT, Unfilled Tubular Driven Steel Pile	79.35
		<i>For Piles Driven In Water, Add</i>	28.78
31 62 16 19-0013	VLF	14" Diameter x 55 LB/FT, Unfilled Tubular Driven Steel Pile	90.03
		<i>For Piles Driven In Water, Add</i>	29.85
31 62 16 19-0014	VLF	14" Diameter x 64 LB/FT, Unfilled Tubular Driven Steel Pile	100.70
		<i>For Piles Driven In Water, Add</i>	30.91
31 62 16 19-0015	VLF	14" Diameter x 72 LB/FT, Unfilled Tubular Driven Steel Pile	111.38
		<i>For Piles Driven In Water, Add</i>	31.98
31 62 16 19-0016	VLF	16" Diameter x 52 LB/FT, Unfilled Tubular Driven Steel Pile	88.27
		<i>For Piles Driven In Water, Add</i>	32.10
31 62 16 19-0017	VLF	16" Diameter x 63 LB/FT, Unfilled Tubular Driven Steel Pile	100.75
		<i>For Piles Driven In Water, Add</i>	33.35
31 62 16 19-0018	VLF	16" Diameter x 83 LB/FT, Unfilled Tubular Driven Steel Pile	125.09
		<i>For Piles Driven In Water, Add</i>	35.78
31 62 16 19-0019	VLF	18" Diameter x 59 LB/FT, Unfilled Tubular Driven Steel Pile	109.12
		<i>For Piles Driven In Water, Add</i>	36.15
31 62 16 19-0020	VLF	18" Diameter x 71 LB/FT, Unfilled Tubular Driven Steel Pile	125.33
		<i>For Piles Driven In Water, Add</i>	37.77
31 62 16 19-0021	VLF	18" Diameter x 93 LB/FT, Unfilled Tubular Driven Steel Pile	156.14
		<i>For Piles Driven In Water, Add</i>	40.85

31 62 16 19-0022 Splices And Points For Pipe Piles (31 62 16 19)**31 62 16 19-0023 Steel Pipe Pile Splices** (31 62 16 19-0022)

31 62 16 19-0024	EA	8" Diameter, Steel Pipe Pile Splice	292.41
31 62 16 19-0025	EA	10" Diameter, Steel Pipe Pile Splice	318.14
31 62 16 19-0026	EA	12" Diameter, Steel Pipe Pile Splice	409.95
31 62 16 19-0027	EA	14" Diameter, Steel Pipe Pile Splice	435.33
31 62 16 19-0028	EA	16" Diameter, Steel Pipe Pile Splice	531.61
31 62 16 19-0029	EA	18" Diameter, Steel Pipe Pile Splice	647.22

31 62 16 19-0030 Steel Pipe Standard Pile Points (31 62 16 19-0022)

31 62 16 19-0031	EA	8" Diameter, Steel Pipe Standard Pile Point	282.64
31 62 16 19-0032	EA	10" Diameter, Steel Pipe Standard Pile Point	303.26
31 62 16 19-0033	EA	12" Diameter, Steel Pipe Standard Pile Point	345.17
31 62 16 19-0034	EA	14" Diameter, Steel Pipe Standard Pile Point	401.85
31 62 16 19-0035	EA	16" Diameter, Steel Pipe Standard Pile Point	453.37
31 62 16 19-0036	EA	18" Diameter, Steel Pipe Standard Pile Point	521.48

31 62 16 19-0037 Steel Pipe Heavy Duty Pile Points (31 62 16 19-0022)

31 62 16 19-0038	EA	10" Diameter, Steel Pipe Heavy Duty Pile Point	409.25
31 62 16 19-0039	EA	12" Diameter, Steel Pipe Heavy Duty Pile Point	435.01
31 62 16 19-0040	EA	14" Diameter, Steel Pipe Heavy Duty Pile Point	490.40
31 62 16 19-0041	EA	16" Diameter, Steel Pipe Heavy Duty Pile Point	593.46
31 62 16 19-0042	EA	18" Diameter, Steel Pipe Heavy Duty Pile Point	678.66

31 62 19 Timber Piles (31 62)**31 62 19 00-0001 Friction Or End Bearing, Driven Treated Wood Piles** (31 62 19)

Note: 12 LB Penta-treated/CF.



Earthwork	31	
Special Foundations and Load-bearing Elements	31 60	15
Driven Piles	31 62	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 19 00-0002 LF Up To 30', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile.....	47.48	
For Piles Driven In Water, Add	17.20	
For Untreated Pile, Deduct	-12.45	
For Each Pile Tip Point, Add	12.50	
For Each Pile Butt, Driving Cap, Add	20.10	
For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0003 LF >30' To 39', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile	49.57	
For Piles Driven In Water, Add	18.95	
For Untreated Pile, Deduct	-12.59	
For Each Pile Tip Point, Add	12.50	
For Each Pile Butt, Driving Cap, Add	20.10	
For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0004 LF 39' To 49', 12" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile	52.17	
For Piles Driven In Water, Add	20.16	
For Untreated Pile, Deduct	-13.16	
For Each Pile Tip Point, Add	12.50	
For Each Pile Butt, Driving Cap, Add	20.10	
For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0005 LF >49' To 59', 13" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile	55.83	
For Piles Driven In Water, Add	22.39	
For Untreated Pile, Deduct	-13.75	
For Each Pile Tip Point, Add	12.50	
For Each Pile Butt, Driving Cap, Add	20.10	
For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0006 LF >59' To 69', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile	70.47	
For Piles Driven In Water, Add	25.71	
For Untreated Pile, Deduct	-18.40	
For Each Pile Tip Point, Add	12.50	
For Each Pile Butt, Driving Cap, Add	20.10	
For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0007 LF >69' To 79', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile	88.49	
For Piles Driven In Water, Add	31.25	
For Untreated Pile, Deduct	-23.53	
For Each Pile Tip Point, Add	12.50	
For Each Pile Butt, Driving Cap, Add	20.10	
For Each Splice For Pile >50', Add	139.40	

31 62 23 Composite Piles (31 62)

31 62 23 13 Concrete-Filled Steel Piles (31 62 23)

31 62 23 13-0001 Concrete-Filled Driven Steel Pipe Piles (31 62 23 13)

Note: Includes 4,000 PSI concrete grout. Excludes reinforcing.

31 62 23 13-0002 VLF 8" Diameter x 29 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	57.73	
For 5,000 PSI Concrete Grout Fill, Add	6.49	
For Piles Driven In Water, Add	25.26	
31 62 23 13-0003 VLF 8" Diameter x 36 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	66.21	
For 5,000 PSI Concrete Grout Fill, Add	7.34	
For Piles Driven In Water, Add	26.11	
31 62 23 13-0004 VLF 8" Diameter x 43 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	75.38	
For 5,000 PSI Concrete Grout Fill, Add	8.25	
For Piles Driven In Water, Add	27.02	
31 62 23 13-0005 VLF 10" Diameter x 34 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	67.96	
For 5,000 PSI Concrete Grout Fill, Add	9.08	
For Piles Driven In Water, Add	26.71	
31 62 23 13-0006 VLF 10" Diameter x 41 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	76.02	
For 5,000 PSI Concrete Grout Fill, Add	9.89	
For Piles Driven In Water, Add	27.52	
31 62 23 13-0007 VLF 10" Diameter x 55 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	93.84	
For 5,000 PSI Concrete Grout Fill, Add	11.67	
For Piles Driven In Water, Add	29.30	
31 62 23 13-0008 VLF 12" Diameter x 42 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	81.27	
For 5,000 PSI Concrete Grout Fill, Add	12.21	
For Piles Driven In Water, Add	29.72	
31 62 23 13-0009 VLF 12" Diameter x 50 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	90.71	
For 5,000 PSI Concrete Grout Fill, Add	13.15	
For Piles Driven In Water, Add	30.66	
31 62 23 13-0010 VLF 12" Diameter x 54 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	95.95	
For 5,000 PSI Concrete Grout Fill, Add	13.68	
For Piles Driven In Water, Add	31.19	
31 62 23 13-0011 VLF 12" Diameter x 65 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	110.62	
For 5,000 PSI Concrete Grout Fill, Add	15.14	
For Piles Driven In Water, Add	32.65	
31 62 23 13-0012 VLF 14" Diameter x 46 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	90.03	
For 5,000 PSI Concrete Grout Fill, Add	15.00	
For Piles Driven In Water, Add	34.24	
31 62 23 13-0013 VLF 14" Diameter x 55 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	100.70	
For 5,000 PSI Concrete Grout Fill, Add	16.07	
For Piles Driven In Water, Add	35.31	
31 62 23 13-0014 VLF 14" Diameter x 64 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	111.38	
For 5,000 PSI Concrete Grout Fill, Add	17.13	
For Piles Driven In Water, Add	36.37	
31 62 23 13-0015 VLF 14" Diameter x 72 LB/FT, Concrete-Filled Driven Steel Pipe Pile.....	122.06	
For 5,000 PSI Concrete Grout Fill, Add	18.20	
For Piles Driven In Water, Add	37.44	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 62 Driven Piles**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 23 13-0016	VLF		16" Diameter x 52 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	99.79 18.51 36.73	
31 62 23 13-0017	VLF		16" Diameter x 63 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	112.28 19.76 37.98	
31 62 23 13-0018	VLF		16" Diameter x 83 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	136.62 22.19 40.41	
31 62 23 13-0019	VLF		18" Diameter x 59 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	122.98 23.68 41.21	
31 62 23 13-0020	VLF		18" Diameter x 71 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	139.20 25.30 42.83	
31 62 23 13-0021	VLF		18" Diameter x 93 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	170.01 28.38 45.91	
31 62 23 13-0022			7 Gauge, Constant Diameter Concrete-Filled Driven Steel Piles <small>(31 62 23 13)</small> Note: End bearing, with fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0023	VLF		12" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	75.03 22.44	
31 62 23 13-0024	VLF		14" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	91.16 25.12	
31 62 23 13-0025	VLF		16" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	103.24 27.56	
31 62 23 13-0026	VLF		18" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	112.30 29.90	
31 62 23 13-0027			Tapered Friction Concrete-Filled Driven Steel Piles <small>(31 62 23 13)</small> Note: With fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0028	VLF		12" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	73.59 22.30	
31 62 23 13-0029	VLF		14" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	75.49 23.55	
31 62 23 13-0030	VLF		16" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	92.26 26.46	
31 62 23 13-0031	VLF		18" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	106.50 29.32	
31 62 23 13-0032			Thin Wall Shell Straight Sided Driven Steel Piles <small>(31 62 23 13)</small>		
31 62 23 13-0033	VLF		8" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	44.03 17.00 0.08	
31 62 23 13-0034	VLF		10" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	48.59 18.85 0.08	
31 62 23 13-0035	VLF		12" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	53.13 20.72 0.09	
31 62 23 13-0036	VLF		14" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	57.70 22.57 0.10	
31 62 23 13-0037	VLF		16" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	62.27 24.43 0.11	
31 63 Bored Piles <small>(31 60)</small>					
31 63 36 Drilled Steel Piles <small>(31 63)</small>					
31 63 36 00-0001			Drill Hole <small>(31 63 36)</small> Note: Excludes removal of excess material.		
31 63 36 00-0002			Drilling Mobilization <small>(31 63 36 00-0001)</small>		
31 63 36 00-0003	EA		>12" To 24" Diameter Hole, Drilling Mobilization	941.99	
31 63 36 00-0004	EA		>24" Diameter Hole, Drilling Mobilization.....	1,255.98	
31 63 36 00-0005			Drill Hole In Soil <small>(31 63 36 00-0001)</small>		
31 63 36 00-0006	LF		18" Diameter, Up To 24' Depth, Drilled/Augered Hole	51.59	
31 63 36 00-0007	LF		20" Diameter, Up To 24' Depth, Drilled/Augered Hole	59.98	
31 63 36 00-0008	LF		22" Diameter, Up To 24' Depth, Drilled/Augered Hole	70.48	
31 63 36 00-0009	LF		24" Diameter, Up To 24' Depth, Drilled/Augered Hole	83.07	
31 63 36 00-0010	LF		26" Diameter, Up To 24' Depth, Drilled/Augered Hole	89.78	
31 63 36 00-0011	LF		28" Diameter, Up To 24' Depth, Drilled/Augered Hole	98.78	
31 63 36 00-0012	LF		30" Diameter, Up To 24' Depth, Drilled/Augered Hole	108.20	



Earthwork	31	13
Special Foundations and Load-bearing Elements	31 60	
Bored Piles	31 63	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 63 36 00-0013 Steel H Piles <small>(31 63 36)</small>		
31 63 36 00-0014 Placed In Drilled Hole, Rolled Steel H-Section Piles <small>(31 63 36 00-0013)</small>		
Note: Includes guides, bracing and alignment.		
31 63 36 00-0015 VLF 8" x 8" x 36 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	30.73	
For >2,400 To 3,600, Deduct	-1.08	
For >3,600 To 4,800, Deduct	-2.15	
For >4,800 To 6,000, Deduct	-3.69	
For >6,000, Deduct	-5.22	
31 63 36 00-0016 VLF 10" x 10" x 42 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	34.42	
For >2,400 To 3,600, Deduct	-1.18	
For >3,600 To 4,800, Deduct	-2.37	
For >4,800 To 6,000, Deduct	-4.09	
For >6,000, Deduct	-5.81	
31 63 36 00-0017 VLF 10" x 10" x 57 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	42.10	
For >2,400 To 3,600, Deduct	-1.37	
For >3,600 To 4,800, Deduct	-2.75	
For >4,800 To 6,000, Deduct	-4.85	
For >6,000, Deduct	-6.96	
31 63 36 00-0018 VLF 12" x 12" x 53 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	40.43	
For >2,400 To 3,600, Deduct	-1.34	
For >3,600 To 4,800, Deduct	-2.69	
For >4,800 To 6,000, Deduct	-4.71	
For >6,000, Deduct	-6.73	
31 63 36 00-0019 VLF 12" x 12" x 63 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	45.56	
For >2,400 To 3,600, Deduct	-1.47	
For >3,600 To 4,800, Deduct	-2.94	
For >4,800 To 6,000, Deduct	-5.22	
For >6,000, Deduct	-7.50	
31 63 36 00-0020 VLF 12" x 12" x 74 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	52.30	
For >2,400 To 3,600, Deduct	-1.67	
For >3,600 To 4,800, Deduct	-3.33	
For >4,800 To 6,000, Deduct	-5.95	
For >6,000, Deduct	-8.56	
31 63 36 00-0021 VLF 12" x 12" x 84 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	57.42	
For >2,400 To 3,600, Deduct	-1.79	
For >3,600 To 4,800, Deduct	-3.59	
For >4,800 To 6,000, Deduct	-6.46	
For >6,000, Deduct	-9.33	
31 63 36 00-0022 VLF 14" x 14" x 73 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	52.14	
For >2,400 To 3,600, Deduct	-1.67	
For >3,600 To 4,800, Deduct	-3.34	
For >4,800 To 6,000, Deduct	-5.95	
For >6,000, Deduct	-8.56	
31 63 36 00-0023 VLF 14" x 14" x 89 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	60.86	
For >2,400 To 3,600, Deduct	-1.89	
For >3,600 To 4,800, Deduct	-3.78	
For >4,800 To 6,000, Deduct	-6.82	
For >6,000, Deduct	-9.87	
31 63 36 00-0024 VLF 14" x 14" x 102 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	68.24	
For >2,400 To 3,600, Deduct	-2.11	
For >3,600 To 4,800, Deduct	-4.21	
For >4,800 To 6,000, Deduct	-7.62	
For >6,000, Deduct	-11.03	
31 63 36 00-0025 VLF 14" x 14" x 117 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	76.44	
For >2,400 To 3,600, Deduct	-2.31	
For >3,600 To 4,800, Deduct	-4.62	
For >4,800 To 6,000, Deduct	-8.44	
For >6,000, Deduct	-12.26	
31 63 36 00-0026 Welded Steel Stud Pins <small>(31 63 36 00-0013)</small>		
Note: Includes welding to steel piles.		
31 63 36 00-0027 EA 5/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins.....	12.56	
For >50 To 150, Deduct	-0.57	
For >150 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.77	
For >500, Deduct	-2.36	
31 63 36 00-0028 EA 5/8" Diameter x 5" Long, Welded Steel Stud Pins.....	13.79	
For >50 To 150, Deduct	-0.57	
For >150 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.46	
31 63 36 00-0029 EA 5/8" Diameter x 7" Long, Welded Steel Stud Pins.....	14.97	
For >50 To 150, Deduct	-0.57	
For >150 To 250, Deduct	-1.23	
For >250 To 500, Deduct	-1.89	
For >500, Deduct	-2.54	
31 63 36 00-0030 EA 3/4" Diameter x 2-1/2" Long, Welded Steel Stud Pins.....	13.86	
For >50 To 150, Deduct	-0.60	
For >150 To 250, Deduct	-1.24	
For >250 To 500, Deduct	-1.89	
For >500, Deduct	-2.53	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 63 Bored Piles**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	31 63 36 00-0031	EA	3/4" Diameter x 5" Long, Welded Steel Stud Pins.....	15.71	
			<i>For >50 To 150, Deduct</i>	-0.60	
			<i>For >150 To 250, Deduct</i>	-1.29	
			<i>For >250 To 500, Deduct</i>	-1.98	
			<i>For >500, Deduct</i>	-2.67	
	31 63 36 00-0032	EA	3/4" Diameter x 7" Long, Welded Steel Stud Pins.....	17.00	
			<i>For >50 To 150, Deduct</i>	-0.60	
			<i>For >150 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-2.04	
			<i>For >500, Deduct</i>	-2.77	
	31 63 36 00-0033	EA	7/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins	15.44	
			<i>For >50 To 150, Deduct</i>	-0.62	
			<i>For >150 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-2.02	
			<i>For >500, Deduct</i>	-2.71	
	31 63 36 00-0034	EA	7/8" Diameter x 5" Long, Welded Steel Stud Pins.....	18.46	
			<i>For >50 To 150, Deduct</i>	-0.62	
			<i>For >150 To 250, Deduct</i>	-1.39	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.94	
	31 63 36 00-0035	EA	7/8" Diameter x 7" Long, Welded Steel Stud Pins.....	19.94	
			<i>For >50 To 150, Deduct</i>	-0.62	
			<i>For >150 To 250, Deduct</i>	-1.43	
			<i>For >250 To 500, Deduct</i>	-2.24	
			<i>For >500, Deduct</i>	-3.05	
	31 63 36 00-0036		Concrete Fill <small>(31 63 36)</small>		
			See CSI section 03 37 16 00-0001 for pumping equipment.		
	31 63 36 00-0037	VLF	18" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	42.70	
	31 63 36 00-0038	VLF	20" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	47.43	
	31 63 36 00-0039	VLF	22" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	52.19	
	31 63 36 00-0040	VLF	24" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	56.92	
	31 63 36 00-0041	VLF	26" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	61.66	
	31 63 36 00-0042	VLF	28" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	66.42	
	31 63 36 00-0043	VLF	30" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	77.50	
	31 64		Caissons <small>(31 60)</small>		
	31 64 13		Box Caissons <small>(31 64)</small>		
	31 64 13 00-0001		Caisson In Stable Ground No Casing Or Ground Water <small>(31 64 13)</small>		
			Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
	31 64 13 00-0002		Caisson In Stable Ground <small>(31 64 13 00-0001)</small>		
			Note: Includes 3000 PSI concrete and reinforcing.		
	31 64 13 00-0003	VLF	18" Diameter Caisson, No Casing Stable Ground, No Ground Water	56.32	
			Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.		
			<i>For >50' To 100' Deep, Add</i>	5.51	
			<i>For >100' To 150' Deep, Add</i>	14.08	
			<i>For >150' To 200' Deep, Add</i>	18.86	
			<i>For Right Angle Drilling, Add</i>	14.80	
			<i>For >3 To 9, Deduct</i>	-1.47	
			<i>For >9, Deduct</i>	-3.04	
	31 64 13 00-0004	VLF	24" Diameter Caisson, No Casing Stable Ground, No Ground Water	71.01	
			Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.		
			<i>For >50' To 100' Deep, Add</i>	7.60	
			<i>For >100' To 150' Deep, Add</i>	17.75	
			<i>For >150' To 200' Deep, Add</i>	24.59	
			<i>For Right Angle Drilling, Add</i>	16.63	
			<i>For >3 To 9, Deduct</i>	-2.47	
			<i>For >9, Deduct</i>	-5.10	
	31 64 13 00-0005	VLF	30" Diameter Caisson, No Casing Stable Ground, No Ground Water	100.63	
			Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.		
			<i>For >50' To 100' Deep, Add</i>	11.24	
			<i>For >100' To 150' Deep, Add</i>	25.16	
			<i>For >150' To 200' Deep, Add</i>	35.43	
			<i>For Right Angle Drilling, Add</i>	22.11	
			<i>For >3 To 9, Deduct</i>	-3.93	
			<i>For >9, Deduct</i>	-8.13	
	31 64 13 00-0006	VLF	36" Diameter Caisson, No Casing Stable Ground, No Ground Water	133.29	
			Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.		
			<i>For >50' To 100' Deep, Add</i>	15.36	
			<i>For >100' To 150' Deep, Add</i>	33.32	
			<i>For >150' To 200' Deep, Add</i>	47.53	
			<i>For Right Angle Drilling, Add</i>	27.80	
			<i>For >3 To 9, Deduct</i>	-5.65	
			<i>For >9, Deduct</i>	-11.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0007 VLF 42" Diameter Caisson, No Casing Stable Ground, No Ground Water Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.	170.99	
<i>For >50' To 100' Deep, Add</i>	20.41	
<i>For >100' To 150' Deep, Add</i>	42.75	
<i>For >150' To 200' Deep, Add</i>	61.85	
<i>For Right Angle Drilling, Add</i>	33.47	
<i>For >3 To 9, Deduct</i>	-7.91	
<i>For >9, Deduct</i>	-16.35	
31 64 13 00-0008 VLF 48" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.	205.82	
<i>For >50' To 100' Deep, Add</i>	25.00	
<i>For >100' To 150' Deep, Add</i>	51.46	
<i>For >150' To 200' Deep, Add</i>	74.99	
<i>For Right Angle Drilling, Add</i>	38.92	
<i>For >3 To 9, Deduct</i>	-9.93	
<i>For >9, Deduct</i>	-20.53	
31 64 13 00-0009 VLF 54" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.	248.67	
<i>For >50' To 100' Deep, Add</i>	31.11	
<i>For >100' To 150' Deep, Add</i>	62.17	
<i>For >150' To 200' Deep, Add</i>	91.73	
<i>For Right Angle Drilling, Add</i>	44.22	
<i>For >3 To 9, Deduct</i>	-12.84	
<i>For >9, Deduct</i>	-26.55	
31 64 13 00-0010 VLF 60" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.	292.30	
<i>For >50' To 100' Deep, Add</i>	37.32	
<i>For >100' To 150' Deep, Add</i>	73.08	
<i>For >150' To 200' Deep, Add</i>	108.77	
<i>For Right Angle Drilling, Add</i>	49.61	
<i>For >3 To 9, Deduct</i>	-15.81	
<i>For >9, Deduct</i>	-32.67	
31 64 13 00-0011 VLF 66" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.88 CY Concrete per VLF, 113 lbs rebar per VLF.	341.64	
<i>For >50' To 100' Deep, Add</i>	44.32	
<i>For >100' To 150' Deep, Add</i>	85.41	
<i>For >150' To 200' Deep, Add</i>	128.00	
<i>For Right Angle Drilling, Add</i>	55.81	
<i>For >3 To 9, Deduct</i>	-19.13	
<i>For >9, Deduct</i>	-39.53	
31 64 13 00-0012 VLF 72" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.	398.34	
<i>For >50' To 100' Deep, Add</i>	52.42	
<i>For >100' To 150' Deep, Add</i>	99.59	
<i>For >150' To 200' Deep, Add</i>	150.17	
<i>For Right Angle Drilling, Add</i>	62.76	
<i>For >3 To 9, Deduct</i>	-23.00	
<i>For >9, Deduct</i>	-47.53	
31 64 13 00-0013 VLF 78" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.	454.85	
<i>For >50' To 100' Deep, Add</i>	60.63	
<i>For >100' To 150' Deep, Add</i>	113.71	
<i>For >150' To 200' Deep, Add</i>	172.44	
<i>For Right Angle Drilling, Add</i>	69.23	
<i>For >3 To 9, Deduct</i>	-26.99	
<i>For >9, Deduct</i>	-55.78	
31 64 13 00-0014 VLF 84" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.	515.19	
<i>For >50' To 100' Deep, Add</i>	69.45	
<i>For >100' To 150' Deep, Add</i>	128.80	
<i>For >150' To 200' Deep, Add</i>	196.30	
<i>For Right Angle Drilling, Add</i>	75.97	
<i>For >3 To 9, Deduct</i>	-31.30	
<i>For >9, Deduct</i>	-64.69	
31 64 13 00-0015 For Bell Excavation And Concrete, Add <small>(31 64 13 00-0001)</small>		
31 64 13 00-0016 EA Bell Excavation And Concrete, 4' Bell Diameter Stable Ground, 24" Shaft, 0.44 CY <i>For >50' To 100' Deep, Add</i> <i>For >100' To 150' Deep, Add</i> <i>For >150' To 200' Deep, Add</i> <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	429.01	
<i>For >50' To 100' Deep, Add</i>	35.01	
<i>For >100' To 150' Deep, Add</i>	107.25	
<i>For >150' To 200' Deep, Add</i>	134.93	
<i>For >3 To 9, Deduct</i>	-4.67	
<i>For >9, Deduct</i>	-9.64	
31 64 13 00-0017 EA Bell Excavation And Concrete, 6' Bell Diameter Stable Ground, 30" Shaft, 1.57 CY <i>For >50' To 100' Deep, Add</i> <i>For >100' To 150' Deep, Add</i> <i>For >150' To 200' Deep, Add</i> <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	1,508.20	
<i>For >50' To 100' Deep, Add</i>	123.27	
<i>For >100' To 150' Deep, Add</i>	377.05	
<i>For >150' To 200' Deep, Add</i>	474.58	
<i>For >3 To 9, Deduct</i>	-16.59	
<i>For >9, Deduct</i>	-34.29	
31 64 13 00-0018 EA Bell Excavation And Concrete, 7' Bell Diameter Stable Ground, 36" Shaft, 2.33 CY <i>For >50' To 100' Deep, Add</i> <i>For >100' To 150' Deep, Add</i> <i>For >150' To 200' Deep, Add</i> <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	2,282.09	
<i>For >50' To 100' Deep, Add</i>	189.52	
<i>For >100' To 150' Deep, Add</i>	570.52	
<i>For >150' To 200' Deep, Add</i>	721.85	
<i>For >3 To 9, Deduct</i>	-27.91	
<i>For >9, Deduct</i>	-57.69	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
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31 64 13 00-0019	EA	Bell Excavation And Concrete, 8' Bell Diameter Stable Ground, 42" Shaft, 3.30 CY	3,167.91	
		<i>For >50' To 100' Deep, Add</i>	263.60	
		<i>For >100' To 150' Deep, Add</i>	791.98	
		<i>For >150' To 200' Deep, Add</i>	1,002.69	
		<i>For >3 To 9, Deduct</i>	-39.23	
		<i>For >9, Deduct</i>	-81.09	
31 64 13 00-0020	EA	Bell Excavation And Concrete, 9' Bell Diameter Stable Ground, 48" Shaft, 4.48 CY	4,297.00	
		<i>For >50' To 100' Deep, Add</i>	351.12	
		<i>For >100' To 150' Deep, Add</i>	1,074.25	
		<i>For >150' To 200' Deep, Add</i>	1,352.01	
		<i>For >3 To 9, Deduct</i>	-47.19	
		<i>For >9, Deduct</i>	-97.52	
31 64 13 00-0021	EA	Bell Excavation And Concrete, 10' Bell Diameter Stable Ground, 60" Shaft, 5.24 CY	5,052.58	
		<i>For >50' To 100' Deep, Add</i>	412.68	
		<i>For >100' To 150' Deep, Add</i>	1,263.15	
		<i>For >150' To 200' Deep, Add</i>	1,589.52	
		<i>For >3 To 9, Deduct</i>	-55.31	
		<i>For >9, Deduct</i>	-114.31	
31 64 13 00-0022	EA	Bell Excavation And Concrete, 12' Bell Diameter Stable Ground, 72" Shaft, 8.74 CY	8,568.64	
		<i>For >50' To 100' Deep, Add</i>	698.44	
		<i>For >100' To 150' Deep, Add</i>	2,142.16	
		<i>For >150' To 200' Deep, Add</i>	2,693.89	
		<i>For >3 To 9, Deduct</i>	-92.47	
		<i>For >9, Deduct</i>	-191.11	
31 64 13 00-0023	EA	Bell Excavation And Concrete, 14' Bell Diameter Stable Ground, 84" Shaft, 13.6 CY	12,392.36	
		<i>For >50' To 100' Deep, Add</i>	1,020.49	
		<i>For >100' To 150' Deep, Add</i>	3,098.09	
		<i>For >150' To 200' Deep, Add</i>	3,908.99	
		<i>For >3 To 9, Deduct</i>	-143.46	
		<i>For >9, Deduct</i>	-296.48	

31 64 13 00-0024 Caisson In Wet Ground, Casing Pulled ^(31 64 13)
 Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.

31 64 13 00-0025 Caisson In Wet Ground ^(31 64 13 00-0024)
 Note: Includes 3000 PSI concrete and reinforcing.

31 64 13 00-0026	VLF	18" Diameter Caisson Wet Ground, Casing Pulled.....	62.38	
		Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.		
		<i>For >50' To 100' Deep, Add</i>	5.93	
		<i>For >100' To 150' Deep, Add</i>	15.60	
		<i>For >150' To 200' Deep, Add</i>	20.67	
		<i>For Right Angle Drilling, Add</i>	16.95	
		<i>For >3 To 9, Deduct</i>	-1.47	
		<i>For >9, Deduct</i>	-3.03	
31 64 13 00-0027	VLF	24" Diameter Caisson Wet Ground, Casing Pulled.....	104.28	
		Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.		
		<i>For >50' To 100' Deep, Add</i>	9.93	
		<i>For >100' To 150' Deep, Add</i>	26.07	
		<i>For >150' To 200' Deep, Add</i>	34.57	
		<i>For Right Angle Drilling, Add</i>	28.28	
		<i>For >3 To 9, Deduct</i>	-2.47	
		<i>For >9, Deduct</i>	-5.10	
31 64 13 00-0028	VLF	30" Diameter Caisson Wet Ground, Casing Pulled.....	138.09	
		Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.		
		<i>For >50' To 100' Deep, Add</i>	13.86	
		<i>For >100' To 150' Deep, Add</i>	34.52	
		<i>For >150' To 200' Deep, Add</i>	46.67	
		<i>For Right Angle Drilling, Add</i>	35.22	
		<i>For >3 To 9, Deduct</i>	-3.93	
		<i>For >9, Deduct</i>	-8.13	
31 64 13 00-0029	VLF	36" Diameter Caisson Wet Ground, Casing Pulled.....	189.61	
		Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.		
		<i>For >50' To 100' Deep, Add</i>	19.30	
		<i>For >100' To 150' Deep, Add</i>	47.40	
		<i>For >150' To 200' Deep, Add</i>	64.42	
		<i>For Right Angle Drilling, Add</i>	47.52	
		<i>For >3 To 9, Deduct</i>	-5.65	
		<i>For >9, Deduct</i>	-11.69	
31 64 13 00-0030	VLF	42" Diameter Caisson Wet Ground, Casing Pulled.....	240.49	
		Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.		
		<i>For >50' To 100' Deep, Add</i>	25.27	
		<i>For >100' To 150' Deep, Add</i>	60.12	
		<i>For >150' To 200' Deep, Add</i>	82.70	
		<i>For Right Angle Drilling, Add</i>	57.80	
		<i>For >3 To 9, Deduct</i>	-7.91	
		<i>For >9, Deduct</i>	-16.35	
31 64 13 00-0031	VLF	48" Diameter Caisson Wet Ground, Casing Pulled.....	288.21	
		Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.		
		<i>For >50' To 100' Deep, Add</i>	30.77	
		<i>For >100' To 150' Deep, Add</i>	72.05	
		<i>For >150' To 200' Deep, Add</i>	99.71	
		<i>For Right Angle Drilling, Add</i>	67.76	
		<i>For >3 To 9, Deduct</i>	-9.93	
		<i>For >9, Deduct</i>	-20.53	



Earthwork	31
Special Foundations and Load-bearing Elements	31 60
Caissons	31 64

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0032 VLF 54" Diameter Caisson Wet Ground, Casing Pulled.....	372.03	
Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.		
For >50' To 100' Deep, Add	39.74	
For >100' To 150' Deep, Add	93.01	
For >150' To 200' Deep, Add	128.74	
For Right Angle Drilling, Add	87.40	
For >3 To 9, Deduct	-12.84	
For >9, Deduct	-26.55	
31 64 13 00-0033 VLF 60" Diameter Caisson Wet Ground, Casing Pulled.....	455.54	
Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.		
For >50' To 100' Deep, Add	48.75	
For >100' To 150' Deep, Add	113.89	
For >150' To 200' Deep, Add	157.74	
For Right Angle Drilling, Add	106.74	
For >3 To 9, Deduct	-15.81	
For >9, Deduct	-32.67	
31 64 13 00-0034 VLF 66" Diameter Caisson Wet Ground, Casing Pulled.....	520.20	
Note: 0.87 CY Concrete per VLF, 113 lbs rebar per VLF.		
For >50' To 100' Deep, Add	56.82	
For >100' To 150' Deep, Add	130.05	
For >150' To 200' Deep, Add	181.57	
For Right Angle Drilling, Add	118.31	
For >3 To 9, Deduct	-19.13	
For >9, Deduct	-39.53	
31 64 13 00-0035 VLF 72" Diameter Caisson Wet Ground, Casing Pulled.....	592.18	
Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.		
For >50' To 100' Deep, Add	65.98	
For >100' To 150' Deep, Add	148.05	
For >150' To 200' Deep, Add	208.32	
For Right Angle Drilling, Add	130.60	
For >3 To 9, Deduct	-23.00	
For >9, Deduct	-47.53	
31 64 13 00-0036 VLF 78" Diameter Caisson Wet Ground, Casing Pulled.....	673.99	
Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.		
For >50' To 100' Deep, Add	75.97	
For >100' To 150' Deep, Add	168.50	
For >150' To 200' Deep, Add	238.19	
For Right Angle Drilling, Add	145.93	
For >3 To 9, Deduct	-26.99	
For >9, Deduct	-55.78	
31 64 13 00-0037 VLF 84" Diameter Caisson Wet Ground, Casing Pulled.....	760.03	
Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.		
For >50' To 100' Deep, Add	86.59	
For >100' To 150' Deep, Add	190.01	
For >150' To 200' Deep, Add	269.75	
For Right Angle Drilling, Add	161.67	
For >3 To 9, Deduct	-31.30	
For >9, Deduct	-64.69	
31 64 13 00-0038 For Bell Excavation And Concrete, Add <small>(31 64 13 00-0024)</small>		
31 64 13 00-0039 EA Bell Excavation And Concrete, 4' Bell Diameter Wet Ground 24" Shaft, 0.44 CY.....	494.86	
For >50' To 100' Deep, Add	39.62	
For >100' To 150' Deep, Add	123.72	
For >150' To 200' Deep, Add	154.68	
For >3 To 9, Deduct	-4.67	
For >9, Deduct	-9.64	
31 64 13 00-0040 EA Bell Excavation And Concrete, 6' Bell Diameter Wet Ground, 30" Shaft, 1.57 CY.....	1,724.09	
For >50' To 100' Deep, Add	138.39	
For >100' To 150' Deep, Add	431.02	
For >150' To 200' Deep, Add	539.35	
For >3 To 9, Deduct	-16.59	
For >9, Deduct	-34.29	
31 64 13 00-0041 EA Bell Excavation And Concrete, 7' Bell Diameter Wet Ground, 36" Shaft, 2.33 CY.....	2,366.52	
For >50' To 100' Deep, Add	176.99	
For >100' To 150' Deep, Add	591.63	
For >150' To 200' Deep, Add	724.13	
For >3 To 9, Deduct	-10.63	
For >9, Deduct	-21.97	
31 64 13 00-0042 EA Bell Excavation And Concrete, 8' Bell Diameter Wet Ground, 42" Shaft, 3.3 CY.....	3,788.42	
For >50' To 100' Deep, Add	307.04	
For >100' To 150' Deep, Add	947.11	
For >150' To 200' Deep, Add	1,188.84	
For >3 To 9, Deduct	-39.23	
For >9, Deduct	-81.09	
31 64 13 00-0043 EA Bell Excavation And Concrete, 9' Bell Diameter Wet Ground, 48" Shaft, 4.48 CY.....	4,912.28	
For >50' To 100' Deep, Add	394.19	
For >100' To 150' Deep, Add	1,228.07	
For >150' To 200' Deep, Add	1,536.60	
For >3 To 9, Deduct	-47.19	
For >9, Deduct	-97.52	
31 64 13 00-0044 EA Bell Excavation And Concrete, 10' Bell Diameter Wet Ground, 60" Shaft, 5.24 CY.....	5,776.45	
For >50' To 100' Deep, Add	463.35	
For >100' To 150' Deep, Add	1,444.11	
For >150' To 200' Deep, Add	1,806.68	
For >3 To 9, Deduct	-55.31	
For >9, Deduct	-114.31	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0045	EA		Bell Excavation And Concrete, 12' Bell Diameter Wet Ground, 72" Shaft, 8.74 CY.....	9,799.22	
			<i>For >50' To 100' Deep, Add</i>	784.58	
			<i>For >100' To 150' Deep, Add</i>	2,449.81	
			<i>For >150' To 200' Deep, Add</i>	3,063.06	
			<i>For >3 To 9, Deduct</i>	-92.47	
			<i>For >9, Deduct</i>	-191.11	
31 64 13 00-0046	EA		Bell Excavation And Concrete, 14' Bell Diameter Wet Ground, 84" Shaft, 13.6 CY.....	14,150.32	
			<i>For >50' To 100' Deep, Add</i>	1,143.54	
			<i>For >100' To 150' Deep, Add</i>	3,537.58	
			<i>For >150' To 200' Deep, Add</i>	4,436.37	
			<i>For >3 To 9, Deduct</i>	-143.46	
			<i>For >9, Deduct</i>	-296.48	
31 64 13 00-0047			Caisson In Soft Rock And Medium Hard Shale ^(31 64 13)		
			Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0048			Caisson In Soft Rock ^(31 64 13 00-0047)		
			Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0049	VLF		18" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	238.56	
			Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.		
			<i>For Right Angle Drilling, Add</i>	78.61	
			<i>For >3 To 9, Deduct</i>	-1.47	
			<i>For >9, Deduct</i>	-3.03	
31 64 13 00-0050	VLF		24" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	397.97	
			Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.		
			<i>For Right Angle Drilling, Add</i>	131.07	
			<i>For >3 To 9, Deduct</i>	-2.47	
			<i>For >9, Deduct</i>	-5.10	
31 64 13 00-0051	VLF		30" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	599.98	
			Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.		
			<i>For Right Angle Drilling, Add</i>	196.89	
			<i>For >3 To 9, Deduct</i>	-3.93	
			<i>For >9, Deduct</i>	-8.13	
31 64 13 00-0052	VLF		36" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	767.04	
			Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.		
			<i>For Right Angle Drilling, Add</i>	249.62	
			<i>For >3 To 9, Deduct</i>	-5.65	
			<i>For >9, Deduct</i>	-11.69	
31 64 13 00-0053	VLF		42" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	988.90	
			Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.		
			<i>For >50' To 100' Deep, Add</i>	77.66	
			<i>For >100' To 150' Deep, Add</i>	247.23	
			<i>For >150' To 200' Deep, Add</i>	307.22	
			<i>For Right Angle Drilling, Add</i>	319.74	
			<i>For >3 To 9, Deduct</i>	-7.91	
			<i>For >9, Deduct</i>	-16.35	
31 64 13 00-0054	VLF		48" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,192.54	
			Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.		
			<i>For Right Angle Drilling, Add</i>	384.27	
			<i>For >3 To 9, Deduct</i>	-9.93	
			<i>For >9, Deduct</i>	-20.53	
31 64 13 00-0055	VLF		54" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,458.88	
			Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.		
			<i>For >50' To 100' Deep, Add</i>	115.82	
			<i>For >100' To 150' Deep, Add</i>	364.72	
			<i>For >150' To 200' Deep, Add</i>	454.79	
			<i>For Right Angle Drilling, Add</i>	467.79	
			<i>For >3 To 9, Deduct</i>	-12.84	
			<i>For >9, Deduct</i>	-26.55	
31 64 13 00-0056	VLF		60" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,725.15	
			Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.		
			<i>For Right Angle Drilling, Add</i>	551.11	
			<i>For >3 To 9, Deduct</i>	-15.81	
			<i>For >9, Deduct</i>	-32.67	
31 64 13 00-0057	VLF		66" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,896.05	
			Note: 0.88 CY Concrete per VLF, 113 lbs rebar per VLF.		
			<i>For >50' To 100' Deep, Add</i>	153.13	
			<i>For >100' To 150' Deep, Add</i>	474.01	
			<i>For >150' To 200' Deep, Add</i>	594.32	
			<i>For Right Angle Drilling, Add</i>	599.85	
			<i>For >3 To 9, Deduct</i>	-19.13	
			<i>For >9, Deduct</i>	-39.54	
31 64 13 00-0058	VLF		72" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	2,073.43	
			Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.		
			<i>For Right Angle Drilling, Add</i>	649.04	
			<i>For >3 To 9, Deduct</i>	-23.00	
			<i>For >9, Deduct</i>	-47.53	
31 64 13 00-0059	VLF		78" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	2,126.67	
			Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.		
			<i>For >50' To 100' Deep, Add</i>	177.66	
			<i>For >100' To 150' Deep, Add</i>	531.67	
			<i>For >150' To 200' Deep, Add</i>	673.99	
			<i>For Right Angle Drilling, Add</i>	654.36	
			<i>For >3 To 9, Deduct</i>	-26.99	
			<i>For >9, Deduct</i>	-55.78	



Earthwork	31	15
Special Foundations and Load-bearing Elements	31 60	
Caissons	31 64	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0060 VLF 84" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	2,538.87	
Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.		
For Right Angle Drilling, Add	784.26	
For >3 To 9, Deduct	-31.30	
For >9, Deduct	-64.69	
31 64 13 00-0061 For Bell Excavation And Concrete, Add <small>(31 64 13 00-0047)</small>		
31 64 13 00-0062 EA Bell Excavation And Concrete, 4' Bell Diameter Soft Rock/Shale 24" Shaft 0.44 CY	848.12	
For >3 To 9, Deduct	-4.67	
For >9, Deduct	-9.64	
31 64 13 00-0063 EA Bell Excavation And Concrete, 6' Bell Diameter Soft Rock/Shale 30" Shaft 1.57 CY	2,984.56	
For >3 To 9, Deduct	-16.59	
For >9, Deduct	-34.29	
31 64 13 00-0064 EA Bell Excavation And Concrete, 7' Bell Diameter Soft Rock/Shale 36" Shaft 2.33 CY	4,473.16	
For >3 To 9, Deduct	-27.91	
For >9, Deduct	-57.69	
31 64 13 00-0065 EA Bell Excavation And Concrete, 8' Bell Diameter Soft Rock/Shale 42" Shaft 3.3 CY	6,368.61	
For >3 To 9, Deduct	-39.23	
For >9, Deduct	-81.09	
31 64 13 00-0066 EA Bell Excavation And Concrete, 9' Bell Diameter Soft Rock/Shale 48" Shaft 4.48 CY	8,416.66	
For >3 To 9, Deduct	-47.19	
For >9, Deduct	-97.52	
31 64 13 00-0067 EA Bell Excavation And Concrete, 10' Bell Diameter Soft Rock/Shale 60" Shaft 5.24 CY.....	10,255.55	
For >3 To 9, Deduct	-55.31	
For >9, Deduct	-114.31	
31 64 13 00-0068 EA Bell Excavation And Concrete, 12' Bell Diameter Soft Rock/Shale 72" Shaft 8.74 CY	15,510.07	
For >3 To 9, Deduct	-92.47	
For >9, Deduct	-191.11	
31 64 13 00-0069 EA Bell Excavation And Concrete, 14' Bell Diameter Soft Rock/Shale 84" Shaft 13.6 CY	23,328.47	
For >3 To 9, Deduct	-143.46	
For >9, Deduct	-296.48	
31 64 13 00-0070 Caisson Setup And Removal <small>(31 64 13)</small>		
Note: Includes mobilization of equipment, erection, dismantling of equipment, move off of site.		
31 64 13 00-0071 EA Erect, Set Up, Dismantle And Removal Of Caisson 18" To 36" Diameter, Complete	3,944.90	
For >3 To 9, Deduct	-15.83	
For >9, Deduct	-32.72	
31 64 13 00-0072 EA Erect, Set Up, Dismantle And Removal Of Caisson 48" To 84" Diameter, Complete	5,541.32	
For >3 To 9, Deduct	-42.22	
For >9, Deduct	-87.25	
31 64 13 00-0073 EA Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 18" To 36" Diameter.....	1,866.91	
31 64 13 00-0074 EA Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 48" To 84" Diameter.....	2,489.22	
31 64 13 00-0075 EA Relocate Caisson Equipment To Different Hole On-Site Without Dismantling.....	155.58	
31 66 Special Foundation <small>(31 60)</small>		
31 66 15 Helical Foundation Piles <small>(31 66)</small>		
31 66 15 00-0001 Helical Pier Restoration (Atlas) <small>(31 66 15)</small>		
31 66 15 00-0002 EA Structural Steel Piers (Atlas Pier System Or Equal)	4,525.32	
Note: Includes heavy duty bracket, pier platform, and 14' of 3.5" diameter pier sections, non-corrosive coating, hydraulic lifting, fasteners, and other related activities and materials. Excludes excavation and core drilling		
For >3 To 9, Deduct	-339.40	
For >9, Deduct	-701.42	
31 66 15 00-0003 EA Pressure Injecting Grout For Slab Repairs, Per Location	538.98	
Note: Includes preparation, installing and removing grout injection pipes, and finishing. Excludes grout and core drilling.		
For >3 To 9, Deduct	-40.42	
For >9, Deduct	-83.54	
31 66 15 00-0004 CY Pressure Injected Non-Shrink Grout	538.98	
For >3 To 9, Deduct	-40.42	
For >9, Deduct	-83.54	
31 68 Foundation Anchors <small>(31 60)</small>		
31 68 13 Rock Foundation Anchors <small>(31 68)</small>		
31 68 13 00-0001 Materials And Placement <small>(31 68 13)</small>		
31 68 13 00-0002 Hollow Core Prestressable Anchor, ASTM A615 <small>(31 68 13 00-0001)</small>		
Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00- 0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0003 3/4" Diameter <small>(31 68 13 00-0002)</small>		
31 68 13 00-0004 EA 3/4" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	192.63	
For >3 To 9, Deduct	-9.27	
For >9, Deduct	-19.15	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 68 Foundation Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0005	EA		3/4" Rock Bolt, 10' Hollow Core Prestressable Anchor	276.93	
			<i>For >3 To 9, Deduct</i>	-13.86	
			<i>For >9, Deduct</i>	-28.65	
31 68 13 00-0006	EA		3/4" Rock Bolt, 15' Hollow Core Prestressable Anchor	338.22	
			<i>For >3 To 9, Deduct</i>	-18.46	
			<i>For >9, Deduct</i>	-38.15	
31 68 13 00-0007	EA		3/4" Rock Bolt, 20' Hollow Core Prestressable Anchor	445.56	
			<i>For >3 To 9, Deduct</i>	-23.05	
			<i>For >9, Deduct</i>	-47.65	
31 68 13 00-0008			1" Diameter <small>(31 68 13 00-0002)</small>		
31 68 13 00-0009	EA		1" Rock Bolt, 5' Hollow Core Prestressable Anchor	243.85	
			<i>For >3 To 9, Deduct</i>	-13.11	
			<i>For >9, Deduct</i>	-27.09	
31 68 13 00-0010	EA		1" Rock Bolt, 10' Hollow Core Prestressable Anchor	375.42	
			<i>For >3 To 9, Deduct</i>	-21.25	
			<i>For >9, Deduct</i>	-43.91	
31 68 13 00-0011	EA		1" Rock Bolt, 15' Hollow Core Prestressable Anchor	483.97	
			<i>For >3 To 9, Deduct</i>	-29.39	
			<i>For >9, Deduct</i>	-60.74	
31 68 13 00-0012	EA		1" Rock Bolt, 20' Hollow Core Prestressable Anchor	638.61	
			<i>For >3 To 9, Deduct</i>	-37.53	
			<i>For >9, Deduct</i>	-77.57	
31 68 13 00-0013			1-3/8" Diameter <small>(31 68 13 00-0002)</small>		
31 68 13 00-0014	EA		1-3/8" Rock Bolt, 5' Hollow Core Prestressable Anchor	401.78	
			<i>For >3 To 9, Deduct</i>	-24.95	
			<i>For >9, Deduct</i>	-51.57	
31 68 13 00-0015	EA		1-3/8" Rock Bolt, 10' Hollow Core Prestressable Anchor	623.91	
			<i>For >3 To 9, Deduct</i>	-39.89	
			<i>For >9, Deduct</i>	-82.43	
31 68 13 00-0016	EA		1-3/8" Rock Bolt, 15' Hollow Core Prestressable Anchor	823.06	
			<i>For >3 To 9, Deduct</i>	-54.82	
			<i>For >9, Deduct</i>	-113.30	
31 68 13 00-0017	EA		1-3/8" Rock Bolt, 20' Hollow Core Prestressable Anchor	1,068.23	
			<i>For >3 To 9, Deduct</i>	-69.75	
			<i>For >9, Deduct</i>	-144.16	
31 68 13 00-0018			2" Diameter <small>(31 68 13 00-0002)</small>		
31 68 13 00-0019	EA		2" Rock Bolt, 5' Hollow Core Prestressable Anchor	882.09	
			<i>For >3 To 9, Deduct</i>	-60.98	
			<i>For >9, Deduct</i>	-126.02	
31 68 13 00-0020	EA		2" Rock Bolt, 10' Hollow Core Prestressable Anchor	1,311.08	
			<i>For >3 To 9, Deduct</i>	-91.42	
			<i>For >9, Deduct</i>	-188.94	
31 68 13 00-0021	EA		2" Rock Bolt, 15' Hollow Core Prestressable Anchor	1,716.98	
			<i>For >3 To 9, Deduct</i>	-121.87	
			<i>For >9, Deduct</i>	-251.85	
31 68 13 00-0022	EA		2" Rock Bolt, 20' Hollow Core Prestressable Anchor	2,169.01	
			<i>For >3 To 9, Deduct</i>	-152.31	
			<i>For >9, Deduct</i>	-314.78	
31 68 13 00-0023			Super High-Tensile Anchors, ASTM A-108 <small>(31 68 13 00-0001)</small>		
			Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0024			3/4" Diameter <small>(31 68 13 00-0023)</small>		
31 68 13 00-0025	EA		3/4" Rock Bolt, 5' Super High-Tensile Anchor	140.80	
			<i>For >3 To 9, Deduct</i>	-5.38	
			<i>For >9, Deduct</i>	-11.12	
31 68 13 00-0026	EA		3/4" Rock Bolt, 10' Super High-Tensile Anchor	187.84	
			<i>For >3 To 9, Deduct</i>	-7.18	
			<i>For >9, Deduct</i>	-14.84	
31 68 13 00-0027	EA		3/4" Rock Bolt, 15' Super High-Tensile Anchor	211.77	
			<i>For >3 To 9, Deduct</i>	-8.97	
			<i>For >9, Deduct</i>	-18.55	
31 68 13 00-0028	EA		3/4" Rock Bolt, 20' Super High-Tensile Anchor	280.04	
			<i>For >3 To 9, Deduct</i>	-10.64	
			<i>For >9, Deduct</i>	-21.99	
31 68 13 00-0029			1" Diameter <small>(31 68 13 00-0023)</small>		
31 68 13 00-0030	EA		1" Rock Bolt, 5' Super High-Tensile Anchor	167.39	
			<i>For >3 To 9, Deduct</i>	-7.37	
			<i>For >9, Deduct</i>	-15.24	
31 68 13 00-0031	EA		1" Rock Bolt, 10' Super High-Tensile Anchor	232.63	
			<i>For >3 To 9, Deduct</i>	-10.54	
			<i>For >9, Deduct</i>	-21.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0032 EA 1" Rock Bolt, 15' Super High-Tensile Anchor.....	272.71	
<i>For >3 To 9, Deduct</i>	-13.55	
<i>For >9, Deduct</i>	-27.99	
31 68 13 00-0033 EA 1" Rock Bolt, 20' Super High-Tensile Anchor.....	358.85	
<i>For >3 To 9, Deduct</i>	-16.55	
<i>For >9, Deduct</i>	-34.21	
31 68 13 00-0034 1-1/4" Diameter <small>(31 68 13 00-0023)</small>		
31 68 13 00-0035 EA 1-1/4" Rock Bolt, 5' Super High-Tensile Anchor	245.47	
<i>For >3 To 9, Deduct</i>	-13.23	
<i>For >9, Deduct</i>	-27.34	
31 68 13 00-0036 EA 1-1/4" Rock Bolt, 10' Super High-Tensile Anchor	344.55	
<i>For >3 To 9, Deduct</i>	-18.93	
<i>For >9, Deduct</i>	-39.13	
31 68 13 00-0037 EA 1-1/4" Rock Bolt, 15' Super High-Tensile Anchor	420.12	
<i>For >3 To 9, Deduct</i>	-24.60	
<i>For >9, Deduct</i>	-50.84	
31 68 13 00-0038 EA 1-1/4" Rock Bolt, 20' Super High-Tensile Anchor	538.60	
<i>For >3 To 9, Deduct</i>	-30.03	
<i>For >9, Deduct</i>	-62.07	
31 68 13 00-0039 2" Diameter <small>(31 68 13 00-0023)</small>		
31 68 13 00-0040 EA 2" Rock Bolt, 5' Super High-Tensile Anchor.....	642.90	
<i>For >3 To 9, Deduct</i>	-43.04	
<i>For >9, Deduct</i>	-88.94	
31 68 13 00-0041 EA 2" Rock Bolt, 10' Super High-Tensile Anchor.....	913.80	
<i>For >3 To 9, Deduct</i>	-61.63	
<i>For >9, Deduct</i>	-127.36	
31 68 13 00-0042 EA 2" Rock Bolt, 15' Super High-Tensile Anchor.....	1,115.36	
<i>For >3 To 9, Deduct</i>	-76.74	
<i>For >9, Deduct</i>	-158.60	
31 68 13 00-0043 EA 2" Rock Bolt, 20' Super High-Tensile Anchor.....	1,375.19	
<i>For >3 To 9, Deduct</i>	-92.78	
<i>For >9, Deduct</i>	-191.74	
31 68 13 00-0044 Solid Rebar Anchors, ASTM A615 <small>(31 68 13 00-0001)</small>		
Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0045 3/4" Diameter <small>(31 68 13 00-0044)</small>		
31 68 13 00-0046 EA 3/4" Rock Bolt, 5' Solid Rebar Anchor	132.27	
<i>For >3 To 9, Deduct</i>	-4.74	
<i>For >9, Deduct</i>	-9.79	
31 68 13 00-0047 EA 3/4" Rock Bolt, 10' Solid Rebar Anchor	169.79	
<i>For >3 To 9, Deduct</i>	-5.83	
<i>For >9, Deduct</i>	-12.04	
31 68 13 00-0048 EA 3/4" Rock Bolt, 15' Solid Rebar Anchor	184.26	
<i>For >3 To 9, Deduct</i>	-6.91	
<i>For >9, Deduct</i>	-14.28	
31 68 13 00-0049 EA 3/4" Rock Bolt, 20' Solid Rebar Anchor	244.82	
<i>For >3 To 9, Deduct</i>	-8.00	
<i>For >9, Deduct</i>	-16.53	
31 68 13 00-0050 1" Diameter <small>(31 68 13 00-0044)</small>		
31 68 13 00-0051 EA 1" Rock Bolt, 5' Solid Rebar Anchor	148.70	
<i>For >3 To 9, Deduct</i>	-5.97	
<i>For >9, Deduct</i>	-12.34	
31 68 13 00-0052 EA 1" Rock Bolt, 10' Solid Rebar Anchor	196.96	
<i>For >3 To 9, Deduct</i>	-7.86	
<i>For >9, Deduct</i>	-16.25	
31 68 13 00-0053 EA 1" Rock Bolt, 15' Solid Rebar Anchor	222.23	
<i>For >3 To 9, Deduct</i>	-9.76	
<i>For >9, Deduct</i>	-20.17	
31 68 13 00-0054 EA 1" Rock Bolt, 20' Solid Rebar Anchor	293.50	
<i>For >3 To 9, Deduct</i>	-11.65	
<i>For >9, Deduct</i>	-24.08	
31 68 13 00-0055 1-1/4" Diameter <small>(31 68 13 00-0044)</small>		
31 68 13 00-0056 EA 1-1/4" Rock Bolt, 5' Solid Rebar Anchor	214.42	
<i>For >3 To 9, Deduct</i>	-10.90	
<i>For >9, Deduct</i>	-22.53	
31 68 13 00-0057 EA 1-1/4" Rock Bolt, 10' Solid Rebar Anchor	276.87	
<i>For >3 To 9, Deduct</i>	-13.86	
<i>For >9, Deduct</i>	-28.64	
31 68 13 00-0058 EA 1-1/4" Rock Bolt, 15' Solid Rebar Anchor	316.40	
<i>For >3 To 9, Deduct</i>	-16.82	
<i>For >9, Deduct</i>	-34.76	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 68 Foundation Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	31 68 13 00-0059	EA	1-1/4" Rock Bolt, 20' Solid Rebar Anchor	401.96	
			<i>For >3 To 9, Deduct</i>	-19.78	
			<i>For >9, Deduct</i>	-40.89	
31 68 13 00-0060			Resin Anchoring With Grade 60 Rebar <small>(31 68 13 00-0001)</small>		
			Note: Pricing includes only material and labor to install anchors.. See CSI section 31 68 13 00-0081 for rebar collars, 31 68 13 00-0083 for resin cartridges, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0061			Rebar #6 <small>(31 68 13 00-0060)</small>		
	31 68 13 00-0062	EA	#6 Rebar Rock Anchor, 5' Resin Anchor With Grade 60 Rebar	74.60	
			<i>For >3 To 9, Deduct</i>	-0.41	
			<i>For >9, Deduct</i>	-0.85	
	31 68 13 00-0063	EA	#6 Rebar Rock Anchor, 10' Resin Anchor With Grade 60 Rebar	103.12	
			<i>For >3 To 9, Deduct</i>	-0.83	
			<i>For >9, Deduct</i>	-1.71	
	31 68 13 00-0064	EA	#6 Rebar Rock Anchor, 15' Resin Anchor With Grade 60 Rebar	108.63	
			<i>For >3 To 9, Deduct</i>	-1.24	
			<i>For >9, Deduct</i>	-2.56	
	31 68 13 00-0065	EA	#6 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar	149.18	
			<i>For >3 To 9, Deduct</i>	-0.83	
			<i>For >9, Deduct</i>	-1.71	
31 68 13 00-0066			Rebar #8 <small>(31 68 13 00-0060)</small>		
	31 68 13 00-0067	EA	#8 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar	78.88	
			<i>For >3 To 9, Deduct</i>	-0.73	
			<i>For >9, Deduct</i>	-1.52	
	31 68 13 00-0068	EA	#8 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar	111.69	
			<i>For >3 To 9, Deduct</i>	-1.47	
			<i>For >9, Deduct</i>	-3.03	
	31 68 13 00-0069	EA	#8 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar	121.48	
			<i>For >3 To 9, Deduct</i>	-2.20	
			<i>For >9, Deduct</i>	-4.55	
	31 68 13 00-0070	EA	#8 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar	177.33	
			<i>For >3 To 9, Deduct</i>	-2.94	
			<i>For >9, Deduct</i>	-6.07	
31 68 13 00-0071			Rebar #10 <small>(31 68 13 00-0060)</small>		
	31 68 13 00-0072	EA	#10 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar	85.00	
			<i>For >3 To 9, Deduct</i>	-1.19	
			<i>For >9, Deduct</i>	-2.47	
	31 68 13 00-0073	EA	#10 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar	123.93	
			<i>For >3 To 9, Deduct</i>	-2.39	
			<i>For >9, Deduct</i>	-4.93	
	31 68 13 00-0074	EA	#10 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar	139.84	
			<i>For >3 To 9, Deduct</i>	-3.58	
			<i>For >9, Deduct</i>	-7.40	
	31 68 13 00-0075	EA	#10 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar	201.81	
			<i>For >3 To 9, Deduct</i>	-4.77	
			<i>For >9, Deduct</i>	-9.86	
31 68 13 00-0076			Rebar #14 <small>(31 68 13 00-0060)</small>		
	31 68 13 00-0077	EA	#14 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar	99.69	
			<i>For >3 To 9, Deduct</i>	-2.30	
			<i>For >9, Deduct</i>	-4.74	
	31 68 13 00-0078	EA	#14 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar	153.30	
			<i>For >3 To 9, Deduct</i>	-4.59	
			<i>For >9, Deduct</i>	-9.48	
	31 68 13 00-0079	EA	#14 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar	183.90	
			<i>For >3 To 9, Deduct</i>	-6.88	
			<i>For >9, Deduct</i>	-14.23	
	31 68 13 00-0080	EA	#14 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar	260.55	
			<i>For >3 To 9, Deduct</i>	-9.18	
			<i>For >9, Deduct</i>	-18.97	
31 68 13 00-0081			Plastic Rebar Collars, Sizes #6-#14 <small>(31 68 13 00-0060)</small>		
	31 68 13 00-0082	EA	Plastic Rebar Collars For Rebar #4 To #14	2.14	
			<i>For >3 To 9, Deduct</i>	-0.16	
			<i>For >9, Deduct</i>	-0.33	
31 68 13 00-0083			12" Long Resin Cartridges <small>(31 68 13 00-0001)</small>		
	31 68 13 00-0084	EA	7/8" Resin Cartridge 12" Long	1.57	
			<i>For >3 To 9, Deduct</i>	-0.12	
			<i>For >9, Deduct</i>	-0.24	
	31 68 13 00-0085	EA	1" Resin Cartridge 12" Long	2.15	
			<i>For >3 To 9, Deduct</i>	-0.16	
			<i>For >9, Deduct</i>	-0.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0086 EA 1-1/16" Resin Cartridge 12" Long	2.31	
<i>For >3 To 9, Deduct</i>	-0.17	
<i>For >9, Deduct</i>	-0.36	
31 68 13 00-0087 EA 1-1/4" Resin Cartridge 12" Long	2.49	
<i>For >3 To 9, Deduct</i>	-0.19	
<i>For >9, Deduct</i>	-0.39	
31 68 13 00-0088 EA 1-3/8" Resin Cartridge 12" Long	2.86	
<i>For >3 To 9, Deduct</i>	-0.21	
<i>For >9, Deduct</i>	-0.44	
31 68 13 00-0089 EA 1-9/16" Resin Cartridge 12" Long	3.58	
<i>For >3 To 9, Deduct</i>	-0.27	
<i>For >9, Deduct</i>	-0.55	
31 68 13 00-0090 EA 1-3/4" Resin Cartridge 12" Long	4.92	
<i>For >3 To 9, Deduct</i>	-0.37	
<i>For >9, Deduct</i>	-0.76	
31 68 13 00-0091 Head Assembly <small>(31 68 13 00-0001)</small>		
31 68 13 00-0092 3/4" Rod Diameter <small>(31 68 13 00-0091)</small>		
31 68 13 00-0093 EA 3/4" Rod Head Assembly 1-5/8" Short Cone and Shell	26.77	
<i>For >3 To 9, Deduct</i>	-2.01	
<i>For >9, Deduct</i>	-4.15	
31 68 13 00-0094 EA 3/4" Rod Head Assembly 1-3/4" Short Cone and Shell	22.55	
<i>For >3 To 9, Deduct</i>	-1.69	
<i>For >9, Deduct</i>	-3.50	
31 68 13 00-0095 EA 3/4" Rod Head Assembly 1-7/8" Short Cone and Shell	23.65	
<i>For >3 To 9, Deduct</i>	-1.77	
<i>For >9, Deduct</i>	-3.67	
31 68 13 00-0096 EA 3/4" Rod Head Assembly 1-3/4" Long Cone and Shell	42.47	
<i>For >3 To 9, Deduct</i>	-3.19	
<i>For >9, Deduct</i>	-6.58	
31 68 13 00-0097 EA 3/4" Rod Head Assembly 1-7/8" Long Cone and Shell	42.47	
<i>For >3 To 9, Deduct</i>	-3.19	
<i>For >9, Deduct</i>	-6.58	
31 68 13 00-0098 EA 3/4" Rod Head Assembly 1-3/4" Long Cone and Shell	40.23	
<i>For >3 To 9, Deduct</i>	-3.02	
<i>For >9, Deduct</i>	-6.24	
31 68 13 00-0099 1" Rod Diameter <small>(31 68 13 00-0091)</small>		
31 68 13 00-0100 EA 1" Rod Head Assembly 1-5/8" Short Cone and Shell	28.85	
<i>For >3 To 9, Deduct</i>	-2.16	
<i>For >9, Deduct</i>	-4.47	
31 68 13 00-0101 EA 1" Rod Head Assembly 1-3/4" Short Cone and Shell	24.69	
<i>For >3 To 9, Deduct</i>	-1.85	
<i>For >9, Deduct</i>	-3.83	
31 68 13 00-0102 EA 1" Rod Head Assembly 1-7/8" Short Cone and Shell	25.79	
<i>For >3 To 9, Deduct</i>	-1.93	
<i>For >9, Deduct</i>	-4.00	
31 68 13 00-0103 EA 1" Rod Head Assembly 1-3/4" Long Cone and Shell	44.67	
<i>For >3 To 9, Deduct</i>	-3.35	
<i>For >9, Deduct</i>	-6.92	
31 68 13 00-0104 EA 1" Rod Head Assembly 1-7/8" Long Cone and Shell	44.67	
<i>For >3 To 9, Deduct</i>	-3.35	
<i>For >9, Deduct</i>	-6.92	
31 68 13 00-0105 EA 1" Rod Head Assembly 1-3/4" Long Cone and Shell	42.59	
<i>For >3 To 9, Deduct</i>	-3.19	
<i>For >9, Deduct</i>	-6.60	
31 68 13 00-0106 1-1/4" Rod Diameter <small>(31 68 13 00-0091)</small>		
31 68 13 00-0107 EA 1-1/4" Rod Head Assembly 2" Short Cone and Shell	64.37	
<i>For >3 To 9, Deduct</i>	-4.83	
<i>For >9, Deduct</i>	-9.98	
31 68 13 00-0108 EA 1-1/4" Rod Head Assembly 2-1/4" Short Cone and Shell	75.20	
<i>For >3 To 9, Deduct</i>	-5.64	
<i>For >9, Deduct</i>	-11.66	
31 68 13 00-0109 EA 1-1/4" Rod Head Assembly 2-1/2" Short Cone and Shell	76.27	
<i>For >3 To 9, Deduct</i>	-5.72	
<i>For >9, Deduct</i>	-11.82	
31 68 13 00-0110 EA 1-1/4" Rod Head Assembly 2-1/4" Long Cone and Shell	67.65	
<i>For >3 To 9, Deduct</i>	-5.07	
<i>For >9, Deduct</i>	-10.49	
31 68 13 00-0111 EA 1-1/4" Rod Head Assembly 2-1/2" Long Cone and Shell	78.87	
<i>For >3 To 9, Deduct</i>	-5.92	
<i>For >9, Deduct</i>	-12.22	
31 68 13 00-0112 1-7/8" Rod Diameter <small>(31 68 13 00-0091)</small>		
31 68 13 00-0113 EA 1-7/8" Rod Head Assembly 3-1/2" Long Cone/Shell/FI	253.36	
<i>For >3 To 9, Deduct</i>	-19.00	
<i>For >9, Deduct</i>	-39.27	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 68 Foundation Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0114	EA		1 7/8" Rod Head Assembly 3" Long Cone and Shell	174.67	
			<i>For >3 To 9, Deduct</i>	-13.10	
			<i>For >9, Deduct</i>	-27.07	
31 68 13 00-0115			2" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0116	EA		2" Rod Head Assembly 3-1/2" Long Cone/Shell/Fl	253.36	
			<i>For >3 To 9, Deduct</i>	-19.00	
			<i>For >9, Deduct</i>	-39.27	
31 68 13 00-0117	EA		2" Rod Head Assembly 3" Long Cone and Shell	174.67	
			<i>For >3 To 9, Deduct</i>	-13.10	
			<i>For >9, Deduct</i>	-27.07	
31 68 13 00-0118			Steel Plates With Standard Hole And Washers (31 68 13 00-0001)		
31 68 13 00-0119			Steel Plates (31 68 13 00-0118)		
31 68 13 00-0120	EA		1/4" x 4" x 4" Steel Plate For Rock Bolt With Washer	3.65	
			<i>For >3 To 9, Deduct</i>	-0.27	
			<i>For >9, Deduct</i>	-0.57	
31 68 13 00-0121	EA		1/4" x 6" x 6" Steel Plate For Rock Bolt With Washer	6.75	
			<i>For >3 To 9, Deduct</i>	-0.51	
			<i>For >9, Deduct</i>	-1.05	
31 68 13 00-0122	EA		3/8" x 6" x 6" Steel Plate For Rock Bolt With Washer	9.39	
			<i>For >3 To 9, Deduct</i>	-0.70	
			<i>For >9, Deduct</i>	-1.46	
31 68 13 00-0123	EA		3/8" x 8" x 8" Steel Plate For Rock Bolt With Washer	16.47	
			<i>For >3 To 9, Deduct</i>	-1.24	
			<i>For >9, Deduct</i>	-2.55	
31 68 13 00-0124	EA		1/2" x 5" x 5" Steel Plate For Rock Bolt With Washer	6.40	
			<i>For >3 To 9, Deduct</i>	-0.48	
			<i>For >9, Deduct</i>	-0.99	
31 68 13 00-0125	EA		1/2" x 8" x 8" Steel Plate For Rock Bolt With Washer	16.80	
			<i>For >3 To 9, Deduct</i>	-1.26	
			<i>For >9, Deduct</i>	-2.60	
31 68 13 00-0126	EA		3/4" x 7" x 7" Steel Plate For Rock Bolt With Washer	27.88	
			<i>For >3 To 9, Deduct</i>	-2.09	
			<i>For >9, Deduct</i>	-4.32	
31 68 13 00-0127	EA		3/4" x 8" x 8" Steel Plate For Rock Bolt With Washer	39.50	
			<i>For >3 To 9, Deduct</i>	-2.96	
			<i>For >9, Deduct</i>	-6.12	
31 68 13 00-0128	EA		1" x 4" x 7" Steel Plate For Rock Bolt With Washer	23.71	
			<i>For >3 To 9, Deduct</i>	-1.78	
			<i>For >9, Deduct</i>	-3.68	
31 68 13 00-0129	EA		1" x 9" x 9" Steel Plate For Rock Bolt With Washer	67.07	
			<i>For >3 To 9, Deduct</i>	-5.03	
			<i>For >9, Deduct</i>	-10.40	
31 68 13 00-0130	EA		1" x 12" x 12" Steel Plate For Rock Bolt With Washer	98.84	
			<i>For >3 To 9, Deduct</i>	-7.41	
			<i>For >9, Deduct</i>	-15.32	
31 68 13 00-0131	EA		1-1/4" x 5" x 8" Steel Plate For Rock Bolt With Washer	43.39	
			<i>For >3 To 9, Deduct</i>	-3.25	
			<i>For >9, Deduct</i>	-6.73	
31 68 13 00-0132	EA		1-1/4" x 11" x 11" Steel Plate For Rock Bolt With Washer	117.34	
			<i>For >3 To 9, Deduct</i>	-8.80	
			<i>For >9, Deduct</i>	-18.19	
31 68 13 00-0133	EA		1-1/2" x 5" x 10" Steel Plate For Rock Bolt With Washer	58.68	
			<i>For >3 To 9, Deduct</i>	-4.40	
			<i>For >9, Deduct</i>	-9.10	
31 68 13 00-0134	EA		1-1/2" x 12" x 12" Steel Plate For Rock Bolt With Washer	141.15	
			<i>For >3 To 9, Deduct</i>	-10.59	
			<i>For >9, Deduct</i>	-21.88	
31 68 13 00-0135	EA		1-3/4" x 5" x 10" Steel Plate For Rock Bolt With Washer	64.77	
			<i>For >3 To 9, Deduct</i>	-4.86	
			<i>For >9, Deduct</i>	-10.04	
31 68 13 00-0136	EA		1-3/4" x 12" x 12" Steel Plate For Rock Bolt With Washer	156.54	
			<i>For >3 To 9, Deduct</i>	-11.74	
			<i>For >9, Deduct</i>	-24.26	
31 68 13 00-0137			Hardened Washers (31 68 13 00-0118)		
31 68 13 00-0138	EA		Hardened Washer For 3/4" Diameter Rock Bolt	0.89	
			<i>For >3 To 9, Deduct</i>	-0.07	
			<i>For >9, Deduct</i>	-0.14	
31 68 13 00-0139	EA		Hardened Washer For 1" Diameter Rock Bolt	1.22	
			<i>For >3 To 9, Deduct</i>	-0.09	
			<i>For >9, Deduct</i>	-0.19	
31 68 13 00-0140	EA		Hardened Washer For 1-1/4" Diameter Rock Bolt	3.43	
			<i>For >3 To 9, Deduct</i>	-0.26	
			<i>For >9, Deduct</i>	-0.53	
31 68 13 00-0141	EA		Hardened Washer For 2" Diameter Rock Bolt	8.54	
			<i>For >3 To 9, Deduct</i>	-0.64	
			<i>For >9, Deduct</i>	-1.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0142 Beveled Washers <small>(31 68 13 00-0118)</small>		
31 68 13 00-0143 EA Beveled Washer For 3/4" Diameter Rock Bolt.....	2.23	
For >3 To 9, Deduct	-0.17	
For >9, Deduct	-0.35	
31 68 13 00-0144 EA Beveled Washer For 7/8" To 1-1/8" Diameter Rock Bolt.....	2.20	
For >3 To 9, Deduct	-0.17	
For >9, Deduct	-0.34	
31 68 13 00-0145 EA Beveled Wash For 1-1/4" To 1-3/8" Diameter Rock Bolt.....	3.33	
For >3 To 9, Deduct	-0.25	
For >9, Deduct	-0.52	
31 68 13 00-0146 EA Beveled Washer For 1-1/2" Diameter Rock Bolt.....	14.26	
For >3 To 9, Deduct	-1.07	
For >9, Deduct	-2.21	
31 68 13 00-0147 EA Beveled Washer For 2" Diameter Rock Bolt.....	9.85	
For >3 To 9, Deduct	-0.74	
For >9, Deduct	-1.53	
31 68 13 00-0148 Hex Nuts <small>(31 68 13 00-0118)</small>		
31 68 13 00-0149 EA Hex Nut For 3/4" Diameter Rock Bolt.....	1.74	
For >3 To 9, Deduct	-0.13	
For >9, Deduct	-0.27	
31 68 13 00-0150 EA Hex Nut For 1" Diameter Rock Bolt.....	2.85	
For >3 To 9, Deduct	-0.21	
For >9, Deduct	-0.44	
31 68 13 00-0151 EA Hex Nut For 1-1/4" Diameter Rock Bolt.....	11.66	
For >3 To 9, Deduct	-0.87	
For >9, Deduct	-1.81	
31 68 13 00-0152 EA Hex Nut For 1-1/2" Diameter Rock Bolt.....	7.34	
For >3 To 9, Deduct	-0.55	
For >9, Deduct	-1.14	
31 68 13 00-0153 EA Hex Nut For 2" Diameter Rock Bolt.....	46.84	
For >3 To 9, Deduct	-3.51	
For >9, Deduct	-7.26	
31 68 13 00-0154 Drilling Operation For Rockbolts <small>(31 68 13)</small>		
31 68 13 00-0155 Drill Holes For Rock Bolts <small>(31 68 13 00-0154)</small>		
31 68 13 00-0156 3/4" Diameter Bolt, 1-3/4" Hole <small>(31 68 13 00-0155)</small>		
31 68 13 00-0157 EA Drill 1-3/4" Diameter Hole x 5' Long For 3/4" Diameter Rock Bolts.....	182.03	
31 68 13 00-0158 EA Drill 1-3/4" Diameter Hole x 10' Long For 3/4" Diameter Rock Bolts.....	343.83	
31 68 13 00-0159 EA Drill 1-3/4" Diameter Hole x 15' Long For 3/4" Diameter Rock Bolts.....	515.74	
31 68 13 00-0160 EA Drill 1-3/4" Diameter Hole x 20' Long For 3/4" Diameter Rock Bolts.....	618.89	
31 68 13 00-0161 1" Diameter Bolt, 2" Hole <small>(31 68 13 00-0155)</small>		
31 68 13 00-0162 EA Drill 2" Diameter Hole x 5' Long For 1" Diameter Rock Bolt.....	238.04	
31 68 13 00-0163 EA Drill 2" Diameter Hole x 10' Long For 1" Diameter Rock Bolt.....	442.07	
31 68 13 00-0164 EA Drill 2" Diameter Hole x 15' Long For 1" Diameter Rock Bolt.....	618.89	
31 68 13 00-0165 EA Drill 2" Diameter Hole x 20' Long For 1" Diameter Rock Bolt.....	773.62	
31 68 13 00-0166 1-1/4" Diameter Bolt, 2-1/4" Hole <small>(31 68 13 00-0155)</small>		
31 68 13 00-0167 EA Drill 2-1/4" Diameter Hole x 5' Long For 1-1/4" Diameter Rock Bolt.....	257.88	
31 68 13 00-0168 EA Drill 2-1/4" Diameter Hole x 10' Long For 1-1/4" Diameter Rock Bolt.....	515.74	
31 68 13 00-0169 EA Drill 2-1/4" Diameter Hole x 15' long For 1-1/4" Diameter Rock Bolt.....	773.62	
31 68 13 00-0170 EA Drill 2-1/4" Diameter Hole x 20' Long For 1-1/4" Diameter Rock Bolt.....	1,031.49	
31 68 13 00-0171 2" Diameter Bolt, 3-1/2" Hole <small>(31 68 13 00-0155)</small>		
31 68 13 00-0172 EA Drill 3-1/2" Diameter Hole x 5 Long For 2" Diameter Rock Bolt.....	309.44	
31 68 13 00-0173 EA Drill 3-1/2" Diameter Hole x 10' Long For 2" Diameter Rock Bolt.....	618.89	
31 68 13 00-0174 EA Drill 3-1/2" Diameter Hole x 15' Long For 2" Diameter Rock Bolts.....	1,031.49	
31 68 13 00-0175 EA Drill 3-1/2" Diameter Hole x 20' Long For 2" Diameter Rock Bolt.....	1,547.23	
31 68 13 00-0176 Tools <small>(31 68 13)</small>		
31 68 13 00-0177 Hydraulic Jacks, Monthly Rental <small>(31 68 13 00-0176)</small>		
31 68 13 00-0178 EA 1/2" To 1", 30 Ton Hydraulic Jack For Rock Bolt, 2" Stroke.....	677.68	
For >3 To 9, Deduct	-50.83	
For >9, Deduct	-105.04	
31 68 13 00-0179 EA 1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 3" Stroke.....	998.68	
For >3 To 9, Deduct	-74.90	
For >9, Deduct	-154.80	
31 68 13 00-0180 EA 1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 10" Stroke.....	1,675.41	
For >3 To 9, Deduct	-125.66	
For >9, Deduct	-259.69	

31	31 Earthwork
	31 60 Special Foundations and Load-bearing Elements
	31 68 Foundation Anchors



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0181 EA 1-7/8" To 2", 100 Ton Hydraulic Jack For Rock Bolt, 10" Stroke	2,508.29	
For >3 To 9, Deduct	-188.12	
For >9, Deduct	-388.78	
31 68 13 00-0182 EA 1-7/8" To 2", 150 Ton Hydraulic Jack For Rock Bolt, 12" Stroke	3,749.44	
For >3 To 9, Deduct	-281.21	
For >9, Deduct	-581.16	
31 68 13 00-0183 Torque Wrenches And Ratchet Adapter, Monthly Rental (31 68 13 00-0176)		
31 68 13 00-0184 0-500 Foot Pounds (0-678J) (31 68 13 00-0183)		
31 68 13 00-0185 EA 1/2" To 1" Bolt Diameter Torque Wrench 0 To 500 Foot Pounds, Monthly Rental.....	237.14	
For >3 To 9, Deduct	-17.79	
For >9, Deduct	-36.76	
31 68 13 00-0186 EA Torque Wrench Ratchet Adapter Monthly Rental, 0 To 500 Foot Pounds	148.65	
For >3 To 9, Deduct	-11.15	
For >9, Deduct	-23.04	
31 68 13 00-0187 EA Torque Wrench With Adapter 0 To 500 Foot Pounds, Monthly Rental	386.08	
For >3 To 9, Deduct	-28.96	
For >9, Deduct	-59.84	
31 68 13 00-0188 0-600 Foot Pounds (0-814J) (31 68 13 00-0183)		
31 68 13 00-0189 EA 0 To 600 Foot Pounds Torque Wrench Self-Ratcheting, Monthly Rental.....	269.24	
For >3 To 9, Deduct	-20.19	
For >9, Deduct	-41.73	
31 68 13 00-0190 Up To 1,000 Foot Pounds (0-1356J) (31 68 13 00-0183)		
31 68 13 00-0191 EA 1-1/8" To 2" Bolt Diameter Torque Wrench 0 To 1,000 Foot Pounds, Monthly Rental.....	517.08	
For >3 To 9, Deduct	-38.78	
For >9, Deduct	-80.15	
31 68 13 00-0192 EA Torque Wrench Ratchet Adapter 0 To 1,000 Foot Pounds, Monthly Rental	127.54	
For >3 To 9, Deduct	-9.57	
For >9, Deduct	-19.77	
31 68 13 00-0193 EA Torque Wrench With Ratchet 0 To 1,000 Foot Pounds, Monthly Rental.....	644.62	
For >3 To 9, Deduct	-48.35	
For >9, Deduct	-99.92	
31 68 13 00-0194 Torque Multiplier, 4:1 Multiplier (31 68 13 00-0176)		
31 68 13 00-0195 EA Torque Multiplier, 4 To 1 Ratio.....	662.26	
For >3 To 9, Deduct	-49.67	
For >9, Deduct	-102.65	
31 68 13 00-0196 Pneumatic Drive Torque Wrench (31 68 13 00-0176)		
31 68 13 00-0197 EA Pneumatic Drive Torque Wrench 250 To 900 Foot Pounds (339J - 1220J).....	1,417.07	
For >3 To 9, Deduct	-106.28	
For >9, Deduct	-219.65	
31 68 13 00-0198 Grouting (31 68 13)		
31 68 13 00-0199 Grouting With Pumps (31 68 13 00-0198)		
Note: Grout material and labor only.		
31 68 13 00-0200 GAL Rock Bolt Grouting, Hand Pump 1 To 2 GPM Delivery.....	20.70	
For >3 To 9, Deduct	-0.89	
For >9, Deduct	-1.84	
31 68 13 00-0201 GAL Rock Bolt Grouting, Air Pump 3 To 4 GPM Continuous Delivery.....	31.96	
For >3 To 9, Deduct	-0.89	
For >9, Deduct	-1.84	
31 68 13 00-0202 GAL Rock Bolt Grout, Air/Piston Pump 2 To 4 GPM Delivery.....	29.54	
For >3 To 9, Deduct	-0.89	
For >9, Deduct	-1.84	
31 68 13 00-0203 Grout Pumps, Monthly Rental (31 68 13 00-0198)		
31 68 13 00-0204 EA Hand Grout Pump, Monthly Rental	144.60	
For >3 To 9, Deduct	-10.85	
For >9, Deduct	-22.41	
31 68 13 00-0205 EA Air Powered Programmable Feed Grout Pump Monthly Rental.....	1,216.45	
For >3 To 9, Deduct	-91.23	
For >9, Deduct	-188.55	
31 68 13 00-0206 EA Air Powered, Piston Drive Grout Pump Monthly Rental	2,123.81	
For >3 To 9, Deduct	-159.29	
For >9, Deduct	-329.19	
31 68 13 00-0207 Rock Bolt Testing (31 68 13)		
31 68 13 00-0208 EA Rock Bolt Test, Low To Medium Capacity LF >100 Bolts Need Testing.....	559.46	
For >3 To 9, Deduct	-41.96	
For >9, Deduct	-86.72	



Earthwork	31	31
Special Foundations and Load-bearing Elements	31 60	
Foundation Anchors	31 68	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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END OF SECTION 31

31	31	Earthwork
	31 60	Special Foundations and Load-bearing Elements
	31 68	Foundation Anchors



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 Exterior Improvements

32 01 Operation and Maintenance of Exterior Improvements ⁽³²⁾

32 01 11 Paving Cleaning ^(32 01)

32 01 11 53 Paint Removal from Paving ^(32 01 11)

32 01 11 53-0001 Remove Pavement Markings ^(32 01 11 53)

Note: Includes stripe removal by grinding, vacuuming of removed striped area and containment of debris.

32 01 11 53-0002	LF	Removal Of 4" Wide Painted Or Epoxy Pavement Striping	1.97
		<i>For Up To 250, Add</i>	0.99
		<i>For >250 To 1,000, Add</i>	0.49
		<i>For >5,000 To 10,000, Deduct</i>	-0.30
		<i>For >10,000 To 25,000, Deduct</i>	-0.49
		<i>For >25,000 To 50,000, Deduct</i>	-0.69
		<i>For >50,000, Deduct</i>	-0.79
32 01 11 53-0003	LF	Removal Of 6" Wide Painted Or Epoxy Pavement Striping	2.38
		<i>For Up To 250, Add</i>	1.19
		<i>For >250 To 1,000, Add</i>	0.60
		<i>For >5,000 To 10,000, Deduct</i>	-0.36
		<i>For >10,000 To 25,000, Deduct</i>	-0.60
		<i>For >25,000 To 50,000, Deduct</i>	-0.83
		<i>For >50,000, Deduct</i>	-0.95
32 01 11 53-0004	LF	Removal Of 8" Wide Painted Or Epoxy Pavement Striping	2.85
		<i>For Up To 250, Add</i>	1.43
		<i>For >250 To 1,000, Add</i>	0.71
		<i>For >5,000 To 10,000, Deduct</i>	-0.43
		<i>For >10,000 To 25,000, Deduct</i>	-0.71
		<i>For >25,000 To 50,000, Deduct</i>	-1.00
		<i>For >50,000, Deduct</i>	-1.14
32 01 11 53-0005	LF	Removal Of 12" Wide Painted Or Epoxy Pavement Striping	3.40
		<i>For Up To 250, Add</i>	1.70
		<i>For >250 To 1,000, Add</i>	0.85
		<i>For >5,000 To 10,000, Deduct</i>	-0.51
		<i>For >10,000 To 25,000, Deduct</i>	-0.85
		<i>For >25,000 To 50,000, Deduct</i>	-1.19
		<i>For >50,000, Deduct</i>	-1.36
32 01 11 53-0006	SF	Removal Of Painted Or Epoxy Pavement Marking, Letters Or Symbols	3.40
		<i>For Up To 250, Add</i>	1.70
		<i>For >250 To 1,000, Add</i>	0.85
		<i>For >5,000 To 10,000, Deduct</i>	-0.51
		<i>For >10,000 To 25,000, Deduct</i>	-0.85
		<i>For >25,000 To 50,000, Deduct</i>	-1.19
		<i>For >50,000, Deduct</i>	-1.36

32 01 11 53-0007 Remove Pavement Markings (Monterey County) ^(32 01 11 53)

32 01 11 53-0008	LF	Remove Thermoplastic Pavement Stripe	1.35
32 01 11 53-0009	SF	Remove Thermoplastic Pavement Marking	5.52

32 01 13 Flexible Paving Surface Treatment ^(32 01)

32 01 13 61 Slurry Seal (Latex Modified) ^(32 01 13)

32 01 13 61-0001 Asphalt Seal Coating, For Roads And Parking Lot ^(32 01 13 61)

Note: Includes sweeping and cleaning of area.

32 01 13 61-0002	EA	Asphalt Seal Coating Minimum Charge	802.88
		Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
32 01 13 61-0003	SY	Up To 500 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat.....	2.96
32 01 13 61-0004	SY	>500 To 1,000 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat.....	2.70
32 01 13 61-0005	SY	>1,000 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat.....	2.50
32 01 13 61-0006	SY	Up To 500 SY, Type I Slurry Seal Asphalt Coating, Per Coat	3.21
		Note: 1/8" thick.	
		<i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i>	0.31
		<i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i>	0.37
		<i>For Rubberized Polymer Modified Emulsion (RPME), Add</i>	0.47
		<i>For Each 0.5% Of Latex Addition, Add</i>	0.24
32 01 13 61-0007	SY	>500 To 1,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat	3.01
		Note: 1/8" thick.	
		<i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i>	0.30
		<i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i>	0.36
		<i>For Rubberized Polymer Modified Emulsion (RPME), Add</i>	0.46
		<i>For Each 0.5% Of Latex Addition, Add</i>	0.24
32 01 13 61-0008	SY	>1,000 To 5,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat	2.85
		Note: 1/8" thick.	
		<i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i>	0.29
		<i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i>	0.35
		<i>For Rubberized Polymer Modified Emulsion (RPME), Add</i>	0.45
		<i>For Each 0.5% Of Latex Addition, Add</i>	0.24

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 13 Flexible Paving Surface Treatment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01	13 61-0009	SY	>5,000 To 20,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat .....2.70 Note: 1/8" thick. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> 0.28 <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> 0.34 <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> 0.44 <i>For Each 0.5% Of Latex Addition, Add</i> 0.24		
32 01	13 61-0010	SY	>20,000 To 50,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat .....2.70 Note: 1/8" thick. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> 0.28 <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> 0.34 <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> 0.44 <i>For Each 0.5% Of Latex Addition, Add</i> 0.24		
32 01	13 61-0011	SY	>50,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat .....2.45 Note: 1/8" thick. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> 0.27 <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> 0.33 <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> 0.43 <i>For Each 0.5% Of Latex Addition, Add</i> 0.24		
32 01	13 61-0012	SY	Up To 500 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....4.33 Note: 1/4" thick, 14 to 18 Lbs/SY. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> 0.33 <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> 0.39 <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> 0.49 <i>For Each 0.5% Of Latex Addition, Add</i> 0.36		
32 01	13 61-0013	SY	>500 To 1,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat .....4.02 Note: 1/4" thick, 14 to 18 Lbs/SY. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> 0.32 <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> 0.38 <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> 0.48 <i>For Each 0.5% Of Latex Addition, Add</i> 0.36		
32 01	13 61-0014	SY	>1,000 To 5,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat .....3.78 Note: 1/4" thick, 14 to 18 Lbs/SY. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> 0.31 <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> 0.37 <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> 0.47 <i>For Each 0.5% Of Latex Addition, Add</i> 0.36		
32 01	13 61-0015	SY	>5,000 To 20,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat .....3.55 Note: 1/4" thick, 14 to 18 Lbs/SY. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> 0.29 <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> 0.35 <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> 0.45 <i>For Each 0.5% Of Latex Addition, Add</i> 0.36		
32 01	13 61-0016	SY	>20,000 To 50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat .....3.34 Note: 1/4" thick, 14 to 18 Lbs/SY. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> 0.28 <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> 0.34 <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> 0.44 <i>For Each 0.5% Of Latex Addition, Add</i> 0.36		
32 01	13 61-0017	SY	>50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat .....3.15 Note: 1/4" thick, 14 to 18 Lbs/SY. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> 0.27 <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> 0.33 <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> 0.43 <i>For Each 0.5% Of Latex Addition, Add</i> 0.36		
32 01	13 61-0018	SY	Up To 500 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....5.39 Note: 3/8" thick, 25 to 30 Lbs/SY. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> 0.34 <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> 0.40 <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> 0.50 <i>For Each 0.5% Of Latex Addition, Add</i> 0.58		
32 01	13 61-0019	SY	>500 To 1,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat .....5.06 Note: 3/8" thick, 25 to 30 Lbs/SY. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> 0.33 <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> 0.39 <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> 0.49 <i>For Each 0.5% Of Latex Addition, Add</i> 0.58		
32 01	13 61-0020	SY	>1,000 To 5,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat .....4.80 Note: 3/8" thick, 25 to 30 Lbs/SY. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> 0.31 <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> 0.37 <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> 0.47 <i>For Each 0.5% Of Latex Addition, Add</i> 0.58		
32 01	13 61-0021	SY	>5,000 To 20,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat .....4.55 Note: 3/8" thick, 25 to 30 Lbs/SY. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> 0.30 <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> 0.36 <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> 0.46 <i>For Each 0.5% Of Latex Addition, Add</i> 0.58		
32 01	13 61-0022	SY	>20,000 To 50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat .....4.33 Note: 3/8" thick, 25 to 30 Lbs/SY. <i>For Tire Rubber Modified Slurry Seal (TRMSS), Add</i> 0.29 <i>For Rubberized Emulsion Aggregate Slurry (REAS), Add</i> 0.35 <i>For Rubberized Polymer Modified Emulsion (RPME), Add</i> 0.45 <i>For Each 0.5% Of Latex Addition, Add</i> 0.58		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 13 61-0023 SY >50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat	4.12	
Note: 3/8" thick, 25 to 30 Lbs/SY.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.28	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.34	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.44	
For Each 0.5% Of Latex Addition, Add	0.58	
32 01 13 62 Asphalt Surface Treatment (32 01 13)		
32 01 13 62-0001 Polymer-Modified, Microsurfacing Emulsion (MSE Microsurfacing) (32 01 13 62)		
Note: Use a blend of emulsified quick-set polymer-modified emulsion asphalt and latex-based polymer. Includes sweeping and cleaning of area.		
32 01 13 62-0002 SY Up To 200 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	9.60	
32 01 13 62-0003 SY Up To 500 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	9.08	
32 01 13 62-0004 SY >500 To 1,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	8.63	
32 01 13 62-0005 SY >1,000 To 5,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	8.24	
32 01 13 62-0006 SY >5,000 To 10,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	7.88	
32 01 13 62-0007 SY >10,000 To 20,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	7.57	
32 01 13 62-0008 SY >20,000 To 50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	7.35	
32 01 13 62-0009 SY >50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	7.23	
32 01 16 Flexible Paving Rehabilitation (32 01)		
32 01 16 71 Cold Milling Asphalt Pavement (32 01 16)		
32 01 16 71-0001 Removal Of Asphalt Surface Course (32 01 16 71)		
Note: Includes direct loading into truck.		
32 01 16 71-0002 Production Cold Milling Of Roads And Parking Areas (32 01 16 71-0001)		
Note: For removal of entire lanes of roads or parking areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0050 for hauling.		
32 01 16 71-0003 SY Up To 3" Depth, Production Cold Milling Of Asphalt	4.59	
For Up To 2,500, Add	3.44	
For >2,500 To 5,000, Add	1.15	
For >10,000 To 25,000, Deduct	-0.46	
For >25,000, Deduct	-0.69	
32 01 16 71-0004 SY >3" To 6" Depth, Production Cold Milling Of Asphalt	6.12	
For Up To 2,500, Add	4.59	
For >2,500 To 5,000, Add	1.53	
For >10,000 To 25,000, Deduct	-0.61	
For >25,000, Deduct	-0.92	
32 01 16 71-0005 SY >6" To 12" Depth, Production Cold Milling Of Asphalt	8.14	
For Up To 2,500, Add	6.11	
For >2,500 To 5,000, Add	2.04	
For >10,000 To 25,000, Deduct	-0.81	
For >25,000, Deduct	-1.22	
32 01 16 71-0006 Limited Production Cold Milling (32 01 16 71-0001)		
Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0050 for hauling.		
32 01 16 71-0007 SY Up To 3" Depth, Limited Cold Milling Of Asphalt	29.02	
For >100 To 1,000, Deduct	-14.51	
For >1,000, Deduct	-21.77	
32 01 16 71-0008 SY >3" To 6" Depth, Limited Cold Milling Of Asphalt	38.42	
For >100 To 1,000, Deduct	-19.21	
For >1,000, Deduct	-28.82	
32 01 16 71-0009 SY >6" To 12" Depth, Limited Cold Milling Of Asphalt	51.18	
For >100 To 1,000, Deduct	-25.59	
For >1,000, Deduct	-38.39	
32 01 16 71-0010 Grind, Leave In-Place Asphalt Grindings (32 01 16 71)		
Note: For use as subbase material, includes spreading and rolling.		
32 01 16 71-0011 SY Grind, Leave In-Place As Subbase Course, 6-9" Depth	7.46	
32 01 16 73 In Place Cold Reused Asphalt Paving (32 01 16)		
32 01 16 73-0001 Cold-In-Place-Full Depth Reclamation With Foam Asphalt (FDR-FA) (32 01 16 73)		
Note: Includes milling Up To 12" of existing AC surface. Excludes traffic control, grading, utilities adjustment and wearing course of either Chip Seal or HMA overlay of the finished surface.		
32 01 16 73-0002 SF Up To 30,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	4.93	
For >12" To 18" Depth, Add	1.67	
32 01 16 73-0003 SF >30,000 To 42,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	4.59	
For >12" To 18" Depth, Add	1.57	
32 01 16 73-0004 SF >42,000 To 71,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	3.86	
For >12" To 18" Depth, Add	1.35	
32 01 16 73-0005 SF >71,000 To 130,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA)	3.29	
For >12" To 18" Depth, Add	1.18	

32 Exterior Improvements
32 01 Operation and Maintenance of Exterior Improvements
32 01 16 Flexible Paving Rehabilitation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 16 73-0006	SF		>130,000 To 250,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA) <i>For >12" To 18" Depth, Add</i>	2.94 1.07	
32 01 16 73-0007	SF		>250,000 To 500,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA) <i>For >12" To 18" Depth, Add</i>	2.71 1.00	
32 01 16 73-0008	SF		>500,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA) <i>For >12" To 18" Depth, Add</i>	2.55 0.95	
32 01 16 73-0009			Cold-In-Place-Full Depth Reclamation Process With Cement (FDR-C) <small>(32 01 16 73)</small> <small>Note: Includes milling Up To 12" of existing AC surface. Excludes traffic control, grading, utilities adjustment and wearing course of either Chip Seal or HMA overlay of the finished surface.</small>		
32 01 16 73-0010	SF		Up To 30,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C) <i>For >12" To 18" Depth, Add</i>	5.12 1.76	
32 01 16 73-0011	SF		>42,000 To 71,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C) <i>For >12" To 18" Depth, Add</i>	4.05 1.44	
32 01 16 73-0012	SF		>71,000 To 130,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C) <i>For >12" To 18" Depth, Add</i>	3.48 1.27	
32 01 16 73-0013	SF		>130,000 To 250,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C) <i>For >12" To 18" Depth, Add</i>	3.13 1.17	
32 01 16 73-0014	SF		>250,000 To 500,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C) <i>For >12" To 18" Depth, Add</i>	2.90 1.10	
32 01 16 73-0015	SF		>500,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C) <i>For >12" To 18" Depth, Add</i>	2.74 1.05	
32 01 16 73-0016			Supplemental Aggregate <small>(32 01 16 73)</small>		
32 01 16 73-0017	TON		Supplemental Aggregate	87.04	
32 01 16 73-0018			Cold-In-Place Recycling (CALTRAN) <small>(32 01 16 73)</small>		
32 01 16 73-0019	TON		Sand Cover (CIPR) <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 2,500, Deduct</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	58.00 -1.45 -2.90 -4.06 -5.22	
32 01 16 73-0020	SY		Cold In Place Recycling (CIPR) <i>For >10,000 To 25,000, Deduct</i> <i>For >25,000, Deduct</i>	6.50 -0.65 -0.98	
32 01 16 73-0021	TON		Cement (CIPR) <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 2,500, Deduct</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	135.00 -3.38 -6.75 -9.45 -12.15	
32 01 16 73-0022	TON		Emulsified Recycling Agent (CIPR) <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 2,500, Deduct</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	610.00 -15.25 -30.50 -42.70 -54.90	
32 01 16 73-0023	TON		Asphaltic Emulsion (CIPR) <i>For >500 To 1,000, Deduct</i> <i>For >1,000 To 2,500, Deduct</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	610.00 -15.25 -30.50 -42.70 -54.90	
32 01 16 74			In Place Hot Reused Asphalt Paving <small>(32 01 16)</small>		
32 01 16 74-0001			Reclamation, Pulverize And Blending With Existing <small>(32 01 16 74)</small> <small>Note: Includes direct loading into truck.</small>		
32 01 16 74-0002	SY		Up To 2" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	15.63	
32 01 16 74-0003	SY		Up To 2" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	7.81	
32 01 16 74-0004	SY		Up To 2" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	3.91	
32 01 16 74-0005	SY		Up To 2" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	3.70	
32 01 16 74-0006	SY		>2" To 3" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	4.26	
32 01 16 74-0007	SY		>2" To 3" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	17.05	
32 01 16 74-0008	SY		>2" To 3" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	8.53	
32 01 16 74-0009	SY		>2" To 3" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	4.02	
32 01 16 74-0010	SY		>3" To 4" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	18.76	
32 01 16 74-0011	SY		>3" To 4" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	9.38	
32 01 16 74-0012	SY		>3" To 4" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	4.68	
32 01 16 74-0013	SY		>3" To 4" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	4.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 16 74-0014 SY >4" To 8" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	20.47	
32 01 16 74-0015 SY >4" To 8" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	10.23	
32 01 16 74-0016 SY >4" To 8" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	5.12	
32 01 16 74-0017 SY >4" To 8" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base	4.77	
32 01 16 74-0018 EA Mobilization And Demobilization For Reclamation, Pulverizing And Blending Crew.....	1,758.71	
32 01 16 74-0019 Rejuvenate, Respread Asphalt Pavement <small>(32 01 16 74)</small>		
Note: Includes direct loading into truck.		
32 01 16 74-0020 SY Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep	12.48	
32 01 16 74-0021 SY Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep, Previously Sealed Cold Tar.....	14.54	
32 01 16 74-0022 TON Removal, Rejuvenation, And Respreading Of Asphalt Grindings	198.01	
32 01 17 Flexible Paving Repair <small>(32 01)</small>		
See CSI section 32 12 16 00-0000 for large area resurfacing.		
32 01 17 61 Sealing Cracks in Asphalt Paving <small>(32 01 17)</small>		
Note: Includes removing loose materials and cleaning.		
32 01 17 61-0001 Hot-Applied, Pourable, Self-Adhesive Asphalt Binder Compounded With Standard Weight Aggregate Longitudinal Crack And Sealing Repair <small>(32 01 17 61)</small>		
Note: Includes removing loose materials and cleaning.		
32 01 17 61-0002 LF Up To 200 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.77	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
For 3/4" x 1/2" Fill, Add	0.51	
For 1" x 1/2" Fill, Add	0.96	
For Backer Rod, Add	1.02	
32 01 17 61-0003 LF >200 To 500 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.44	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
For 3/4" x 1/2" Fill, Add	0.42	
For 1" x 1/2" Fill, Add	0.80	
For Backer Rod, Add	0.91	
32 01 17 61-0004 LF >500 To 2,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	1.15	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
For 3/4" x 1/2" Fill, Add	0.34	
For 1" x 1/2" Fill, Add	0.65	
For Backer Rod, Add	0.81	
32 01 17 61-0005 LF >2,000 To 5,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	0.99	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
For 3/4" x 1/2" Fill, Add	0.30	
For 1" x 1/2" Fill, Add	0.57	
For Backer Rod, Add	0.76	
32 01 17 61-0006 LF >5,000 To 10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	0.89	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
For 3/4" x 1/2" Fill, Add	0.27	
For 1" x 1/2" Fill, Add	0.51	
For Backer Rod, Add	0.71	
32 01 17 61-0007 LF >10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	0.82	
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
For 3/4" x 1/2" Fill, Add	0.24	
For 1" x 1/2" Fill, Add	0.46	
For Backer Rod, Add	0.67	
32 01 17 61-0008 LF Up To 200 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	2.91	
For 3/8" x 1/4" Fill, Add	0.70	
For 1/2" x 1/4" Fill, Add	1.29	
For 1/2" x 1/2" Fill, Add	3.11	
32 01 17 61-0009 LF >200 To 500 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler	2.35	
For 3/8" x 1/4" Fill, Add	0.58	
For 1/2" x 1/4" Fill, Add	1.07	
For 1/2" x 1/2" Fill, Add	2.60	
32 01 17 61-0010 LF >500 To 2,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler	1.82	
For 3/8" x 1/4" Fill, Add	0.46	
For 1/2" x 1/4" Fill, Add	0.85	
For 1/2" x 1/2" Fill, Add	2.08	
32 01 17 61-0011 LF >2,000 To 5,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.60	
For 3/8" x 1/4" Fill, Add	0.40	
For 1/2" x 1/4" Fill, Add	0.75	
For 1/2" x 1/2" Fill, Add	1.86	
32 01 17 61-0012 LF >5,000 To 10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.44	
For 3/8" x 1/4" Fill, Add	0.36	
For 1/2" x 1/4" Fill, Add	0.67	
For 1/2" x 1/2" Fill, Add	1.64	
32 01 17 61-0013 LF >10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.33	
For 3/8" x 1/4" Fill, Add	0.33	
For 1/2" x 1/4" Fill, Add	0.61	
For 1/2" x 1/2" Fill, Add	1.49	
32 01 17 61-0014 LF For Routing And Cleaning Of Crack, Add Per 1/2" Depth.....	0.50	

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 17 Flexible Paving Repair**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 17 61-0015 LNMI Crack Seal/Filler Per Lane (10' to 12' Wide) Per Mile Note: This work shall consist of removal of loose matter from cracks with brooms and compressed air and sealing the crack with rubber or other elastomeric modified asphalt, ASTM D 1190, D 3405 or AASHTO M-173. The sealant shall be applied from the bottom of the crack up and the sealant material shall be sprinkled with dry sand to prevent pick-up by traffic.	3,872.62	
32 01 17 63 Flexible Pavement Repair (32 01 17)		
32 01 17 63-0001 Temporary Pot Hole Repair (32 01 17 63)		
Note: Includes removal of loose material and moisture, bonding agent, compaction, safety cones and hauling up to 15 miles. Excludes signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.		
32 01 17 63-0002 EA Temporary Pot Hole Repairs With Cold Mix Modified, Up To 3 Tons	1,650.17	
32 01 17 63-0003 TON Temporary Pot Hole Repairs With Cold Mix Modified	500.38	
Note: Use for each ton over 3 tons.		
32 01 17 63-0004 EA Temporary Pot Hole Repairs With Cold Mix, Up To 3 Tons.....	1,572.08	
32 01 17 63-0005 TON Temporary Pot Hole Repairs With Cold Mix	474.35	
Note: Use for each ton over 3 tons.		
32 01 17 63-0006 EA Temporary Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons	1,533.03	
32 01 17 63-0007 TON Temporary Pot Hole Repairs With Hot Mix Modified.....	461.33	
Note: Use for each ton over 3 tons.		
32 01 17 63-0008 EA Temporary Pot Hole Repairs With Hot Mix, Up To 3 Tons.....	1,493.98	
32 01 17 63-0009 TON Temporary Pot Hole Repairs With Hot Mix	448.31	
Note: Use for each ton over 3 tons.		
32 01 17 63-0010 Permanent Pot Hole Repair (32 01 17 63)		
Note: Includes removal of loose material and moisture, saw cutting, chipping, squaring off, bonding agent, compaction and hauling up to 15 miles Tasks do not include signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.		
32 01 17 63-0011 EA Permanent Pot Hole Repairs With Cold Mix, Up To 3 Tons.....	1,760.18	
32 01 17 63-0012 TON Permanent Pot Hole Repairs With Cold Mix	572.43	
Note: Use for each ton over 3 tons.		
32 01 17 63-0013 EA Permanent Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons	1,721.13	
32 01 17 63-0014 TON Permanent Pot Hole Repairs With Hot Mix Modified.....	559.41	
Note: Use for each ton over 3 tons.		
32 01 17 63-0015 EA Permanent Pot Hole Repairs With Hot Mix, Up To 3 Tons	1,682.08	
32 01 17 63-0016 TON Permanent Pot Hole Repairs With Hot Mix.....	546.39	
Note: Use for each ton over 3 tons.		
32 01 17 63-0017 Asphalt Placement For Small Repairs (32 01 17 63)		
Note: This section is used for placing up to 100 tons of asphalt after a small area of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc. Includes mobilization of paving equipment such as a roller, placing the asphalt, compaction and hauling up to 15 miles. Excludes saw cutting, demolition of existing pavement, and new subbase material. Use approximately 0.055 tons per square yard per inch of depth. See CSI section 02 41 19 13-0057 for saw cutting, 32 12 16 13-0000 for areas requiring more than 100 tons.		
32 01 17 63-0018 EA Asphalt Placement For Small Repair Areas, Cold Mix Modified, Up To 3 Tons.....	2,331.43	
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0019 TON Asphalt Placement For Small Repair Areas, Cold Mix Modified.....	306.00	
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0020 EA Asphalt Placement For Small Repair Areas, Cold Mix, Up To 3 Tons	2,253.34	
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0021 TON Asphalt Placement For Small Repair Areas, Cold Mix	279.97	
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0022 EA Asphalt Placement For Small Repair Areas, Hot Mix Modified, Up To 3 Tons.....	2,214.29	
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0023 TON Asphalt Placement For Small Repair Areas, Hot Mix Modified	266.95	
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0024 EA Asphalt Placement For Small Repair Areas, Hot Mix, Up To 3 Tons	2,175.24	
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0025 TON Asphalt Placement For Small Repair Areas, Hot Mix.....	253.93	
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.		
32 01 17 63-0026 Grind Asphalt (32 01 17 63)		
32 01 17 63-0027 SY Grinding Asphalt To Level Bump Or Raised Area.....	19.86	
32 01 26 Rigid Paving Rehabilitation (32 01)		
32 01 26 71 Grooving of Concrete Paving (32 01 26)		
32 01 26 71-0001 Roadway Grooving (32 01 26 71)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 26 71-0002 EA First 500 SY Of Pavement Grooving, Concrete, Longitudinal.....	4,009.85	
32 01 26 71-0003 SY Each SY Over First 500 SY Of Pavement Grooving, Concrete, Longitudinal	3.71	
32 01 26 71-0004 EA First 500 SY Of Pavement Grooving, Concrete, Traverse.....	4,467.12	
32 01 26 71-0005 SY Each SY Over First 500 SY Of Pavement Grooving, Concrete, Traverse	4.83	
32 01 26 71-0006 Rumble Strips (32 01 26 71)		
32 01 26 71-0007 EA First 5280 LF Of MIARDS, Rumble Strips, Asphalt.....	4,190.84	
32 01 26 71-0008 LF Each LF Over First 5280 LF Of MIARDS, Rumble Strips, Asphalt.....	0.76	
32 01 26 71-0009 EA First 2000 LF Of MIARDS, Rumble Strips, Concrete.....	4,670.31	
32 01 26 71-0010 LF Each LF Over First 2000 LF Of MIARDS, Rumble Strips, Concrete.....	0.85	
32 01 26 73 Milling Of Concrete Paving (32 01 26)		
32 01 26 73-0001 Removal Of Concrete (32 01 26 73)		
Note: Includes direct loading into truck.		
32 01 26 73-0002 Production Milling Of Roads And Parking Areas (32 01 26 73-0001)		
Note: For removal of entire lanes of roads or parking areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0050 for hauling.		
32 01 26 73-0003 SY Production Milling Of Concrete Per Inch.....	6.95	
32 01 26 73-0004 Limited Production Milling (32 01 26 73-0001)		
Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0050 for hauling.		
32 01 26 73-0005 SY Limited Production Milling Of Concrete Per Inch	43.62	
32 01 90 Operation and Maintenance of Planting (32 01)		
Note: These tasks are to be used as requested by the owner to maintain existing conditions.		
32 01 90 13 Fertilizing (32 01 90)		
32 01 90 13-0001 MSF Fertilizer - 2 LB Of Nitrogen/MSF (Granular)	13.74	
32 01 90 13-0002 MSF Fertilizer - 2 LB Of Nitrogen/MSF (Liquid).....	9.97	
32 01 90 13-0003 MSF Fertilizer - 0.5 LB Of Nitrogen/MSF (Granular)	10.92	
32 01 90 13-0004 MSF Fertilizer - 0.5 LB Of Nitrogen/MSF (Liquid).....	8.94	
32 01 90 19 Mowing (32 01 90)		
32 01 90 19-0001 ACR Vegetation Cutting By Bush Hog	195.68	
Note: Includes normal debris removal, cutting, and trimming.		
For <1 Acre, Add		48.92
32 01 90 19-0002 MSF Mowing Vegetation With Riding Mower, >20,000 To 45,000 SF.....	6.87	
32 01 90 19-0003 MSF Mowing Vegetation With Riding Mower, >45,000 SF.....	5.33	
32 01 90 19-0004 MSF Clear Vegetation With Weed Trimmer, Up To 1,000 SF.....	22.77	
For Work On Slopes >2:1, Add		5.69
For Clearing Light Brush, Add		3.42
32 01 90 19-0005 MSF Clear Vegetation With Weed Trimmer, >1,000 SF.....	19.12	
For Work On Slopes >2:1, Add		4.78
For Clearing Light Brush, Add		2.87
32 01 90 19-0006 MSF Blow Or Vacuum Dispersed Non-Native Seed After Bulk Of Biomass Removed	20.26	
32 01 90 23 Pruning (32 01 90)		
32 01 90 23-0001 Tree Pruning (32 01 90 23)		
Note: Types of pruning for mature trees (these standards are established by the ISA - International Society of Arboriculture). Includes loading onto truck or dumpster.		
32 01 90 23-0002 Tree Pruning; Crown Cleaning (32 01 90 23-0001)		
Note: Crown cleaning or cleaning out is the removal of dead, dying, diseased, crowded, weakly attached, and low-vigor branches and waterspouts from a tree crown.		
32 01 90 23-0003 EA 1-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	28.45	
32 01 90 23-0004 EA 2" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	32.51	
32 01 90 23-0005 EA 2-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	36.57	
32 01 90 23-0006 EA 3" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	40.65	
32 01 90 23-0007 EA 4" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	61.77	
32 01 90 23-0008 EA 4" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	106.26	
32 01 90 23-0009 EA 6" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	108.10	
32 01 90 23-0010 EA 6" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	202.38	
32 01 90 23-0011 EA 9" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	173.10	
32 01 90 23-0012 EA 9" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	323.74	
32 01 90 23-0013 EA 12" Caliper, Tree Pruning (Crown Cleaning), By Hand	200.02	
32 01 90 23-0014 EA 12" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	374.39	
32 01 90 23-0015 EA 18" Caliper, Tree Pruning (Crown Cleaning), By Hand	232.52	
32 01 90 23-0016 EA 18" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	435.10	
32 01 90 23-0017 EA 24" Caliper, Tree Pruning (Crown Cleaning), By Hand	283.03	
32 01 90 23-0018 EA 24" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	526.26	
32 01 90 23-0019 EA 30" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	351.59	

32 Exterior Improvements
32 01 Operation and Maintenance of Exterior Improvements
32 01 90 Operation and Maintenance of Planting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 01 90 23-0020	EA		30" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	663.24	
32 01 90 23-0021	EA		36" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	481.56	
32 01 90 23-0022	EA		36" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	898.92	
32 01 90 23-0023	EA		48" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	763.97	
32 01 90 23-0024	EA		48" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	1,445.61	

32 01 90 23-0025 Tree Pruning; Crown Thinning (32 01 90 23-0001)

Note: Crown thinning includes crown cleaning and the selective removal of branches to increase light penetration and air movement into the crown. Increased light and air stimulates and maintains interior foliage, which in turn improves branch taper and strength. Thinning reduces the wind-sail effect of the crown and the weight of the heavy limbs. Thinning the crown can emphasize the structural beauty of the trunk and branches as well as improve the growth of plants beneath the tree by increasing light penetration. When thinning the crown of mature trees, seldom should more than one-third of the live foliage be removed. At least one-half of the foliage should be on branches that arise in the lower two-thirds of the trees. Likewise, when thinning laterals from a limb, an effort should be made to retain inner lateral branches and leave the same distribution of foliage along the branch. Trees and branches so pruned will have stress more evenly distributed throughout the tree or along a branch.

32 01 90 23-0026	EA		1-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand.....	34.88	
32 01 90 23-0027	EA		2" Caliper, Tree Pruning (Crown Thinning), By Hand.....	39.83	
32 01 90 23-0028	EA		2-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand.....	44.79	
32 01 90 23-0029	EA		3" Caliper, Tree Pruning (Crown Thinning), By Hand.....	49.83	
32 01 90 23-0030	EA		4" Caliper, Tree Pruning (Crown Thinning), By Hand.....	75.68	
32 01 90 23-0031	EA		4" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	130.14	
32 01 90 23-0032	EA		6" Caliper, Tree Pruning (Crown Thinning), By Hand.....	132.41	
32 01 90 23-0033	EA		6" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	247.92	
32 01 90 23-0034	EA		9" Caliper, Tree Pruning (Crown Thinning), By Hand.....	212.08	
32 01 90 23-0035	EA		9" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	396.57	
32 01 90 23-0036	EA		12" Caliper, Tree Pruning (Crown Thinning), By Hand.....	245.00	
32 01 90 23-0037	EA		12" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	458.61	
32 01 90 23-0038	EA		18" Caliper, Tree Pruning (Crown Thinning), By Hand.....	284.83	
32 01 90 23-0039	EA		18" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	532.99	
32 01 90 23-0040	EA		24" Caliper, Tree Pruning (Crown Thinning), By Hand.....	346.69	
32 01 90 23-0041	EA		24" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	644.69	
32 01 90 23-0042	EA		30" Caliper, Tree Pruning (Crown Thinning), By Hand.....	430.66	
32 01 90 23-0043	EA		30" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	812.48	
32 01 90 23-0044	EA		36" Caliper, Tree Pruning (Crown Thinning), By Hand.....	589.90	
32 01 90 23-0045	EA		36" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	1,101.17	
32 01 90 23-0046	EA		48" Caliper, Tree Pruning (Crown Thinning), By Hand.....	935.86	
32 01 90 23-0047	EA		48" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	1,770.87	

32 01 90 23-0048 Tree Pruning; Crown Raising (32 01 90 23-0001)

Note: Crown raising removes the lower branches of a tree in order to provide clearance for buildings, vehicles, pedestrians, and vistas. It is important that a tree have at least one-half of its foliage on branches that originate in the lower two-thirds of its trunk to ensure a well-formed, tapered structure and to uniformly distribute stress within a tree. When pruning for view, it is preferable to develop "windows" through the foliage of the tree, rather than to severely raise or reduce the crown.

32 01 90 23-0049	EA		1-1/2" Caliper, Tree Pruning (Crown Raising), By Hand.....	38.45	
32 01 90 23-0050	EA		2" Caliper, Tree Pruning (Crown Raising), By Hand.....	43.90	
32 01 90 23-0051	EA		2-1/2" Caliper, Tree Pruning (Crown Raising), By Hand.....	49.42	
32 01 90 23-0052	EA		3" Caliper, Tree Pruning (Crown Raising), By Hand.....	54.87	
32 01 90 23-0053	EA		4" Caliper, Tree Pruning (Crown Raising), By Hand.....	83.40	
32 01 90 23-0054	EA		4" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	143.49	
32 01 90 23-0055	EA		6" Caliper, Tree Pruning (Crown Raising), By Hand.....	145.91	
32 01 90 23-0056	EA		6" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	273.22	
32 01 90 23-0057	EA		9" Caliper, Tree Pruning (Crown Raising), By Hand.....	233.70	
32 01 90 23-0058	EA		9" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	437.05	
32 01 90 23-0059	EA		12" Caliper, Tree Pruning (Crown Raising), By Hand.....	270.04	
32 01 90 23-0060	EA		12" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	505.46	
32 01 90 23-0061	EA		18" Caliper, Tree Pruning (Crown Raising), By Hand.....	313.94	
32 01 90 23-0062	EA		18" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	587.42	
32 01 90 23-0063	EA		24" Caliper, Tree Pruning (Crown Raising), By Hand.....	382.13	
32 01 90 23-0064	EA		24" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	710.47	
32 01 90 23-0065	EA		30" Caliper, Tree Pruning (Crown Raising), By Hand.....	474.63	
32 01 90 23-0066	EA		30" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	895.36	
32 01 90 23-0067	EA		36" Caliper, Tree Pruning (Crown Raising), By Hand.....	650.14	
32 01 90 23-0068	EA		36" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	1,213.51	
32 01 90 23-0069	EA		48" Caliper, Tree Pruning (Crown Raising), By Hand.....	1,031.37	
32 01 90 23-0070	EA		48" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	1,951.60	

32 01 90 23-0071 Tree Pruning; Crown Reduction (32 01 90 23-0001)

Note: Crown reduction is used to reduce the height and/or spread of a tree. Thinning cuts are most effective in maintaining the structural integrity and natural form of a tree and in delaying the time when it will need to be pruned again. The lateral to which a branch or trunk is cut should be at least one-half the diameter of the cut being made.

32 01 90 23-0072	EA		1-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand.....	41.30	
32 01 90 23-0073	EA		2" Caliper, Tree Pruning (Crown Reduction), By Hand.....	47.15	
32 01 90 23-0074	EA		2-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand.....	53.08	
32 01 90 23-0075	EA		3" Caliper, Tree Pruning (Crown Reduction), By Hand.....	58.93	
32 01 90 23-0076	EA		4" Caliper, Tree Pruning (Crown Reduction), By Hand.....	89.57	
32 01 90 23-0077	EA		4" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	154.12	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 23-0078	EA		6" Caliper, Tree Pruning (Crown Reduction), By Hand.....	156.73	
32 01 90 23-0079	EA		6" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	293.46	
32 01 90 23-0080	EA		9" Caliper, Tree Pruning (Crown Reduction), By Hand.....	251.01	
32 01 90 23-0081	EA		9" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	469.44	
32 01 90 23-0082	EA		12" Caliper, Tree Pruning (Crown Reduction), By Hand.....	290.03	
32 01 90 23-0083	EA		12" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	542.90	
32 01 90 23-0084	EA		18" Caliper, Tree Pruning (Crown Reduction), By Hand.....	337.18	
32 01 90 23-0085	EA		18" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	630.94	
32 01 90 23-0086	EA		24" Caliper, Tree Pruning (Crown Reduction), By Hand.....	410.42	
32 01 90 23-0087	EA		24" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	763.09	
32 01 90 23-0088	EA		30" Caliper, Tree Pruning (Crown Reduction), By Hand.....	509.84	
32 01 90 23-0089	EA		30" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	961.74	
32 01 90 23-0090	EA		36" Caliper, Tree Pruning (Crown Reduction), By Hand.....	698.25	
32 01 90 23-0091	EA		36" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	1,303.46	
32 01 90 23-0092	EA		48" Caliper, Tree Pruning (Crown Reduction), By Hand.....	1,107.78	
32 01 90 23-0093	EA		48" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	2,096.10	
32 01 90 23-0094			Tree Pruning; Crown Restoration <small>(32 01 90 23-0001)</small>		
<p>Note: Crown restoration can improve the structure and appearance of trees that have been topped or severely pruned using heading cuts. One to three sprouts on main branch stubs should be selected to reform a more natural appearing crown. Selected vigorous sprouts may need to be thinned to a lateral, or even headed, to control length growth in order to ensure adequate attachment for the size of the sprout. Restoration may require several pruning's over a number of years.</p>					
32 01 90 23-0095	EA		1-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand.....	47.39	
32 01 90 23-0096	EA		2" Caliper, Tree Pruning (Crown Restoration), By Hand.....	54.22	
32 01 90 23-0097	EA		2-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand.....	60.96	
32 01 90 23-0098	EA		3" Caliper, Tree Pruning (Crown Restoration), By Hand.....	67.71	
32 01 90 23-0099	EA		4" Caliper, Tree Pruning (Crown Restoration), By Hand.....	102.91	
32 01 90 23-0100	EA		4" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	177.09	
32 01 90 23-0101	EA		6" Caliper, Tree Pruning (Crown Restoration), By Hand.....	180.14	
32 01 90 23-0102	EA		6" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	337.27	
32 01 90 23-0103	EA		9" Caliper, Tree Pruning (Crown Restoration), By Hand.....	288.49	
32 01 90 23-0104	EA		9" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	539.56	
32 01 90 23-0105	EA		12" Caliper, Tree Pruning (Crown Restoration), By Hand.....	333.35	
32 01 90 23-0106	EA		12" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	623.95	
32 01 90 23-0107	EA		18" Caliper, Tree Pruning (Crown Restoration), By Hand.....	387.50	
32 01 90 23-0108	EA		18" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	725.15	
32 01 90 23-0109	EA		24" Caliper, Tree Pruning (Crown Restoration), By Hand.....	471.71	
32 01 90 23-0110	EA		24" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	877.14	
32 01 90 23-0111	EA		30" Caliper, Tree Pruning (Crown Restoration), By Hand.....	586.00	
32 01 90 23-0112	EA		30" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	1,105.43	
32 01 90 23-0113	EA		36" Caliper, Tree Pruning (Crown Restoration), By Hand.....	802.63	
32 01 90 23-0114	EA		36" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	1,498.25	
32 01 90 23-0115	EA		48" Caliper, Tree Pruning (Crown Restoration), By Hand.....	1,273.28	
32 01 90 23-0116	EA		48" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	2,409.39	
32 01 90 23-0117			Palm Tree Pruning <small>(32 01 90 23)</small>		
32 01 90 23-0118	EA		Trim Mexican Palm Tree.....	86.18	
32 01 90 23-0119	EA		Trim Date Palm Tree.....	194.46	
32 01 90 23-0120	LF		Skin Palm Tree.....	22.10	
32 01 90 23-0121	EA		Trim And Skin Palm Tree, Up To 30' Height.....	86.02	
32 01 90 23-0122	EA		Trim And Skin Palm Tree, >30' To 60' Height.....	106.25	
32 01 90 23-0123	EA		Trim And Skin Palm Tree, >60' To 80' Height.....	118.90	
32 01 90 23-0124			Shrub Pruning <small>(32 01 90 23)</small>		
32 01 90 23-0125	MSF		Shrub Pruning, Prune, Shrub Bed.....	92.63	
32 01 90 23-0126	EA		Shrub Pruning, Prune, Shrub Under 3' Height.....	3.25	
32 01 90 23-0127	EA		Shrub Pruning, Prune, Shrub 4' Height.....	7.31	
32 01 90 23-0128	EA		Shrub Pruning, Prune, Shrub Over 6'.....	13.00	
32 01 90 23-0129	EA		Shrub Pruning, Prune Trees From Ground.....	32.51	
32 01 90 23-0130	EA		Shrub Pruning, Prune Trees From Ground, High Work.....	81.28	
32 01 90 23-0131			Root Pruning <small>(32 01 90 23)</small>		
<p>Note: Cut roots cleanly after excavation with clean, sharp tools, to promote callus formation and wound closure. Wounds to be dressed with a tree rooting hormone compound. Mix soil improvements (e.g., peat moss) with fill soil to promote new root growth. Backfill the excavation and water the soil around the roots to avoid leaving air pockets.</p>					
32 01 90 23-0132	EA		Root Pruning, One Side Of Up To 1-1/2" Caliper Tree.....	16.26	
32 01 90 23-0133	EA		Root Pruning, One Side Of 2" Caliper Tree.....	20.32	
32 01 90 23-0134	EA		Root Pruning, One Side Of 2-1/2" Caliper Tree.....	24.39	
32 01 90 23-0135	EA		Root Pruning, One Side Of 3" Caliper Tree.....	32.51	
32 01 90 23-0136	EA		Root Pruning, One Side Of 4" Caliper Tree.....	48.77	
32 01 90 23-0137	EA		Root Pruning, One Side Of >4" To 6" Caliper Tree.....	60.96	
32 01 90 23-0138	EA		Root Pruning, One Side Of >6" To 9" Caliper Tree.....	85.35	
32 01 90 23-0139	EA		Root Pruning, One Side Of >9" To 12" Caliper Tree.....	97.54	
32 01 90 23-0140	EA		Root Pruning, One Side Of >12" To 18" Caliper Tree.....	113.81	
32 01 90 23-0141	EA		Root Pruning, One Side Of >18" To 24" Caliper Tree.....	142.25	

32 Exterior Improvements
32 01 Operation and Maintenance of Exterior Improvements
32 01 90 Operation and Maintenance of Planting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 01 90 23-0142	EA		Root Pruning, One Side Of >24" To 30" Caliper Tree.....	174.77	
32 01 90 23-0143	EA		Root Pruning, One Side Of >30" To 36" Caliper Tree.....	203.22	
32 01 90 23-0144	EA		Root Pruning, One Side Of >36" To 42" Caliper Tree.....	223.54	
32 01 90 23-0145	EA		Root Pruning, One Side Of >42" To 48" Caliper Tree.....	243.86	

32 01 90 26 Watering (32 01 90)

Note: Includes delivered water. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant.

32 01 90 26-0001 Watering Lawns, Plants And Trees (32 01 90 26)

Note: Includes delivered water and watering truck. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant. These tasks are to be used as requested by the owner for extended watering period for lawns, plants and trees.

32 01 90 26-0002	MSF		Watering Sod/Grass, Per Inch Of Water.....	46.43	
32 01 90 26-0003	CSF		Watering Groundcover.....	7.18	
32 01 90 26-0004	CSF		Watering Annuals And Perennials.....	12.73	
32 01 90 26-0005	EA		Watering Trees, 1-1/2" To 5" Diameter By Hand.....	24.62	
32 01 90 26-0006	EA		Watering Trees, 6" To 12" Diameter By Hand.....	32.36	
32 01 90 26-0007	EA		Watering Trees, 13" To 18" Diameter By Hand.....	40.11	
32 01 90 26-0008	EA		Watering Trees, >18" Diameter By Hand.....	49.37	
32 01 90 26-0009	EA		Watering Shrub Or Bush By Hand.....	12.38	

32 01 90 36 Weed and Brush Control (32 01 90)

32 01 90 36-0001 Herbicide, Push Or Hand Spreader Applied (32 01 90 36)

32 01 90 36-0002	MSF		Non-Selective Post Emergent Weed Herbicide (70.4 oz/acre or 1.62 oz/MSF).....	7.55	
			<i>For >45 To 90, Deduct</i>	-0.42	
			<i>For >90 To 225, Deduct</i>	-1.17	
			<i>For >225 To 870, Deduct</i>	-1.93	
			<i>For >870, Deduct</i>	-2.34	
32 01 90 36-0003	MSF		Non-Selective Post Emergent Woody Brush And Tree Herbicide (128 oz/acre or 2.94 oz/MSF).....	8.16	
			<i>For >45 To 90, Deduct</i>	-0.48	
			<i>For >90 To 225, Deduct</i>	-1.29	
			<i>For >225 To 870, Deduct</i>	-2.11	
			<i>For >870, Deduct</i>	-2.58	
32 01 90 36-0004	MSF		Selective Weed Herbicide (56 oz/Acre or 1.28 oz/MSF).....	8.13	
			Note: Includes pre and post emergent.		
			<i>For >45 To 90, Deduct</i>	-0.47	
			<i>For >90 To 225, Deduct</i>	-1.29	
			<i>For >225 To 870, Deduct</i>	-2.10	
			<i>For >870, Deduct</i>	-2.57	
32 01 90 36-0005	MSF		Selective Woody Brush And Tree Herbicide (72 oz/acre or 1.65 oz/MSF).....	8.51	
			Note: Includes pre and post emergents.		
			<i>For >45 To 90, Deduct</i>	-0.51	
			<i>For >90 To 225, Deduct</i>	-1.36	
			<i>For >225 To 870, Deduct</i>	-2.21	
			<i>For >870, Deduct</i>	-2.72	

32 01 90 39 Pesticides (32 01 90)

32 01 90 39-0001	MSF		Pesticide - Surface Eating.....	10.40	
32 01 90 39-0002	MSF		Pesticide - Subsurface Eating.....	10.44	
32 01 90 39-0003	MSF		Pesticide - Fungicide Application.....	11.31	

32 01 90 43 Weed and Cultivate Beds (32 01 90)

32 01 90 43-0001	MSF		Weed Mulched Bed.....	39.67	
32 01 90 43-0002	MSF		Weed Unmulched Bed.....	113.33	
32 01 90 43-0003	MSF		Cultivate Bed.....	61.02	

32 01 90 46 Hedge Trimming (32 01 90)

32 01 90 46-0001	LF		Trim 0-5' High Hedge, 0-3' Wide.....	5.26	
32 01 90 46-0002	LF		Trim 0-5' High Hedge, 4-6' Wide.....	7.89	
32 01 90 46-0003	LF		Trim 5-10' High Hedge, 0-3' Wide.....	11.95	
32 01 90 46-0004	LF		Trim 5-10' High Hedge, 4-6' Wide.....	12.16	

32 01 90 53 Plant Growth Regulator Application (32 01 90)

32 01 90 53-0001	EA		Plant Growth Regulator Application.....	5.92	
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32 10 Bases, Ballasts, and Paving (32)

32 11 Base Courses (32 10)

32 11 16 Subbase Courses (32 11)

32 11 16 16 Aggregate Subbase Courses (32 11 16)



Exterior Improvements	32	32
Bases, Ballasts, and Paving	32 10	
Base Courses	32 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 11 16 16-0001 Base And Subbase Courses For Roadways And Parking Areas <small>(32 11 16 16)</small>		
<small>Note: Includes 3/4" To 1-1/2" aggregate material, hauling up to 15 miles, dumping, spreading, grading, compacting and watering. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.</small>		
32 11 16 16-0002 Base And Subbase Courses By The CY <small>(32 11 16 16-0001)</small>		
32 11 16 16-0003 CY Class II Graded Crushed Aggregate Roadway Base Course	88.86	
32 11 16 16-0004 CY Class III Graded Crushed Aggregate Roadway Base Course	86.04	
32 11 16 16-0005 CY Recycled Base Course	108.52	
32 11 16 16-0006 Class II Base Courses By The SY <small>(32 11 16 16-0001)</small>		
32 11 16 16-0007 SY 2" Class II Graded Crushed Aggregate Base Course.....	4.88	
<i>For Up To 500, Add</i>	1.29	
<i>For >500 To 1,000, Add</i>	0.49	
<i>For >5,000 To 10,000, Deduct</i>	-0.19	
<i>For >10,000, Deduct</i>	-0.32	
32 11 16 16-0008 SY 4" Class II Crushed Aggregate Base Course.....	9.78	
<i>For Up To 500, Add</i>	2.59	
<i>For >500 To 1,000, Add</i>	0.98	
<i>For >5,000 To 10,000, Deduct</i>	-0.37	
<i>For >10,000, Deduct</i>	-0.64	
32 11 16 16-0009 SY 6" Class II Crushed Aggregate Base Course.....	14.66	
<i>For Up To 500, Add</i>	3.88	
<i>For >500 To 1,000, Add</i>	1.47	
<i>For >5,000 To 10,000, Deduct</i>	-0.56	
<i>For >10,000, Deduct</i>	-0.95	
32 11 16 16-0010 SY 9" Class II Crushed Aggregate Base Course.....	21.99	
<i>For Up To 500, Add</i>	5.82	
<i>For >500 To 1,000, Add</i>	2.20	
<i>For >5,000 To 10,000, Deduct</i>	-0.84	
<i>For >10,000, Deduct</i>	-1.43	
32 11 16 16-0011 SY 12" Class II Crushed Aggregate Base Course.....	39.33	
<i>For Up To 500, Add</i>	7.76	
<i>For >500 To 1,000, Add</i>	2.93	
<i>For >5,000 To 10,000, Deduct</i>	-1.11	
<i>For >10,000, Deduct</i>	-1.91	
32 11 23 Aggregate Base Courses <small>(32 11)</small>		
32 11 23 16 Aggregate Base Courses <small>(32 11 23)</small>		
32 11 23 16-0001 Base Courses For Sidewalk (Asphalt Or Concrete) <small>(32 11 23 16)</small>		
<small>Note: Includes material, hauling up to 15 miles, placement, spreading, grading, and compaction. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.</small>		
32 11 23 16-0002 SF 2" Crushed Aggregate Base Course For Sidewalks	0.59	
<i>For Up To 1,000, Add</i>	0.16	
<i>For >1,000 To 2,500, Add</i>	0.06	
32 11 23 16-0003 SF 3" Crushed Aggregate Base Course For Sidewalks	0.84	
<i>For Up To 1,000, Add</i>	0.24	
<i>For >1,000 To 2,500, Add</i>	0.08	
32 11 23 16-0004 SF 4" Crushed Aggregate Base Course For Sidewalks	1.11	
<i>For Up To 1,000, Add</i>	0.31	
<i>For >1,000 To 2,500, Add</i>	0.11	
32 11 23 16-0005 SF 5" Crushed Aggregate Base Course For Sidewalks	1.42	
<i>For Up To 1,000, Add</i>	0.40	
<i>For >1,000 To 2,500, Add</i>	0.14	
32 11 23 16-0006 SF 6" Crushed Aggregate Base Course For Sidewalks	1.73	
<i>For Up To 1,000, Add</i>	0.49	
<i>For >1,000 To 2,500, Add</i>	0.17	
32 11 23 16-0007 SF 7" Crushed Aggregate Base Course For Sidewalks	2.00	
<i>For Up To 1,000, Add</i>	0.56	
<i>For >1,000 To 2,500, Add</i>	0.20	
32 11 23 16-0008 SF 8" Crushed Aggregate Base Course For Sidewalks	2.27	
<i>For Up To 1,000, Add</i>	0.64	
<i>For >1,000 To 2,500, Add</i>	0.23	
32 11 26 Asphaltic Base Courses <small>(32 11)</small>		
32 11 26 19 Bituminous-Stabilized Base Courses <small>(32 11 26)</small>		
32 11 26 19-0001 Bituminous-Stabilized Base Courses <small>(32 11 26 19)</small>		
32 11 26 19-0002 CY Bituminous Stabilized Base Course.....	110.80	
<small>Note: 3/4" ASTM C33.</small>		
32 12 Flexible Paving <small>(32 10)</small>		
32 12 13 Preparatory Coats <small>(32 12)</small>		
32 12 13 13 Tack Coats <small>(32 12 13)</small>		
32 12 13 13-0001 TON Tack Coat (Monterey County).....	1,428.73	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**32 12 13 19 Prime Coats** (32 12 13)

32 12 13 19-0001	SY	Surface Prime Coat, 0.26 Gallon/SY.....	1.58
		<i>For Up To 150, Add</i>	0.35
		<i>For >150 To 300, Add</i>	0.16
		<i>For >300 To 500, Add</i>	0.08
		<i>For >3,500 To 5,000, Deduct</i>	-0.04
		<i>For >5,000, Deduct</i>	-0.11
32 12 13 19-0002	SY	Surface Prime Coat, 0.28 Gallon/SY.....	1.66
		<i>For Up To 150, Add</i>	0.37
		<i>For >150 To 300, Add</i>	0.17
		<i>For >300 To 500, Add</i>	0.08
		<i>For >3,500 To 5,000, Deduct</i>	-0.04
		<i>For >5,000, Deduct</i>	-0.11
32 12 13 19-0003	SY	Surface Prime Coat, 0.30 Gallon/SY.....	1.75
		<i>For Up To 150, Add</i>	0.39
		<i>For >150 To 300, Add</i>	0.18
		<i>For >300 To 500, Add</i>	0.09
		<i>For >3,500 To 5,000, Deduct</i>	-0.04
		<i>For >5,000, Deduct</i>	-0.12

32 12 16 Asphalt Paving (32 12)**32 12 16 13 Plant-Mix Asphalt Paving** (32 12 16)

Note: Includes delivery up to 15 miles, placement, rolling, finishing and sweeping. Excludes base, tack or price coat, seal coats and roadway fabrics (where required). See CSI section 01 74 19 00-0050 for hauling greater than 15 miles, 32 11 00 00-0000 for base courses, 32 12 13 13-0000 for tack coats, 32 12 13 19-0000 for prime coats, 32 12 16 39-0000 for roadway fabrics, 32 12 36 00-0000 for seal coats.

32 12 16 13-0001 Intermediate Binder Courses, Hot Mix Asphalt (HMA) (32 12 16 13)

Note: Meets Caltrans requirements.

32 12 16 13-0002	TON	Bituminous Hot Mix Intermediate Course 3,954 LB/CY	150.45
		Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.	
		<i>For PG64-10 Asphalt, Add</i>	17.94
		<i>For Up To 25, Add</i>	20.60
		<i>For >25 To 50, Add</i>	11.38
		<i>For >500 To 1,000, Deduct</i>	-6.40
		<i>For >1,000 To 2,500, Deduct</i>	-11.61
		<i>For >2,500 To 5,000, Deduct</i>	-18.02
		<i>For >5,000, Deduct</i>	-25.83
32 12 16 13-0003	SY	1" Thick Bituminous Hot Mix Binder Course	8.52
		Note: Includes placement, rolling, finishing and sweeping.	
		<i>For PG64-10 Asphalt, Add</i>	0.99
		<i>For Up To 1,000, Add</i>	1.20
		<i>For >1,000 To 2,000, Add</i>	0.67
		<i>For >10,000 To 20,000, Deduct</i>	-0.37
		<i>For >20,000 To 50,000, Deduct</i>	-0.67
		<i>For >50,000 To 100,000, Deduct</i>	-1.04
		<i>For >100,000, Deduct</i>	-1.49
32 12 16 13-0004	SY	1-1/2" Thick Bituminous Hot Mix Binder Course	12.65
		Note: Includes placement, rolling, finishing and sweeping.	
		<i>For PG64-10 Asphalt, Add</i>	1.48
		<i>For Up To 700, Add</i>	1.77
		<i>For >700 To 1,400, Add</i>	0.98
		<i>For >7,000 To 14,000, Deduct</i>	-0.55
		<i>For >14,000 To 32,000, Deduct</i>	-1.00
		<i>For >32,000 To 64,000, Deduct</i>	-1.55
		<i>For >64,000, Deduct</i>	-2.22
32 12 16 13-0005	SY	2" Thick Bituminous Hot Mix Binder Course	16.35
		Note: Includes placement, rolling, finishing and sweeping.	
		<i>For PG64-10 Asphalt, Add</i>	1.97
		<i>For Up To 500, Add</i>	2.21
		<i>For >500 To 1,000, Add</i>	1.22
		<i>For >5,000 To 10,000, Deduct</i>	-0.72
		<i>For >10,000 To 24,000, Deduct</i>	-1.31
		<i>For >24,000 To 48,000, Deduct</i>	-2.03
		<i>For >48,000, Deduct</i>	-2.92
32 12 16 13-0006	SY	2-1/2" Thick Bituminous Hot Mix Binder Course	20.66
		Note: Includes placement, rolling, finishing and sweeping.	
		<i>For PG64-10 Asphalt, Add</i>	2.46
		<i>For Up To 400, Add</i>	2.83
		<i>For >400 To 800, Add</i>	1.56
		<i>For >4,000 To 8,000, Deduct</i>	-0.91
		<i>For >8,000 To 20,000, Deduct</i>	-1.65
		<i>For >20,000 To 40,000, Deduct</i>	-2.55
		<i>For >40,000, Deduct</i>	-3.67
32 12 16 13-0007	SY	3" Thick Bituminous Hot Mix Binder Course	24.78
		Note: Includes placement, rolling, finishing and sweeping.	
		<i>For PG64-10 Asphalt, Add</i>	2.96
		<i>For Up To 340, Add</i>	3.39
		<i>For >340 To 680, Add</i>	2.86
		<i>For >3,400 To 6,800, Deduct</i>	-1.09
		<i>For >6,800 To 17,000, Deduct</i>	-1.98
		<i>For >17,000 To 34,000, Deduct</i>	-3.06
		<i>For >34,000, Deduct</i>	-4.40



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0008 SY 3-1/2" Thick Bituminous Hot Mix Binder Course	28.91	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	3.45	
For Up To 280, Add	3.96	
For >280 To 560, Add	2.19	
For >2,800 To 5,600, Deduct	-1.27	
For >5,600 To 14,000, Deduct	-2.31	
For >14,000 To 28,000, Deduct	-3.57	
For >28,000, Deduct	-5.13	
32 12 16 13-0009 SY 4" Thick Bituminous Hot Mix Binder Course	33.04	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	3.94	
For Up To 250, Add	4.52	
For >250 To 500, Add	2.50	
For >2,500 To 5,000, Deduct	-1.45	
For >5,000 To 12,000, Deduct	-2.63	
For >12,000 To 24,000, Deduct	-4.08	
For >24,000, Deduct	-5.86	
32 12 16 13-0010 SY 5" Thick Bituminous Hot Mix Binder Course	41.30	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	4.92	
For Up To 200, Add	5.65	
For >200 To 400, Add	3.12	
For >2,000 To 4,000, Deduct	-1.81	
For >4,000 To 10,000, Deduct	-3.29	
For >10,000 To 20,000, Deduct	-5.10	
For >20,000, Deduct	-7.33	
32 12 16 13-0011 SY 6" Thick Bituminous Hot Mix Binder Course	49.57	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	5.91	
For Up To 160, Add	6.79	
For >160 To 320, Add	3.75	
For >1,600 To 3,200, Deduct	-2.17	
For >3,200 To 6,000, Deduct	-3.95	
For >8,000 To 16,000, Deduct	-6.13	
For >16,000, Deduct	-8.80	
32 12 16 13-0012 Surface Courses, Hot Mix Asphalt (HMA) <small>(32 12 16 13)</small>		
Note: Meets Caltrans requirements.		
32 12 16 13-0013 TON Bituminous Hot Mix Surface Course 3954 LB/CY	152.70	
Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.		
For PG64-10 Asphalt, Add	2.85	
For Up To 25, Add	22.21	
For >25 To 50, Add	12.46	
For >500 To 1,000, Deduct	-6.24	
For >1,000 To 2,500, Deduct	-11.33	
For >2,500 To 5,000, Deduct	-17.57	
For >5,000, Deduct	-25.22	
32 12 16 13-0014 TON Tire Rubber Modified Paving Asphalt (TRMAC) Surface Course (MAC-15TR)	169.40	
Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping.		
For Up To 25, Add	25.04	
For >25 To 50, Add	14.10	
For >500 To 1,000, Deduct	-6.84	
For Warm Mix Additive, Add	8.09	
32 12 16 13-0015 TON Asphalt Rubberized Hot Mix (ARHM) Surface Course	180.81	
Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping.		
For Up To 25, Add	26.18	
For >25 To 50, Add	14.67	
For >500 To 1,000, Deduct	-7.41	
For >1,000 To 2,500, Deduct	-13.46	
For >2,500 To 5,000, Deduct	-20.87	
For >5,000, Deduct	-29.95	
For Warm Mix Additive, Add	8.83	
32 12 16 13-0016 SY 1" Thick Bituminous Hot Mix Surface Course	8.30	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	0.15	
For Up To 1,000, Add	1.25	
For >1,000 To 2,000, Add	0.71	
For >10,000 To 20,000, Deduct	-0.35	
For >20,000 To 50,000, Deduct	-0.63	
For >50,000 To 100,000, Deduct	-0.98	
For >100,000, Deduct	-1.40	
32 12 16 13-0017 SY 1-1/2" Thick Bituminous Hot Mix Surface Course	12.31	
Note: Includes placement, rolling, finishing and sweeping.		
For PG64-10 Asphalt, Add	0.22	
For Up To 700, Add	1.83	
For >700 To 1,400, Add	1.03	
For >7,000 To 14,000, Deduct	-0.52	
For >14,000 To 32,000, Deduct	-0.94	
For >32,000 To 64,000, Deduct	-1.46	
For >64,000, Deduct	-2.09	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0018	SY		2" Thick Bituminous Hot Mix Surface Course Note: Includes placement, rolling, finishing and sweeping.	15.81	
			For PG64-10 Asphalt, Add	0.30	
			For Up To 500, Add	2.27	
			For >500 To 1,000, Add	1.27	
			For >5,000 To 10,000, Deduct	-0.68	
			For >10,000 To 24,000, Deduct	-1.23	
			For >24,000 To 48,000, Deduct	-1.91	
			For >48,000, Deduct	-2.74	
32 12 16 13-0019	SY		2-1/2" Thick Bituminous Hot Mix Surface Course Note: Includes placement, rolling, finishing and sweeping.	20.01	
			For PG64-10 Asphalt, Add	0.37	
			For Up To 400, Add	2.91	
			For >400 To 800, Add	1.63	
			For >4,000 To 8,000, Deduct	-0.85	
			For >8,000 To 20,000, Deduct	-1.55	
			For >20,000 To 40,000, Deduct	-2.40	
			For >40,000, Deduct	-3.45	
32 12 16 13-0020	SY		3" Thick Bituminous Hot Mix Surface Course Note: Includes placement, rolling, finishing and sweeping.	24.01	
			For PG64-10 Asphalt, Add	0.45	
			For Up To 340, Add	3.49	
			For >340 To 680, Add	2.86	
			For >3,400 To 6,800, Deduct	-1.02	
			For >6,800 To 17,000, Deduct	-1.86	
			For >17,000 To 34,000, Deduct	-2.88	
			For >34,000, Deduct	-4.14	
32 12 16 13-0021	CSF		Type F Asphalt Surface Cap 1/8" To 1/4" Thick For Use Only On Top Concrete Filled Trench.....	88.92	
32 12 16 13-0022			Hand Placed, Hot Mix Asphalt (HMA) (32 12 16 13)		
32 12 16 13-0023	TON		Hand Placed Hot Mixed Asphalt 3,954 LB/CY Note: For small areas not reachable by machine. Includes placement, rolling, finishing and sweeping.	370.44	
32 12 16 19			Cold-Mix Asphalt Paving (32 12 16)		
			Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.		
32 12 16 19-0001			Cold Mix Asphalt (CMA) Pavement (32 12 16 19)		
			Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.		
32 12 16 19-0002	SY		Cold Laid Asphalt Pavement, Traveling Plant Mixed In Windrows, Compacted 4" Course.....	13.43	
32 12 16 19-0003	SY		Cold Laid Asphalt Pavement, Rotary Plant Mixed In Place, Compacted 4" Course.....	13.07	
32 12 16 19-0004	SY		Cold Laid Asphalt Pavement, Central Stationary Plant, Mixed, Compacted 4" Course	21.11	
32 12 16 39			Paving Fabrics (32 12 16)		
			See CSI section 31 32 19 16-0000 for geotextile fabric.		
32 12 16 39-0001			Geotextile Paving Fabrics (32 12 16 39)		
32 12 16 39-0002	SY		3.6 Ounce/SY, 90 LB Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-38A/O)	1.86	
			For Up To 50, Add	0.41	
			For >50 To 150, Add	0.31	
			For >150 To 250, Add	0.20	
			For >250 To 500, Add	0.10	
32 12 16 39-0003	SY		4.1 Ounce/SY, 101 LB Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-42 A/O)	2.01	
			For Up To 50, Add	0.44	
			For >50 To 150, Add	0.33	
			For >150 To 250, Add	0.21	
			For >250 To 500, Add	0.11	
32 12 16 43			Waterproofing Membranes (32 12 16)		
32 12 16 43-0001			Waterproofing Membranes (32 12 16 43)		
32 12 16 43-0002	SY		Up To 500 SY, Preformed Rubberized Asphalt Membrane	36.59	
32 12 16 43-0003	SY		>500 To 1,000 SY, Preformed Rubberized Asphalt Membrane	27.37	
32 12 16 43-0004	SY		>1,000 SY, Preformed Rubberized Asphalt Membrane	16.92	
32 12 33			Flexible Paving Surface Treatments (32 12)		
32 12 33 00-0001			Bituminous Surface Treatment For Roadways (32 12 33)		
			Note: 0.25 Gal bitumen per SY and 30 lb of gravel/SY.		
32 12 33 00-0002	SY		Single Course Bituminous Treatment, Prepare And Clean Surface Roadway	3.26	
32 12 33 00-0003	SY		Double Course Bituminous Treatment, Prepare And Clean Surface Roadway	5.88	
32 12 33 00-0004			Bituminous Surface Treatment For Trails (32 12 33)		
			Note: 0.25 Gal bitumen per SY and 20 lb of gravel/SY.		
32 12 33 00-0005	SY		Bituminous Surface Treatment, For Trails	2.19	
32 12 36			Seal Coats (32 12)		
			See CSI section 32 01 13 62-0000 for slurry seal.		



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Flexible Paving		32 12

32

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13 Asphaltic Seal and Fog Coats (32 12 36)		
32 12 36 13-0001 Asphalt Emulsion, Fog Seal (Monterey County) (32 12 36 13)		
32 12 36 13-0002 TON Asphaltic Emulsion, Fog Seal (Monterey County).....	1,341.01	
32 12 36 13-0003 Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13)		
Note: Includes initial sweeping prior to placement, cleaning of area, rolling and final sweeping. Excludes crack repair, fog sealer, and any additional consecutive days sweeping following final sweeping.		
32 12 36 13-0004 Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0003)		
Note: 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.15 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0005 SY Up To 200 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.71	
For Each Additional 0.5% Latex Additive, Add	0.45	
32 12 36 13-0006 SY >200 To 500 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.23	
For Each Additional 0.5% Latex Additive, Add	0.45	
32 12 36 13-0007 SY >500 To 1,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.01	
For Each Additional 0.5% Latex Additive, Add	0.45	
32 12 36 13-0008 SY >1,000 To 5,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.77	
For Each Additional 0.5% Latex Additive, Add	0.45	
32 12 36 13-0009 SY >5,000 To 10,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.65	
For Each Additional 0.5% Latex Additive, Add	0.45	
32 12 36 13-0010 SY >10,000 To 20,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.54	
For Each Additional 0.5% Latex Additive, Add	0.45	
32 12 36 13-0011 SY >20,000 To 50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.41	
For Each Additional 0.5% Latex Additive, Add	0.45	
32 12 36 13-0012 SY >50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.35	
For Each Additional 0.5% Latex Additive, Add	0.45	
32 12 36 13-0013 Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0003)		
Note: 16 to 25 Pounds Per SY of 5/16" No. 8 with 0.25 to 0.35 gallons asphalt emulsion per SY.		
32 12 36 13-0014 SY Up To 200 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.50	
For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0015 SY >200 To 500 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.96	
For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0016 SY >500 To 1,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.69	
For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0017 SY >1,000 To 5,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.56	
For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0018 SY >5,000 To 10,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.24	
For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0019 SY >10,000 To 20,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.05	
For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0020 SY >20,000 To 50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.90	
For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0021 SY >50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.82	
For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0022 Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0003)		
Note: 20 to 30 Pounds Per SY of 3/8" No. 6 with 0.25 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0023 SY Up To 200 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	6.17	
For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0024 SY >200 To 500 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.57	
For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0025 SY >500 To 1,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.26	
For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0026 SY >1,000 To 5,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.90	
For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0027 SY >5,000 To 10,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.71	
For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0028 SY >10,000 To 20,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.44	
For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0029 SY >20,000 To 50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.26	
For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0030 SY >50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.18	
For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0031 Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0003)		
Note: 23 to 35 Pounds Per SY of 1/2" No. 4 with 0.30 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0032 SY Up To 200 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	6.26	
For Each Additional 0.5% Latex Additive, Add	0.77	
32 12 36 13-0033 SY >200 To 500 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.65	
For Each Additional 0.5% Latex Additive, Add	0.77	
32 12 36 13-0034 SY >500 To 1,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.34	
For Each Additional 0.5% Latex Additive, Add	0.77	
32 12 36 13-0035 SY >1,000 To 5,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.99	
For Each Additional 0.5% Latex Additive, Add	0.77	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0036	SY		>5,000 To 10,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.79	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.77	
32 12 36 13-0037	SY		>10,000 To 20,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.62	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.77	
32 12 36 13-0038	SY		>20,000 To 50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.35	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.77	
32 12 36 13-0039	SY		>50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	4.26	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.77	
32 12 36 13-0040			Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) ⁽³²		
			^{12 36 13-0003)} Note: First coat 23 to 30 Pounds Per SY of 1/2" No. 4 with 0.20 to 0.35 gallons asphalt emulsion per SY, Second coat 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.20 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0041	SY		Up To 200 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	9.40	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	1.11	
32 12 36 13-0042	SY		>200 To 500 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	8.59	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	1.11	
32 12 36 13-0043	SY		>500 To 1,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	8.14	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	1.11	
32 12 36 13-0044	SY		>1,000 To 5,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	7.61	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	1.11	
32 12 36 13-0045	SY		>5,000 To 10,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	7.32	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	1.11	
32 12 36 13-0046	SY		>10,000 To 20,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.99	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	1.11	
32 12 36 13-0047	SY		>20,000 To 50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.71	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	1.11	
32 12 36 13-0048	SY		>50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.59	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	1.11	
32 12 36 13-0049			Asphalt Emulsion Seal Coat (Scrub Seal) ^(32 12 36 13)		
			Note: Includes initial sweeping prior to placement, cleaning of area, towed broom sled of scrub brush and final sweeping. Excludes crack repair, fog sealer, and any additional consecutive days sweeping following final sweeping.		
32 12 36 13-0050			Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal) ^{(32 12}		
			^{36 13-0049)} Note: 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.15 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0051	SY		Up To 200 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.29	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.45	
32 12 36 13-0052	SY		>200 To 500 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.01	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.45	
32 12 36 13-0053	SY		>500 To 1,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	3.80	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.45	
32 12 36 13-0054	SY		>1,000 To 5,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	3.58	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.45	
32 12 36 13-0055	SY		>5,000 To 10,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	3.48	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.45	
32 12 36 13-0056	SY		>10,000 To 20,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	3.37	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.45	
32 12 36 13-0057	SY		>20,000 To 50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	3.26	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.45	
32 12 36 13-0058	SY		>50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	3.22	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.45	
32 12 36 13-0059			Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub		
			Seal) ^(32 12 36 13-0049) Note: 16 to 25 Pounds Per SY of 5/16" No. 8 with 0.25 to 0.35 gallons asphalt emulsion per SY.		
32 12 36 13-0060	SY		Up To 200 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.10	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.56	
32 12 36 13-0061	SY		>200 To 500 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.76	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.56	
32 12 36 13-0062	SY		>500 To 1,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.54	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.56	
32 12 36 13-0063	SY		>1,000 To 5,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.39	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.56	
32 12 36 13-0064	SY		>5,000 To 10,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.08	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.56	
32 12 36 13-0065	SY		>10,000 To 20,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	3.90	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.56	
32 12 36 13-0066	SY		>20,000 To 50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	3.76	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.56	
32 12 36 13-0067	SY		>50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	3.70	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.56	
32 12 36 13-0068			Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub		
			Seal) ^(32 12 36 13-0049) Note: 20 to 30 Pounds Per SY of 3/8" No. 6 with 0.25 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0069	SY		Up To 200 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.83	
			<i>For Each Additional 0.5% Latex Additive, Add</i>	0.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0070 SY >200 To 500 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.40	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.67	
32 12 36 13-0071 SY >500 To 1,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.10	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.67	
32 12 36 13-0072 SY >1,000 To 5,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.75	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.67	
32 12 36 13-0073 SY >5,000 To 10,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.56	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.67	
32 12 36 13-0074 SY >10,000 To 20,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.29	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.67	
32 12 36 13-0075 SY >20,000 To 50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.13	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.67	
32 12 36 13-0076 SY >50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.05	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.67	
32 12 36 13-0077 Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)		
<small>(32 12 36 13-0049)</small>		
Note: 23 to 35 Pounds Per SY of 1/2" No. 4 with 0.30 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0078 SY Up To 200 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.92	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.77	
32 12 36 13-0079 SY >200 To 500 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.50	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.77	
32 12 36 13-0080 SY >500 To 1,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.17	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.77	
32 12 36 13-0081 SY >1,000 To 5,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.81	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.77	
32 12 36 13-0082 SY >5,000 To 10,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.64	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.77	
32 12 36 13-0083 SY >10,000 To 20,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.47	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.77	
32 12 36 13-0084 SY >20,000 To 50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.21	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.77	
32 12 36 13-0085 SY >50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.15	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.77	
32 12 36 13-0086 Sand Sealer <small>(32 12 36 13)</small>		
Note: A sand seal is an application of asphalt binder followed by placement of a layer of sand or fine aggregate, and then rolled to embed the sand or fine aggregate into the binder. Includes sweeping and cleaning of area.		
32 12 36 13-0087 SY Up To 200 SY, Sand Seal.....	2.81	
32 12 36 13-0088 SY >200 To 500 SY, Sand Seal.....	1.83	
32 12 36 13-0089 SY >500 To 1,000 SY, Sand Seal.....	1.82	
32 12 36 13-0090 SY >1,000 To 5,000 SY, Sand Seal.....	1.60	
32 12 36 13-0091 SY >5,000 To 10,000 SY, Sand Seal.....	1.48	
32 12 36 13-0092 SY >10,000 To 20,000 SY, Sand Seal.....	1.37	
32 12 36 13-0093 SY >20,000 To 50,000 SY, Sand Seal.....	1.30	
32 12 36 13-0094 SY >50,000 SY, Sand Seal.....	1.28	
32 12 36 16 Coal Tar Seal Coats <small>(32 12 36)</small>		
32 12 36 16-0001 Thermoplastic Coal-Tar Asphalt Seal <small>(32 12 36 16)</small>		
Note: Includes sweeping and cleaning of area.		
32 12 36 16-0002 SY Up To 500 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	13.28	
32 12 36 16-0003 SY >500 To 1,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	12.44	
32 12 36 16-0004 SY >1,000 To 5,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	10.94	
32 12 36 16-0005 SY >5,000 To 20,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	9.80	
32 12 36 16-0006 SY >20,000 To 50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	8.30	
32 12 36 16-0007 SY >50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	6.81	
32 12 36 16-0008 SY Up To 500 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	16.03	
32 12 36 16-0009 SY >500 To 1,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	15.10	
32 12 36 16-0010 SY >1,000 To 5,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	13.32	
32 12 36 16-0011 SY >5,000 To 20,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	11.98	
32 12 36 16-0012 SY >20,000 To 50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	10.20	
32 12 36 16-0013 SY >50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	8.43	
32 12 43 Porous Flexible Paving <small>(32 12)</small>		
32 12 43 00-0001 Flexible Recycled Plastic Porous Grid <small>(32 12 43)</small>		
Note: Includes sand fill in rings. Excludes base, earth work and grass or sod.		
32 12 43 00-0002 SY 1" Thick, Recycled Plastic Flexible Pavement With Sand Fill.....	36.69	
Note: Includes sand fill in rings. Excludes base, earth work and grass or sod. Invisible Structures, Inc.; Grasspave2.		
<i>For Up To 100, Add</i>	12.28	
<i>For >100 To 500, Add</i>	3.08	
<i>For >1,000 To 5,000, Deduct</i>	-1.24	
<i>For >5,000, Deduct</i>	-2.59	
32 12 73 Asphalt Paving Joint Sealants <small>(32 12)</small>		
32 12 73 00-0001 Expansion Joint In Sidewalk <small>(32 12 73)</small>		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 12 73 00-0002 LF For Hot Asphalt Poured Over Expansion Joint In Sidewalk 3.41

32 13 Rigid Paving (32 10)**32 13 13 Concrete Paving** (32 13)

Note: The following section includes spreading and placing delivered Portland cement concrete mix.

32 13 13 33 Plain Concrete Paving (32 13 13)**32 13 13 33-0001 Concrete Paving Assemblies** (32 13 13 33)

Note: Includes forms, wire mesh (where necessary), two mat layers #3-#6 reinforcing rods at 12" on center with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float and finish. Excludes excavation, base and earthwork. Includes concrete paving machine. To be used for roadways, driveways, parking areas, or other areas of vehicular traffic. See CSI section 03 05 13 00-0001 for color additive.

32 13 13 33-0002 4,500 PSI Concrete Paving Assembly (32 13 13 33-0001)

32 13 13 33-0003	SY	4" 4,500 PSI Concrete Paving Assembly	58.73
		For 2,500 PSI Concrete, Deduct	-3.59
		For 3,000 PSI Concrete, Deduct	-2.34
		For 3,500 PSI Concrete, Deduct	-1.88
		For 4,000 PSI Concrete, Deduct	-0.81
		For 5,000 PSI Concrete, Add	0.50
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	4.06
		For <12' Wide Pass, Add	9.99
		For 24' Or Greater Wide Pass, Deduct	-11.75
		For Air Entrainment, Add	1.56
		For Slipforming, Deduct	-5.87
		For Up To 100, Add	22.73
		For >100 To 250, Add	12.93
		For >250 To 500, Add	6.47
		For >1,000 To 2,000, Deduct	-1.56
		For >2,000 To 5,000, Deduct	-3.03
		For >5,000 To 10,000, Deduct	-4.50
		For >10,000 To 20,000, Deduct	-5.97
		For >20,000, Deduct	-7.44
32 13 13 33-0004	SY	5" 4,500 PSI Concrete Paving Assembly	69.76
		For 2,500 PSI Concrete, Deduct	-4.51
		For 3,000 PSI Concrete, Deduct	-2.94
		For 3,500 PSI Concrete, Deduct	-2.35
		For 4,000 PSI Concrete, Deduct	-1.02
		For 5,000 PSI Concrete, Add	0.63
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	5.10
		For <12' Wide Pass, Add	11.55
		For 24' Or Greater Wide Pass, Deduct	-13.95
		For Air Entrainment, Add	1.96
		For Slipforming, Deduct	-6.98
		For Up To 100, Add	26.16
		For >100 To 250, Add	15.04
		For >250 To 500, Add	7.52
		For >1,000 To 2,000, Deduct	-1.96
		For >2,000 To 5,000, Deduct	-3.71
		For >5,000 To 10,000, Deduct	-5.45
		For >10,000 To 20,000, Deduct	-7.19
		For >20,000, Deduct	-8.94
32 13 13 33-0005	SY	6" 4,500 PSI Concrete Paving Assembly	74.46
		For 2,500 PSI Concrete, Deduct	-4.76
		For 3,000 PSI Concrete, Deduct	-3.10
		For 3,500 PSI Concrete, Deduct	-2.48
		For 4,000 PSI Concrete, Deduct	-1.08
		For 5,000 PSI Concrete, Add	0.66
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	5.38
		For <12' Wide Pass, Add	12.41
		For 24' Or Greater Wide Pass, Deduct	-14.89
		For Air Entrainment, Add	2.07
		For Slipforming, Deduct	-7.45
		For Up To 100, Add	28.12
		For >100 To 250, Add	16.13
		For >250 To 500, Add	8.06
		For >1,000 To 2,000, Deduct	-2.07
		For >2,000 To 5,000, Deduct	-3.93
		For >5,000 To 10,000, Deduct	-5.79
		For >10,000 To 20,000, Deduct	-7.65
		For >20,000, Deduct	-9.52



		Exterior Improvements	32
		Bases, Ballasts, and Paving	32 10
		Rigid Paving	32 13

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33-0006	SY	7"	4,500 PSI Concrete Paving Assembly.....	88.83	
			<i>For 2,500 PSI Concrete, Deduct</i>	-6.00	
			<i>For 3,000 PSI Concrete, Deduct</i>	-3.92	
			<i>For 3,500 PSI Concrete, Deduct</i>	-3.13	
			<i>For 4,000 PSI Concrete, Deduct</i>	-1.36	
			<i>For 5,000 PSI Concrete, Add</i>	0.84	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	6.79	
			<i>For <12' Wide Pass, Add</i>	14.38	
			<i>For 24' Or Greater Wide Pass, Deduct</i>	-17.77	
			<i>For Air Entrainment, Add</i>	2.61	
			<i>For Slipforming, Deduct</i>	-8.88	
			<i>For Up To 100, Add</i>	32.42	
			<i>For >100 To 250, Add</i>	18.82	
			<i>For >250 To 500, Add</i>	9.41	
			<i>For >1,000 To 2,000, Deduct</i>	-2.61	
			<i>For >2,000 To 5,000, Deduct</i>	-4.83	
			<i>For >5,000 To 10,000, Deduct</i>	-7.05	
			<i>For >10,000 To 20,000, Deduct</i>	-9.27	
			<i>For >20,000, Deduct</i>	-11.49	
32 13 13 33-0007	SY	8"	4,500 PSI Concrete Paving Assembly.....	101.24	
			<i>For 2,500 PSI Concrete, Deduct</i>	-6.59	
			<i>For 3,000 PSI Concrete, Deduct</i>	-4.30	
			<i>For 3,500 PSI Concrete, Deduct</i>	-3.44	
			<i>For 4,000 PSI Concrete, Deduct</i>	-1.49	
			<i>For 5,000 PSI Concrete, Add</i>	0.92	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	7.45	
			<i>For <12' Wide Pass, Add</i>	16.72	
			<i>For 24' Or Greater Wide Pass, Deduct</i>	-20.25	
			<i>For Air Entrainment, Add</i>	2.86	
			<i>For Slipforming, Deduct</i>	-10.12	
			<i>For Up To 100, Add</i>	37.83	
			<i>For >100 To 250, Add</i>	21.78	
			<i>For >250 To 500, Add</i>	10.89	
			<i>For >1,000 To 2,000, Deduct</i>	-2.86	
			<i>For >2,000 To 5,000, Deduct</i>	-5.40	
			<i>For >5,000 To 10,000, Deduct</i>	-7.93	
			<i>For >10,000 To 20,000, Deduct</i>	-10.46	
			<i>For >20,000, Deduct</i>	-12.99	
32 13 13 33-0008	SY	9"	4,500 PSI Concrete Paving Assembly.....	114.73	
			<i>For 2,500 PSI Concrete, Deduct</i>	-7.61	
			<i>For 3,000 PSI Concrete, Deduct</i>	-4.97	
			<i>For 3,500 PSI Concrete, Deduct</i>	-3.97	
			<i>For 4,000 PSI Concrete, Deduct</i>	-1.72	
			<i>For 5,000 PSI Concrete, Add</i>	1.06	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	8.61	
			<i>For <12' Wide Pass, Add</i>	18.75	
			<i>For 24' Or Greater Wide Pass, Deduct</i>	-22.95	
			<i>For Air Entrainment, Add</i>	3.31	
			<i>For Slipforming, Deduct</i>	-11.47	
			<i>For Up To 100, Add</i>	42.36	
			<i>For >100 To 250, Add</i>	24.49	
			<i>For >250 To 500, Add</i>	12.24	
			<i>For >1,000 To 2,000, Deduct</i>	-3.31	
			<i>For >2,000 To 5,000, Deduct</i>	-6.18	
			<i>For >5,000 To 10,000, Deduct</i>	-9.05	
			<i>For >10,000 To 20,000, Deduct</i>	-11.91	
			<i>For >20,000, Deduct</i>	-14.78	
32 13 13 33-0009	SY	10"	4,500 PSI Concrete Paving Assembly.....	127.76	
			<i>For 2,500 PSI Concrete, Deduct</i>	-8.37	
			<i>For 3,000 PSI Concrete, Deduct</i>	-5.46	
			<i>For 3,500 PSI Concrete, Deduct</i>	-4.37	
			<i>For 4,000 PSI Concrete, Deduct</i>	-1.89	
			<i>For 5,000 PSI Concrete, Add</i>	1.17	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	9.47	
			<i>For <12' Wide Pass, Add</i>	21.02	
			<i>For 24' Or Greater Wide Pass, Deduct</i>	-25.55	
			<i>For Air Entrainment, Add</i>	3.64	
			<i>For Slipforming, Deduct</i>	-12.78	
			<i>For Up To 100, Add</i>	47.53	
			<i>For >100 To 250, Add</i>	27.41	
			<i>For >250 To 500, Add</i>	13.70	
			<i>For >1,000 To 2,000, Deduct</i>	-3.64	
			<i>For >2,000 To 5,000, Deduct</i>	-6.84	
			<i>For >5,000 To 10,000, Deduct</i>	-10.03	
			<i>For >10,000 To 20,000, Deduct</i>	-13.22	
			<i>For >20,000, Deduct</i>	-16.42	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 13 Rigid Paving**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 13 13 33-0010	SY	12" 4,500 PSI Concrete Paving Assembly	152.17
		<i>For 2,500 PSI Concrete, Deduct</i>	-9.92
		<i>For 3,000 PSI Concrete, Deduct</i>	-6.47
		<i>For 3,500 PSI Concrete, Deduct</i>	-5.17
		<i>For 4,000 PSI Concrete, Deduct</i>	-2.24
		<i>For 5,000 PSI Concrete, Add</i>	1.38
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	11.21
		<i>For <12' Wide Pass, Add</i>	25.11
		<i>For 24' Or Greater Wide Pass, Deduct</i>	-30.43
		<i>For Air Entrainment, Add</i>	4.31
		<i>For Slipforming, Deduct</i>	-15.22
		<i>For Up To 100, Add</i>	56.81
		<i>For >100 To 250, Add</i>	32.72
		<i>For >250 To 500, Add</i>	16.36
		<i>For >1,000 To 2,000, Deduct</i>	-4.31
		<i>For >2,000 To 5,000, Deduct</i>	-8.12
		<i>For >5,000 To 10,000, Deduct</i>	-11.92
		<i>For >10,000 To 20,000, Deduct</i>	-15.72
		<i>For >20,000, Deduct</i>	-19.53
32 13 13 33-0011	SY	15" 4,500 PSI Concrete Paving Assembly	193.39
		<i>For 2,500 PSI Concrete, Deduct</i>	-12.18
		<i>For 3,000 PSI Concrete, Deduct</i>	-7.94
		<i>For 3,500 PSI Concrete, Deduct</i>	-6.35
		<i>For 4,000 PSI Concrete, Deduct</i>	-2.75
		<i>For 5,000 PSI Concrete, Add</i>	1.69
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	13.77
		<i>For <12' Wide Pass, Add</i>	32.46
		<i>For 24' Or Greater Wide Pass, Deduct</i>	-38.68
		<i>For Air Entrainment, Add</i>	5.29
		<i>For Slipforming, Deduct</i>	-19.34
		<i>For Up To 100, Add</i>	73.68
		<i>For >100 To 250, Add</i>	42.13
		<i>For >250 To 500, Add</i>	21.07
		<i>For >1,000 To 2,000, Deduct</i>	-5.29
		<i>For >2,000 To 5,000, Deduct</i>	-10.13
		<i>For >5,000 To 10,000, Deduct</i>	-14.96
		<i>For >10,000 To 20,000, Deduct</i>	-19.80
		<i>For >20,000, Deduct</i>	-24.63

32 13 16 Decorative Concrete Paving (32 13)**32 13 16 13 Patterned Concrete Paving (32 13 16)**

See CSI section 32 17 26 00-0000 for tactile warning surfaces.

32 13 16 13-0001	SF	For Patterned (Tactile) Finish In Concrete Sidewalk.....	4.62
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32 13 43 Pervious Concrete Paving (32 13)**32 13 43 00-0001 Pervious Concrete Assembly (32 13 43)**

Note: Pervious concrete is a special concrete mix with high porosity that allows water to pass through it. For paving and sidewalks.

32 13 43 00-0002	SF	6" Thick Pervious Concrete Paving.....	16.50
		Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.	
		<i>For >5,000 To 30,000, Deduct</i>	-1.75
		<i>For >30,000 To 100,000, Deduct</i>	-3.19
		<i>For >100,000, Deduct</i>	-3.97
32 13 43 00-0003	SF	9" Thick Pervious Concrete Paving.....	21.00
		Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.	
		<i>For >5,000 To 30,000, Deduct</i>	-2.17
		<i>For >30,000 To 100,000, Deduct</i>	-3.87
		<i>For >100,000, Deduct</i>	-4.81

32 13 73 Concrete Paving Joint Sealants (32 13)**32 13 73 13 Fuel-Resistant Concrete Paving Joint Sealants (32 13 73)****32 13 73 13-0001 Concrete Pavement Joint And Crack Repair (32 13 73 13)**

Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.

32 13 73 13-0002	LF	Pavement Sealing, Roads Resealing Joints In Concrete Pavements For Roads	7.65
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32 13 73 16 Field-Molded Concrete Paving Joint Sealants (32 13 73)**32 13 73 16-0001 Preformed Elastomeric Concrete Pavement Joint And Crack Repair (32 13 73 16)**

Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.

32 13 73 16-0002	LF	Joint Sealing, Concrete Pavement Preformed Elastomeric	13.00
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32 13 73 19 Compression Concrete Paving Joint Sealants (32 13 73)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 13 73 19-0001			Silicone Joint Sealant For Concrete Pavement <small>(32 13 73 19)</small> Note: Installation includes high pressure water wash, sand blast, sweeping, cleaning area, backer rod and Dow Corning 888 silicone sealant. Demolition includes removal of existing material where saw cutting is not required. Excludes saw cutting.		
32 13 73 19-0002	LF		1/4" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	10.00	2.36
32 13 73 19-0003	LF		3/8" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	10.46	2.40
32 13 73 19-0004	LF		1/2" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	10.97	2.45
32 13 73 19-0005	LF		3/4" x 3/8" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	12.63	2.50
32 13 73 19-0006	LF		1" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	14.72	2.55
32 13 73 19-0007	LF		1-1/2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	17.49	2.61
32 13 73 19-0008	LF		2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	21.60	2.66

32 14 Unit Paving (32 10)

32 14 09 Paver Restraints (32 14)

32 14 09 00-0001			Paver Restraints <small>(32 14 09)</small> Note: Paver restraints are used along the edge of a group of pavers as a locking border. Flexible or rigid sections. Includes stakes and connecting devices. Excludes pavers, bedding, excavation, base course and compaction.		
32 14 09 00-0002	LF		Up To 2" Height, Vinyl Paver Restraint	4.65	1.01
			<i>For >1,000 To 2,000, Deduct</i>	-0.67	
			<i>For >2,000 To 4,000, Deduct</i>	-0.98	
			<i>For >4,000, Deduct</i>	-1.25	
32 14 09 00-0003	LF		Up To 2" Height, Galvanized Steel Paver Restraint	5.06	1.01
			<i>For >500 To 1,000, Deduct</i>	-0.17	
			<i>For >1,000 To 2,000, Deduct</i>	-0.35	
			<i>For >2,000, Deduct</i>	-0.52	
32 14 09 00-0004	LF		Up To 1" Height, Aluminum Paver Restraint	4.86	1.01
			<i>For >250 To 500, Deduct</i>	-0.33	
			<i>For >500 To 1,000, Deduct</i>	-0.49	
			<i>For >1,000 To 1,500, Deduct</i>	-0.82	
32 14 09 00-0005	LF		>1" To 2" Height, Aluminum Paver Restraint	5.77	1.01
			<i>For >250 To 500, Deduct</i>	-0.42	
			<i>For >500 To 1,000, Deduct</i>	-0.63	
			<i>For >1,000 To 1,500, Deduct</i>	-1.04	
32 14 09 00-0006	LF		>2" To 3" Height, Aluminum Paver Restraint	7.53	1.01
			<i>For >250 To 500, Deduct</i>	-0.59	
			<i>For >500 To 1,000, Deduct</i>	-0.89	
			<i>For >1,000 To 1,500, Deduct</i>	-1.48	
32 14 09 00-0007	LF		>3" To 4" Height, Aluminum Paver Restraint	8.87	1.01
			<i>For >250 To 500, Deduct</i>	-0.73	
			<i>For >500 To 1,000, Deduct</i>	-1.09	
			<i>For >1,000 To 1,500, Deduct</i>	-1.82	

32 14 11 Bedding for Unit Paving (32 14)

32 14 11 00-0001			Bedding For Brick, Precast Concrete Paver And Stone Sidewalk <small>(32 14 11)</small> Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.		
32 14 11 00-0002	SF		1" To 2" Sand Bedding, Screeded	1.05	
			<i>For Up To 100, Add</i>	0.46	
			<i>For >100 To 500, Add</i>	0.13	
			<i>For >1,000 To 5,000, Deduct</i>	-0.08	
			<i>For >5,000, Deduct</i>	-0.13	
32 14 11 00-0003	SF		1" To 2" Stone Dust Bedding, Screeded	1.27	
			<i>For Up To 100, Add</i>	0.52	
			<i>For >100 To 500, Add</i>	0.14	
			<i>For >1,000 To 5,000, Deduct</i>	-0.08	
			<i>For >5,000, Deduct</i>	-0.13	
32 14 11 00-0004	SF		3" Stone Dust Bedding, Screeded	1.65	
			<i>For Up To 100, Add</i>	0.65	
			<i>For >100 To 500, Add</i>	0.18	
			<i>For >1,000 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000, Deduct</i>	-0.16	
32 14 11 00-0005	SF		4" Stone Dust Bedding, Screeded	2.10	
			<i>For Up To 100, Add</i>	0.81	
			<i>For >100 To 500, Add</i>	0.22	
			<i>For >1,000 To 5,000, Deduct</i>	-0.11	
			<i>For >5,000, Deduct</i>	-0.20	
32 14 11 00-0006	SF		1" Mortar Bedding	3.24	
			<i>For Up To 100, Add</i>	1.46	
			<i>For >100 To 500, Add</i>	0.42	
			<i>For >1,000 To 5,000, Deduct</i>	-0.26	
			<i>For >5,000, Deduct</i>	-0.41	
32 14 11 00-0007	SF		2" Mortar Bedding	4.76	
			<i>For Up To 100, Add</i>	2.05	
			<i>For >100 To 500, Add</i>	0.58	
			<i>For >1,000 To 5,000, Deduct</i>	-0.35	
			<i>For >5,000, Deduct</i>	-0.56	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 14 Unit Paving**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 14 11 00-0008	SF	Thin-Set Latex Portland Cement Mortar	1.72		
		<i>For Up To 100, Add</i>	0.78		
		<i>For >100 To 500, Add</i>	0.22		
		<i>For >1,000 To 5,000, Deduct</i>	-0.14		
		<i>For >5,000, Deduct</i>	-0.22		
32 14 13 Precast Concrete Unit Paving (32 14)					
32 14 13 16 Precast Concrete Unit Paving Slabs (32 14 13)					
32 14 13 16-0001 Precast Concrete Paver Sidewalk (32 14 13 16)					
Note: Square, rectangular, or interlocking pervious pavers. Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.					
32 14 13 16-0002	SF	2-3/8" Thick, Up To 32 SI Precast Concrete Paver	11.77	3.23	
		Note: Includes 2-1/2" x 5", 4" x 4", 4" x 6", 5" x 5", 4" x 8" and other similar size pavers.			
		<i>For 2-3/4" Concrete Paver, Add</i>	1.12		
		<i>For 3-1/8" Concrete Paver, Add</i>	1.81		
		<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	0.91		
		<i>For Up To 100, Add</i>	4.56		
		<i>For >100 To 500, Add</i>	1.24		
		<i>For >1,000 To 5,000, Deduct</i>	-0.65		
		<i>For >5,000, Deduct</i>	-1.13		
32 14 13 16-0003	SF	2-3/8" Thick, >32 to 64 SI Precast Concrete Paver.....	11.18	2.94	
		Note: Includes 5" x 7", 6" x 6", 8" x 8" and other similar size pavers.			
		<i>For 2-3/4" Concrete Paver, Add</i>	1.09		
		<i>For 3-1/8" Concrete Paver, Add</i>	1.77		
		<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	0.85		
		<i>For Up To 100, Add</i>	4.27		
		<i>For >100 To 500, Add</i>	1.15		
		<i>For >1,000 To 5,000, Deduct</i>	-0.59		
		<i>For >5,000, Deduct</i>	-1.04		
32 14 13 16-0004	SF	2-3/8" Thick, >64 to 144 SI Precast Concrete Paver.....	10.64	2.34	
		Note: Includes 6" x 12", 12" x 12" and other similar size pavers.			
		<i>For 2-3/4" Concrete Paver, Add</i>	1.06		
		<i>For 3-1/8" Concrete Paver, Add</i>	1.73		
		<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	0.80		
		<i>For Up To 100, Add</i>	4.00		
		<i>For >100 To 500, Add</i>	1.07		
		<i>For >1,000 To 5,000, Deduct</i>	-0.53		
		<i>For >5,000, Deduct</i>	-0.96		
32 14 13 16-0005	SF	2-3/8" Thick, >144 SI Precast Concrete Paver.....	10.16	2.43	
		Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers.			
		<i>For 2-3/4" Concrete Paver, Add</i>	1.04		
		<i>For 3-1/8" Concrete Paver, Add</i>	1.69		
		<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	0.75		
		<i>For Up To 100, Add</i>	3.76		
		<i>For >100 To 500, Add</i>	0.99		
		<i>For >1,000 To 5,000, Deduct</i>	-0.49		
		<i>For >5,000, Deduct</i>	-0.89		
32 14 13 16-0006	SF	2-3/8" Thick, Precast Concrete Paver, Combinations And Patterns	10.91	2.79	
		Note: Patterns made by combining pavers from two or more size groups.			
		<i>For 2-3/4" Concrete Paver, Add</i>	1.08		
		<i>For 3-1/8" Concrete Paver, Add</i>	1.75		
		<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	0.83		
		<i>For Up To 100, Add</i>	4.13		
		<i>For >100 To 500, Add</i>	1.11		
		<i>For >1,000 To 5,000, Deduct</i>	-0.56		
		<i>For >5,000, Deduct</i>	-1.00		
32 14 13 19 Porous Precast Concrete Unit Paving (32 14 13)					
32 14 13 19-0001 Turf Block (32 14 13 19)					
Note: Grass grid, open-cell unit paver, geoblock.					
32 14 13 19-0002	SF	3-1/8" Thick, Precast Concrete Turf Block	11.78	2.79	
		<i>For Up To 100, Add</i>	4.35		
		<i>For >100 To 500, Add</i>	1.15		
		<i>For >1,000 To 5,000, Deduct</i>	-0.56		
		<i>For >5,000, Deduct</i>	-1.03		
32 14 16 Brick Unit Paving (32 14)					
32 14 16 00-0001 Brick Paver Sidewalk (32 14 16)					
Note: Includes sand joints. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.					
32 14 16 00-0002	SF	4" x 8" x 2-1/4" Brick Paver, Laid Flat	14.59	3.23	
		<i>For 1-3/8" Thick Paver, Deduct</i>	-3.17		
		<i>For 2-3/4" Thick Paver (Vehicular), Add</i>	7.25		
		<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	1.05		
		<i>For Up To 100, Add</i>	5.27		
		<i>For >100 To 500, Add</i>	1.38		
		<i>For >1,000 To 5,000, Deduct</i>	-0.65		
		<i>For >5,000, Deduct</i>	-1.21		



		Exterior Improvements	32
		Bases, Ballasts, and Paving	32 10
		Unit Paving	32 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 16 00-0003 SF 4" x 8" x 2-1/4" Brick, Laid On Edge	21.79	3.68
For 1-3/8" Thick Paver, Deduct	-5.42	
For 2-3/4" Thick Paver (Vehicular), Add	12.68	
For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.46	
For Up To 100, Add	7.29	
For >100 To 500, Add	1.83	
For >1,000 To 5,000, Deduct	-0.74	
For >5,000, Deduct	-1.54	
32 14 33 Plastic Paving (32 14)		
32 14 33 13 Permeable Plastic Paving (32 14 33)		
32 14 33 13-0001 Turf Block Plastic Paving (32 14 33 13)		
32 14 33 13-0002 SF 4" Thick Recycled Polyvinyl Chloride (PVC) Plastic Turf Block	17.86	2.79
For Up To 100, Add	5.87	
For >100 To 500, Add	1.45	
For >1,000 To 5,000, Deduct	-0.56	
For >5,000, Deduct	-1.21	
32 14 40 Stone Paving (32 14)		
32 14 40 00-0001 Slate Paver Sidewalk (32 14 40)		
Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 40 00-0002 SF 1" Thick, Up to 54 SI Slate Paver.....	15.66	2.67
Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers.		
For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.05	
For 1/4" Thick Paver, Deduct	-7.94	
For 1/2" Thick Paver, Deduct	-5.55	
For Up To 100, Add	5.25	
For >100 To 500, Add	1.32	
For >1,000 To 5,000, Deduct	-0.53	
For >5,000, Deduct	-1.11	
32 14 40 00-0003 SF 1" Thick, >54 to 108 SI Slate Paver	15.18	2.43
Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers.		
For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.00	
For 1/4" Thick Paver, Deduct	-7.82	
For 1/2" Thick Paver, Deduct	-5.48	
For Up To 100, Add	5.01	
For >100 To 500, Add	1.25	
For >1,000 To 5,000, Deduct	-0.49	
For >5,000, Deduct	-1.04	
32 14 40 00-0004 SF 1" Thick, >108 to 216 SI Slate Paver.....	14.34	2.01
Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers.		
For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.92	
For 1/4" Thick Paver, Deduct	-7.61	
For 1/2" Thick Paver, Deduct	-5.35	
For Up To 100, Add	4.59	
For >100 To 500, Add	1.12	
For >1,000 To 5,000, Deduct	-0.40	
For >5,000, Deduct	-0.91	
32 14 40 00-0005 SF 1" Thick, >216 SI Slate Paver.....	13.97	1.82
Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers.		
For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.88	
For 1/4" Thick Paver, Deduct	-7.52	
For 1/2" Thick Paver, Deduct	-5.29	
For Up To 100, Add	4.41	
For >100 To 500, Add	1.06	
For >1,000 To 5,000, Deduct	-0.37	
For >5,000, Deduct	-0.86	
32 14 40 00-0006 SF 1" Thick, Slate Paver, Combinations And Patterns.....	14.72	2.20
Note: Patterns made by combining pavers from two or more size groups.		
For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.96	
For 1/4" Thick Paver, Deduct	-7.70	
For 1/2" Thick Paver, Deduct	-5.41	
For Up To 100, Add	4.78	
For >100 To 500, Add	1.18	
For >1,000 To 5,000, Deduct	-0.44	
For >5,000, Deduct	-0.97	
32 14 40 00-0007 Granite Paver Sidewalk (32 14 40)		
Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 40 00-0008 SF 1" Thick, Up to 54 SI Granite Paver.....	22.10	2.67
Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers.		
For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.37	
For 2" Granite Paver, Add	1.11	
For 3" Granite Paver, Add	2.21	
For 4" Granite Paver, Add	2.48	
For Up To 100, Add	6.86	
For >100 To 500, Add	1.64	
For >1,000 To 5,000, Deduct	-0.53	
For >5,000, Deduct	-1.30	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 14 Unit Paving**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 40 00-0009 SF 1" Thick, >54 to 108 SI Granite Paver.....	21.62	2.43
Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers.		
For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.32	
For 2" Granite Paver, Add	1.08	
For 3" Granite Paver, Add	2.16	
For 4" Granite Paver, Add	2.41	
For Up To 100, Add	6.62	
For >100 To 500, Add	1.57	
For >1,000 To 5,000, Deduct	-0.49	
For >5,000, Deduct	-1.23	
32 14 40 00-0010 SF 1" Thick, >108 to 216 SI Granite Paver.....	20.78	2.01
Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers.		
For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.24	
For 2" Granite Paver, Add	1.04	
For 3" Granite Paver, Add	2.08	
For 4" Granite Paver, Add	2.28	
For Up To 100, Add	6.20	
For >100 To 500, Add	1.44	
For >1,000 To 5,000, Deduct	-0.40	
For >5,000, Deduct	-1.11	
32 14 40 00-0011 SF 1" Thick, >216 SI Granite Paver.....	20.41	1.82
Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24" and other similar size pavers.		
For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.20	
For 2" Granite Paver, Add	1.02	
For 3" Granite Paver, Add	2.04	
For 4" Granite Paver, Add	2.22	
For Up To 100, Add	6.02	
For >100 To 500, Add	1.39	
For >1,000 To 5,000, Deduct	-0.37	
For >5,000, Deduct	-1.05	
32 14 40 00-0012 SF 1" Thick, Granite Paver, Combinations And Patterns	21.16	2.20
Note: Patterns made by combining pavers from two or more size groups.		
For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.28	
For 2" Granite Paver, Add	1.06	
For 3" Granite Paver, Add	2.12	
For 4" Granite Paver, Add	2.34	
For Up To 100, Add	6.39	
For >100 To 500, Add	1.50	
For >1,000 To 5,000, Deduct	-0.44	
For >5,000, Deduct	-1.16	
32 14 40 00-0013 Cobble Stone <small>(32 14 40)</small>		
Note: Includes 6" thick 2,500 psi concrete mix with various colors of rounded 4" to 8" diameter cobble stones, half embedded in concrete.		
32 14 40 00-0014 SF 4" to 8" diameter cobble stones, various colors, Up To 500 SF	32.26	
Note: Half embedded in minimum 6" thick 2500 psi concrete mix.		
32 14 40 00-0015 SF 4" to 8" diameter cobble stones, various colors, > 500 SF	25.40	
Note: Half embedded in minimum 6" thick 2500 psi concrete mix.		
32 15 Aggregate Surfacing <small>(32 10)</small>		
32 15 40 Crushed Stone Surfacing <small>(32 15)</small>		
Note: Includes delivery up to 15 miles from supplier, placement, rolling and compaction water. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.		
32 15 40 00-0001 Gravel Surfacing And Spreading <small>(32 15 40)</small>		
Note: Includes delivered material, placement, rolling and compaction water.		
32 15 40 00-0002 CY Gravel Surfacing And Spreading.....	88.69	
32 15 40 00-0003 Limestone Screenings <small>(32 15 40)</small>		
Note: Includes delivered material, placement, rolling and compaction water. For trail maintenance.		
32 15 40 00-0004 CY Limestone Screenings For Trail	78.28	
32 15 40 00-0005 Decomposed Granite <small>(32 15 40)</small>		
Note: Includes delivered material, placement, rolling and compaction water.		
32 15 40 00-0006 SY 3" To 4" Thick Decomposed Granite Screenings With Stabilizer Pathway	18.33	
Note: Placed in 2 lifts.		
For Additional 2" Lift	9.17	
For >45 To 180, Deduct	-1.23	
For >180 To 450, Deduct	-1.54	
For >450, Deduct	-1.86	
32 16 Curbs, Gutters, Sidewalks, and Driveways <small>(32 10)</small>		
32 16 13 Curbs and Gutters <small>(32 16)</small>		
Note: Includes transitions. Demolition Includes two saw cuts (each end) of curbs and gutters for lengths up to 100'. See CSI section 02 41 19 13-0057 for additional saw cuts within the 100'.		
32 16 13 13 Cast-In-Place Concrete Curbs and Gutters <small>(32 16 13)</small>		
Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0001 Cast In Place Concrete Curbs <small>(32 16 13 13)</small>		
<i>Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.</i>		
32 16 13 13-0002 LF "B3" Cast In Place Concrete Curb	11.41	10.09
32 16 13 13-0003 LF "B3" Cast In Place Concrete Curb - Radius	12.94	11.60
32 16 13 13-0004 LF "B1" Cast In Place Concrete Curb	25.77	10.09
32 16 13 13-0005 LF "B1" Cast In Place Concrete Curb - Radius	29.48	11.10
32 16 13 13-0006 LF "A1-150" Cast In Place Concrete Curb	25.14	10.09
32 16 13 13-0007 LF "A1-150" Cast In Place Concrete Curb - Radius	28.77	11.10
32 16 13 13-0008 LF "A1-200" Cast In Place Concrete Curb	26.04	10.09
32 16 13 13-0009 LF "A1-200" Cast In Place Concrete Curb - Radius	29.78	11.10
32 16 13 13-0010 LF 6" x 12" Cast In Place Concrete Curb (Type A1-6)	19.62	10.09
<i>For Mountable Curb, Add</i>	<i>1.42</i>	
<i>For Up To 20, Add</i>	<i>11.99</i>	
<i>For >20 To 50, Add</i>	<i>6.80</i>	
<i>For >50 To 100, Add</i>	<i>2.59</i>	
<i>For >500 To 1,000, Deduct</i>	<i>-2.59</i>	
<i>For >1,000, Deduct</i>	<i>-4.38</i>	
32 16 13 13-0011 LF 6" x 12" Cast In Place Concrete Curb - Radius (Type A1-6)	22.49	11.60
<i>For Mountable Curb, Add</i>	<i>1.66</i>	
<i>For Up To 20, Add</i>	<i>13.83</i>	
<i>For >20 To 50, Add</i>	<i>7.85</i>	
<i>For >50 To 100, Add</i>	<i>2.99</i>	
<i>For >500 To 1,000, Deduct</i>	<i>-2.99</i>	
<i>For >1,000, Deduct</i>	<i>-5.05</i>	
32 16 13 13-0012 LF 6" x 14" Cast In Place Concrete Curb (Type A1-8)	21.59	10.09
<i>For Mountable Curb, Add</i>	<i>1.55</i>	
<i>For Up To 20, Add</i>	<i>13.14</i>	
<i>For >20 To 50, Add</i>	<i>7.45</i>	
<i>For >50 To 100, Add</i>	<i>2.84</i>	
<i>For >500 To 1,000, Deduct</i>	<i>-2.84</i>	
<i>For >1,000, Deduct</i>	<i>-4.81</i>	
32 16 13 13-0013 LF 6" x 14" Cast In Place Concrete Curb - Radius (Type A1-8)	24.75	11.60
<i>For Mountable Curb, Add</i>	<i>1.80</i>	
<i>For Up To 20, Add</i>	<i>15.16</i>	
<i>For >20 To 50, Add</i>	<i>8.60</i>	
<i>For >50 To 100, Add</i>	<i>3.28</i>	
<i>For >500 To 1,000, Deduct</i>	<i>-3.28</i>	
<i>For >1,000, Deduct</i>	<i>-5.54</i>	
32 16 13 13-0014 LF 6" x 16" Cast In Place Concrete Curb	23.76	10.09
<i>For Mountable Curb, Add</i>	<i>1.66</i>	
<i>For Up To 20, Add</i>	<i>14.33</i>	
<i>For >20 To 50, Add</i>	<i>8.12</i>	
<i>For >50 To 100, Add</i>	<i>3.10</i>	
<i>For >500 To 1,000, Deduct</i>	<i>-3.10</i>	
<i>For >1,000, Deduct</i>	<i>-5.25</i>	
32 16 13 13-0015 LF 6" x 16" Cast In Place Concrete Curb - Radius	27.18	15.13
<i>For Mountable Curb, Add</i>	<i>1.94</i>	
<i>For Up To 20, Add</i>	<i>16.53</i>	
<i>For >20 To 50, Add</i>	<i>9.38</i>	
<i>For >50 To 100, Add</i>	<i>3.58</i>	
<i>For >500 To 1,000, Deduct</i>	<i>-3.58</i>	
<i>For >1,000, Deduct</i>	<i>-6.05</i>	
32 16 13 13-0016 LF 6" x 18" Cast In Place Concrete Curb	25.51	10.09
<i>For Mountable Curb, Add</i>	<i>1.76</i>	
<i>For Up To 20, Add</i>	<i>15.29</i>	
<i>For >20 To 50, Add</i>	<i>8.67</i>	
<i>For >50 To 100, Add</i>	<i>3.31</i>	
<i>For >500 To 1,000, Deduct</i>	<i>-3.31</i>	
<i>For >1,000, Deduct</i>	<i>-5.61</i>	
32 16 13 13-0017 LF 6" x 18" Cast In Place Concrete Curb - Radius	28.84	11.60
<i>For Mountable Curb, Add</i>	<i>2.01</i>	
<i>For Up To 20, Add</i>	<i>17.37</i>	
<i>For >20 To 50, Add</i>	<i>9.84</i>	
<i>For >50 To 100, Add</i>	<i>3.76</i>	
<i>For >500 To 1,000, Deduct</i>	<i>-3.76</i>	
<i>For >1,000, Deduct</i>	<i>-6.36</i>	
32 16 13 13-0018 LF 6" x 24" Cast In Place Concrete Curb	29.32	11.10
<i>For Mountable Curb, Add</i>	<i>1.86</i>	
<i>For Up To 20, Add</i>	<i>17.07</i>	
<i>For >20 To 50, Add</i>	<i>9.66</i>	
<i>For >50 To 100, Add</i>	<i>3.71</i>	
<i>For >500 To 1,000, Deduct</i>	<i>-3.71</i>	
<i>For >1,000, Deduct</i>	<i>-6.30</i>	
32 16 13 13-0019 LF 6" x 24" Cast In Place Concrete Curb - Radius	32.80	12.60
<i>For Mountable Curb, Add</i>	<i>2.10</i>	
<i>For Up To 20, Add</i>	<i>19.17</i>	
<i>For >20 To 50, Add</i>	<i>10.84</i>	
<i>For >50 To 100, Add</i>	<i>4.16</i>	
<i>For >500 To 1,000, Deduct</i>	<i>-4.16</i>	
<i>For >1,000, Deduct</i>	<i>-7.06</i>	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0020	LF		12" x 24" Cast In Place Concrete Curb.....	38.41	12.60
			<i>For Mountable Curb, Add</i>	1.80	
			<i>For Up To 20, Add</i>	20.29	
			<i>For >20 To 50, Add</i>	11.41	
			<i>For >50 To 100, Add</i>	4.44	
			<i>For >500 To 1,000, Deduct</i>	-4.44	
			<i>For >1,000, Deduct</i>	-7.62	
32 16 13 13-0021	LF		12" x 24" Cast In Place Concrete Curb - Radius.....	42.75	14.12
			<i>For Mountable Curb, Add</i>	2.03	
			<i>For Up To 20, Add</i>	22.67	
			<i>For >20 To 50, Add</i>	12.75	
			<i>For >50 To 100, Add</i>	4.96	
			<i>For >500 To 1,000, Deduct</i>	-4.96	
			<i>For >1,000, Deduct</i>	-8.51	
32 16 13 13-0022	EA		Additional Finish For Handicap Drop Section In Curb.....	75.63	
32 16 13 13-0023			Cast In Place Concrete Curb And Gutter <small>(32 16 13 13)</small>		
			Note: Includes concrete, forms, rebar, chairs (where necessary), transitions, expansion joints, finish and curing.		
32 16 13 13-0024	LF		"A2-6 Modified" Concrete Curb And Gutter - Straight.....	28.29	12.11
			<i>For Up To 20, Add</i>	19.10	
			<i>For >20 To 50, Add</i>	10.61	
			<i>For >50 To 100, Add</i>	4.24	
			<i>For >500 To 1,000, Deduct</i>	-3.54	
			<i>For >1,000, Deduct</i>	-6.01	
			<i>For Mountable Or Rolled Curb And Gutter, Add</i>	1.73	
32 16 13 13-0025	LF		"A2-6 Modified" Concrete Curb And Gutter - Radius.....	31.30	12.11
			<i>For Up To 20, Add</i>	21.10	
			<i>For >20 To 50, Add</i>	11.71	
			<i>For >50 To 100, Add</i>	4.70	
			<i>For >500 To 1,000, Deduct</i>	-3.89	
			<i>For >1,000, Deduct</i>	-6.61	
			<i>For Mountable Or Rolled Curb And Gutter, Add</i>	1.88	
32 16 13 13-0026	LF		"A2-6" Concrete Curb And Gutter - Straight.....	37.63	16.15
			<i>For Up To 20, Add</i>	25.81	
			<i>For >20 To 50, Add</i>	14.52	
			<i>For >50 To 100, Add</i>	5.64	
			<i>For >500 To 1,000, Deduct</i>	-5.11	
			<i>For >1,000, Deduct</i>	-8.61	
			<i>For Mountable Or Rolled Curb And Gutter, Add</i>	2.94	
32 16 13 13-0027	LF		"A2-6" Concrete Curb And Gutter - Radius.....	48.25	18.18
			<i>For Up To 20, Add</i>	32.58	
			<i>For >20 To 50, Add</i>	18.11	
			<i>For >50 To 100, Add</i>	7.24	
			<i>For >500 To 1,000, Deduct</i>	-6.05	
			<i>For >1,000, Deduct</i>	-10.27	
			<i>For Mountable Or Rolled Curb And Gutter, Add</i>	2.98	
32 16 13 13-0028	LF		"B-2" Concrete Curb And Gutter - Straight.....	46.20	17.66
			<i>For Up To 20, Add</i>	31.25	
			<i>For >20 To 50, Add</i>	17.39	
			<i>For >50 To 100, Add</i>	6.93	
			<i>For >500 To 1,000, Deduct</i>	-5.84	
			<i>For >1,000, Deduct</i>	-9.92	
			<i>For Mountable Or Rolled Curb And Gutter, Add</i>	2.94	
32 16 13 13-0029	LF		"B-2" Concrete Curb And Gutter - Radius.....	47.85	17.66
			<i>For Up To 20, Add</i>	32.24	
			<i>For >20 To 50, Add</i>	17.89	
			<i>For >50 To 100, Add</i>	7.18	
			<i>For >500 To 1,000, Deduct</i>	-5.93	
			<i>For >1,000, Deduct</i>	-10.08	
			<i>For Mountable Or Rolled Curb And Gutter, Add</i>	2.84	
32 16 13 13-0030	LF		6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	26.79	12.11
			<i>For Up To 20, Add</i>	18.20	
			<i>For >20 To 50, Add</i>	10.16	
			<i>For >50 To 100, Add</i>	4.02	
			<i>For >500 To 1,000, Deduct</i>	-3.46	
			<i>For >1,000, Deduct</i>	-5.86	
			<i>For Mountable Or Rolled Curb And Gutter, Add</i>	1.81	
32 16 13 13-0031	LF		6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Radius.....	29.22	16.15
			<i>For Up To 20, Add</i>	19.85	
			<i>For >20 To 50, Add</i>	11.09	
			<i>For >50 To 100, Add</i>	4.38	
			<i>For >500 To 1,000, Deduct</i>	-3.78	
			<i>For >1,000, Deduct</i>	-6.41	
			<i>For Mountable Or Rolled Curb And Gutter, Add</i>	1.99	
32 16 13 13-0032	LF		6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	34.06	13.43
			<i>For Up To 20, Add</i>	23.11	
			<i>For >20 To 50, Add</i>	12.89	
			<i>For >50 To 100, Add</i>	5.11	
			<i>For >500 To 1,000, Deduct</i>	-4.38	
			<i>For >1,000, Deduct</i>	-7.42	
			<i>For Mountable Or Rolled Curb And Gutter, Add</i>	2.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0033 LF 6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	37.64	14.94
<i>For Up To 20, Add</i>	25.56	
<i>For >20 To 50, Add</i>	14.27	
<i>For >50 To 100, Add</i>	5.65	
<i>For >500 To 1,000, Deduct</i>	-4.86	
<i>For >1,000, Deduct</i>	-8.23	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	2.55	
32 16 13 13-0034 LF 6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Straight (Type A3-6)	41.34	16.15
<i>For Up To 20, Add</i>	28.03	
<i>For >20 To 50, Add</i>	15.63	
<i>For >50 To 100, Add</i>	6.20	
<i>For >500 To 1,000, Deduct</i>	-5.30	
<i>For >1,000, Deduct</i>	-8.98	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	2.73	
32 16 13 13-0035 LF 6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Radius (Type A3-6)	46.06	18.18
<i>For Up To 20, Add</i>	31.27	
<i>For >20 To 50, Add</i>	17.45	
<i>For >50 To 100, Add</i>	6.91	
<i>For >500 To 1,000, Deduct</i>	-5.94	
<i>For >1,000, Deduct</i>	-10.06	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	3.10	
32 16 13 13-0036 LF 6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	49.13	19.18
<i>For Up To 20, Add</i>	33.31	
<i>For >20 To 50, Add</i>	18.58	
<i>For >50 To 100, Add</i>	7.37	
<i>For >500 To 1,000, Deduct</i>	-6.29	
<i>For >1,000, Deduct</i>	-10.67	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	3.24	
32 16 13 13-0037 LF 6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	54.00	21.20
<i>For Up To 20, Add</i>	36.64	
<i>For >20 To 50, Add</i>	20.44	
<i>For >50 To 100, Add</i>	8.10	
<i>For >500 To 1,000, Deduct</i>	-6.94	
<i>For >1,000, Deduct</i>	-11.76	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	3.60	
32 16 13 13-0038 LF 6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	56.92	22.21
<i>For Up To 20, Add</i>	38.59	
<i>For >20 To 50, Add</i>	21.52	
<i>For >50 To 100, Add</i>	8.54	
<i>For >500 To 1,000, Deduct</i>	-7.29	
<i>For >1,000, Deduct</i>	-12.36	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	3.75	
32 16 13 13-0039 LF 6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	61.93	24.23
<i>For Up To 20, Add</i>	42.00	
<i>For >20 To 50, Add</i>	23.43	
<i>For >50 To 100, Add</i>	9.29	
<i>For >500 To 1,000, Deduct</i>	-7.94	
<i>For >1,000, Deduct</i>	-13.46	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	4.11	
32 16 13 13-0040 LF 6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	64.70	25.24
<i>For Up To 20, Add</i>	43.87	
<i>For >20 To 50, Add</i>	24.46	
<i>For >50 To 100, Add</i>	9.71	
<i>For >500 To 1,000, Deduct</i>	-8.28	
<i>For >1,000, Deduct</i>	-14.04	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	4.26	
32 16 13 13-0041 LF 6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	71.87	28.26
<i>For Up To 20, Add</i>	48.78	
<i>For >20 To 50, Add</i>	27.22	
<i>For >50 To 100, Add</i>	10.78	
<i>For >500 To 1,000, Deduct</i>	-9.25	
<i>For >1,000, Deduct</i>	-15.67	
<i>For Mountable Or Rolled Curb And Gutter, Add</i>	4.81	

32 16 13 14 Machine Formed, Slip Form Curbs (32 16 13)

Note: Includes delivered concrete, steel, expansion joints and finish.

32 16 13 14-0001 Curbs, Machine Formed, Slip Form (32 16 13 14)

Note: Includes delivered concrete, steel, expansion joints and finish.

32 16 13 14-0002 EA Machine Formed Concrete Curb Minimum Set-Up Charge (One Time Per Job)	1,430.68	
Note: For projects where the total curbing charge is less than the minimum set-up charge, use this task exclusively. This task shall not be used in conjunction with any other tasks in this section.		
32 16 13 14-0003 LF 6" x 12" Straight Concrete Curb, Machine Formed	12.89	
32 16 13 14-0004 LF 6" x 12" Curved Concrete Curb, Machine Formed	17.36	
32 16 13 14-0005 LF 6" x 18" Straight Concrete Curb, Machine Formed	17.05	
32 16 13 14-0006 LF 6" x 18" Curved Concrete Curb, Machine Formed	22.25	

32 16 13 16 Steel Faced Curbs (32 16 13)

Note: Fabrication includes handicap and other curb access cuts.

32 16 13 16-0001 Sidewalk/Curb Facing (32 16 13 16)

Note: Fabrication includes handicap and other curb access cuts.

32 16 13 16-0002 LF 3" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	16.11	5.08
<i>For Curved Section, Add</i>	3.51	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 16-0003	LF		4" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	17.72	5.77
			<i>For Curved Section, Add</i>	3.94	
32 16 13 16-0004	LF		6" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	23.93	6.46
			<i>For Curved Section, Add</i>	4.83	
32 16 13 16-0005	LF		8" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	29.39	7.27
			<i>For Curved Section, Add</i>	5.65	
32 16 13 16-0006	LF		10" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	35.98	7.96
			<i>For Curved Section, Add</i>	6.58	
32 16 13 16-0007	LF		12" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	47.04	10.15
			<i>For Curved Section, Add</i>	8.49	
32 16 13 16-0008	LF		13" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	54.21	13.16
			<i>For Curved Section, Add</i>	10.34	
32 16 13 16-0009	EA		Sidewalk/Curb Steel Facing, Pedestrian Ramps, Two Drops Per Section.....	169.82	
32 16 13 16-0010	EA		Pedestrian/Handicap Ramp, Complete.....	139.30	

32 16 13 19 Cast-In-Place Concrete Drainage Ditches (32 16 13)

Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.

32 16 13 19-0001 Valley Gutter, Cast In Place (32 16 13 19)

Note: Includes concrete, forms, rebar, expansion joints, finish and curing.

32 16 13 19-0002	LF		2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	21.89	
			<i>For Up To 20, Add</i>	9.85	
			<i>For >20 To 50, Add</i>	5.47	
			<i>For >50 To 100, Add</i>	2.19	
			<i>For >500 To 1,000, Deduct</i>	-2.19	
			<i>For >1,000, Deduct</i>	-3.83	
32 16 13 19-0003	LF		2-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	26.85	
			<i>For Up To 20, Add</i>	11.96	
			<i>For >20 To 50, Add</i>	6.64	
			<i>For >50 To 100, Add</i>	2.66	
			<i>For >500 To 1,000, Deduct</i>	-2.66	
			<i>For >1,000, Deduct</i>	-4.66	
32 16 13 19-0004	LF		3' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	31.77	
			<i>For Up To 20, Add</i>	14.03	
			<i>For >20 To 50, Add</i>	7.79	
			<i>For >50 To 100, Add</i>	3.12	
			<i>For >500 To 1,000, Deduct</i>	-3.12	
			<i>For >1,000, Deduct</i>	-5.48	
32 16 13 19-0005	LF		3-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	36.66	
			<i>For Up To 20, Add</i>	16.09	
			<i>For >20 To 50, Add</i>	8.92	
			<i>For >50 To 100, Add</i>	3.58	
			<i>For >500 To 1,000, Deduct</i>	-3.58	
			<i>For >1,000, Deduct</i>	-6.29	
32 16 13 19-0006	LF		4' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	41.56	
			<i>For Up To 20, Add</i>	18.15	
			<i>For >20 To 50, Add</i>	10.06	
			<i>For >50 To 100, Add</i>	4.05	
			<i>For >500 To 1,000, Deduct</i>	-4.05	
			<i>For >1,000, Deduct</i>	-7.11	
32 16 13 19-0007	LF		5' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	49.49	
			<i>For Up To 20, Add</i>	20.97	
			<i>For >20 To 50, Add</i>	11.59	
			<i>For >50 To 100, Add</i>	4.69	
			<i>For >500 To 1,000, Deduct</i>	-4.69	
			<i>For >1,000, Deduct</i>	-8.27	
32 16 13 19-0008	LF		6' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	57.14	
			<i>For Up To 20, Add</i>	23.59	
			<i>For >20 To 50, Add</i>	13.01	
			<i>For >50 To 100, Add</i>	5.29	
			<i>For >500 To 1,000, Deduct</i>	-5.29	
			<i>For >1,000, Deduct</i>	-9.36	
32 16 13 19-0009	SF		>6' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	9.52	
			<i>For Up To 100, Add</i>	3.93	
			<i>For >100 To 250, Add</i>	2.17	
			<i>For >250 To 500, Add</i>	0.88	
			<i>For >2,500 To 5,000, Deduct</i>	-0.88	
			<i>For >5,000, Deduct</i>	-1.56	
32 16 13 19-0010	LF		2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	24.11	
			<i>For Up To 20, Add</i>	10.58	
			<i>For >20 To 50, Add</i>	5.87	
			<i>For >50 To 100, Add</i>	2.36	
			<i>For >500 To 1,000, Deduct</i>	-2.36	
			<i>For >1,000, Deduct</i>	-4.14	
32 16 13 19-0011	LF		2-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	29.80	
			<i>For Up To 20, Add</i>	12.99	
			<i>For >20 To 50, Add</i>	7.20	
			<i>For >50 To 100, Add</i>	2.90	
			<i>For >500 To 1,000, Deduct</i>	-2.90	
			<i>For >1,000, Deduct</i>	-5.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0012 LF 3' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	35.08	
For Up To 20, Add	15.12	
For >20 To 50, Add	8.37	
For >50 To 100, Add	3.37	
For >500 To 1,000, Deduct	-3.37	
For >1,000, Deduct	-5.94	
32 16 13 19-0013 LF 3-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	40.52	
For Up To 20, Add	17.35	
For >20 To 50, Add	9.60	
For >50 To 100, Add	3.88	
For >500 To 1,000, Deduct	-3.88	
For >1,000, Deduct	-6.83	
32 16 13 19-0014 LF 4' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	45.95	
For Up To 20, Add	19.58	
For >20 To 50, Add	10.83	
For >50 To 100, Add	4.37	
For >500 To 1,000, Deduct	-4.37	
For >1,000, Deduct	-7.71	
32 16 13 19-0015 LF 5' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	54.84	
For Up To 20, Add	22.65	
For >20 To 50, Add	12.50	
For >50 To 100, Add	5.08	
For >500 To 1,000, Deduct	-5.08	
For >1,000, Deduct	-8.99	
32 16 13 19-0016 LF 6' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	63.44	
For Up To 20, Add	25.52	
For >20 To 50, Add	14.05	
For >50 To 100, Add	5.74	
For >500 To 1,000, Deduct	-5.74	
For >1,000, Deduct	-10.19	
32 16 13 19-0017 SF >6' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	10.57	
For Up To 100, Add	4.25	
For >100 To 250, Add	2.34	
For >250 To 500, Add	0.96	
For >2,500 To 5,000, Deduct	-0.96	
For >5,000, Deduct	-1.70	
32 16 13 19-0018 LF 2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	24.22	
For Up To 20, Add	10.91	
For >20 To 50, Add	6.06	
For >50 To 100, Add	2.42	
For >500 To 1,000, Deduct	-2.42	
For >1,000, Deduct	-4.24	
32 16 13 19-0019 LF 2-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	29.74	
For Up To 20, Add	13.26	
For >20 To 50, Add	7.36	
For >50 To 100, Add	2.95	
For >500 To 1,000, Deduct	-2.95	
For >1,000, Deduct	-5.17	
32 16 13 19-0020 LF 3' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	35.17	
For Up To 20, Add	15.55	
For >20 To 50, Add	8.63	
For >50 To 100, Add	3.46	
For >500 To 1,000, Deduct	-3.46	
For >1,000, Deduct	-6.07	
32 16 13 19-0021 LF 3-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	40.62	
For Up To 20, Add	17.85	
For >20 To 50, Add	9.90	
For >50 To 100, Add	3.98	
For >500 To 1,000, Deduct	-3.98	
For >1,000, Deduct	-6.98	
32 16 13 19-0022 LF 4' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	46.06	
For Up To 20, Add	20.15	
For >20 To 50, Add	11.17	
For >50 To 100, Add	4.49	
For >500 To 1,000, Deduct	-4.49	
For >1,000, Deduct	-7.89	
32 16 13 19-0023 LF 5' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	54.83	
32 16 13 19-0024 LF 6' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	63.29	
32 16 13 19-0025 SF >6' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	10.54	
For Up To 100, Add	4.36	
For >100 To 250, Add	2.40	
For >250 To 500, Add	0.98	
For >2,500 To 5,000, Deduct	-0.98	
For >5,000, Deduct	-1.73	

32 16 13 19-0026 Gutter Intersections (32 16 13 19)

Note: Assembly includes installation, concrete, forms, rebar, expansion joints, finish and curing.

32 16 13 19-0027 EA Cast In Place Concrete Cross Gutter At T Section.....	1,105.60
32 16 13 19-0028 EA 8' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	1,327.86
32 16 13 19-0029 EA 10' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	2,074.78
32 16 13 19-0030 EA 15' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	4,668.25
32 16 13 19-0031 EA 20' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	8,299.10
32 16 13 19-0032 EA 25' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	12,967.35
32 16 13 19-0033 EA 30' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	18,672.98

32	Exterior Improvements
32 10	Bases, Ballasts, and Paving
32 16	Curbs, Gutters, Sidewalks, and Driveways



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 16 13 19-0034	Driveway Approach, Cast In Place <small>(32 16 13 19)</small>		
	Note: Includes concrete, forms, rebar, expansion joints, finish and curing.		
32 16 13 19-0035	SF 4 Cast In Place Concrete Driveway Approach	13.34	
	For Up To 100, Add	5.88	
	For >100 To 500, Add	1.68	
	For >1,000 To 5,000, Deduct	-1.02	
	For >5,000, Deduct	-2.19	
32 16 13 19-0036	SF 6" Cast In Place Concrete Driveway Approach	18.19	
	For Up To 100, Add	8.02	
	For >100 To 500, Add	2.30	
	For >1,000 To 5,000, Deduct	-1.39	
	For >5,000, Deduct	-2.99	
32 16 13 23	Precast Concrete Curbs and Gutters <small>(32 16 13)</small>		
32 16 13 23-0001	Precast Concrete Curb <small>(32 16 13 23)</small>		
32 16 13 23-0002	LF 6" x 18" Precast Concrete Curb	42.07	9.40
32 16 13 23-0003	LF 6" x 18" Precast Concrete Curb, Radius	50.38	10.81
32 16 13 23-0004	LF 6" x 20" Precast Concrete Curb	44.73	9.40
32 16 13 23-0005	LF 6" x 20" Precast Concrete Curb, Radius	53.90	10.81
32 16 13 23-0006	LF 7" x 18" Precast Concrete Curb	45.95	9.40
32 16 13 23-0007	LF 7" x 18" Precast Concrete Curb, Radius	55.30	10.81
32 16 13 23-0008	LF 7" x 20" Precast Concrete Curb	48.96	9.40
32 16 13 23-0009	LF 7" x 20" Precast Concrete Curb, Radius	59.12	10.81
32 16 13 33	Asphalt Curbs <small>(32 16 13)</small>		
32 16 13 33-0001	Asphalt Curbs <small>(32 16 13 33)</small>		
32 16 13 33-0002	LF 6" Wide x 6" High Asphalt Curb 64 LF/TON, Bituminous, Plain	12.79	5.19
32 16 13 33-0003	LF 8" Wide x 6" High Asphalt Curb 50 LF/TON, Bituminous, Plain	14.39	5.77
32 16 13 33-0004	LF 8" Wide x 8" High Asphalt Curb 44 LF/TON, Bituminous, Plain	15.88	6.35
32 16 13 43	Stone Curbs <small>(32 16 13)</small>		
32 16 13 43-0001	Remove And Reset Stone And Precast Curbing <small>(32 16 13 43)</small>		
	Note: Includes storage and cleaning.		
32 16 13 43-0002	LF Removal And Resetting Of Stone Or Precast Curbing.....	35.86	
	Note: Includes storage and cleaning.		
32 16 23	Sidewalks <small>(32 16)</small>		
32 16 23 00-0001	Cast In Place Concrete Sidewalk <small>(32 16 23)</small>		
	Note: Includes finish grading, delivered concrete (up to 3500 PSI) by chute, formwork, 1/4" radius joints and edges, polyethylene sheeting, control joints, expansion joints, screed, broom finish, and curing. Excludes excavation, base, base compaction and welded wire reinforcement. For bar or fiber reinforcing, add bar or fiber reinforcing tasks. See CSI section 02 41 13 13-0000 for sidewalk removal, 03 05 13 00-0001 for color additive, 03 21 00 00-0000 for reinforcing steel, 03 31 13 00-0081 for buggies, 03 31 13 00-0088 for small quantity purchases, 03 37 16 00-0001 for pumping with boom truck, 31 23 16 36-0000 for excavation, 32 11 23 16-0001 for base course.		
32 16 23 00-0002	SF 4" Cast In Place Concrete Sidewalk	9.28	
	For Up To 100, Add	3.94	
	For >100 To 500, Add	1.11	
	For Welded Wire Reinforcement, Add	0.80	
	For >1,000 To 5,000, Deduct	-0.65	
	For >5,000, Deduct	-1.44	
32 16 23 00-0003	SF 5" Cast In Place Concrete Sidewalk	10.09	
	For Up To 100, Add	4.20	
	For >100 To 500, Add	1.18	
	For Welded Wire Reinforcement, Add	0.80	
	For >1,000 To 5,000, Deduct	-0.67	
	For >5,000, Deduct	-1.51	
32 16 23 00-0004	SF 6" Cast In Place Concrete Sidewalk	10.92	
	For Up To 100, Add	4.47	
	For >100 To 500, Add	1.24	
	For Welded Wire Reinforcement, Add	0.80	
	For >1,000 To 5,000, Deduct	-0.70	
	For >5,000, Deduct	-1.59	
32 16 23 00-0005	SF 7" Cast In Place Concrete Sidewalk	12.78	
	For Up To 100, Add	5.17	
	For >100 To 500, Add	1.43	
	For Welded Wire Reinforcement, Add	0.80	
	For >1,000 To 5,000, Deduct	-0.79	
	For >5,000, Deduct	-1.82	
32 16 23 00-0006	SF 8" Cast In Place Concrete Sidewalk	13.50	
	For Up To 100, Add	5.39	
	For >100 To 500, Add	1.48	
	For Welded Wire Reinforcement, Add	0.80	
	For >1,000 To 5,000, Deduct	-0.80	
	For >5,000, Deduct	-1.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 23 00-0007 SF For Exposed Aggregate Finish In Sidewalk.....	2.31	
32 16 23 00-0008 EA Finish Concrete Handicap Drop Section In Sidewalk.....	138.69	
Note: Excludes patterned (tactile) finish.		
32 16 23 00-0009 Bituminous Sidewalk <small>(32 16 23)</small>		
Note: Includes finish grading, delivered asphalt, formwork, control joints, expansion joints, and compaction. Excludes excavation, base, and base compaction. See CSI section 31 00 00 00-0000 for excavation, 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course.		
32 16 23 00-0010 SY 1" Bituminous Sidewalk	9.22	
For Up To 100, Add	3.39	
For >100 To 500, Add	0.90	
For >1,000 To 5,000, Deduct	-0.44	
For >5,000, Deduct	-0.90	
32 16 23 00-0011 SY 1-1/2" Bituminous Sidewalk	11.60	
For Up To 100, Add	4.21	
For >100 To 500, Add	1.10	
For >1,000 To 5,000, Deduct	-0.52	
For >5,000, Deduct	-1.10	
32 16 23 00-0012 SY 2" Bituminous Sidewalk	16.18	
For Up To 100, Add	5.66	
For >100 To 500, Add	1.46	
For >1,000 To 5,000, Deduct	-0.65	
For >5,000, Deduct	-1.46	
32 16 23 00-0013 SY 2-1/2" Bituminous Sidewalk	20.24	
For Up To 100, Add	7.07	
For >100 To 500, Add	1.82	
For >1,000 To 5,000, Deduct	-0.80	
For >5,000, Deduct	-1.82	
32 16 23 00-0014 SY 3" Bituminous Sidewalk	23.36	
For Up To 100, Add	8.02	
For >100 To 500, Add	2.04	
For >1,000 To 5,000, Deduct	-0.87	
For >5,000, Deduct	-2.04	
32 16 23 00-0015 SY 3-1/2" Bituminous Sidewalk	27.05	
For Up To 100, Add	9.16	
For >100 To 500, Add	2.31	
For >1,000 To 5,000, Deduct	-0.96	
For >5,000, Deduct	-2.31	
32 16 43 Asphalt Dike <small>(32 16)</small>		
32 16 43 00-0001 Asphalt Dike <small>(32 16 43)</small>		
32 16 43 00-0002 LF Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height.....	6.89	
32 16 43 00-0003 LF Type B, Asphalt Dike, 13" Base, 5" Top, 8" Height.....	9.47	
32 16 43 00-0004 LF Type C-6, Asphalt Dike, 18" Base, 6" Top, 6" Height.....	9.47	
32 16 43 00-0005 LF Type C-8, Asphalt Dike, 22" Base, 6" Top, 8" Height.....	13.58	
32 16 43 00-0006 LF Type C-9, Asphalt Dike, 24" Base, 6" Top, 9" Height.....	16.09	
32 16 43 00-0007 LF Type D, Asphalt Dike, 8" Base, 4" Top, 2" Height.....	3.60	
32 16 43 00-0008 LF Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back	9.83	
32 16 43 00-0009 LF Type F, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back.....	15.19	
32 16 43 00-0010 LF CALTRANS Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height	6.89	
32 16 43 00-0011 LF CALTRANS Type C, Asphalt Dike, 8" Base, 4" Top, 2" Height.....	3.60	
32 16 43 00-0012 LF CALTRANS Type D, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back	15.19	
32 16 43 00-0013 LF CALTRANS Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back	9.83	
32 16 43 00-0014 LF CALTRANS Type F, Asphalt Dike, 8" Base, 4" Top, 4" Height	5.27	
32 17 Paving Specialties <small>(32 10)</small>		
32 17 13 Parking Bumpers <small>(32 17)</small>		
Note: Includes dowels set.		
32 17 13 16 Plastic Parking Bumpers <small>(32 17 13)</small>		
32 17 13 16-0001 EA 4" x 6" x 4' Recycled Plastic Wheel Stop	165.74	6.60
32 17 13 16-0002 EA 4" x 6" x 6' Recycled Plastic Wheel Stop	187.79	6.60
32 17 13 19 Precast Concrete Parking Bumpers <small>(32 17 13)</small>		
32 17 13 19-0001 EA 6" x 8" x 4' Precast Concrete Wheel Stop With Dowels	40.58	19.87
32 17 13 19-0002 EA 6" x 6" x 6' Precast Concrete Wheel Stop With Dowels	46.64	19.87
32 17 13 19-0003 EA 6" x 8" x 6' Precast Concrete Wheel Stop With Dowels.....	47.42	19.87
32 17 13 19-0004 EA 6" x 10" x 6' Precast Concrete Wheel Stop With Dowels	49.02	19.87
32 17 13 19-0005 EA 8" x 4-1/2" x 6' Precast Concrete Wheel Stop With Dowels.....	46.64	19.87
32 17 13 19-0006 EA 8" x 13" x 6' Precast Concrete Wheel Stop With Dowels	55.45	19.87
32 17 13 19-0007 EA 8" x 12" x 8' Precast Concrete Wheel Stop With Dowels	116.08	21.46
32 17 13 19-0008 EA Removal And Relocation Of Precast Concrete Wheel Stop.....	31.79	
32 17 13 19-0009 EA Removal And Relocation Of Plastic Or Wood Wheel Stop	20.67	
32 17 13 19-0010 EA 7.625" x 7.625" x 6' Precast Concrete Wheel Stop.....	112.86	19.87
32 17 13 19-0011 EA 7.625" x 7.625" x 8' Precast Concrete Wheel Stop	168.58	19.87

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 17 13 23 Rubber Parking Bumpers (32 17 13)

32 17 13 23-0001	EA	3' Recycled Rubber Wheel Stop	27.34	6.60
32 17 13 23-0002	EA	4' Recycled Rubber Wheel Stop	31.72	6.60
32 17 13 23-0003	EA	5' Recycled Rubber Wheel Stop	33.48	6.60
32 17 13 23-0004	EA	6' Recycled Rubber Wheel Stop	36.11	6.60

32 17 13 26 Wood Parking Bumpers (32 17 13)

32 17 13 26-0001	LF	4" x 4" Timber Barrier With Saddles For Cars, Pressure Treated	12.35	1.59
32 17 13 26-0002	LF	6" x 6" Timber Barriers With Saddle For Trucks, Pressure Treated	18.02	1.59

32 17 16 Manufactured Traffic-Calming Devices (32 17)**32 17 16 00-0001 Modular Rubber Speed Tables (32 17 16)**

Note: 3" high flat topped speed humps, 18" x 42" modular rubber construction. Trafficlogix.

32 17 16 00-0002	SF	Up To 24' Road Width x 7' Run Modular Rubber Speed Table	62.84	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0003	SF	Up To 24' Road Width x 14' Run Modular Rubber Speed Table	54.90	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0004	SF	Up To 24' Road Width x 21' Run Modular Rubber Speed Table	51.54	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0005	SF	>24' To 30' Road Width x 7' Run Modular Rubber Speed Table	60.14	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0006	SF	>24' To 30' Road Width x 14' Run Modular Rubber Speed Table	52.91	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0007	SF	>24' To 30' Road Width x 21' Run Modular Rubber Speed Table	49.92	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0008	SF	>30' To 40' Road Width x 7' Run Modular Rubber Speed Table	57.45	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0009	SF	>30' To 40' Road Width x 14' Run Modular Rubber Speed Table	51.32	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0010	SF	>30' To 40' Road Width x 21' Run Modular Rubber Speed Table	48.59	
		Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		

32 17 16 00-0011 Asphalt Speed Table (32 17 16)

Note: Excludes pavement markings or reflectors.

32 17 16 00-0012	LF	Up to 36" Wide Asphalt Speed Table With 3" Center Crown	34.31	
		Note: Tapered on edges to roadway.		
32 17 16 00-0013	LF	>36" To 48" Wide Asphalt Speed Table With 3" Center Crown	40.53	
		Note: Tapered on edges to roadway.		
32 17 16 00-0014	LF	Up to 36" Wide Asphalt Speed Table With 4" Center Crown	43.14	
		Note: Tapered on edges to roadway.		
32 17 16 00-0015	LF	>36" To 48" Wide Asphalt Speed Table With 4" Center Crown	51.00	
		Note: Tapered on edges to roadway.		
32 17 16 00-0016	LF	Up to 36" Wide Asphalt Speed Table With 6" Center Crown	52.58	
		Note: Tapered on edges to roadway.		
32 17 16 00-0017	LF	>36" To 48" Wide Asphalt Speed Table With 6" Center Crown	58.81	
		Note: Tapered on edges to roadway.		

32 17 16 00-0018 Speed Bumps (32 17 16)

Note: Excludes pavement markings or reflectors.

32 17 16 00-0019	LF	2-1/4" High x 10-1/2" Wide, Asphalt Speed Bump	37.08	1.83
32 17 16 00-0020	LF	2-1/4" High x 12" Wide, Recycled Rubber Speed Bump	27.20	1.23
32 17 16 00-0021	LF	2-5/8" High x 12" Wide, Recycled Plastic Speed Bump	121.79	1.23

32 17 23 Pavement Markings (32 17)**32 17 23 13 Painted Pavement Markings (32 17 23)****32 17 23 13-0001 Minimum Charge For Pavement Striping (32 17 23 13)**

32 17 23 13-0002	EA	Pavement Striping Minimum Charge	381.24	
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32 17 23 13-0003 Striping, Letters, Symbols And Markers for Roads And Airports (32 17 23 13)

Note: Includes primers, adhesive and glass beads where required. For broken line quantities use total lane length. Per Coat.

32 17 23 13-0004 Epoxy Reflective Pavement Marking (32 17 23 13-0003)

Note: 15 mil thickness.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0005 LF Single 4" Wide Solid Line, Epoxy Reflective Pavement Striping.....	0.53	
<i>For 20 Mil Thickness, Add</i>	0.11	
<i>For Up To 5,000 LF, Add</i>	0.11	
<i>For >25,000 LF, Deduct</i>	-0.08	
<i>For Broken Line (25% Solid), Deduct</i>	-0.22	
32 17 23 13-0006 LF Single 6" Wide Solid Line, Epoxy Reflective Pavement Striping.....	0.74	
<i>For 20 Mil Thickness, Add</i>	0.16	
<i>For Up To 5,000 LF, Add</i>	0.15	
<i>For >25,000 LF, Deduct</i>	-0.11	
<i>For Broken Line (25% Solid), Deduct</i>	-0.33	
32 17 23 13-0007 LF Single 8" Wide Solid Line, Epoxy Reflective Pavement Striping.....	0.90	
<i>For 20 Mil Thickness, Add</i>	0.19	
<i>For Up To 5,000 LF, Add</i>	0.18	
<i>For >25,000 LF, Deduct</i>	-0.14	
<i>For Broken Line (25% Solid), Deduct</i>	-0.39	
32 17 23 13-0008 LF Single 12" Wide Solid Line, Epoxy Reflective Pavement Striping.....	1.34	
<i>For 20 Mil Thickness, Add</i>	0.31	
<i>For Up To 5,000 LF, Add</i>	0.27	
<i>For >25,000 LF, Deduct</i>	-0.20	
<i>For Broken Line (25% Solid), Deduct</i>	-0.64	
32 17 23 13-0009 LF Double 4" Wide Solid Lines, Epoxy Reflective Pavement Striping.....	0.81	
<i>For 20 Mil Thickness, Add</i>	0.20	
<i>For Up To 5,000 LF, Add</i>	0.16	
<i>For >25,000 LF, Deduct</i>	-0.12	
<i>For Broken Line On One Side, Deduct</i>	-0.21	
<i>For Double Broken Line, Deduct</i>	-0.43	
32 17 23 13-0010 LF Double 6" Wide Solid Lines, Epoxy Reflective Pavement Striping.....	1.15	
<i>For 20 Mil Thickness, Add</i>	0.30	
<i>For Up To 5,000 LF, Add</i>	0.23	
<i>For >25,000 LF, Deduct</i>	-0.17	
<i>For Broken Line On One Side, Deduct</i>	-0.32	
<i>For Double Broken Line, Deduct</i>	-0.64	
32 17 23 13-0011 SF Solid Area, Epoxy Reflective Pavement Marking.....	7.24	
<i>Note: Use this task for: lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.</i>		
<i>For 20 Mil Thickness, Add</i>	0.80	
32 17 23 13-0012 EA 6" High, Letter/Number, Epoxy Reflective Pavement Marking.....	4.52	
<i>For 20 Mil Thickness, Add</i>	0.40	
<i>For <10, Add</i>	0.59	
<i>For >50 To 100, Deduct</i>	-0.29	
<i>For >100 To 200, Deduct</i>	-0.39	
<i>For >200, Deduct</i>	-0.78	
32 17 23 13-0013 EA 12" High, Letter/Number, Epoxy Reflective Pavement Marking.....	8.11	
<i>For 20 Mil Thickness, Add</i>	1.03	
<i>For <10, Add</i>	0.89	
<i>For >50 To 100, Deduct</i>	-0.44	
<i>For >100 To 200, Deduct</i>	-0.59	
<i>For >200, Deduct</i>	-1.18	
32 17 23 13-0014 EA 24" High, Letter/Number, Epoxy Reflective Pavement Marking.....	13.68	
<i>For 20 Mil Thickness, Add</i>	1.78	
<i>For <10, Add</i>	1.47	
<i>For >50 To 100, Deduct</i>	-0.74	
<i>For >100 To 200, Deduct</i>	-0.98	
<i>For >200, Deduct</i>	-1.96	
32 17 23 13-0015 EA 36" High, Letter/Number, Epoxy Reflective Pavement Marking.....	26.40	
<i>For 20 Mil Thickness, Add</i>	3.24	
<i>For <10, Add</i>	2.94	
<i>For >50 To 100, Deduct</i>	-1.47	
<i>For >100 To 200, Deduct</i>	-1.96	
<i>For >200, Deduct</i>	-3.92	
32 17 23 13-0016 EA 48" High, Letter/Number, Epoxy Reflective Pavement Marking.....	30.84	
<i>For 20 Mil Thickness, Add</i>	4.04	
<i>For <10, Add</i>	3.30	
<i>For >50 To 100, Deduct</i>	-1.65	
<i>For >100 To 200, Deduct</i>	-2.20	
<i>For >200, Deduct</i>	-4.40	
32 17 23 13-0017 EA 72" High, Letter/Number, Epoxy Reflective Pavement Marking.....	55.28	
<i>For 20 Mil Thickness, Add</i>	7.33	
<i>For <10, Add</i>	5.88	
<i>For >50 To 100, Deduct</i>	-2.94	
<i>For >100 To 200, Deduct</i>	-3.92	
<i>For >200, Deduct</i>	-7.83	
32 17 23 13-0018 EA 96" High, Letter/Number, Epoxy Reflective Pavement Marking.....	73.79	
<i>For 20 Mil Thickness, Add</i>	9.69	
<i>For <10, Add</i>	7.89	
<i>For >50 To 100, Deduct</i>	-3.95	
<i>For >100 To 200, Deduct</i>	-5.26	
<i>For >200, Deduct</i>	-10.52	
32 17 23 13-0019 EA 120" High, Letter/Number, Epoxy Reflective Pavement Marking.....	112.48	
<i>For 20 Mil Thickness, Add</i>	19.03	
<i>For <10, Add</i>	9.78	
<i>For >50 To 100, Deduct</i>	-4.89	
<i>For >100 To 200, Deduct</i>	-6.52	
<i>For >200, Deduct</i>	-13.03	
32 17 23 13-0020 SF Letter/Number, Epoxy Reflective Pavement Marking.....	7.44	
<i>For 20 Mil Thickness, Add</i>	0.81	
32 17 23 13-0021 SF Symbols, Epoxy Reflective Pavement Marking.....	9.44	
<i>Note: Handicap, railroad, diamond, arrows, etc.</i>		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0022			Alkyd/Solvent Based/Latex Reflective Pavement Marking <small>(32 17 23 13-0003)</small> Note: 15 mil thickness.		
32 17 23 13-0023	LF		Single 4" Wide Solid Line, Painted Reflective Pavement Striping.....0.32 Note: Includes solvent based and latex paints.		
			<i>For Up To 5,000 LF, Add</i>	0.06	
			<i>For >25,000 LF, Deduct</i>	-0.05	
			<i>For Broken Line (25% Solid), Deduct</i>	-0.06	
32 17 23 13-0024	LF		Single 6" Wide Solid Line, Painted Reflective Pavement Striping.....0.41 Note: Includes solvent based and latex paints.		
			<i>For Up To 5,000 LF, Add</i>	0.08	
			<i>For >25,000 LF, Deduct</i>	-0.06	
			<i>For Broken Line (25% Solid), Deduct</i>	-0.08	
32 17 23 13-0025	LF		Single 8" Wide Solid Line, Painted Reflective Pavement Striping.....0.52 Note: Includes solvent based and latex paints.		
			<i>For Up To 5,000 LF, Add</i>	0.10	
			<i>For >25,000 LF, Deduct</i>	-0.08	
			<i>For Broken Line (25% Solid), Deduct</i>	-0.11	
32 17 23 13-0026	LF		Single 12" Wide Solid Line, Painted Reflective Pavement Striping.....0.70 Note: Includes solvent based and latex paints.		
			<i>For Up To 5,000 LF, Add</i>	0.14	
			<i>For >25,000 LF, Deduct</i>	-0.11	
			<i>For Broken Line (25% Solid), Deduct</i>	-0.16	
32 17 23 13-0027	LF		Double 4" Wide Solid Lines, Painted Reflective Pavement Striping.....0.47 <i>For Up To 5,000 LF, Add</i>	0.09	
			<i>For >25,000 LF, Deduct</i>	-0.07	
			<i>For Broken Line On One Side, Deduct</i>	-0.05	
			<i>For Double Broken Line, Deduct</i>	-0.11	
32 17 23 13-0028	LF		Double 6" Wide Solid Lines, Painted Reflective Pavement Striping.....0.70 <i>For Up To 5,000 LF, Add</i>	0.14	
			<i>For >25,000 LF, Deduct</i>	-0.11	
			<i>For Broken Line On One Side, Deduct</i>	-0.08	
			<i>For Double Broken Line, Deduct</i>	-0.16	
32 17 23 13-0029	SF		Solid Area, Painted Reflective Pavement Striping .....5.92 Note: Use this task for: lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
32 17 23 13-0030	EA		6" (15 cm) High, Letter/Number, Painted Reflective Pavement Marking.....4.26 Note: Includes solvent based and latex paints.		
			<i>For <10, Add</i>	0.59	
			<i>For >50 To 100, Deduct</i>	-0.29	
			<i>For >100 To 200, Deduct</i>	-0.39	
			<i>For >200, Deduct</i>	-0.78	
32 17 23 13-0031	EA		12" (31 cm) High, Letter/Number, Painted Reflective Pavement Marking.....7.19 Note: Includes solvent based and latex paints.		
			<i>For <10, Add</i>	0.89	
			<i>For >50 To 100, Deduct</i>	-0.44	
			<i>For >100 To 200, Deduct</i>	-0.59	
			<i>For >200, Deduct</i>	-1.18	
32 17 23 13-0032	EA		24" (61 cm) High, Letter/Number, Painted Reflective Pavement Marking.....12.06 Note: Includes solvent based and latex paints.		
			<i>For <10, Add</i>	1.47	
			<i>For >50 To 100, Deduct</i>	-0.74	
			<i>For >100 To 200, Deduct</i>	-0.98	
			<i>For >200, Deduct</i>	-1.96	
32 17 23 13-0033	EA		36" (91 cm) High, Letter/Number, Painted Reflective Pavement Marking.....23.56 Note: Includes solvent based and latex paints.		
			<i>For <10, Add</i>	2.94	
			<i>For >50 To 100, Deduct</i>	-1.47	
			<i>For >100 To 200, Deduct</i>	-1.96	
			<i>For >200, Deduct</i>	-3.92	
32 17 23 13-0034	EA		48" (122 cm) High, Letter/Number, Painted Reflective Pavement Marking.....27.14 Note: Includes solvent based and latex paints.		
			<i>For <10, Add</i>	3.30	
			<i>For >50 To 100, Deduct</i>	-1.65	
			<i>For >100 To 200, Deduct</i>	-2.20	
			<i>For >200, Deduct</i>	-4.40	
32 17 23 13-0035	EA		72" (183 cm) High, Letter/Number, Painted Reflective Pavement Marking.....48.53 Note: Includes solvent based and latex paints.		
			<i>For <10, Add</i>	5.88	
			<i>For >50 To 100, Deduct</i>	-2.94	
			<i>For >100 To 200, Deduct</i>	-3.92	
			<i>For >200, Deduct</i>	-7.83	
32 17 23 13-0036	EA		96" (244 cm) High, Letter/Number, Painted Reflective Pavement Marking.....64.92 Note: Includes solvent based and latex paints.		
			<i>For <10, Add</i>	7.89	
			<i>For >50 To 100, Deduct</i>	-3.95	
			<i>For >100 To 200, Deduct</i>	-5.26	
			<i>For >200, Deduct</i>	-10.52	
32 17 23 13-0037	EA		120" (305 cm) High, Letter/Number, Painted Reflective Pavement Marking.....92.66 Note: Includes solvent based and latex paints.		
			<i>For <10, Add</i>	9.78	
			<i>For >50 To 100, Deduct</i>	-4.89	
			<i>For >100 To 200, Deduct</i>	-6.52	
			<i>For >200, Deduct</i>	-13.03	
32 17 23 13-0038	SF		Letter/Number, Painted Reflective Pavement Marking .....6.80 Note: Includes solvent based and latex paints.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0039 SF Symbols, Painted Reflective Pavement Marking Note: Handicap, railroad, diamond, arrows, etc. Includes solvent based and latex paints.	8.13	
32 17 23 13-0040 Painted Reflective Pavement Marking (CALTRANS) (32 17 23 13)		
Note: Per LF of detail.		
32 17 23 13-0041 LF CALTRANS Detail 1 Centerline, Painted Reflective Pavement Striping For Up To 5,000 LF, Add For >25,000 LF, Deduct	0.26 0.05 -0.04	
32 17 23 13-0042 LF CALTRANS Detail 2 Centerline, Painted Reflective Pavement Striping For Up To 5,000 LF, Add For >25,000 LF, Deduct	0.39 0.08 -0.06	
32 17 23 13-0043 LF CALTRANS Detail 4 Centerline For Up To 5,000 LF, Add For >25,000 LF, Deduct	0.67 0.13 -0.10	
32 17 23 13-0044 LF CALTRANS Detail 5 Centerline, Painted Reflective Pavement Striping For Up To 5,000 LF, Add For >25,000 LF, Deduct	0.26 0.05 -0.04	
32 17 23 13-0045 LF CALTRANS Detail 6 Centerline, Painted Reflective Pavement Striping For Up To 5,000 LF, Add For >25,000 LF, Deduct	0.40 0.08 -0.06	
32 17 23 13-0046 LF CALTRANS Detail 7 Centerline For Up To 5,000 LF, Add For >25,000 LF, Deduct	0.48 0.10 -0.07	
32 17 23 13-0047 LF CALTRANS Detail 8 Lanelines, Painted Reflective Pavement Striping For Up To 5,000 LF, Add For >25,000 LF, Deduct	0.26 0.05 -0.04	
32 17 23 13-0048 LF CALTRANS Detail 9 Lanelines, Painted Reflective Pavement Striping For Up To 5,000 LF, Add For >25,000 LF, Deduct	0.39 0.08 -0.06	
32 17 23 13-0049 LF CALTRANS Detail 10 Lanelines For Up To 5,000 LF, Add For >25,000 LF, Deduct	0.67 0.13 -0.10	
32 17 23 13-0050 LF CALTRANS Detail 11 Lanelines, Painted Reflective Pavement Striping For Up To 5,000 LF, Add For >25,000 LF, Deduct	0.26 0.05 -0.04	
32 17 23 13-0051 LF CALTRANS Detail 12 Lanelines, Painted Reflective Pavement Striping For Up To 5,000 LF, Add For >25,000 LF, Deduct	0.39 0.08 -0.06	
32 17 23 13-0052 LF CALTRANS Detail 13 Lanelines For Up To 5,000 LF, Add For >25,000 LF, Deduct	0.48 0.10 -0.07	
32 17 23 13-0053 LF CALTRANS Detail 14 Lanelines For Up To 5,000 LF, Add For >25,000 LF, Deduct	0.48 0.10 -0.07	
32 17 23 13-0054 LF CALTRANS Detail 14A Lanelines, Painted Reflective Pavement Striping..... For Up To 5,000 LF, Add For >25,000 LF, Deduct	0.39 0.08 -0.06	
32 17 23 13-0055 LF CALTRANS Detail 15 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping..... For Up To 5,000 LF, Add For >25,000 LF, Deduct For Broken Line On One Side, Deduct For Double Broken Line, Deduct	0.35 0.07 -0.05 -0.04 -0.08	
32 17 23 13-0056 LF CALTRANS Detail 16 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping..... For Up To 5,000 LF, Add For >25,000 LF, Deduct	0.84 0.17 -0.13	
32 17 23 13-0057 LF CALTRANS Detail 17 No Passing Zones-One Direction Lanelines..... For Up To 5,000 LF, Add For >25,000 LF, Deduct	1.96 0.39 -0.29	
32 17 23 13-0058 LF CALTRANS Detail 18 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping..... For Up To 5,000 LF, Add For >25,000 LF, Deduct For Broken Line On One Side, Deduct For Double Broken Line, Deduct	0.35 0.07 -0.05 -0.04 -0.08	
32 17 23 13-0059 LF CALTRANS Detail 19 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping..... For Up To 5,000 LF, Add For >25,000 LF, Deduct	0.72 0.14 -0.11	
32 17 23 13-0060 LF CALTRANS Detail 20 No Passing Zones-One Direction Lanelines For Up To 5,000 LF, Add For >25,000 LF, Deduct	1.65 0.33 -0.25	
32 17 23 13-0061 LF CALTRANS Detail 21 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping..... For Up To 5,000 LF, Add For >25,000 LF, Deduct For Broken Line On One Side, Deduct For Double Broken Line, Deduct	0.41 0.08 -0.06 -0.06 -0.13	
32 17 23 13-0062 LF CALTRANS Detail 22 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping..... For Up To 5,000 LF, Add For >25,000 LF, Deduct	0.90 0.18 -0.14	
32 17 23 13-0063 LF CALTRANS Detail 23 No Passing Zones-Two Direction Lanelines For Up To 5,000 LF, Add For >25,000 LF, Deduct	2.32 0.46 -0.35	
32 17 23 13-0064 LF CALTRANS Detail 24 Left Edgelines, Painted Reflective Pavement Striping For Up To 5,000 LF, Add For >25,000 LF, Deduct	0.32 0.06 -0.05	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0065 LF CALTRANS Detail 25 Left Edgelines, Painted Reflective Pavement Striping.....	0.45	
For Up To 5,000 LF, Add	0.09	
For >25,000 LF, Deduct	-0.07	
32 17 23 13-0066 LF CALTRANS Detail 25A Left Edgelines, Painted Reflective Pavement Striping.....	0.57	
For Up To 5,000 LF, Add	0.11	
For >25,000 LF, Deduct	-0.09	
32 17 23 13-0067 LF CALTRANS Detail 26 Left Edgelines.....	0.12	
For Up To 5,000 LF, Add	0.02	
For >25,000 LF, Deduct	-0.02	
32 17 23 13-0068 LF CALTRANS Detail 27 Left Edgelines, Painted Reflective Pavement Striping.....	0.54	
For Up To 5,000 LF, Add	0.11	
For >25,000 LF, Deduct	-0.08	
32 17 23 13-0069 LF CALTRANS Detail 27B Right Edgelines, Painted Reflective Pavement Striping.....	0.32	
For Up To 5,000 LF, Add	0.06	
For >25,000 LF, Deduct	-0.05	
32 17 23 13-0070 LF CALTRANS Detail 27C Right Edgeline Extension Through Intersections, Painted Reflective Pavement Striping.....	0.26	
For Up To 5,000 LF, Add	0.05	
For >25,000 LF, Deduct	-0.04	
32 17 23 13-0071 LF CALTRANS Detail 28 Median Islands, Painted Reflective Pavement Striping.....	0.83	
For Up To 5,000 LF, Add	0.17	
For >25,000 LF, Deduct	-0.12	
For Broken Line On One Side, Deduct	-0.13	
For Double Broken Line, Deduct	-0.26	
32 17 23 13-0072 LF CALTRANS Detail 29 Median Islands, Painted Reflective Pavement Striping.....	1.31	
For Up To 5,000 LF, Add	0.26	
For >25,000 LF, Deduct	-0.20	
32 17 23 13-0073 LF CALTRANS Detail 30 Median Islands.....	4.65	
For Up To 5,000 LF, Add	0.93	
For >25,000 LF, Deduct	-0.70	
32 17 23 13-0074 LF CALTRANS Detail 31 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping.....	0.70	
For Up To 5,000 LF, Add	0.14	
For >25,000 LF, Deduct	-0.11	
For Broken Line On One Side, Deduct	-0.08	
For Double Broken Line, Deduct	-0.16	
32 17 23 13-0075 LF CALTRANS Detail 32 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping.....	1.31	
For Up To 5,000 LF, Add	0.26	
For >25,000 LF, Deduct	-0.20	
32 17 23 13-0076 LF CALTRANS Detail 33 Two-Way Left Turn Lanes.....	3.18	
For Up To 5,000 LF, Add	0.64	
For >25,000 LF, Deduct	-0.48	
32 17 23 13-0077 LF CALTRANS Detail 34 Intersection Treatments, Painted Reflective Pavement Striping.....	0.72	
For Up To 5,000 LF, Add	0.14	
For >25,000 LF, Deduct	-0.11	
32 17 23 13-0078 LF CALTRANS Detail 34A Intersection Treatments, Painted Reflective Pavement Striping.....	0.35	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.05	
32 17 23 13-0079 LF CALTRANS Detail 35 Intersection Treatments, Painted Reflective Pavement Striping.....	0.84	
For Up To 5,000 LF, Add	0.17	
For >25,000 LF, Deduct	-0.13	
32 17 23 13-0080 LF CALTRANS Detail 35A Intersection Treatments, Painted Reflective Pavement Striping.....	0.35	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.05	
32 17 23 13-0081 LF CALTRANS Detail 36 Exit Ramp Neutral Area (Gore) Treatment, Painted Reflective Pavement Striping.....	1.54	
For Up To 5,000 LF, Add	0.31	
For >25,000 LF, Deduct	-0.23	
32 17 23 13-0082 LF CALTRANS Detail 36A Entrance Ramp Neutral Area (Merge) Treatment, Painted Reflective Pavement Striping.....	1.02	
For Up To 5,000 LF, Add	0.20	
For >25,000 LF, Deduct	-0.15	
32 17 23 13-0083 LF CALTRANS Detail 36B Entrance Ramp Neutral Area (Acceleration Lane) Treatment, Painted Reflective Pavement Striping.....	1.09	
For Up To 5,000 LF, Add	0.22	
For >25,000 LF, Deduct	-0.16	
32 17 23 13-0084 LF CALTRANS Detail 37 Lane Drop At Exit Ramps, Painted Reflective Pavement Striping.....	0.95	
For Up To 5,000 LF, Add	0.19	
For >25,000 LF, Deduct	-0.14	
32 17 23 13-0085 LF CALTRANS Detail 37A Lane Drop At Exit Ramps.....	1.56	
For Up To 5,000 LF, Add	0.31	
For >25,000 LF, Deduct	-0.23	
32 17 23 13-0086 LF CALTRANS Detail 37B Lane Drop At Intersections, Painted Reflective Pavement Striping.....	0.95	
For Up To 5,000 LF, Add	0.19	
For >25,000 LF, Deduct	-0.14	
32 17 23 13-0087 LF CALTRANS Detail 37C Lane Drop At Intersections.....	1.56	
For Up To 5,000 LF, Add	0.31	
For >25,000 LF, Deduct	-0.23	
32 17 23 13-0088 LF CALTRANS Detail 38 Channelizing Line, Painted Reflective Pavement Striping.....	0.92	
For Up To 5,000 LF, Add	0.18	
For >25,000 LF, Deduct	-0.14	
32 17 23 13-0089 LF CALTRANS Detail 38A Channelizing Line, Painted Reflective Pavement Striping.....	0.67	
For Up To 5,000 LF, Add	0.13	
For >25,000 LF, Deduct	-0.10	
32 17 23 13-0090 LF CALTRANS Detail 38B Channelizing Line, Painted Reflective Pavement Striping.....	1.16	
For Up To 5,000 LF, Add	0.23	
For >25,000 LF, Deduct	-0.17	
32 17 23 13-0091 LF CALTRANS Detail 38C Channelizing Line.....	2.32	
For Up To 5,000 LF, Add	0.46	
For >25,000 LF, Deduct	-0.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0092 LF CALTRANS Detail 39 Bike Lane Line, Painted Reflective Pavement Striping.....	0.41	
<i>For Up To 5,000 LF, Add</i>	0.08	
<i>For >25,000 LF, Deduct</i>	-0.06	
32 17 23 13-0093 LF CALTRANS Detail 39A Intersection Line Bike Lane, Painted Reflective Pavement Striping.....	0.34	
<i>For Up To 5,000 LF, Add</i>	0.07	
<i>For >25,000 LF, Deduct</i>	-0.05	
32 17 23 13-0094 LF CALTRANS Detail 40 Lane Line Extensions Through Intersections, Painted Reflective Pavement Striping.....	0.25	
<i>For Up To 5,000 LF, Add</i>	0.05	
<i>For >25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0095 LF CALTRANS Detail 40A Lane Line Extensions Through Intersections	1.10	
<i>For Up To 5,000 LF, Add</i>	0.22	
<i>For >25,000 LF, Deduct</i>	-0.17	
32 17 23 13-0096 LF CALTRANS Detail 41 Center Line Extensions Through Intersections, Painted Reflective Pavement Striping.....	0.25	
<i>For Up To 5,000 LF, Add</i>	0.05	
<i>For >25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0097 LF CALTRANS Detail 41A Center Line Extensions Through Intersections.....	1.10	
<i>For Up To 5,000 LF, Add</i>	0.22	
<i>For >25,000 LF, Deduct</i>	-0.17	
32 17 23 13-0098 EA CALTRANS 10' Arrow, Type I, Painted Reflective Pavement Marking	108.23	
<i>For <10, Add</i>	14.29	
<i>For >50 To 100, Deduct</i>	-7.15	
<i>For >100 To 200, Deduct</i>	-9.53	
<i>For >200, Deduct</i>	-19.06	
32 17 23 13-0099 EA CALTRANS 18' Arrow, Type I, Painted Reflective Pavement Marking	189.87	
<i>For <10, Add</i>	25.01	
<i>For >50 To 100, Deduct</i>	-12.51	
<i>For >100 To 200, Deduct</i>	-16.68	
<i>For >200, Deduct</i>	-33.35	
32 17 23 13-0100 EA CALTRANS 24' Arrow, Type I, Painted Reflective Pavement Marking	238.30	
<i>For <10, Add</i>	31.44	
<i>For >50 To 100, Deduct</i>	-15.72	
<i>For >100 To 200, Deduct</i>	-20.96	
<i>For >200, Deduct</i>	-41.93	
32 17 23 13-0101 EA CALTRANS 24' Arrow With Single (L or R) Turn Arrow, Type II, Painted Reflective Pavement Marking	346.54	
<i>For <10, Add</i>	45.74	
<i>For >50 To 100, Deduct</i>	-22.87	
<i>For >100 To 200, Deduct</i>	-30.49	
<i>For >200, Deduct</i>	-60.98	
32 17 23 13-0102 EA CALTRANS 24' Arrow With Both (L and R) Turn Arrows, Type II, Painted Reflective Pavement Marking	454.78	
<i>For <10, Add</i>	60.03	
<i>For >50 To 100, Deduct</i>	-30.02	
<i>For >100 To 200, Deduct</i>	-40.02	
<i>For >200, Deduct</i>	-80.04	
32 17 23 13-0103 EA CALTRANS 24' Arrow Single (L or R) Turn Arrow, Type III, Painted Reflective Pavement Marking.....	319.94	
<i>For <10, Add</i>	42.16	
<i>For >50 To 100, Deduct</i>	-21.08	
<i>For >100 To 200, Deduct</i>	-28.11	
<i>For >200, Deduct</i>	-56.22	
32 17 23 13-0104 EA CALTRANS 24' Arrow Both (L and R) Turn Arrows, Type III, Painted Reflective Pavement Marking	558.25	
<i>For <10, Add</i>	73.61	
<i>For >50 To 100, Deduct</i>	-36.80	
<i>For >100 To 200, Deduct</i>	-49.07	
<i>For >200, Deduct</i>	-98.15	
32 17 23 13-0105 EA CALTRANS 8' Turn Arrow (L or R), Type IV, Painted Reflective Pavement Marking	113.92	
<i>For <10, Add</i>	15.01	
<i>For >50 To 100, Deduct</i>	-7.50	
<i>For >100 To 200, Deduct</i>	-10.01	
<i>For >200, Deduct</i>	-20.01	
32 17 23 13-0106 EA CALTRANS 24' Arrow, Type V, Painted Reflective Pavement Marking.....	249.68	
<i>For <10, Add</i>	32.87	
<i>For >50 To 100, Deduct</i>	-16.44	
<i>For >100 To 200, Deduct</i>	-21.92	
<i>For >200, Deduct</i>	-43.83	
32 17 23 13-0107 EA CALTRANS 18' Arrow, Type VI, Painted Reflective Pavement Marking.....	319.94	
<i>For <10, Add</i>	42.16	
<i>For >50 To 100, Deduct</i>	-21.08	
<i>For >100 To 200, Deduct</i>	-28.11	
<i>For >200, Deduct</i>	-56.22	
32 17 23 13-0108 EA CALTRANS 13' Arrow With Single (L or R) Turn Arrow, Type VII, Painted Reflective Pavement Marking.....	206.20	
<i>For <10, Add</i>	27.16	
<i>For >50 To 100, Deduct</i>	-13.58	
<i>For >100 To 200, Deduct</i>	-18.11	
<i>For >200, Deduct</i>	-36.21	
32 17 23 13-0109 EA CALTRANS 15' Arrow With Both (L and R) Turn Arrows, Type VIII, Painted Reflective Pavement Marking.....	271.52	
<i>For <10, Add</i>	35.73	
<i>For >50 To 100, Deduct</i>	-17.87	
<i>For >100 To 200, Deduct</i>	-23.82	
<i>For >200, Deduct</i>	-47.64	
32 17 23 13-0110 EA CALTRANS 5' Arrow, Bike Lane, Painted Reflective Pavement Marking	54.12	
<i>For <10, Add</i>	7.15	
<i>For >50 To 100, Deduct</i>	-3.57	
<i>For >100 To 200, Deduct</i>	-4.77	
<i>For >200, Deduct</i>	-9.53	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0111 EA CALTRANS Railroad Crossing Symbol, Painted Reflective Pavement Marking.....	517.36	
Note: Excludes variable width transverse lines.		
For <10, Add	67.89	
For >50 To 100, Deduct	-33.95	
For >100 To 200, Deduct	-45.26	
For >200, Deduct	-90.52	
32 17 23 13-0112 SF CALTRANS Solid Area, Painted Reflective Pavement Marking.....	6.74	
32 17 23 13-0113 EA CALTRANS Bike Lane Symbol Without Person, Painted Reflective Pavement Marking.....	49.52	
Note: Approximate overall dimensions: 4' width x 8' height.		
For <10, Add	5.15	
For >50 To 100, Deduct	-2.57	
For >100 To 200, Deduct	-3.43	
For >200, Deduct	-6.86	
32 17 23 13-0114 EA CALTRANS Bike Lane Symbol With Person, Painted Reflective Pavement Marking.....	52.43	
Note: Approximate overall dimensions: 4' width x 8' height.		
For <10, Add	5.43	
For >50 To 100, Deduct	-2.72	
For >100 To 200, Deduct	-3.62	
For >200, Deduct	-7.24	
32 17 23 13-0115 EA CALTRANS Diamond Symbol, Painted Reflective Pavement Marking.....	86.40	
For <10, Add	11.43	
For >50 To 100, Deduct	-5.72	
For >100 To 200, Deduct	-7.62	
For >200, Deduct	-15.25	
32 17 23 13-0116 EA CALTRANS International Symbol Of Accessibility (ISA) Marking, Painted Reflective Pavement Marking.....	175.63	
For <10, Add	23.15	
For >50 To 100, Deduct	-11.58	
For >100 To 200, Deduct	-15.44	
For >200, Deduct	-30.87	
32 17 23 13-0117 EA CALTRANS Bike Loop Detector Symbol, Painted Reflective Pavement Marking.....	37.98	
Note: Approximate overall dimensions: 4' width x 8' height.		
For <10, Add	5.43	
For >50 To 100, Deduct	-2.72	
For >100 To 200, Deduct	-3.62	
For >200, Deduct	-7.24	
32 17 23 13-0118 SF CALTRANS Letter/Number, Painted Reflective Pavement Marking	6.83	
32 17 23 13-0119 SF CALTRANS Symbols, Painted Reflective Pavement Marking	7.59	
Note: Handicap, railroad, diamond, arrows, etc.		
32 17 23 13-0120 Pavement Striping, Letters And Symbols For Parking Areas (32 17 23 13)		
Note: Includes primers. Per Coat.		
32 17 23 13-0121 Painted Pavement Marking For Parking Areas (32 17 23 13-0120)		
Note: 15 mil thickness.		
32 17 23 13-0122 LF Single 4" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.23	
32 17 23 13-0123 LF Single 6" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.34	
32 17 23 13-0124 LF Single 8" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.42	
32 17 23 13-0125 LF Single 12" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.59	
32 17 23 13-0126 SF Solid Area, Painted Pavement Marking For Parking Areas.....	5.89	
Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
32 17 23 13-0127 EA 6" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	4.15	
For Up To 10, Add	0.57	
For >50 To 100, Deduct	-0.29	
For >100 To 200, Deduct	-0.38	
For >200, Deduct	-0.76	
32 17 23 13-0128 EA 12" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	6.94	
For Up To 10, Add	0.86	
For >50 To 100, Deduct	-0.43	
For >100 To 200, Deduct	-0.57	
For >200, Deduct	-1.14	
32 17 23 13-0129 EA 24" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	11.69	
For Up To 10, Add	1.43	
For >50 To 100, Deduct	-0.71	
For >100 To 200, Deduct	-0.95	
For >200, Deduct	-1.91	
32 17 23 13-0130 EA 36" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	21.89	
For Up To 10, Add	2.72	
For >50 To 100, Deduct	-1.36	
For >100 To 200, Deduct	-1.81	
For >200, Deduct	-3.62	
32 17 23 13-0131 EA 42" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	29.13	
For Up To 10, Add	3.72	
For >50 To 100, Deduct	-1.86	
For >100 To 200, Deduct	-2.48	
For >200, Deduct	-4.95	
32 17 23 13-0132 EA 48" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas	35.43	
For Up To 10, Add	4.58	
For >50 To 100, Deduct	-2.29	
For >100 To 200, Deduct	-3.05	
For >200, Deduct	-6.10	
32 17 23 13-0133 EA 72" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas	47.11	
For Up To 10, Add	5.72	
For >50 To 100, Deduct	-2.86	
For >100 To 200, Deduct	-3.81	
For >200, Deduct	-7.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0134 EA Through Lane Arrow, Painted Pavement Marking For Parking Areas 82.45 Note: Approximate overall dimensions: 3-1/2' width x 10' height.	82.45	
32 17 23 13-0135 EA Turn Lane Arrow, Painted Pavement Marking For Parking Areas 93.54 Note: Approximate overall dimensions: 6' width x 8' height.	93.54	
32 17 23 13-0136 EA Dual Turn Lane Arrow, Painted Pavement Marking For Parking Areas 131.27 Note: Approximate overall dimensions: 11' width x 8' height.	131.27	
32 17 23 13-0137 EA Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas 133.83 Note: Approximate overall dimensions: 7' width x 13' height.	133.83	
32 17 23 13-0138 EA Dual Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas 173.25 Note: Approximate overall dimensions: 9' width x 15' height.	173.25	
32 17 23 13-0139 EA Handicap Symbol For Standard Parking Stalls, Painted Pavement Marking For Parking Areas 34.27 Note: Approximate overall dimensions: 2-2/3' width x 3' height. White or blue symbol. Excludes striping.	34.27	
<i>For Blue Background With White Symbol, Add</i>	24.48	
<i>For Blue Background With White Symbol And Border, Add</i>	30.60	
32 17 23 13-0140 EA Handicap Symbol For Van Parking Stalls, Painted Pavement Marking For Parking Areas 49.25 Note: Approximate overall dimensions: 4-1/3' width x 5' height. White or blue symbol. Excludes striping.	49.25	
<i>For Blue Background With White Symbol, Add</i>	49.09	
<i>For Blue Background With White Symbol And Border, Add</i>	61.37	
32 17 23 13-0141 Painted Curbs <small>(32 17 23 13)</small>		
Note: All colors.		
32 17 23 13-0142 LF Reflective Painted Curb 3.24	3.24	
32 17 23 13-0143 LF Reflective Painted Curb And Gutter 6.16	6.16	
32 17 23 13-0144 LF Painted Curb 2.62	2.62	
32 17 23 13-0145 LF Painted Curb And Gutter 5.61	5.61	
32 17 23 13-0146 Markings For Outdoor Play Areas, Courts <small>(32 17 23 13)</small>		
32 17 23 13-0147 LF 2" Wide Marking For Outdoor Play Areas 0.89	0.89	
32 17 23 13-0148 LF 3" Wide Marking For Outdoor Play Areas 1.00	1.00	
32 17 23 13-0149 LF 4" Wide Marking For Outdoor Play Areas 1.12	1.12	
32 17 23 13-0150 LF 6" Wide Marking For Outdoor Play Areas 1.32	1.32	
32 17 23 13-0151 EA Paint Playground Game Lines And Background On Asphalt Or Concrete (Hop Scotch, 4 Square, Numbers Games, Etcetera) 267.67	267.67	
32 17 23 23 Raised Pavement Markings <small>(32 17 23)</small>		
32 17 23 23-0001 Raised Pavement Markers (RPMs) <small>(32 17 23 23)</small>		
32 17 23 23-0002 EA One-Way Reflective, Raised Pavement Marker (RPM) 5.57 Note: Type G, H or R	5.57	2.41
<i>For >100, Deduct</i>	-0.56	
32 17 23 23-0003 EA Two-Way Reflective, Raised Pavement Marker (RPM) 5.89 Note: Type B, C, D, AC, RA or RR	5.89	2.41
<i>For >100, Deduct</i>	-0.59	
32 17 23 23-0004 EA 4" Diameter, Round Reflective, Raised Pavement Marker (RPM) 6.63 <i>For >100, Deduct</i>	6.63	2.41
<i>For >100, Deduct</i>	-0.66	
32 17 23 23-0005 EA 4" Diameter, Non-Reflective, Raised Pavement Marker (RPM) 5.16 Note: Type A or AY	5.16	2.41
<i>For >100, Deduct</i>	-0.52	
32 17 23 23-0006 Snowplowable Pavement Markers <small>(32 17 23 23)</small>		
32 17 23 23-0007 EA One-Way Reflective, Snowplowable Pavement Marker With Center Rail 69.44 Note: Type G, H or R	69.44	29.69
32 17 23 23-0008 EA Two-Way Reflective, Snowplowable Pavement Marker With Center Rail 69.72 Note: Type B, C, D, AC, RA or RR	69.72	29.69
32 17 23 23-0009 EA Removal And Replacement Of Reflector For One-Way Reflective, Recessed (Plowable) Pavement Marker 18.92	18.92	
32 17 23 23-0010 EA Removal And Replacement Of Reflectors For Two-Way Reflective, Recessed (Plowable) Pavement Marker 24.15	24.15	
32 17 23 33 Plastic Pavement Markings <small>(32 17 23)</small>		
32 17 23 33-0001 Thermoplastic Pavement Striping, Letters, Symbols And Markers For Roads <small>(32 17 23 33)</small>		
Note: Includes primers, adhesive and glass beads where required. For broken line modifier quantity use total lane length.		
32 17 23 33-0002 Thermoplastic Reflective Pavement Marking <small>(32 17 23 33-0001)</small>		
Note: 90 mil thickness.		
32 17 23 33-0003 LF Single 4" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping 1.35 <i>For Up To 5,000 LF, Add</i>	1.35	0.27
<i>For >25,000 LF, Deduct</i>	-0.20	
<i>For 60 mils Thick, Deduct</i>	-0.18	
<i>For 125 mils Thick, Add</i>	0.23	
<i>For Broken Line (25% Solid), Deduct</i>	-0.77	
32 17 23 33-0004 LF Single 6" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping 1.93 Note: Includes yellow or white.	1.93	
<i>For Up To 5,000 LF, Add</i>	0.39	
<i>For >25,000 LF, Deduct</i>	-0.29	
<i>For 60 mils Thick, Deduct</i>	-0.27	
<i>For 125 mils Thick, Add</i>	0.34	
<i>For Broken Line (25% Solid), Deduct</i>	-1.15	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0005	LF		Single 8" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	2.55	
			Note: Includes yellow or white.		
			For Up To 5,000 LF, Add	0.51	
			For >25,000 LF, Deduct	-0.38	
			For 60 mils Thick, Deduct	-0.36	
			For 125 mils Thick, Add	0.46	
			For Broken Line (25% Solid), Deduct	-1.53	
32 17 23 33-0006	LF		Single 12" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	3.72	
			Note: Includes yellow or white.		
			For Up To 5,000 LF, Add	0.74	
			For >25,000 LF, Deduct	-0.56	
			For 60 mils Thick, Deduct	-0.54	
			For 125 mils Thick, Add	0.69	
			For Broken Line (25% Solid), Deduct	-2.30	
32 17 23 33-0007	LF		Double 4" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	2.53	
			Note: Includes yellow or white.		
			For Up To 5,000 LF, Add	0.51	
			For >25,000 LF, Deduct	-0.38	
			For 60 mils Thick, Deduct	-0.36	
			For 125 mils Thick, Add	0.46	
			For Broken Line On One Side, Deduct	-0.77	
			For Double Broken Line, Deduct	-1.53	
32 17 23 33-0008	LF		Double 6" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	3.72	
			Note: Includes yellow or white.		
			For Up To 5,000 LF, Add	0.74	
			For >25,000 LF, Deduct	-0.56	
			For 60 mils Thick, Deduct	-0.54	
			For 125 mils Thick, Add	0.69	
			For Broken Line On One Side, Deduct	-1.15	
			For Double Broken Line, Deduct	-2.30	
32 17 23 33-0009	SF		Solid Area, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	8.75	
			Note: Includes yellow or white.		
			For 60 mils Thick, Deduct	-0.53	
			For 125 mils Thick, Add	0.68	
32 17 23 33-0010	EA		6" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	5.77	
			For Up To 10, Add	0.64	
			For >50 To 100, Deduct	-0.32	
			For >100 To 200, Deduct	-0.43	
			For >200, Deduct	-0.86	
			For 60 mils Thick, Deduct	-0.26	
			For 125 mils Thick, Add	0.33	
32 17 23 33-0011	EA		12" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	11.84	
			For Up To 10, Add	0.97	
			For >50 To 100, Deduct	-0.49	
			For >100 To 200, Deduct	-0.65	
			For >200, Deduct	-1.30	
			For 60 mils Thick, Deduct	-0.94	
			For 125 mils Thick, Add	1.21	
32 17 23 33-0012	EA		24" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	20.15	
			For Up To 10, Add	1.62	
			For >50 To 100, Deduct	-0.81	
			For >100 To 200, Deduct	-1.08	
			For >200, Deduct	-2.15	
			For 60 mils Thick, Deduct	-1.64	
			For 125 mils Thick, Add	2.11	
32 17 23 33-0013	EA		36" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	38.12	
			For Up To 10, Add	3.24	
			For >50 To 100, Deduct	-1.62	
			For >100 To 200, Deduct	-2.16	
			For >200, Deduct	-4.33	
			For 60 mils Thick, Deduct	-2.89	
			For 125 mils Thick, Add	3.71	
32 17 23 33-0014	EA		48" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	45.64	
			For Up To 10, Add	3.63	
			For >50 To 100, Deduct	-1.82	
			For >100 To 200, Deduct	-2.42	
			For >200, Deduct	-4.84	
			For 60 mils Thick, Deduct	-3.75	
			For 125 mils Thick, Add	4.82	
32 17 23 33-0015	EA		72" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	82.24	
			For Up To 10, Add	6.46	
			For >50 To 100, Deduct	-3.23	
			For >100 To 200, Deduct	-4.31	
			For >200, Deduct	-8.61	
			For 60 mils Thick, Deduct	-6.85	
			For 125 mils Thick, Add	8.81	
32 17 23 33-0016	EA		96" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	109.38	
			For Up To 10, Add	8.68	
			For >50 To 100, Deduct	-4.34	
			For >100 To 200, Deduct	-5.78	
			For >200, Deduct	-11.57	
			For 60 mils Thick, Deduct	-9.02	
			For 125 mils Thick, Add	11.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0017 EA 120" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	186.70	
<i>For Up To 10, Add</i>	10.75	
<i>For >50 To 100, Deduct</i>	-5.37	
<i>For >100 To 200, Deduct</i>	-7.17	
<i>For >200, Deduct</i>	-14.33	
<i>For 60 mils Thick, Deduct</i>	-20.13	
<i>For 125 mils Thick, Add</i>	25.88	
32 17 23 33-0018 SF Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	10.19	
<i>For 60 mils Thick, Deduct</i>	-0.65	
<i>For 125 mils Thick, Add</i>	0.83	
32 17 23 33-0019 SY Cross Hatch, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	30.66	
<i>Note: Per SY of area.</i>		
<i>For 60 mils Thick, Deduct</i>	-1.20	
<i>For 125 mils Thick, Add</i>	1.54	
32 17 23 33-0020 EA Handicap Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	267.25	
<i>For 60 mils Thick, Deduct</i>	-14.94	
<i>For 125 mils Thick, Add</i>	19.20	
32 17 23 33-0021 EA Railroad Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	793.37	
<i>For 60 mils Thick, Deduct</i>	-45.46	
<i>For 125 mils Thick, Add</i>	58.45	
32 17 23 33-0022 EA Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	155.65	
<i>Note: Approximate overall dimensions: 4' width x 8' height.</i>		
<i>For 60 mils Thick, Deduct</i>	-20.57	
<i>For 125 mils Thick, Add</i>	26.45	
32 17 23 33-0023 EA Diamond Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	127.82	
<i>For 60 mils Thick, Deduct</i>	-7.14	
<i>For 125 mils Thick, Add</i>	9.18	
32 17 23 33-0024 SF Symbols, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	11.62	
<i>Note: Handicap, railroad, diamond, arrows, etc.</i>		
<i>For 60 mils Thick, Deduct</i>	-0.65	
<i>For 125 mils Thick, Add</i>	0.83	
32 17 23 33-0025 EA 10' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	162.67	
<i>For 60 mils Thick, Deduct</i>	-9.09	
<i>For 125 mils Thick, Add</i>	11.69	
32 17 23 33-0026 EA 18' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	290.50	
<i>For 60 mils Thick, Deduct</i>	-16.24	
<i>For 125 mils Thick, Add</i>	20.88	
32 17 23 33-0027 EA 24' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	360.22	
<i>For 60 mils Thick, Deduct</i>	-20.13	
<i>For 125 mils Thick, Add</i>	25.88	
32 17 23 33-0028 EA 24' Arrow With Single (L or R) Turn Arrow, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	522.89	
<i>For 60 mils Thick, Deduct</i>	-29.23	
<i>For 125 mils Thick, Add</i>	37.58	
32 17 23 33-0029 EA 24' Arrow With Both (L and R) Turn Arrows, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	685.57	
<i>For 60 mils Thick, Deduct</i>	-38.32	
<i>For 125 mils Thick, Add</i>	49.26	
32 17 23 33-0030 EA 24' Arrow Single (L or R) Turn Arrow, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	488.02	
<i>For 60 mils Thick, Deduct</i>	-27.28	
<i>For 125 mils Thick, Add</i>	35.07	
32 17 23 33-0031 EA 24' Arrow Both (L and R) Turn Arrows, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	848.25	
<i>For 60 mils Thick, Deduct</i>	-47.41	
<i>For 125 mils Thick, Add</i>	60.95	
32 17 23 33-0032 EA 8' Turn Arrow (L or R), Type IV, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	174.30	
<i>For 60 mils Thick, Deduct</i>	-9.74	
<i>For 125 mils Thick, Add</i>	12.53	
32 17 23 33-0033 EA 24' Arrow, Type V, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	383.45	
<i>For 60 mils Thick, Deduct</i>	-21.43	
<i>For 125 mils Thick, Add</i>	27.55	
32 17 23 33-0034 EA 18' Arrow, Type VI, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	488.02	
<i>For 60 mils Thick, Deduct</i>	-27.28	
<i>For 125 mils Thick, Add</i>	35.07	
32 17 23 33-0035 EA 13' Arrow With Single (L or R) Turn Arrow, Type VII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	313.74	
<i>For 60 mils Thick, Deduct</i>	-17.54	
<i>For 125 mils Thick, Add</i>	22.55	
32 17 23 33-0036 EA 15' Arrow With Both (L and R) Turn Arrows, Type VIII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	418.32	
<i>For 60 mils Thick, Deduct</i>	-23.38	
<i>For 125 mils Thick, Add</i>	30.06	
32 17 23 33-0037 EA 5' Arrow, Bike Lane, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	81.34	
<i>For 60 mils Thick, Deduct</i>	-4.55	
<i>For 125 mils Thick, Add</i>	5.85	
32 17 23 33-0038 Thermoplastic Reflective Pavement Striping By Hand For Repairs (32 17 23 33-0001)	3.03	
LF Single 4" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	3.03	
<i>For 60 mils Thick, Deduct</i>	-0.18	
<i>For 125 mils Thick, Add</i>	0.23	
LF Single 6" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	3.83	
<i>For 60 mils Thick, Deduct</i>	-0.27	
<i>For 125 mils Thick, Add</i>	0.34	
LF Single 8" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	4.71	
<i>For 60 mils Thick, Deduct</i>	-0.36	
<i>For 125 mils Thick, Add</i>	0.46	
LF Single 12" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	6.77	
<i>For 60 mils Thick, Deduct</i>	-0.54	
<i>For 125 mils Thick, Add</i>	0.69	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0043 LF Single 24" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs	12.13	
For 60 mils Thick, Deduct	-1.07	
For 125 mils Thick, Add	1.37	
32 17 23 33-0044 Preformed, Patterned Reflective Pavement Marking Tape (32 17 23 33-0001)		
Note: Applied with pressure sensitive adhesive. Includes adhesive. 60 mil thickness. (3M Stamark 380 Series).		
32 17 23 33-0045 LF Single 4" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping	2.84	
Note: Includes yellow or white.		
For Up To 5,000 LF, Add	0.57	
For >25,000 LF, Deduct	-0.43	
32 17 23 33-0046 LF Single 6" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping	4.19	
Note: Includes yellow or white.		
For Up To 5,000 LF, Add	0.84	
For >25,000 LF, Deduct	-0.63	
32 17 23 33-0047 LF Single 8" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping	5.56	
Note: Includes yellow or white.		
For Up To 5,000 LF, Add	1.11	
For >25,000 LF, Deduct	-0.83	
32 17 23 33-0048 LF Single 12" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping	8.24	
Note: Includes yellow or white.		
For Up To 5,000 LF, Add	1.65	
For >25,000 LF, Deduct	-1.24	
32 17 23 33-0049 SF Solid Area, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Marking Tape	23.10	
Note: Includes yellow or white.		
32 17 23 33-0050 EA 6" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	34.26	
For <10, Add	1.17	
For >50 To 100, Deduct	-0.59	
For >100 To 200, Deduct	-0.78	
For >200, Deduct	-1.56	
32 17 23 33-0051 EA 12" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	60.25	
For <10, Add	1.49	
For >50 To 100, Deduct	-0.74	
For >100 To 200, Deduct	-0.99	
For >200, Deduct	-1.98	
32 17 23 33-0052 EA 24" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	103.66	
For <10, Add	2.94	
For >50 To 100, Deduct	-1.47	
For >100 To 200, Deduct	-1.96	
For >200, Deduct	-3.92	
32 17 23 33-0053 EA 36" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	150.34	
For <10, Add	5.89	
For >50 To 100, Deduct	-2.94	
For >100 To 200, Deduct	-3.93	
For >200, Deduct	-7.85	
32 17 23 33-0054 EA 48" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	176.09	
For <10, Add	6.60	
For >50 To 100, Deduct	-3.30	
For >100 To 200, Deduct	-4.40	
For >200, Deduct	-8.80	
32 17 23 33-0055 EA 72" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	226.78	
For <10, Add	11.75	
For >50 To 100, Deduct	-5.87	
For >100 To 200, Deduct	-7.83	
For >200, Deduct	-15.67	
32 17 23 33-0056 EA 96" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	289.47	
For <10, Add	15.78	
For >50 To 100, Deduct	-7.89	
For >100 To 200, Deduct	-10.52	
For >200, Deduct	-21.04	
32 17 23 33-0057 EA 120" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	362.75	
For <10, Add	19.55	
For >50 To 100, Deduct	-9.78	
For >100 To 200, Deduct	-13.04	
For >200, Deduct	-26.07	
32 17 23 33-0058 SF Preformed Arrow, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	23.87	
32 17 23 33-0059 SF Preformed Symbol, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	25.30	
Note: Handicap, railroad, diamond symbol, etc.		
32 17 23 33-0060 Preformed, Thermoplastic Reflective Pavement Marking (32 17 23 33-0001)		
Note: Heat applied. (Flint PreMark or HotTape Series).		
32 17 23 33-0061 EA Preformed Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	327.11	
Note: Approximate overall dimensions: 4' width x 8' height.		
32 17 23 33-0062 EA Preformed Railroad Crossing Symbol, 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	866.85	
Note: Approximate overall dimensions: 8' width x 20' height. Excludes transverse lines.		
32 17 23 33-0063 EA Preformed Preferential Lane Symbol (Diamond), 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	176.17	
Note: Approximate overall dimensions: 3-1/4' width x 13' height.		
32 17 23 33-0064 EA 6' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	150.20	
Note: Approximate overall dimensions: 2' width x 6' height.		
32 17 23 33-0065 EA 9-1/2' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	286.60	
Note: Approximate overall dimensions: 3-1/4' width x 9-1/2' height.		
32 17 23 33-0066 EA 4' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape	173.03	
Note: Approximate overall dimensions: 3' width x 4' height.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0067 EA 8' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape 318.38 Note: Approximate overall dimensions: 6' width x 8' height.	318.38	
32 17 23 33-0068 EA Preformed Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape..... 540.23 Note: Approximate overall dimensions: 7-1/4' width x 12-3/4' height.	540.23	
32 17 23 33-0069 EA Preformed Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape 810.32 Note: Approximate overall dimensions: 11-1/4' width x 13-1/4' height.	810.32	
32 17 23 33-0070 EA Preformed Elongated Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape 295.93 Note: Approximate overall dimensions: 1-2/3' width x 12' height.	295.93	
32 17 23 33-0071 EA Preformed Elongated Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape 327.71 Note: Approximate overall dimensions: 3' width x 12' height.	327.71	
32 17 23 33-0072 EA Preformed Elongated Dual Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape..... 598.27 Note: Approximate overall dimensions: 5-1/2' width x 12' height.	598.27	
32 17 23 33-0073 EA Preformed Elongated Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape 550.71 Note: Approximate overall dimensions: 3-1/2' width x 20' height.	550.71	
32 17 23 33-0074 EA Preformed Elongated Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape..... 553.57 Note: Approximate overall dimensions: 5-1/2' width x 20' height.	553.57	
32 17 23 33-0075 EA Preformed Lane-Reduction Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape 757.13 Note: Approximate overall dimensions: 5-1/2' width x 18' height.	757.13	
32 17 23 33-0076 Pavement Marking (Monterey County) (32 17 23 33-0001)		
32 17 23 33-0077 SF Thermoplastic Pavement Marking (Monterey County)..... 8.98	8.98	
32 17 23 33-0078 Thermoplastic Pavement Striping, Letters And Symbols For Parking Areas (32 17 23 33)		
32 17 23 33-0079 Thermoplastic Pavement Marking Symbols For Parking Areas (32 17 23 33-0078) Note: Heat applied. (Flint PreMark Series).		
32 17 23 33-0080 EA 28" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas 112.97 Note: White or blue symbol. Excludes striping.	112.97	
32 17 23 33-0081 EA 39" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas 415.70	415.70	
32 17 23 33-0082 EA 40" x 40" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas 237.18 Note: White symbol on blue background. Excludes striping.	237.18	
32 17 23 33-0083 EA 45" x 45" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas 284.35 Note: White symbol on blue background. Excludes striping.	284.35	
32 17 23 33-0084 EA 48" x 48" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas 297.92	297.92	
32 17 26 Tactile Warning Surfaces (32 17)		
32 17 26 00-0001 Vitrified Polymer Composite (VPC); (Armor Tile) (32 17 26) Note: Truncated dome, raised strips or directional bars. All colors.		
32 17 26 00-0002 SF Surface Applied VPC Truncated Dome Detectable Warning Surface 66.19	66.19	9.41
32 17 26 00-0003 SF Embedded, VPC Truncated Dome Detectable Warning Surface 53.96 Note: Also raised strips or directional bars. All colors.	53.96	9.41
32 17 26 00-0004 EA 30.5" x 24" x 2" Precast Concrete Truncated Dome Panel Set In Thinset 367.14	367.14	
32 17 26 00-0005 LF 24" Wide Temporary Truncated Dome Strips, Screw Down Only Into Asphalt Or Concrete 90.34	90.34	18.81
32 17 26 00-0006 Fiber-Reinforced, Polymermodified Cement And Coated With Acrylic Resin Emulsion (SatetyStep TD) (32 17 26) Note: Pre-molded tactile dome sheet. All colors.		
32 17 26 00-0007 SF Up To 15 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT) 75.00 Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 top coat sealer and SSTD-1250 finish . All colors. 2' or 3' width.	75.00	9.41
32 17 26 00-0008 SF >15 To 36 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT) 66.54 Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 top coat sealer and SSTD-1250 finish . All colors. 2' or 3' width.	66.54	9.41
32 18 Athletic and Recreational Surfacing (32 10)		
32 18 16 Synthetic Resilient Surfacing (32 18)		
32 18 16 13 Playground Protective Surfacing (32 18 16)		
32 18 16 13-0001 Tile Playground Surface Material (32 18 16 13) Note: Black. With or without channel bottom. Includes transition section and curbs. Excludes sub base.		
32 18 16 13-0002 SF 1-3/4" Thick, Resilient Rubber Tile Playground Surfacing 19.18	19.18	2.18
<i>For Manufacturer's Standard Colors, Add</i>	1.14	
<i>For Interlocking Tiles, Add</i>	2.53	
<i>For Mechanically Fastened, Add</i>	1.71	
<i>For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add</i>	1.50	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 18 Athletic and Recreational Surfacing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 16 13-0003 SF 2" Thick, Resilient Rubber Tile Playground Surfacing.....	19.59	2.31
For Manufacturer's Standard Colors, Add	1.14	
For Interlocking Tiles, Add	2.53	
For Mechanically Fastened, Add	1.79	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0004 SF 2-1/4" Thick, Resilient Rubber Tile Playground Surfacing.....	20.41	2.58
For Manufacturer's Standard Colors, Add	1.14	
For Interlocking Tiles, Add	2.53	
For Mechanically Fastened, Add	1.95	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0005 SF 2-1/2" Thick, Resilient Rubber Tile Playground Surfacing.....	21.23	2.86
For Manufacturer's Standard Colors, Add	1.14	
For Interlocking Tiles, Add	2.53	
For Mechanically Fastened, Add	2.12	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0006 SF 2-3/4" Thick, Resilient Rubber Tile Playground Surfacing.....	23.67	3.13
For Manufacturer's Standard Colors, Add	0.86	
For Interlocking Tiles, Add	2.86	
For Mechanically Fastened, Add	2.28	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0007 SF 3" Thick, Resilient Rubber Tile Playground Surfacing.....	24.58	3.43
For Manufacturer's Standard Colors, Add	0.86	
For Interlocking Tiles, Add	2.86	
For Mechanically Fastened, Add	2.46	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0008 SF 3-1/4" Thick, Resilient Rubber Tile Playground Surfacing.....	25.52	3.74
For Manufacturer's Standard Colors, Add	0.86	
For Interlocking Tiles, Add	2.86	
For Mechanically Fastened, Add	2.65	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0009 SF 3-1/2" Thick, Resilient Rubber Tile Playground Surfacing.....	28.02	4.00
For Manufacturer's Standard Colors, Add	0.48	
For Interlocking Tiles, Add	3.19	
For Mechanically Fastened, Add	2.82	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0010 SF 3-3/4" Thick, Resilient Rubber Tile Playground Surfacing.....	28.84	4.32
For Manufacturer's Standard Colors, Add	0.48	
For Interlocking Tiles, Add	3.19	
For Mechanically Fastened, Add	2.98	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0011 SF 4" Thick, Resilient Rubber Tile Playground Surfacing.....	29.74	4.57
For Manufacturer's Standard Colors, Add	0.48	
For Interlocking Tiles, Add	3.19	
For Mechanically Fastened, Add	3.16	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0012 SF 4-1/2" Thick, Resilient Rubber Tile Playground Surfacing.....	34.20	5.14
For Manufacturer's Standard Colors, Add	0.47	
For Interlocking Tiles, Add	3.74	
For Mechanically Fastened, Add	3.50	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0013 Loose Laid Playground Surface Material <small>(32 18 16 13)</small>		
Note: Excludes sub base.		
32 18 16 13-0014 SF 3" Loose Laid Wood Fiber Safety Playground Surfacing	1.71	0.32
32 18 16 13-0015 SF 6" Loose Laid Wood Fiber Safety Playground Surfacing	2.30	0.40
32 18 16 13-0016 SF 9" Loose Laid Wood Fiber Safety Playground Surfacing	2.96	0.49
32 18 16 13-0017 SF 12" Loose Laid Wood Fiber Safety Playground Surfacing	4.18	0.74
32 18 16 13-0018 SF 3" Loose Laid Synthetic Fiber Safety Playground Surfacing	3.10	0.32
32 18 16 13-0019 SF 6" Loose Laid Synthetic Fiber Safety Playground Surfacing	3.82	0.40
32 18 16 13-0020 SF 9" Loose Laid Synthetic Fiber Safety Playground Surfacing	6.13	0.49
32 18 16 13-0021 SF 12" Loose Laid Synthetic Fiber Safety Playground Surfacing	7.49	0.74
32 18 16 13-0022 SF 8" FIBAR System Playground Surfacing.....	11.11	1.22
Note: Includes drainage system on 6" centers, felt, edge railing and 8" wood fiber.		
32 18 16 13-0023 SF 12" FIBAR System Playground Surfacing.....	14.06	1.63
Note: Includes drainage system on 6" centers, felt, edge railing and 12" wood fiber.		
32 18 16 13-0024 Poured In Place Playground Surfacing <small>(32 18 16 13)</small>		
Note: Includes SBR base mat, 100% color ethylene propylene diene monomer (EPDM) top surface and 5 year warranty. Includes primer for base mat and top surface. Includes all colors. Excludes base preparation.		
32 18 16 13-0025 SF 1-3/4" Thick, Up To 4' Critical Fall Height, Poured In Place Rubber Playground Surfacing	15.58	2.52
For Up To 2,000, Add	3.33	
For >2,000 To 3,000, Add	2.34	
For >3,000 To 4,000, Add	1.59	
For >4,000 To 5,000, Add	1.01	
For >5,000 To 7,000, Add	0.42	
For Aliphatic (Non Yellowing) Binder, Add	3.96	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 16 13-0026 SF 2" Thick, 5' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	16.08	2.79
For Up To 2,000, Add	3.44	
For >2,000 To 3,000, Add	2.42	
For >3,000 To 4,000, Add	1.64	
For >4,000 To 5,000, Add	1.05	
For >5,000 To 7,000, Add	0.43	
For Aliphatic (Non Yellowing) Binder, Add	3.96	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.55	
32 18 16 13-0027 SF 2-1/2" Thick, 6' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	17.35	3.19
For Up To 2,000, Add	3.71	
For >2,000 To 3,000, Add	2.61	
For >3,000 To 4,000, Add	1.77	
For >4,000 To 5,000, Add	1.13	
For >5,000 To 7,000, Add	0.47	
For Aliphatic (Non Yellowing) Binder, Add	3.96	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.55	
32 18 16 13-0028 SF 3" Thick, 7' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	18.75	3.39
For Up To 2,000, Add	4.01	
For >2,000 To 3,000, Add	2.82	
For >3,000 To 4,000, Add	1.91	
For >4,000 To 5,000, Add	1.22	
For >5,000 To 7,000, Add	0.51	
For Aliphatic (Non Yellowing) Binder, Add	3.96	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.55	
32 18 16 13-0029 SF 3-1/2" Thick, 8' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	20.13	3.57
For Up To 2,000, Add	4.30	
For >2,000 To 3,000, Add	3.02	
For >3,000 To 4,000, Add	2.06	
For >4,000 To 5,000, Add	1.31	
For >5,000 To 7,000, Add	0.54	
For Aliphatic (Non Yellowing) Binder, Add	3.96	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.55	
32 18 16 13-0030 SF 4" Thick, 9' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	21.30	3.78
For Up To 2,000, Add	4.55	
For >2,000 To 3,000, Add	3.20	
For >3,000 To 4,000, Add	2.17	
For >4,000 To 5,000, Add	1.39	
For >5,000 To 7,000, Add	0.57	
For Aliphatic (Non Yellowing) Binder, Add	3.96	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.55	
32 18 16 13-0031 SF 4-1/2" Thick, 10' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	22.69	3.98
For Up To 2,000, Add	4.85	
For >2,000 To 3,000, Add	3.41	
For >3,000 To 4,000, Add	2.32	
For >4,000 To 5,000, Add	1.48	
For >5,000 To 7,000, Add	0.61	
For Aliphatic (Non Yellowing) Binder, Add	3.96	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.55	
32 18 16 13-0032 SF 5-1/2" Thick, 12' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	25.46	4.46
For Up To 2,000, Add	5.44	
For >2,000 To 3,000, Add	3.82	
For >3,000 To 4,000, Add	2.60	
For >4,000 To 5,000, Add	1.66	
For >5,000 To 7,000, Add	0.69	
For Aliphatic (Non Yellowing) Binder, Add	3.96	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.55	
32 18 16 13-0033 SF 1/2" Top Only, Poured In Place Playground Surfacing	10.18	
Note: Not used with new surfacing system tasks.		
For Up To 2,000, Add	3.30	
For >2,000 To 3,000, Add	2.13	
For >3,000 To 4,000, Add	1.29	
For >4,000 To 5,000, Add	0.78	
For >5,000 To 7,000, Add	0.35	
For Aliphatic (Non Yellowing) Binder, Add	3.96	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.55	
32 18 16 13-0034 EA Simple Graphics Including Hopscotch, Four Square Or Geometric Shapes (5 Per 1,000 SF) For Poured In Place Playground Surfacing.....	2,479.02	
32 18 16 13-0035 Synthetic Playground Turf (Sporturf) <small>(32 18 16 13)</small>		
Note: Excludes base preparation, aggregate, or drainage.		
32 18 16 13-0036 SF 60 OZ/SY Face Weight, Tufted Polyethylene Monofilament Classic Spine/ Texturized Polypropylene Synthetic Turf (Sporturf PL929).....	9.64	
32 18 16 13-0037 SF 71 OZ/SY Face Weight, Tufted Polyethylene Monofilament Classic Spine/ Texturized Polypropylene Synthetic Turf (Mirage PL906)	8.46	
32 18 16 13-0038 SF 2" Foam Padding (Sporturf)	5.45	
32 18 16 13-0039 CF Sand/Ruber Infill (Sporturf)	49.23	

32 18 23 Athletic Surfacing (32 18)

32 18 23 13 Baseball Field Surfacing (32 18 23)

32 18 23 13-0001 Clay Infield Maintenance (32 18 23 13)

32 18 23 13-0002	MSF Playing Field Maintenance (Clay - Nail Drag)	10.56
32 18 23 13-0003	MSF Playing Field Maintenance (Clay - Screen Drag)	10.56

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 18 Athletic and Recreational Surfacing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 13-0004 CY Playing Field Maintenance Of Clay	98.02	
32 18 23 13-0005 Ton Medium Pro Baseball Infield Mix (Diamond Select 60/40 Pro Infield Mix).....	167.40	
32 18 23 23 Field Sport Surfacing (32 18 23)		
32 18 23 23-0001 Turf Field Maintenance (32 18 23 23)		
32 18 23 23-0002 ACR Turf Aeration (Minimum 6" Penetration).....	142.25	
32 18 23 23-0003 MSF Top Dressing 1/8" - 1/4" Sand.....	13.56	
32 18 23 23-0004 BAG Envirofill, 50 LB Bag.....	106.84	
32 18 23 29 Synthetic Field Sport Surfacing (32 18 23)		
32 18 23 29-0001 Synthetic Turf (32 18 23 29)		
32 18 23 29-0002 Synthetic Turf (AstroTurf) (32 18 23 29-0001) Note: Includes labor, equipment and material required to install the task.		
32 18 23 29-0003 Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT) (32 18 23 29-0002)		
32 18 23 29-0004 38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 38) (32 18 23 29-0003)		
32 18 23 29-0005 SF 38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 38)	7.55	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.26	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0006 EA Football Markings For AstroTurf® GameDay Grass™ MT 38 Fields	25,414.93	
32 18 23 29-0007 EA Baseball Markings For AstroTurf® GameDay Grass™ MT 38 Fields	20,715.57	
32 18 23 29-0008 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 38 Fields.....	6,233.85	
Note: Per sport.		
32 18 23 29-0009 EA Endzone Lettering For AstroTurf® GameDay Grass™ MT 38 Fields	2,301.73	
Note: Per letter. Excludes outline.		
32 18 23 29-0010 EA Colored Endzone For AstroTurf® GameDay Grass™ MT 38 Fields.....	2,205.82	
Note: Per endzone.		
32 18 23 29-0011 EA Simple Logo For AstroTurf® GameDay Grass™ MT 38 Fields	19,181.08	
Note: Block letter.		
32 18 23 29-0012 EA Deluxe Logo For AstroTurf® GameDay Grass™ MT 38 Fields	27,812.57	
Note: Graphic.		
32 18 23 29-0013 41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 41) (32 18 23 29-0003)		
32 18 23 29-0014 SF 41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 41)	8.71	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.26	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0015 EA Football Markings For AstroTurf® GameDay Grass™ MT 41 Fields	25,894.61	
32 18 23 29-0016 EA Baseball Markings For AstroTurf® GameDay Grass™ MT 41 Fields	21,482.94	
32 18 23 29-0017 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 41 Fields.....	6,713.42	
Note: Per sport.		
32 18 23 29-0018 EA Endzone Lettering For AstroTurf® GameDay Grass™ MT 41 Fields	2,493.56	
Note: Per letter. Excludes outline.		
32 18 23 29-0019 EA Colored Endzone For AstroTurf® GameDay Grass™ MT 41 Fields.....	2,301.74	
Note: Per endzone.		
32 18 23 29-0020 EA Simple Logo For AstroTurf® GameDay Grass™ MT 41 Fields	20,140.25	
Note: Block letter.		
32 18 23 29-0021 EA Deluxe Logo For AstroTurf® GameDay Grass™ MT 41 Fields	29,203.37	
Note: Graphic.		
32 18 23 29-0022 45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 45) (32 18 23 29-0003)		
32 18 23 29-0023 SF 45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 45)	8.88	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.26	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0024 EA Football Markings For AstroTurf® GameDay Grass™ MT 45 Fields	26,374.14	
32 18 23 29-0025 EA Baseball Markings For AstroTurf® GameDay Grass™ MT 45 Fields	23,209.25	
32 18 23 29-0026 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 45 Fields.....	7,192.95	
Note: Per sport.		
32 18 23 29-0027 EA Endzone Lettering For AstroTurf® GameDay Grass™ MT 45 Fields	2,685.37	
Note: Per letter. Excludes outline.		
32 18 23 29-0028 EA Colored Endzone For AstroTurf® GameDay Grass™ MT 45 Fields.....	2,397.65	
Note: Per endzone.		



		Exterior Improvements	32
		Bases, Ballasts, and Paving	32 10
		Athletic and Recreational Surfacing	32 18

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0029 EA Simple Logo For AstroTurf® GameDay Grass™ MT 45 Fields Note: Block letter.	21,099.31	
32 18 23 29-0030 EA Deluxe Logo For AstroTurf® GameDay Grass™ MT 45 Fields Note: Graphic.	30,594.01	
32 18 23 29-0031 Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D) (32 18 23 29-0002)		
32 18 23 29-0032 52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 52) (32 18 23 29-0031)		
32 18 23 29-0033 SF 52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 52)	9.97	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.20	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.25	
For Cryo Rubber And Sand Infill, Add	0.30	
32 18 23 29-0034 EA Football Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields	27,333.04	
32 18 23 29-0035 EA Baseball Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields	29,155.24	
32 18 23 29-0036 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields..... Note: Per sport.	8,151.96	
32 18 23 29-0037 EA Endzone Lettering For AstroTurf® GameDay Grass™ 3DX 52 Fields	3,068.97	
32 18 23 29-0038 EA Colored Endzone For AstroTurf® GameDay Grass™ 3DX 52 Fields..... Note: Per endzone.	2,589.45	
32 18 23 29-0039 EA Simple Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields	23,017.30	
32 18 23 29-0040 EA Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields	33,375.08	
32 18 23 29-0041 60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 60) (32 18 23 29-0031)		
32 18 23 29-0042 SF 60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 60)	10.32	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.20	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.25	
For Cryo Rubber And Sand Infill, Add	0.30	
32 18 23 29-0043 EA Football Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields	27,812.57	
32 18 23 29-0044 EA Baseball Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields	32,416.03	
32 18 23 29-0045 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields..... Note: Per sport.	8,631.49	
32 18 23 29-0046 EA Endzone Lettering For AstroTurf® GameDay Grass™ 3DX 60 Fields	3,260.78	
32 18 23 29-0047 EA Colored Endzone For AstroTurf® GameDay Grass™ 3DX 60 Fields..... Note: Per endzone.	2,685.35	
32 18 23 29-0048 EA Simple Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields	23,976.35	
32 18 23 29-0049 EA Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields	34,765.71	
32 18 23 29-0050 52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 52) (32 18 23 29-0031)		
32 18 23 29-0051 SF 52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 52)	10.33	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.20	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.25	
For Cryo Rubber And Sand Infill, Add	0.30	
32 18 23 29-0052 EA Football Markings For AstroTurf® GameDay Grass™ 3D 52 Fields.....	28,292.09	
32 18 23 29-0053 EA Baseball Markings For AstroTurf® GameDay Grass™ 3D 52 Fields.....	32,607.84	
32 18 23 29-0054 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 52 Fields..... Note: Per sport.	9,111.01	
32 18 23 29-0055 EA Endzone Lettering For AstroTurf® GameDay Grass™ 3D 52 Fields.....	3,452.59	
32 18 23 29-0056 EA Colored Endzone For AstroTurf® GameDay Grass™ 3D 52 Fields..... Note: Per endzone.	2,781.26	
32 18 23 29-0057 EA Simple Logo For AstroTurf® GameDay Grass™ 3D 52 Fields.....	24,935.40	
32 18 23 29-0058 EA Deluxe Logo For AstroTurf® GameDay Grass™ 3D 52 Fields..... Note: Graphic.	36,156.34	
32 18 23 29-0059 60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 60) (32 18 23 29-0031)		

32	Exterior Improvements
32 10	Bases, Ballasts, and Paving
32 18	Athletic and Recreational Surfacing



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0060 SF 60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 60).....	10.53	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.20	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.25	
For Cryo Rubber And Sand Infill, Add	0.30	
32 18 23 29-0061 EA Football Markings For AstroTurf® GameDay Grass™ 3D 60 Fields.....	28,771.62	
32 18 23 29-0062 EA Baseball Markings For AstroTurf® GameDay Grass™ 3D 60 Fields.....	34,717.75	
32 18 23 29-0063 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 60 Fields.....	9,590.54	
Note: Per sport.		
32 18 23 29-0064 EA Endzone Lettering For AstroTurf® GameDay Grass™ 3D 60 Fields.....	3,836.22	
Note: Per letter. Excludes outline.		
32 18 23 29-0065 EA Colored Endzone For AstroTurf® GameDay Grass™ 3D 60 Fields.....	2,877.16	
Note: Per endzone.		
32 18 23 29-0066 EA Simple Logo For AstroTurf® GameDay Grass™ 3D 60 Fields.....	25,894.46	
Note: Block letter.		
32 18 23 29-0067 EA Deluxe Logo For AstroTurf® GameDay Grass™ 3D 60 Fields.....	37,546.96	
Note: Graphic.		
32 18 23 29-0068 Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ XPe) (32 18 23 29-0002)		
32 18 23 29-0069 38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 38) (32 18 23 29-0068)		
32 18 23 29-0070 SF 38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 38).....	8.36	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.26	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0071 EA Football Markings For AstroTurf® GameDay Grass™ XPe 38 Fields.....	24,456.02	
32 18 23 29-0072 EA Baseball Markings For AstroTurf® GameDay Grass™ XPe 38 Fields.....	18,030.32	
32 18 23 29-0073 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 38 Fields.....	5,274.83	
Note: Per sport.		
32 18 23 29-0074 EA Endzone Lettering For AstroTurf® GameDay Grass™ XPe 38 Fields.....	1,918.12	
Note: Per letter. Excludes outline.		
32 18 23 29-0075 EA Colored Endzone For AstroTurf® GameDay Grass™ XPe 38 Fields.....	2,014.03	
Note: Per endzone.		
32 18 23 29-0076 EA Simple Logo For AstroTurf® GameDay Grass™ XPe 38 Fields.....	17,263.08	
Note: Block letter.		
32 18 23 29-0077 EA Deluxe Logo For AstroTurf® GameDay Grass™ XPe 38 Fields.....	25,031.46	
Note: Graphic.		
32 18 23 29-0078 42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 42) (32 18 23 29-0068)		
32 18 23 29-0079 SF 42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 42).....	7.32	
For Ambient Rubber And Sand Infill, Add	0.10	
For Cryo Rubber Infill, Add	0.26	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0080 EA Football Markings For AstroTurf® GameDay Grass™ XPe 42 Fields.....	24,935.40	
32 18 23 29-0081 EA Baseball Markings For AstroTurf® GameDay Grass™ XPe 42 Fields.....	19,181.08	
32 18 23 29-0082 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 42 Fields.....	5,754.32	
Note: Per sport.		
32 18 23 29-0083 EA Endzone Lettering For AstroTurf® GameDay Grass™ XPe 42 Fields.....	2,109.92	
Note: Per letter. Excludes outline.		
32 18 23 29-0084 EA Colored Endzone For AstroTurf® GameDay Grass™ XPe 42 Fields.....	2,109.92	
Note: Per endzone.		
32 18 23 29-0085 EA Simple Logo For AstroTurf® GameDay Grass™ XPe 42 Fields.....	18,222.03	
Note: Block letter.		
32 18 23 29-0086 EA Deluxe Logo For AstroTurf® GameDay Grass™ XPe 42 Fields.....	26,421.94	
Note: Graphic.		
32 18 23 29-0087 Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®) (32 18 23 29-0002)		
32 18 23 29-0088 SF Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®).....	16.68	
32 18 23 29-0089 SF Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® PureGrass®).....	14.92	
32 18 23 29-0090 EA Football Markings For AstroTurf® PureGrass® Fields.....	47,323.06	
32 18 23 29-0091 EA Baseball Markings For AstroTurf® PureGrass® Fields.....	56,221.41	
32 18 23 29-0092 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® PureGrass® Fields.....	13,752.00	
Note: Per sport.		
32 18 23 29-0093 EA Endzone Lettering For AstroTurf® PureGrass® Fields.....	5,258.12	
Note: Per letter. Excludes outline.		
32 18 23 29-0094 EA Colored Endzone For AstroTurf® PureGrass® Fields.....	3,902.93	
Note: Per endzone.		
32 18 23 29-0095 EA Simple Logo For AstroTurf® PureGrass® Fields.....	35,126.40	
Note: Block letter.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0096 EA Deluxe Logo For AstroTurf® PureGrass® Fields Note: Graphic.	51,570.00	
32 18 23 29-0097 Synthetic Turf (G9 Turf) (32 18 23 29-0001) Note: Includes labor, equipment and material required to install the task.		
32 18 23 29-0098 SF 2-1/2" Height, 53 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Playmaker Turf) Note: For football and multi-sport fields. Excludes preparation of sub-base, grooming, sports lines and logos.	9.11	
For >35,000, Deduct	-0.81	
32 18 23 29-0099 SF 2" Height, 48 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Striker Turf) Note: For all sports other than football. Excludes preparation of sub-base, grooming, sports lines and logos.	9.03	
For >35,000, Deduct	-0.81	
32 18 23 29-0100 SF 1-3/4" Height, 72 Ounce, Tufted 3/8" Gauge, Two-Color Monofilament Synthetic Turf With Thatch Layer And Acrylic Coated Sand Infill (G9 Turf Perennial Turf) Note: For landscaped areas or playgrounds. Excludes preparation of sub-base, grooming, sports lines and logos.	9.44	
32 18 23 29-0101 EA Football Inlays For G9 Synthetic Turf Note: Includes field grid, numbers, arrows, coach's box and kick off lines.	65,421.42	
32 18 23 29-0102 EA Soccer Inlays For G9 Synthetic Turf.....	28,349.28	
32 18 23 29-0103 EA Boys Lacrosse Inlays For G9 Synthetic Turf.....	28,349.28	
32 18 23 29-0104 EA Girls Lacrosse Inlays For G9 Synthetic Turf.....	28,349.28	
32 18 23 29-0105 EA Field Hockey Inlays For G9 Synthetic Turf.....	28,349.28	
32 18 23 29-0106 EA Endzone Lettering For G9 Synthetic Turf Note: Priced per letter. Includes single color outlining.	3,271.07	
32 18 23 29-0107 SF Ethylene Propylene Diene Monomer (EPDM) Black Infill For G9 Synthetic Turf.....	3.06	
32 18 23 29-0108 SF Ethylene Propylene Diene Monomer (EPDM) Color Infill For G9 Synthetic Turf.....	8.00	
32 18 23 29-0109 SF Styrene-Butadiene Rubber (SBR) Infill For G9 Synthetic Turf.....	2.28	
32 18 23 29-0110 SF Sand Infill For G9 Synthetic Turf.....	1.15	
32 18 23 29-0111 SF Acrylic Coated Sand Infill For G9 Synthetic Turf.....	1.89	
32 18 23 29-0112 EA Gmax Compaction And Hardness Test For G9 Synthetic Turf Note: Includes a comprehensive report.	2,180.71	
32 18 23 29-0113 EA Safety Bridge Over Track For G9 Synthetic Turf.....	21,807.14	
32 18 23 29-0114 SF Clean And Groom Synthetic Turf..... Note: Includes using equipment to pick up metal particles in the field, air vacuum the top 2-5 mm of infill, clean and screen to remove broken strands, dirt, bandage, etc.	0.72	
For >10,000 To 30,000, Deduct	-0.29	
For >30,000 To 60,000, Deduct	-0.50	
For >60,000, Deduct	-0.55	
32 18 23 29-0115 SF Rejuvenate Synthetic Turf And Reinstall Existing Infill..... Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes reinstalling the old infill that was removed.	4.89	
32 18 23 29-0116 SF Rejuvenate Synthetic Turf For Installation Of New Infill..... Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes disposing of the old infill. Excludes new infill.	5.43	
32 18 23 29-0117 SF Drainage Layer For G9 Synthetic Turf..... Note: Used for drainage over asphalt or on roof tops.	4.45	
32 18 23 29-0118 SF 15 mm, Shock Pad For G9 Synthetic Turf..... Note: Used for additional Gmax for a stone base field.	2.74	
32 18 23 29-0119 EA Single Visit Repair Call To Repair Up To 300 LF Of Inlay Lines Or Seams On G9 Synthetic Turf Note: Includes field inspection and report.	4,346.00	
32 18 23 29-0120 LF Repair Inlay Lines Or Seams On G9 Synthetic Turf Note: Linear foot price for repairs over the initial repair call maximum of 300 LF.	11.95	
32 18 23 29-0121 LF Nailer Used To Attach G9 Synthetic Turf.....	4.78	
32 18 23 29-0122 SF Removal And Recycling Of Existing Field..... Note: Includes removal, shipping and recycling of infill, fibers and backing.	3.37	
32 18 23 33 Running Track Surfacing (32 18 23)		
32 18 23 33-0001 Running Track Surfacing (32 18 23 33)		
32 18 23 33-0002 SY 2-1/2" Asphaltic Concrete Running Track Surfacing.....	32.09	
32 18 23 33-0003 Running Track Seal And Colored Surfaces (32 18 23 33)		
32 18 23 33-0004 SY 1 Seal Coat, Striping Of Track..... Note: Includes certification.	18.00	
32 18 23 39 Synthetic Running Track Surfacing (32 18 23)		
32 18 23 39-0001 Synthetic Running Track Surfacing (XPLODE™) And Striping (32 18 23 39) Note: Includes labor, equipment and material required to install the task. Excludes asphalt base.		
32 18 23 39-0002 SY Paved-In-Place Styrene-Butadiene Rubber (SBR) Or Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Synthetic Running Track Surfacing (XPLODE™ M100).....	68.38	6.47
For >5,500, Deduct	-7.52	
For Up To 4,000, Add	23.93	

32	Exterior Improvements
32 10	Bases, Ballasts, and Paving
32 18	Athletic and Recreational Surfacing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 39-0003	SY		Paved-In-Place Styrene-Butadiene Rubber (SBR) Granule Base Mat With Polyurethane Binder Finished With A Textured And Pigmented Polyurethane And Ethylene Propylene Diene Monomer (EPDM) Rubber Structural Spray Coat, Synthetic Running Track Surfacing (XPLODE™ MS200).....	91.78	6.47
			<i>For >5,500, Deduct</i>	-10.10	
			<i>For Up To 4,000, Add</i>	32.12	
			<i>For Custom Color Upgrade, Add</i>	8.72	
			<i>For Aliphatic Top Coating, Add</i>	16.52	
32 18 23 39-0004	SY		Paved-In-Place Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Two-Component Polyurethane Sealer Layer And Two-Component Polyurethane Wearing Layer With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber, Synthetic Running Track Surfacing (XPLODE™ MSX500).....	154.24	6.47
			<i>For >5,500, Deduct</i>	-9.25	
			<i>For Up To 4,000, Add</i>	53.98	
			<i>For Custom Color Upgrade, Add</i>	11.88	
			<i>For Aliphatic Top Coating, Add</i>	22.06	
32 18 23 39-0005	SY		Full Pour Two-Component Polyurethane Track System With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber Surface, Synthetic Running Track Surfacing (XPLODE™ MSX5000).....	199.23	6.47
			<i>For >5,500, Deduct</i>	-11.95	
			<i>For Up To 4,000, Add</i>	69.73	
			<i>For Custom Color Upgrade, Add</i>	15.54	
			<i>For Aliphatic Top Coating, Add</i>	22.71	
32 18 23 39-0006	SY		Latex Binder, Synthetic Running Track Surfacing (XPLODE™ Plexitrac® Lightning).....	62.30	
			<i>For >5,500, Deduct</i>	-6.85	
			<i>For Up To 4,000, Add</i>	21.81	
32 18 23 39-0007	SY		Latex Binder, Synthetic Running Track Surfacing (XPLODE™ Plexitrac® Accelerator).....	70.12	
			<i>For >5,500, Deduct</i>	-10.17	
			<i>For Up To 4,000, Add</i>	24.54	
32 18 23 39-0008	SY		Spray Retop XPLODE™ M100/MS200 Running Tracks.....	61.59	
			<i>For Up To 4,000, Add</i>	21.56	
			<i>For >5,500, Deduct</i>	-6.02	
32 18 23 39-0009	SY		Sandwich Retop XPLODE™ MSX500 Running Tracks.....	119.21	
			<i>For Up To 4,000, Add</i>	41.72	
			<i>For >5,500, Deduct</i>	-12.56	
32 18 23 39-0010	SY		Retop XPLODE™ Plexitrac® Lightning Running Tracks.....	34.67	
			Note: Two layers.		
			<i>For Up To 4,000, Add</i>	12.13	
			<i>For >5,500, Deduct</i>	-5.73	
32 18 23 39-0011	SY		Retop XPLODE™ Plexitrac® Accelerator Running Tracks.....	42.22	
			Note: Two layers.		
			<i>For Up To 4,000, Add</i>	14.78	
			<i>For >5,500, Deduct</i>	-5.73	
32 18 23 39-0012	EA		Restripe XPLODE™ Running Track.....	14,333.69	
			Note: Includes two coats of acrylic resurfacer and two coats of color.		
			<i>For College Track Restripping, Add</i>	2,606.12	

32 18 23 53 Tennis Court Surfacing (32 18 23)

32 18 23 53-0001			Tennis Court Surfacing (32 18 23 53) See CSI section 32 18 23 61-0000 for 100% acrylic tennis court surfacing.		
32 18 23 53-0002	SY		Tennis Court Bituminous Pavement, 2-1/2" Thick.....	34.43	
32 18 23 53-0003			Tennis Court Markings (32 18 23 53)		
32 18 23 53-0004	EA		Paint Markings On Asphalt Tennis Court 2 Coats.....	502.63	

32 18 23 56 Natural Tennis Court Surfacing (32 18 23)

32 18 23 56-0001	SY		Clay Tennis Court.....	47.52	
32 18 23 56-0002	SY		Tennis Court, Pulverized Natural Greenstone, Fast Dry.....	52.88	
			Note: Includes 4" base.		
32 18 23 56-0003	SY		Tennis Court, Rubber-Cork Base Resilient Pavement.....	18.60	
32 18 23 56-0004	SY		Resurface Clay Tennis Court.....	13.71	
32 18 23 56-0005	SY		Resurface Tennis Court, Pulverized Natural Greenstone.....	11.60	
32 18 23 56-0006	SY		Resurface Tennis Court, Resilient Pavement.....	7.96	

32 18 23 61 Multi-Use, Tennis Court, Basketball Court Athletic Surfacing (32 18 23)

32 18 23 61-0001			100% Acrylic Athletic Surfacing System (Plexipave®) (32 18 23 61) Note: Excludes asphalt or concrete sub base and repairs of sub base.		
32 18 23 61-0002			Surface Preparation For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001)		
32 18 23 61-0003	SY		100% Acrylic Resurfacer, Athletic Surfacing System (California Products Plexipave® Acrylic Resurfacer), Per Coat.....	1.59	
			Note: Includes ultra fine silica sand. Applied with rubber squeegee.		
32 18 23 61-0004	SY		Acid Etching Concrete Pre-Treatment For Plexipave® Athletic Surfacing System (California Products Plexipave® Concrete Preparer®), Per Coat.....	0.90	
			Note: For previously uncoated portland cement concrete. Applied with broom.		
32 18 23 61-0005	SY		Two-Part, Water Based Epoxy Primer For Plexipave® Athletic Surfacing System (California Products Plexipave® Ti-Coat®), Per Coat.....	2.34	
			Note: For new or uncoated portland cement concrete. Applied with a short nap phenolic roller.		



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Athletic and Recreational Surfacing		32 18

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 61-0006	SY		Up To 1/2" Thick, Acrylic Latex Patching Compound, Athletic Surfacing System (California Products Plexipave® Court Patch Binder), Per Coat.....	98.72	
Note: For patching depressions and uneven texture in new or existing asphalt or concrete surfaces. Includes ultra fine silica sand and portland cement. Applied with trowel or metal screed.					
32 18 23 61-0007 Surface Coatings For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001)					
Note: Standard color includes dark green, Florida green, light green, maroon, Sahara sand, brown, California red, and cape gray.					
32 18 23 61-0008	SY		100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), First Coat.....	3.73	
Note: Includes ultra fine silica sand. Applied with rubber squeegee.					
<i>For Pacific Blue, Add</i>				0.23	
<i>For US Open Blue, Add</i>				0.81	
32 18 23 61-0009	SY		100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Second Coat.....	2.95	
Note: Includes ultra fine silica sand. Applied with rubber squeegee.					
<i>For Pacific Blue, Add</i>				0.17	
<i>For US Open Blue, Add</i>				0.58	
32 18 23 61-0010	SY		100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Third Coat.....	2.52	
Note: Price per coat for third or additional coats. Includes ultra fine silica sand. Applied with rubber squeegee.					
<i>For Pacific Blue, Add</i>				0.13	
<i>For US Open Blue, Add</i>				0.45	
32 18 23 61-0011	SY		Non-Textured, 100% Acrylic Emulsion Color Coating Finish, Athletic Surfacing System (California Products Plexipave® Plexichrome®), Per Coat.....	2.69	
Note: Non-textured finish coat over Plexipave® for faster playing surfaces. Applied with rubber squeegee followed by wide hair-type push broom.					
<i>For Pacific Blue, Add</i>				0.07	
<i>For US Open Or Australian Open Blue, Add</i>				0.52	
<i>For Pro Purple, Add</i>				1.36	
32 18 23 61-0012 Line Striping For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001)					
32 18 23 61-0013	SY		Tennis Or Basketball Court Line Striping For Athletic Surfacing System, Per SY Of Court (California Products Plexipave® Hi-Hide Plexicolor®).....	1.43	
Note: Textured or non-textured highly reflective line marking paint.					
32 18 23 61-0014 Cushion Coatings For Athletic Surfacing System (Plexipave® Plexicushion®) (32 18 23 61-0001)					
32 18 23 61-0015	SY		Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), First Coat.....	6.42	
Note: Applied with rubber squeegee.					
32 18 23 61-0016	SY		Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), Second Coat.....	8.95	
Note: Applied with rubber squeegee.					
32 18 23 61-0017	SY		Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), Third Coat.....	7.63	
Note: Price per coat for third or additional coats. Applied with rubber squeegee.					
32 18 23 61-0018	SY		Resilient Latex Undercoating, Athletic Surfacing System (California Products Plexipave® Plexicushion®), First Coat.....	5.59	
Note: Applied with rubber squeegee.					
32 18 23 61-0019	SY		Resilient Latex Undercoating, Athletic Surfacing System (California Products Plexipave® Plexicushion®), Second Coat.....	4.14	
Note: Price per coat for second or additional coats. Applied with rubber squeegee.					
32 18 23 61-0020 Resurface Athletic Court (32 18 23 61)					
Note: Excludes asphalt or concrete sub base and repairs of sub base.					
32 18 23 61-0021	SY		Court Resurfacing System, 2 Coats Resurfacer, 2 Coats Color, And Sand (SealMaster).....	2.45	
32 30 Site Improvements (32)					
32 31 Fences and Gates (32 30)					
32 31 11 Gate Operators (32 31)					
32 31 11 00-0001 Gate Operators (32 31 11)					
Note: Excludes gates, electrical connections, access controls and concrete foundation.					
32 31 11 00-0002 Swing Gate Actuator (DKS™ DoorKing®) (32 31 11 00-0001)					
32 31 11 00-0003 Single Gate, Swing Gate Actuator (32 31 11 00-0002)					
32 31 11 00-0004	EA		Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6003).....	1,941.47	198.37
Note: Includes one primary operator with a 10' wide gate capacity.					
32 31 11 00-0005	EA		Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6002).....	2,610.85	198.37
Note: Includes one primary operator with a 14' wide gate capacity.					
32 31 11 00-0006 Dual Gate, Swing Gate Actuator (32 31 11 00-0002)					
32 31 11 00-0007	EA		Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6003).....	3,882.96	396.73
Note: Includes one primary and one secondary operator each with a 10' wide gate capacity.					

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 11 00-0008 EA Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6002) .....5,221.73 Note: Includes one primary and one secondary operator each with a 14' wide gate capacity.	5,221.73	396.73
32 31 11 00-0009 Swing Gate Operators (DKS™ DoorKing®) (32 31 11 00-0001)		
32 31 11 00-0010 Single Gate, Swing Gate Operators (32 31 11 00-0009)		
32 31 11 00-0011 EA 400 LB Capacity, Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6050) .....4,035.45 Note: Includes one primary operator with a 10' wide and 400 LB gate capacity.	4,035.45	198.37
32 31 11 00-0012 EA 500 LB Capacity, Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6100) .....4,395.88 Note: Includes one primary operator with a 14' wide and 500 LB gate capacity.	4,395.88	198.37
32 31 11 00-0013 EA 700 LB Capacity, Up To 18' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500) .....5,992.11 Note: Includes one primary operator with an 18' wide and 700 LB gate capacity.	5,992.11	198.37
For 208/230/460 Volt AC, Add	322.50	
32 31 11 00-0014 EA 800 LB Capacity, Up To 22' Wide Gate, 1 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500) .....6,798.81 Note: Includes one primary operator with a 22' wide and 800 LB gate capacity.	6,798.81	198.37
For 208/230/460 Volt AC, Add	322.50	
32 31 11 00-0015 Dual Gate, Swing Gate Operators (32 31 11 00-0009)		
32 31 11 00-0016 EA 400 LB Capacity, Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6050) .....7,126.90 Note: Includes one primary and one secondary operator each with a 10' wide and 400 LB gate capacity.	7,126.90	396.73
32 31 11 00-0017 EA 500 LB Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6100) .....7,847.78 Note: Includes one primary and one secondary operator each with a 14' wide and 500 LB gate capacity.	7,847.78	396.73
32 31 11 00-0018 EA 700 LB Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500) .....11,023.08 Note: Includes one primary and one secondary operator each with an 18' wide and 700 LB gate capacity.	11,023.08	396.73
For 208/230/460 Volt AC, Add	322.50	
32 31 11 00-0019 EA 800 LB Capacity, Up To 22' Wide Gates, 1 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500) .....12,790.94 Note: Includes one primary and one secondary operator each with a 22' wide and 800 LB gate capacity.	12,790.94	396.73
For 208/230/460 Volt AC, Add	322.50	
32 31 11 00-0020 Sliding Gate Operators (DKS™ DoorKing®) (32 31 11 00-0001)		
Note: Includes 20' of chain. See CSI section 32 31 11 00-0029 for additional chain over 20'.		
32 31 11 00-0021 EA 300 LB Capacity, Up To 16' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9050) .....1,777.66 Note: Includes operator, chain brackets, hardware and 20' of #41 chain.	1,777.66	198.37
32 31 11 00-0022 EA 1,000 LB Capacity, Up To 30' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9100) .....2,484.71 Note: Includes operator, chain brackets, hardware and 20' of #41 chain.	2,484.71	238.04
32 31 11 00-0023 EA 1,500 LB Capacity, Up To 45' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9150) .....3,070.56 Note: Includes operator, chain brackets, hardware and 20' of #40 chain.	3,070.56	238.04
32 31 11 00-0024 EA 3,000 LB Capacity, Up To 100' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9210) .....4,007.75 Note: Includes operator, chain brackets, hardware and 20' of #50 chain.	4,007.75	277.72
32 31 11 00-0025 EA 2,000 LB Capacity, Up To 100' Wide Gate, 1 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9220) .....4,911.62 Note: Includes operator, chain brackets, hardware and 20' of #50 chain.	4,911.62	277.72
32 31 11 00-0026 EA 5,000 LB Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9230) .....6,698.30 Note: Includes operator, chain brackets, hardware and 20' of #60 chain.	6,698.30	317.39
32 31 11 00-0027 EA 5,000 LB Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9530) .....11,180.04 Note: Includes operator, chain brackets, hardware and 20' of #60 chain.	11,180.04	317.39
32 31 11 00-0028 EA 10,000 LB Capacity, Up To 160' Wide Gate, 5 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9550) .....18,942.36 Note: Includes operator, chain brackets, hardware and 20' of #60 chain.	18,942.36	357.07
32 31 11 00-0029 Accessories For Gate Actuators And Operators (DKS™ DoorKing®) (32 31 11 00-0001)		
32 31 11 00-0030 EA Single Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9410) .....620.14	620.14	
32 31 11 00-0031 EA Two Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9409) .....1,204.22	1,204.22	
32 31 11 00-0032 EA Heater Kit For Gate Actuators And Operators (DKS™ DoorKing® 1601) .....845.25	845.25	
32 31 11 00-0033 EA Photoelectric Eye For Gate Actuators And Operators (DKS™ DoorKing® 8080-031) .....907.43	907.43	
32 31 11 00-0034 EA Reversing Edge Sensor For Gate Actuators And Operators (DKS™ DoorKing® 8080-020) .....804.44	804.44	
32 31 11 00-0035 EA Post Mount Base Plate For Gate Actuators And Operators (DKS™ DoorKing® 9310) .....555.57	555.57	
32 31 11 00-0036 LF #40 Chain For Sliding Gate Operators .....5.59	5.59	
32 31 11 00-0037 LF #41 Chain For Sliding Gate Operators .....5.84	5.84	
32 31 11 00-0038 LF #50 Chain For Sliding Gate Operators .....7.46	7.46	
32 31 11 00-0039 LF #60 Chain For Sliding Gate Operators .....11.48	11.48	
32 31 11 00-0040 EA Exterior Keypad Gate Operator (Linear AK-11) .....663.98	663.98	135.71
32 31 11 00-0041 Sliding Gate Operator (LiftMaster) (32 31 11 00-0001)		



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 11 00-0042	EA		Up To 1,500 LB Capacity, 120/230 Volt, Single Phase, Sliding Gate Operator With 24 Volt DC Motor (Liftmaster® CSL24U).....	2,729.98	238.04
			Note: Includes 30' Chain, Retro-Reflective Photoelectric Sensor and Reflector Hoods (LMRRUL) and 5' Resistive Safety Edge (S505AL).		
			For Monitored Wireless Edge Receiver And Transmitter Option (Liftmaster LMWEKITU), Add	186.48	
			For Plug-In Loop Detector Option (Liftmaster LOOPDETLM), Add	133.49	
			For LED Strobe Light With Siren (Liftmaster SL-1301-SAQ), Add	65.74	
			For 10 Watt Solar Panel (Liftmaster SP10W12V), Add	264.23	
			For Each Additional 10' Chain, Add	39.58	
32 31 13 Chain Link Fences and Gates (32 31)					
32 31 13 13 Chain Link Fences and Gates (32 31 13)					
32 31 13 13-0001			Post Holes (32 31 13 13)		
			Note: Excludes spreading of excess material on site or loading and removal of excavated material from site. See CSI section 02 41 19 13-0081 for core drilling in concrete, 02 41 19 13-0219 for core drilling in asphalt.		
32 31 13 13-0002			Auger By Machine Fence Post Hole In Soil (32 31 13 13-0001)		
32 31 13 13-0003	VLF		Up To 2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil	9.41	
32 31 13 13-0004	VLF		2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil	10.59	
32 31 13 13-0005	VLF		3" Diameter Hole, Auger By Machine Fence Post Hole In Soil	12.54	
32 31 13 13-0006	VLF		4" Diameter Hole, Auger By Machine Fence Post Hole In Soil	14.11	
32 31 13 13-0007	VLF		6" Diameter Hole, Auger By Machine Fence Post Hole In Soil	15.39	
32 31 13 13-0008	VLF		8" Diameter Hole, Auger By Machine Fence Post Hole In Soil	16.93	
32 31 13 13-0009	VLF		10" Diameter Hole, Auger By Machine Fence Post Hole In Soil	18.83	
32 31 13 13-0010	VLF		12" Diameter Hole, Auger By Machine Fence Post Hole In Soil	21.18	
32 31 13 13-0011	VLF		18" Diameter Hole, Auger By Machine Fence Post Hole In Soil	24.20	
32 31 13 13-0012	VLF		24" Diameter Hole, Auger By Machine Fence Post Hole In Soil	28.23	
32 31 13 13-0013	VLF		30" Diameter Hole, Auger By Machine Fence Post Hole In Soil	33.88	
32 31 13 13-0014	VLF		36" Diameter Hole, Auger By Machine Fence Post Hole In Soil	42.34	
32 31 13 13-0015			Post Hole In Rock (32 31 13 13-0001)		
32 31 13 13-0016	CF		Jackhammer Post Hole In Rock.....	67.29	
32 31 13 13-0017	CF		Rock Drill Post Hole In Rock.....	20.83	
32 31 13 13-0018			Fill For Post Holes (32 31 13 13-0001)		
			See CSI section 03 21 00 00-0000 for reinforcing steel.		
32 31 13 13-0019			Concrete Fill For Post Holes (32 31 13 13-0018)		
32 31 13 13-0020	VLF		Up To 2-1/2" Diameter, Concrete Fill For Post Hole	5.56	
32 31 13 13-0021	VLF		2-1/2" Diameter, Concrete Fill For Post Hole	7.15	
32 31 13 13-0022	VLF		3" Diameter, Concrete Fill For Post Hole	7.90	
32 31 13 13-0023	VLF		4" Diameter, Concrete Fill For Post Hole	9.17	
32 31 13 13-0024	VLF		6" Diameter, Concrete Fill For Post Hole	12.98	
32 31 13 13-0025	VLF		8" Diameter, Concrete Fill For Post Hole	17.34	
32 31 13 13-0026	VLF		10" Diameter, Concrete Fill For Post Hole	21.24	
32 31 13 13-0027	VLF		12" Diameter, Concrete Fill For Post Hole	24.82	
32 31 13 13-0028	VLF		18" Diameter, Concrete Fill For Post Hole	34.07	
32 31 13 13-0029	VLF		24" Diameter, Concrete Fill For Post Hole	42.53	
32 31 13 13-0030	VLF		30" Diameter, Concrete Fill For Post Hole	50.81	
32 31 13 13-0031	VLF		36" Diameter, Concrete Fill For Post Hole	59.44	
32 31 13 13-0032			Grout Fill For Post Holes (32 31 13 13-0018)		
32 31 13 13-0033	VLF		Up To 2-1/2" Diameter, Grout Fill For Post Hole.....	6.52	
32 31 13 13-0034	VLF		2-1/2" Diameter, Grout Fill For Post Hole	8.39	
32 31 13 13-0035	VLF		3" Diameter, Grout Fill For Post Hole.....	9.17	
32 31 13 13-0036	VLF		4" Diameter, Grout Fill For Post Hole.....	10.40	
32 31 13 13-0037	VLF		6" Diameter, Grout Fill For Post Hole.....	14.59	
32 31 13 13-0038	VLF		8" Diameter, Grout Fill For Post Hole.....	19.48	
32 31 13 13-0039	VLF		10" Diameter, Grout Fill For Post Hole.....	23.77	
32 31 13 13-0040	VLF		12" Diameter, Grout Fill For Post Hole.....	27.65	
32 31 13 13-0041	VLF		18" Diameter, Grout Fill For Post Hole.....	37.25	
32 31 13 13-0042	VLF		24" Diameter, Grout Fill For Post Hole.....	45.81	
32 31 13 13-0043	VLF		30" Diameter, Grout Fill For Post Hole.....	54.12	
32 31 13 13-0044	VLF		36" Diameter, Grout Fill For Post Hole.....	62.69	
32 31 13 13-0045			Compacted Earth Fill For Post Holes (32 31 13 13-0018)		
32 31 13 13-0046	VLF		Up To 2-1/2" Diameter, Compacted Earth Fill For Post Hole.....	4.41	
32 31 13 13-0047	VLF		2-1/2" Diameter, Compacted Earth Fill For Post Hole.....	5.75	
32 31 13 13-0048	VLF		3" Diameter, Compacted Earth Fill For Post Hole.....	6.01	
32 31 13 13-0049	VLF		4" Diameter, Compacted Earth Fill For Post Hole.....	6.18	
32 31 13 13-0050	VLF		6" Diameter, Compacted Earth Fill For Post Hole.....	8.26	
32 31 13 13-0051	VLF		8" Diameter, Compacted Earth Fill For Post Hole.....	11.02	
32 31 13 13-0052	VLF		10" Diameter, Compacted Earth Fill For Post Hole.....	13.22	
32 31 13 13-0053	VLF		12" Diameter, Compacted Earth Fill For Post Hole.....	14.99	
32 31 13 13-0054	VLF		18" Diameter, Compacted Earth Fill For Post Hole.....	18.27	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 31 13 13-0055	VLF	24" Diameter, Compacted Earth Fill For Post Hole.....	20.50		
32 31 13 13-0056	VLF	30" Diameter, Compacted Earth Fill For Post Hole.....	22.48		
32 31 13 13-0057	VLF	36" Diameter, Compacted Earth Fill For Post Hole.....	24.24		
32 31 13 13-0058		Fence Posts <small>(32 31 13 13)</small>			
		Note: Demolition excludes concrete footing removal on posts and excavation. See CSI section 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0001 for drilling for augering holes and backfill.			
32 31 13 13-0059		Fence Posts <small>(32 31 13 13-0058)</small>			
32 31 13 13-0060		1-7/8" H-Beam Post Without Top Rail Fitting, Galvanized Steel <small>(32 31 13 13-0059)</small>			
		Note: Includes cap and accessories.			
32 31 13 13-0061	LF	1-7/8" Galvanized H-beam Post, Up To 6' In Length	19.83	3.08	
		<i>For Each Top Rail Fitting, Add</i>	0.85		
32 31 13 13-0062	LF	1-7/8" Galvanized H-beam Post, 7' To 10' In Length	18.96	2.63	
		<i>For Each Top Rail Fitting, Add</i>	0.85		
32 31 13 13-0063	LF	1-7/8" Galvanized H-beam Post, 11' To 15' In Length	17.89	2.16	
		<i>For Each Top Rail Fitting, Add</i>	0.85		
32 31 13 13-0064	LF	1-7/8" Galvanized H-beam Post, 16' To 20' In Length	17.03	1.71	
		<i>For Each Top Rail Fitting, Add</i>	0.85		
32 31 13 13-0065	LF	1-7/8" Galvanized H-beam Post, 21' To 24' In Length	16.47	1.48	
		<i>For Each Top Rail Fitting, Add</i>	0.85		
32 31 13 13-0066	LF	1-7/8" Galvanized H-beam Post, >24' In Length	15.57	1.02	
		<i>For Each Top Rail Fitting, Add</i>	0.85		
32 31 13 13-0067		Post Without Top Rail Fitting, Galvanized Steel (1.66" Nominal) <small>(32 31 13 13-0059)</small>			
		Note: 1-5/8" outside diameter, Schedule 40. Includes cap and accessories.			
32 31 13 13-0068	LF	Up To 6' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	13.51	2.86	
		<i>For Each Top Rail Fitting, Add</i>	0.85		
		<i>For Each Single Barbed Wire Arm, Add</i>	1.90		
		<i>For Each Double Barbed Wire Arm, Add</i>	3.40		
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.95		
		<i>For Vinyl Coated, Add</i>	4.69		
		<i>For Powder Coated, Add</i>	6.25		
		<i>For Aluminum Coated, Add</i>	9.76		
		<i>For Schedule 20, Deduct</i>	-1.56		
		<i>For Schedule 80, Add</i>	4.32		
32 31 13 13-0069	LF	7' To 10' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	12.55	2.40	
		<i>For Each Top Rail Fitting, Add</i>	0.85		
		<i>For Each Single Barbed Wire Arm, Add</i>	1.90		
		<i>For Each Double Barbed Wire Arm, Add</i>	3.40		
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.93		
		<i>For Vinyl Coated, Add</i>	4.64		
		<i>For Powder Coated, Add</i>	6.18		
		<i>For Aluminum Coated, Add</i>	9.66		
		<i>For Schedule 20, Deduct</i>	-1.55		
		<i>For Schedule 80, Add</i>	4.19		
32 31 13 13-0070	LF	11' To 15' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	11.54	1.93	
		<i>For Each Top Rail Fitting, Add</i>	0.85		
		<i>For Each Single Barbed Wire Arm, Add</i>	1.90		
		<i>For Each Double Barbed Wire Arm, Add</i>	3.40		
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.92		
		<i>For Vinyl Coated, Add</i>	4.61		
		<i>For Powder Coated, Add</i>	6.15		
		<i>For Aluminum Coated, Add</i>	9.61		
		<i>For Schedule 20, Deduct</i>	-1.54		
		<i>For Schedule 80, Add</i>	4.08		
32 31 13 13-0071	LF	16' To 20' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	10.75	1.48	
		<i>For Each Top Rail Fitting, Add</i>	0.85		
		<i>For Each Single Barbed Wire Arm, Add</i>	1.90		
		<i>For Each Double Barbed Wire Arm, Add</i>	3.40		
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.92		
		<i>For Vinyl Coated, Add</i>	4.60		
		<i>For Powder Coated, Add</i>	6.14		
		<i>For Aluminum Coated, Add</i>	9.59		
		<i>For Schedule 20, Deduct</i>	-1.53		
		<i>For Schedule 80, Add</i>	3.99		
32 31 13 13-0072	LF	21' To 24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post	10.23	1.25	
		<i>For Each Top Rail Fitting, Add</i>	0.85		
		<i>For Each Single Barbed Wire Arm, Add</i>	1.90		
		<i>For Each Double Barbed Wire Arm, Add</i>	3.40		
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	1.92		
		<i>For Vinyl Coated, Add</i>	4.60		
		<i>For Powder Coated, Add</i>	6.13		
		<i>For Aluminum Coated, Add</i>	9.58		
		<i>For Schedule 20, Deduct</i>	-1.53		
		<i>For Schedule 80, Add</i>	3.93		



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0073 LF >24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	9.67	1.02
For Each Top Rail Fitting, Add	0.85	
For Each Single Barbed Wire Arm, Add	1.90	
For Each Double Barbed Wire Arm, Add	3.40	
For SS40 (Hot-Dip Galvanized And Chromated), Add	1.92	
For Vinyl Coated, Add	4.60	
For Powder Coated, Add	6.13	
For Aluminum Coated, Add	9.58	
For Schedule 20, Deduct	-1.53	
For Schedule 80, Add	3.88	
32 31 13 13-0074 Post Without Top Rail Fitting, Galvanized Steel (1.90" Nominal) (32 31 13 13-0059)		
Note: 2" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0075 LF 2" Outside Diameter Galvanized Steel Post, Up To 6' In Length	15.45	2.97
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.39	
For Vinyl Coated, Add	5.73	
For Powder Coated, Add	7.64	
For Aluminum Coated, Add	11.94	
For Schedule 20, Deduct	-1.91	
For Schedule 80, Add	5.17	
32 31 13 13-0076 LF 2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	14.56	2.51
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.36	
For Vinyl Coated, Add	5.67	
For Powder Coated, Add	7.56	
For Aluminum Coated, Add	11.81	
For Schedule 20, Deduct	-1.89	
For Schedule 80, Add	5.05	
32 31 13 13-0077 LF 2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	13.47	2.05
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.35	
For Vinyl Coated, Add	5.64	
For Powder Coated, Add	7.52	
For Aluminum Coated, Add	11.75	
For Schedule 20, Deduct	-1.88	
For Schedule 80, Add	4.92	
32 31 13 13-0078 LF 2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	12.63	1.59
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.35	
For Vinyl Coated, Add	5.63	
For Powder Coated, Add	7.50	
For Aluminum Coated, Add	11.73	
For Schedule 20, Deduct	-1.88	
For Schedule 80, Add	4.83	
32 31 13 13-0079 LF 2" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	12.08	1.37
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.34	
For Vinyl Coated, Add	5.62	
For Powder Coated, Add	7.49	
For Aluminum Coated, Add	11.70	
For Schedule 20, Deduct	-1.87	
For Schedule 80, Add	4.76	
32 31 13 13-0080 LF 2" Outside Diameter Galvanized Steel Post, >24' In Length.....	11.57	1.14
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	2.34	
For Vinyl Coated, Add	5.62	
For Powder Coated, Add	7.49	
For Aluminum Coated, Add	11.70	
For Schedule 20, Deduct	-1.87	
For Schedule 80, Add	4.71	

32 31 13 13-0081 Post Without Top Rail Fitting, Galvanized Steel (2.375" Nominal) (32 31 13 13-0059)
 Note: 2-1/2" outside diameter, Schedule 40. Includes cap and accessories.

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0082 LF 2-1/2" Outside Diameter Galvanized Steel Post, Up To 6' In Length	18.86	3.20
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	3.16	
For Vinyl Coated, Add	7.58	
For Powder Coated, Add	10.11	
For Aluminum Coated, Add	15.80	
For Schedule 20, Deduct	-2.53	
For Schedule 80, Add	6.69	
32 31 13 13-0083 LF 2-1/2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	17.88	2.74
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	3.13	
For Vinyl Coated, Add	7.52	
For Powder Coated, Add	10.02	
For Aluminum Coated, Add	15.66	
For Schedule 20, Deduct	-2.51	
For Schedule 80, Add	6.55	
32 31 13 13-0084 LF 2-1/2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	16.75	2.16
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	3.12	
For Vinyl Coated, Add	7.48	
For Powder Coated, Add	9.98	
For Aluminum Coated, Add	15.59	
For Schedule 20, Deduct	-2.49	
For Schedule 80, Add	6.41	
32 31 13 13-0085 LF 2-1/2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	15.86	1.71
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	3.11	
For Vinyl Coated, Add	7.46	
For Powder Coated, Add	9.95	
For Aluminum Coated, Add	15.55	
For Schedule 20, Deduct	-2.49	
For Schedule 80, Add	6.31	
32 31 13 13-0086 LF 2-1/2" Outside Diameter Galvanized Steel Post, 21 To 24' In Length	15.29	1.48
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	3.11	
For Vinyl Coated, Add	7.46	
For Powder Coated, Add	9.94	
For Aluminum Coated, Add	15.54	
For Schedule 20, Deduct	-2.49	
For Schedule 80, Add	6.25	
32 31 13 13-0087 LF 2-1/2" Outside Diameter Galvanized Steel Post, >24' In Length	14.74	1.14
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	3.11	
For Vinyl Coated, Add	7.46	
For Powder Coated, Add	9.94	
For Aluminum Coated, Add	15.54	
For Schedule 20, Deduct	-2.49	
For Schedule 80, Add	6.20	
32 31 13 13-0088 Post Without Top Rail Fitting, Galvanized Steel (2.875" Nominal) (32 31 13 13-0059)		
Note: 3" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0089 LF 3" Outside Diameter Galvanized Steel Post, Up To 6' In Length	25.91	3.42
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	4.77	
For Vinyl Coated, Add	11.44	
For Powder Coated, Add	15.25	
For Aluminum Coated, Add	23.83	
For Schedule 20, Deduct	-3.81	
For Schedule 80, Add	9.83	
32 31 13 13-0090 LF 3" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	24.73	2.97
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	4.71	
For Vinyl Coated, Add	11.30	
For Powder Coated, Add	15.06	
For Aluminum Coated, Add	23.54	
For Schedule 20, Deduct	-3.77	
For Schedule 80, Add	9.63	



Exterior Improvements	32	32
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0091 LF 3" Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	23.47	2.40
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	4.68	
For Vinyl Coated, Add	11.23	
For Powder Coated, Add	14.97	
For Aluminum Coated, Add	23.39	
For Schedule 20, Deduct	-3.74	
For Schedule 80, Add	9.46	
32 31 13 13-0092 LF 3" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	22.45	1.93
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	4.66	
For Vinyl Coated, Add	11.19	
For Powder Coated, Add	14.92	
For Aluminum Coated, Add	23.31	
For Schedule 20, Deduct	-3.73	
For Schedule 80, Add	9.33	
32 31 13 13-0093 LF 3" Outside Diameter Galvanized Steel Post, 21' To 24' In Length.....	21.78	1.59
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	4.66	
For Vinyl Coated, Add	11.17	
For Powder Coated, Add	14.90	
For Aluminum Coated, Add	23.28	
For Schedule 20, Deduct	-3.72	
For Schedule 80, Add	9.25	
32 31 13 13-0094 LF 3" Outside Diameter Galvanized Steel Post, >24' In Length.....	21.19	1.25
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	4.66	
For Vinyl Coated, Add	11.17	
For Powder Coated, Add	14.90	
For Aluminum Coated, Add	23.28	
For Schedule 20, Deduct	-3.72	
For Schedule 80, Add	9.19	
32 31 13 13-0095 Post Without Top Rail Fitting, Galvanized Steel, (4.00" Nominal) (32 31 13 13-0095)		
Note: 4" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0096 LF 4" Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	38.29	3.65
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	7.77	
For Vinyl Coated, Add	18.65	
For Powder Coated, Add	24.87	
For Aluminum Coated, Add	38.86	
For Schedule 20, Deduct	-6.22	
For Schedule 80, Add	15.64	
32 31 13 13-0097 LF 4" Outside Diameter Galvanized Steel Post, 7' To 10' In Length.....	36.67	2.97
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	7.67	
For Vinyl Coated, Add	18.40	
For Powder Coated, Add	24.53	
For Aluminum Coated, Add	38.33	
For Schedule 20, Deduct	-6.13	
For Schedule 80, Add	15.32	
32 31 13 13-0098 LF 4" Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	35.46	2.51
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	7.61	
For Vinyl Coated, Add	18.27	
For Powder Coated, Add	24.36	
For Aluminum Coated, Add	38.06	
For Schedule 20, Deduct	-6.09	
For Schedule 80, Add	15.12	
32 31 13 13-0099 LF 4" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	34.34	2.05
For Each Top Rail Fitting, Add	2.60	
For Each Single Barbed Wire Arm, Add	5.10	
For Each Double Barbed Wire Arm, Add	11.25	
For SS40 (Hot-Dip Galvanized And Chromated), Add	7.59	
For Vinyl Coated, Add	18.20	
For Powder Coated, Add	24.27	
For Aluminum Coated, Add	37.93	
For Schedule 20, Deduct	-6.07	
For Schedule 80, Add	14.96	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0100	LF		4" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	34.29	2.05
			<i>For Each Top Rail Fitting, Add</i>	2.60	
			<i>For Each Single Barbed Wire Arm, Add</i>	5.10	
			<i>For Each Double Barbed Wire Arm, Add</i>	11.25	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	7.57	
			<i>For Vinyl Coated, Add</i>	18.17	
			<i>For Powder Coated, Add</i>	24.23	
			<i>For Aluminum Coated, Add</i>	37.86	
			<i>For Schedule 20, Deduct</i>	-6.06	
			<i>For Schedule 80, Add</i>	14.94	
32 31 13 13-0101	LF		4" Outside Diameter Galvanized Steel Post, >24' In Length.....	33.14	1.48
			<i>For Each Top Rail Fitting, Add</i>	2.60	
			<i>For Each Single Barbed Wire Arm, Add</i>	5.10	
			<i>For Each Double Barbed Wire Arm, Add</i>	11.25	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	7.57	
			<i>For Vinyl Coated, Add</i>	18.17	
			<i>For Powder Coated, Add</i>	24.22	
			<i>For Aluminum Coated, Add</i>	37.85	
			<i>For Schedule 20, Deduct</i>	-6.06	
			<i>For Schedule 80, Add</i>	14.82	
32 31 13 13-0102			Post Without Top Rail Fitting, Galvanized Steel (6.625" Nominal) <small>(32 31 13 13-0059)</small>		
			Note: 6-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0103	LF		6-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	75.71	3.99
			<i>For Each Top Rail Fitting, Add</i>	4.55	
			<i>For Each Single Barbed Wire Arm, Add</i>	7.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	14.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	16.93	
			<i>For Vinyl Coated, Add</i>	40.62	
			<i>For Powder Coated, Add</i>	54.16	
			<i>For Aluminum Coated, Add</i>	84.63	
			<i>For Schedule 20, Deduct</i>	-13.54	
			<i>For Schedule 80, Add</i>	33.30	
32 31 13 13-0104	LF		6-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length.....	72.79	3.31
			<i>For Each Top Rail Fitting, Add</i>	4.55	
			<i>For Each Single Barbed Wire Arm, Add</i>	7.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	14.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	16.52	
			<i>For Vinyl Coated, Add</i>	39.65	
			<i>For Powder Coated, Add</i>	52.86	
			<i>For Aluminum Coated, Add</i>	82.60	
			<i>For Schedule 20, Deduct</i>	-13.22	
			<i>For Schedule 80, Add</i>	32.39	
32 31 13 13-0105	LF		6-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	70.84	2.74
			<i>For Each Top Rail Fitting, Add</i>	4.55	
			<i>For Each Single Barbed Wire Arm, Add</i>	7.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	14.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	16.32	
			<i>For Vinyl Coated, Add</i>	39.17	
			<i>For Powder Coated, Add</i>	52.22	
			<i>For Aluminum Coated, Add</i>	81.60	
			<i>For Schedule 20, Deduct</i>	-13.06	
			<i>For Schedule 80, Add</i>	31.89	
32 31 13 13-0106	LF		6-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	69.32	2.16
			<i>For Each Top Rail Fitting, Add</i>	4.55	
			<i>For Each Single Barbed Wire Arm, Add</i>	7.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	14.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	16.22	
			<i>For Vinyl Coated, Add</i>	38.92	
			<i>For Powder Coated, Add</i>	51.90	
			<i>For Aluminum Coated, Add</i>	81.09	
			<i>For Schedule 20, Deduct</i>	-12.97	
			<i>For Schedule 80, Add</i>	31.58	
32 31 13 13-0107	LF		6-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length.....	68.47	1.93
			<i>For Each Top Rail Fitting, Add</i>	4.55	
			<i>For Each Single Barbed Wire Arm, Add</i>	7.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	14.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	16.17	
			<i>For Vinyl Coated, Add</i>	38.80	
			<i>For Powder Coated, Add</i>	51.74	
			<i>For Aluminum Coated, Add</i>	80.84	
			<i>For Schedule 20, Deduct</i>	-12.93	
			<i>For Schedule 80, Add</i>	31.42	
32 31 13 13-0108	LF		6-5/8" Outside Diameter Galvanized Steel Post, >24' In Length.....	67.79	1.59
			<i>For Each Top Rail Fitting, Add</i>	4.55	
			<i>For Each Single Barbed Wire Arm, Add</i>	7.15	
			<i>For Each Double Barbed Wire Arm, Add</i>	14.95	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	16.16	
			<i>For Vinyl Coated, Add</i>	38.78	
			<i>For Powder Coated, Add</i>	51.70	
			<i>For Aluminum Coated, Add</i>	80.79	
			<i>For Schedule 20, Deduct</i>	-12.93	
			<i>For Schedule 80, Add</i>	31.34	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0109 Post Without Top Rail Fitting, Galvanized Steel (8.625" Nominal) <small>(32 31 13 13-0059)</small>		
<i>Note: 8-5/8" outside diameter, Schedule 40. Includes cap and accessories.</i>		
32 31 13 13-0110 LF 8-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	147.36	4.45
<i>For Each Top Rail Fitting, Add</i>		
<i>For Each Single Barbed Wire Arm, Add</i>		
<i>For Each Double Barbed Wire Arm, Add</i>		
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>		
<i>For Vinyl Coated, Add</i>		
<i>For Powder Coated, Add</i>		
<i>For Aluminum Coated, Add</i>		
<i>For Schedule 20, Deduct</i>		
<i>For Schedule 80, Add</i>		
32 31 13 13-0111 LF 8-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length.....	142.70	3.77
<i>For Each Top Rail Fitting, Add</i>		
<i>For Each Single Barbed Wire Arm, Add</i>		
<i>For Each Double Barbed Wire Arm, Add</i>		
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>		
<i>For Vinyl Coated, Add</i>		
<i>For Powder Coated, Add</i>		
<i>For Aluminum Coated, Add</i>		
<i>For Schedule 20, Deduct</i>		
<i>For Schedule 80, Add</i>		
32 31 13 13-0112 LF 8-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	139.83	3.08
<i>For Each Top Rail Fitting, Add</i>		
<i>For Each Single Barbed Wire Arm, Add</i>		
<i>For Each Double Barbed Wire Arm, Add</i>		
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>		
<i>For Vinyl Coated, Add</i>		
<i>For Powder Coated, Add</i>		
<i>For Aluminum Coated, Add</i>		
<i>For Schedule 20, Deduct</i>		
<i>For Schedule 80, Add</i>		
32 31 13 13-0113 LF 8-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	137.74	2.40
<i>For Each Top Rail Fitting, Add</i>		
<i>For Each Single Barbed Wire Arm, Add</i>		
<i>For Each Double Barbed Wire Arm, Add</i>		
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>		
<i>For Vinyl Coated, Add</i>		
<i>For Powder Coated, Add</i>		
<i>For Aluminum Coated, Add</i>		
<i>For Schedule 20, Deduct</i>		
<i>For Schedule 80, Add</i>		
32 31 13 13-0114 LF 8-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length.....	136.67	2.05
<i>For Each Top Rail Fitting, Add</i>		
<i>For Each Single Barbed Wire Arm, Add</i>		
<i>For Each Double Barbed Wire Arm, Add</i>		
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>		
<i>For Vinyl Coated, Add</i>		
<i>For Powder Coated, Add</i>		
<i>For Aluminum Coated, Add</i>		
<i>For Schedule 20, Deduct</i>		
<i>For Schedule 80, Add</i>		
32 31 13 13-0115 LF 8-5/8" Outside Diameter Galvanized Steel Post, >24' In Length.....	135.90	1.71
<i>For Each Top Rail Fitting, Add</i>		
<i>For Each Single Barbed Wire Arm, Add</i>		
<i>For Each Double Barbed Wire Arm, Add</i>		
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>		
<i>For Vinyl Coated, Add</i>		
<i>For Powder Coated, Add</i>		
<i>For Aluminum Coated, Add</i>		
<i>For Schedule 20, Deduct</i>		
<i>For Schedule 80, Add</i>		
32 31 13 13-0116 Driven Post Supports <small>(32 31 13 13)</small>		
<i>Note: OZ-Post.</i>		
32 31 13 13-0117 Driven Post Support For Round Chain Link Fence Posts <small>(32 31 13 13-0116)</small>		
32 31 13 13-0118 EA 26" Driven Post Support For 1-5/8" Round Chain Link Fence Post.....	71.29	
<i>Note: OZ-Post GB-700.</i>		
32 31 13 13-0119 EA 26" Driven Post Support For 1-7/8" To 2" Round Chain Link Fence Post.....	71.29	
<i>Note: OZ-Post HB-700.</i>		
32 31 13 13-0120 EA 26" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post.....	73.14	
<i>Note: OZ-Post IS-600.</i>		
32 31 13 13-0121 EA 32" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post.....	87.92	
<i>Note: OZ-Post ISW-850.</i>		
32 31 13 13-0122 Driven Post Support For Square Ornamental Fence Posts <small>(32 31 13 13-0116)</small>		
32 31 13 13-0123 EA 34" Driven Post Support For 1-3/4" Square Ornamental Fence Post.....	82.37	
<i>Note: OZ-Post C175-850.</i>		
32 31 13 13-0124 EA 24" Driven Post Support For 2" Square Ornamental Fence Post.....	79.60	
<i>Note: OZ-Post I2-600.</i>		
32 31 13 13-0125 EA 34" Driven Post Support For 2" Square Ornamental Fence Post.....	82.93	
<i>Note: OZ-Post I2-850.</i>		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0126 EA 34" Driven Post Support For 2-1/2" Square Ornamental Fence Post..... Note: OZ-Post I25-850.	87.92	
32 31 13 13-0127 EA 34" Driven Post Support For 3" Square Ornamental Fence Post..... Note: OZ-Post I3-850.	87.92	
32 31 13 13-0128 Driven Post Support For Wooden Fence Posts (32 31 13 13-0116)		
32 31 13 13-0129 EA 24" Driven Post Support For 3-1/2" Square Wooden Fence Post..... Note: OZ-Post T4-600.	81.14	
32 31 13 13-0130 EA 34" Driven Post Support For 3-1/2" Square Wooden Fence Post..... Note: OZ-Post T4-850.	85.14	
32 31 13 13-0131 EA 34" Driven Post Support For 3-3/4" Square Wooden Fence Post..... Note: OZ-Post C4-850.	91.61	
32 31 13 13-0132 EA 34" Driven Post Support For 4" Square Wooden Fence Post..... Note: OZ-Post P4-850.	91.61	
32 31 13 13-0133 EA 36" Driven Post Support For 4" x 6" Wooden Fence Post..... Note: OZ-Post T46-850.	103.62	
32 31 13 13-0134 EA 36" Driven Post Support For 6" Square Wooden Fence Post..... Note: OZ-Post T6-850.	112.12	
32 31 13 13-0135 Driven Post Support For Vinyl Fence Posts (32 31 13 13-0116)		
32 31 13 13-0136 EA 24" Driven Post Support For 3-1/2" Square Vinyl Fence Post Note: OZ-Post T4-600.	81.14	
32 31 13 13-0137 EA 34" Driven Post Support For 3-1/2" Square Vinyl Fence Post Note: OZ-Post T4-850.	85.14	
32 31 13 13-0138 EA 34" Driven Post Support For 4" Square Vinyl Fence Post..... Note: OZ-Post P4-850.	91.61	
32 31 13 13-0139 EA 34" Driven Post Support For 5" Square Vinyl Fence Post..... Note: OZ-Post P4-850.	93.09	
32 31 13 13-0140 Chain Link Fence Assemblies (32 31 13 13)		
32 31 13 13-0141 Chain Link Fence Assembly With 2-1/2" Line Post And 3" Corner Posts (32 31 13 13-0140) Note: Includes 2" 9 gauge coiled spring mesh (knuckled selvage), tension bars, post tension bands, wire ties, truss rod (at corners or posts), 1-5/8" top rail, 1-5/8" bottom rail, 2-1/2" line post and 3" corner posts. Posts exclude drilling or augering in soil or rock, concrete or soil fill. Heights indicated are from ground to top of installed pole. Minimum 2' bury with up to one third of exposed post height to be buried in ground. Excludes grounding. Demolition excludes concrete footing removal on posts and excavation. See CSI section 26 05 26 00-0000 for grounding, 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0666 for barb wire attachments.		
32 31 13 13-0142 Galvanized (32 31 13 13-0141)		
32 31 13 13-0143 LF 3' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	38.73	3.88
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.70	
For 13 Gauge Fabric, Deduct	-8.18	
For 11 Gauge Fabric, Deduct	-4.78	
For 6 Gauge Fabric, Add	7.51	
For 1" Mesh Fabric, Add	10.24	
For 1-3/4" Mesh Fabric, Add	4.10	
For 2-1/8" Mesh Fabric, Deduct	-2.05	
For 2-3/8" Mesh Fabric, Deduct	-2.73	
For Posts 8' On Centers, Add	2.12	
For Posts 5' On Centers, Add	7.96	
For Up To 100, Add	7.33	
For >100 To 250, Add	2.70	
For >2,500 To 5,000, Deduct	-1.35	
For >5,000, Deduct	-2.70	
32 31 13 13-0144 LF 3'-6" Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	40.31	3.88
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.79	
For 13 Gauge Fabric, Deduct	-8.64	
For 11 Gauge Fabric, Deduct	-5.05	
For 6 Gauge Fabric, Add	7.93	
For 1" Mesh Fabric, Add	10.82	
For 1-3/4" Mesh Fabric, Add	4.33	
For 2-1/8" Mesh Fabric, Deduct	-2.16	
For 2-3/8" Mesh Fabric, Deduct	-2.88	
For Posts 8' On Centers, Add	2.20	
For Posts 5' On Centers, Add	8.26	
For Up To 100, Add	7.59	
For >100 To 250, Add	2.79	
For >2,500 To 5,000, Deduct	-1.39	
For >5,000, Deduct	-2.79	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0145 LF 4' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	41.68	3.88
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.87	
For 13 Gauge Fabric, Deduct	-9.04	
For 11 Gauge Fabric, Deduct	-5.28	
For 6 Gauge Fabric, Add	8.29	
For 1" Mesh Fabric, Add	11.31	
For 1-3/4" Mesh Fabric, Add	4.52	
For 2-1/8" Mesh Fabric, Deduct	-2.26	
For 2-3/8" Mesh Fabric, Deduct	-3.02	
For Posts 8' On Centers, Add	2.27	
For Posts 5' On Centers, Add	8.52	
For Up To 100, Add	7.82	
For >100 To 250, Add	2.87	
For >2,500 To 5,000, Deduct	-1.43	
For >5,000, Deduct	-2.87	
32 31 13 13-0146 LF 5' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	44.90	3.88
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.05	
For 13 Gauge Fabric, Deduct	-9.98	
For 11 Gauge Fabric, Deduct	-5.83	
For 6 Gauge Fabric, Add	9.16	
For 1" Mesh Fabric, Add	12.49	
For 1-3/4" Mesh Fabric, Add	5.00	
For 2-1/8" Mesh Fabric, Deduct	-2.50	
For 2-3/8" Mesh Fabric, Deduct	-3.33	
For Posts 8' On Centers, Add	2.44	
For Posts 5' On Centers, Add	9.13	
For Up To 100, Add	8.35	
For >100 To 250, Add	3.05	
For >2,500 To 5,000, Deduct	-1.53	
For >5,000, Deduct	-3.05	
32 31 13 13-0147 LF 6' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	48.69	3.88
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.30	
For 13 Gauge Fabric, Deduct	-10.94	
For 11 Gauge Fabric, Deduct	-6.39	
For 6 Gauge Fabric, Add	10.04	
For 1" Mesh Fabric, Add	13.69	
For 1-3/4" Mesh Fabric, Add	5.48	
For 2-1/8" Mesh Fabric, Deduct	-2.74	
For 2-3/8" Mesh Fabric, Deduct	-3.65	
For Posts 8' On Centers, Add	2.64	
For Posts 5' On Centers, Add	9.88	
For Up To 100, Add	9.03	
For >100 To 250, Add	3.30	
For >2,500 To 5,000, Deduct	-1.65	
For >5,000, Deduct	-3.30	
32 31 13 13-0148 LF 7' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	50.58	5.81
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.42	
For 13 Gauge Fabric, Deduct	-11.37	
For 11 Gauge Fabric, Deduct	-6.64	
For 6 Gauge Fabric, Add	10.43	
For 1" Mesh Fabric, Add	14.23	
For 1-3/4" Mesh Fabric, Add	5.69	
For 2-1/8" Mesh Fabric, Deduct	-2.85	
For 2-3/8" Mesh Fabric, Deduct	-3.79	
For Posts 8' On Centers, Add	2.74	
For Posts 5' On Centers, Add	10.27	
For Up To 100, Add	9.37	
For >100 To 250, Add	3.42	
For >2,500 To 5,000, Deduct	-1.71	
For >5,000, Deduct	-3.42	
32 31 13 13-0149 LF 8' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	57.44	6.79
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.82	
For 13 Gauge Fabric, Deduct	-13.35	
For 11 Gauge Fabric, Deduct	-7.80	
For 6 Gauge Fabric, Add	12.25	
For 1" Mesh Fabric, Add	16.71	
For 1-3/4" Mesh Fabric, Add	6.68	
For 2-1/8" Mesh Fabric, Deduct	-3.34	
For 2-3/8" Mesh Fabric, Deduct	-4.46	
For Posts 8' On Centers, Add	3.10	
For Posts 5' On Centers, Add	11.58	
For Up To 100, Add	10.52	
For >100 To 250, Add	3.82	
For >2,500 To 5,000, Deduct	-1.91	
For >5,000, Deduct	-3.82	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 31 13 13-0150	LF	9' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	61.33	8.73
		<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	4.06	
		<i>For 13 Gauge Fabric, Deduct</i>	-14.38	
		<i>For 11 Gauge Fabric, Deduct</i>	-8.40	
		<i>For 6 Gauge Fabric, Add</i>	13.20	
		<i>For 1" Mesh Fabric, Add</i>	18.00	
		<i>For 1-3/4" Mesh Fabric, Add</i>	7.20	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-3.60	
		<i>For 2-3/8" Mesh Fabric, Deduct</i>	-4.80	
		<i>For Posts 8' On Centers, Add</i>	3.31	
		<i>For Posts 5' On Centers, Add</i>	12.34	
		<i>For Up To 100, Add</i>	11.19	
		<i>For >100 To 250, Add</i>	4.06	
		<i>For >2,500 To 5,000, Deduct</i>	-2.03	
		<i>For >5,000, Deduct</i>	-4.06	
32 31 13 13-0151	LF	10' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	65.22	9.69
		<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	4.30	
		<i>For 13 Gauge Fabric, Deduct</i>	-15.42	
		<i>For 11 Gauge Fabric, Deduct</i>	-9.01	
		<i>For 6 Gauge Fabric, Add</i>	14.15	
		<i>For 1" Mesh Fabric, Add</i>	19.30	
		<i>For 1-3/4" Mesh Fabric, Add</i>	7.72	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-3.86	
		<i>For 2-3/8" Mesh Fabric, Deduct</i>	-5.15	
		<i>For Posts 8' On Centers, Add</i>	3.51	
		<i>For Posts 5' On Centers, Add</i>	13.09	
		<i>For Up To 100, Add</i>	11.87	
		<i>For >100 To 250, Add</i>	4.30	
		<i>For >2,500 To 5,000, Deduct</i>	-2.15	
		<i>For >5,000, Deduct</i>	-4.30	
32 31 13 13-0152	LF	12' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	72.50	11.64
		<i>For Each Additional Foot >12, Add</i>	4.01	
		<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	4.75	
		<i>For 13 Gauge Fabric, Deduct</i>	-17.34	
		<i>For 11 Gauge Fabric, Deduct</i>	-10.13	
		<i>For 6 Gauge Fabric, Add</i>	15.92	
		<i>For 1" Mesh Fabric, Add</i>	21.71	
		<i>For 1-3/4" Mesh Fabric, Add</i>	8.68	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-4.34	
		<i>For 2-3/8" Mesh Fabric, Deduct</i>	-5.79	
		<i>For Posts 8' On Centers, Add</i>	3.90	
		<i>For Posts 5' On Centers, Add</i>	14.52	
		<i>For Up To 100, Add</i>	13.13	
		<i>For >100 To 250, Add</i>	4.75	
		<i>For >2,500 To 5,000, Deduct</i>	-2.38	
		<i>For >5,000, Deduct</i>	-4.75	
32 31 13 13-0153		Vinyl Coated <small>(32 31 13 13-0141)</small>		
32 31 13 13-0154	LF	4' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	43.27	3.88
		<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	4.14	
		<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	2.95	
		<i>For 13 Gauge Fabric, Deduct</i>	-9.59	
		<i>For 11 Gauge Fabric, Deduct</i>	-5.60	
		<i>For 6 Gauge Fabric, Add</i>	8.80	
		<i>For 1" Mesh Fabric, Add</i>	12.00	
		<i>For 1-3/4" Mesh Fabric, Add</i>	4.80	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.40	
		<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.20	
		<i>For Posts 8' On Centers, Add</i>	2.35	
		<i>For Posts 5' On Centers, Add</i>	8.81	
		<i>For Up To 100, Add</i>	8.06	
		<i>For >100 To 250, Add</i>	2.95	
		<i>For >2,500 To 5,000, Deduct</i>	-1.47	
		<i>For >5,000, Deduct</i>	-2.95	
32 31 13 13-0155	LF	5' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	46.91	3.88
		<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	4.61	
		<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.15	
		<i>For 13 Gauge Fabric, Deduct</i>	-10.68	
		<i>For 11 Gauge Fabric, Deduct</i>	-6.24	
		<i>For 6 Gauge Fabric, Add</i>	9.80	
		<i>For 1" Mesh Fabric, Add</i>	13.37	
		<i>For 1-3/4" Mesh Fabric, Add</i>	5.35	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.67	
		<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.56	
		<i>For Posts 8' On Centers, Add</i>	2.54	
		<i>For Posts 5' On Centers, Add</i>	9.50	
		<i>For Up To 100, Add</i>	8.65	
		<i>For >100 To 250, Add</i>	3.15	
		<i>For >2,500 To 5,000, Deduct</i>	-1.58	
		<i>For >5,000, Deduct</i>	-3.15	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0156 LF 6' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	52.75	3.88
For Powder Coated Framework (Posts, Rails, Hardware), Add	5.33	
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.50	
For 13 Gauge Fabric, Deduct	-12.35	
For 11 Gauge Fabric, Deduct	-7.21	
For 6 Gauge Fabric, Add	11.33	
For 1" Mesh Fabric, Add	15.46	
For 1-3/4" Mesh Fabric, Add	6.18	
For 2-1/8" Mesh Fabric, Deduct	-3.09	
For 2-3/8" Mesh Fabric, Deduct	-4.12	
For Posts 8' On Centers, Add	2.84	
For Posts 5' On Centers, Add	10.61	
For Up To 100, Add	9.63	
For >100 To 250, Add	3.50	
For >2,500 To 5,000, Deduct	-1.75	
For >5,000, Deduct	-3.50	
32 31 13 13-0157 LF 7' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	55.31	5.81
For Powder Coated Framework (Posts, Rails, Hardware), Add	5.62	
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.66	
For 13 Gauge Fabric, Deduct	-13.01	
For 11 Gauge Fabric, Deduct	-7.60	
For 6 Gauge Fabric, Add	11.94	
For 1" Mesh Fabric, Add	16.29	
For 1-3/4" Mesh Fabric, Add	6.51	
For 2-1/8" Mesh Fabric, Deduct	-3.26	
For 2-3/8" Mesh Fabric, Deduct	-4.34	
For Posts 8' On Centers, Add	2.98	
For Posts 5' On Centers, Add	11.12	
For Up To 100, Add	10.08	
For >100 To 250, Add	3.66	
For >2,500 To 5,000, Deduct	-1.83	
For >5,000, Deduct	-3.66	
32 31 13 13-0158 LF 8' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	62.96	6.79
For Powder Coated Framework (Posts, Rails, Hardware), Add	6.59	
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	4.10	
For 13 Gauge Fabric, Deduct	-15.27	
For 11 Gauge Fabric, Deduct	-8.92	
For 6 Gauge Fabric, Add	14.01	
For 1" Mesh Fabric, Add	19.11	
For 1-3/4" Mesh Fabric, Add	7.64	
For 2-1/8" Mesh Fabric, Deduct	-3.82	
For 2-3/8" Mesh Fabric, Deduct	-5.10	
For Posts 8' On Centers, Add	3.38	
For Posts 5' On Centers, Add	12.57	
For Up To 100, Add	11.35	
For >100 To 250, Add	4.10	
For >2,500 To 5,000, Deduct	-2.05	
For >5,000, Deduct	-4.10	
32 31 13 13-0159 LF 9' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	67.25	8.73
For Powder Coated Framework (Posts, Rails, Hardware), Add	7.10	
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	4.36	
For 13 Gauge Fabric, Deduct	-16.44	
For 11 Gauge Fabric, Deduct	-9.60	
For 6 Gauge Fabric, Add	15.09	
For 1" Mesh Fabric, Add	20.58	
For 1-3/4" Mesh Fabric, Add	8.23	
For 2-1/8" Mesh Fabric, Deduct	-4.12	
For 2-3/8" Mesh Fabric, Deduct	-5.49	
For Posts 8' On Centers, Add	3.60	
For Posts 5' On Centers, Add	13.40	
For Up To 100, Add	12.08	
For >100 To 250, Add	4.36	
For >2,500 To 5,000, Deduct	-2.18	
For >5,000, Deduct	-4.36	
32 31 13 13-0160 LF 10' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	71.54	9.69
For Powder Coated Framework (Posts, Rails, Hardware), Add	7.60	
For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	4.62	
For 13 Gauge Fabric, Deduct	-17.61	
For 11 Gauge Fabric, Deduct	-10.29	
For 6 Gauge Fabric, Add	16.17	
For 1" Mesh Fabric, Add	22.05	
For 1-3/4" Mesh Fabric, Add	8.82	
For 2-1/8" Mesh Fabric, Deduct	-4.41	
For 2-3/8" Mesh Fabric, Deduct	-5.88	
For Posts 8' On Centers, Add	3.83	
For Posts 5' On Centers, Add	14.23	
For Up To 100, Add	12.82	
For >100 To 250, Add	4.62	
For >2,500 To 5,000, Deduct	-2.31	
For >5,000, Deduct	-4.62	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0161	LF	12' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	78.06	11.64
			<i>For Each Additional Foot >12, Add</i>	4.26	
			<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	8.32	
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	5.03	
			<i>For 13 Gauge Fabric, Deduct</i>	-19.28	
			<i>For 11 Gauge Fabric, Deduct</i>	-11.26	
			<i>For 6 Gauge Fabric, Add</i>	17.69	
			<i>For 1" Mesh Fabric, Add</i>	24.13	
			<i>For 1-3/4" Mesh Fabric, Add</i>	9.65	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-4.83	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-6.43	
			<i>For Posts 8' On Centers, Add</i>	4.17	
			<i>For Posts 5' On Centers, Add</i>	15.52	
			<i>For Up To 100, Add</i>	13.97	
			<i>For >100 To 250, Add</i>	5.03	
			<i>For >2,500 To 5,000, Deduct</i>	-2.52	
			<i>For >5,000, Deduct</i>	-5.03	
32 31	13 13-0162		Rails <small>(32 31 13 13)</small>		
			Note: Includes rail end fittings.		
32 31	13 13-0163		SS-20 Chain Link Fence Rails <small>(32 31 13 13-0162)</small>		
			Note: Includes tie wires.		
32 31	13 13-0164	LF	1-3/8" Galvanized Steel Rail, 0.08" Wall Thickness, Tie Wires And Fittings.....	6.99	1.25
			<i>For SS15, Deduct</i>	-0.44	
			<i>For SS40, Add</i>	1.09	
32 31	13 13-0165	LF	1-3/8" Vinyl Coated Rail, 0.08" Wall Thickness, Tie Wires And Fittings.....	8.46	1.25
			<i>For SS40, Add</i>	0.58	
			<i>For Powder Coated, Add</i>	1.17	
			<i>For Aluminum Coated, Add</i>	2.33	
32 31	13 13-0166	LF	1-5/8" Galvanized Steel Rail, 0.085" Wall Thickness, Tie Wires And Fittings.....	8.67	1.42
			<i>For SS15, Deduct</i>	-0.58	
			<i>For SS40, Add</i>	1.45	
32 31	13 13-0167	LF	1-5/8" Vinyl Coated Rail, 0.085" Wall Thickness, Tie Wires And Fittings.....	10.63	1.42
			<i>For SS40, Add</i>	0.78	
			<i>For Powder Coated, Add</i>	1.55	
			<i>For Aluminum Coated, Add</i>	3.11	
32 31	13 13-0168	LF	2" Galvanized Steel Rail, 0.09" Wall Thickness, Tie Wires And Fittings.....	10.17	1.59
			<i>For SS40, Add</i>	1.74	
32 31	13 13-0169	LF	2" Vinyl Coated Rail, 0.09" Wall Thickness, Tie Wires And Fittings.....	12.52	1.59
			<i>For SS40, Add</i>	0.93	
			<i>For Powder Coated, Add</i>	1.86	
			<i>For Aluminum Coated, Add</i>	3.73	
32 31	13 13-0170		Fabric <small>(32 31 13 13)</small>		
32 31	13 13-0171		Fabric, Galvanized Chain Link <small>(32 31 13 13-0170)</small>		
32 31	13 13-0172	LF	3' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	11.33	2.29
			<i>For 1-1/4" Mesh Fabric, Add</i>	1.09	
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	0.98	
			<i>For 13 Gauge Fabric, Deduct</i>	-1.76	
			<i>For 11 Gauge Fabric, Deduct</i>	-0.98	
			<i>For 6 Gauge Fabric, Add</i>	3.13	
			<i>For 1" Mesh Fabric, Add</i>	2.93	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1.96	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1.17	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.59	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-0.78	
32 31	13 13-0173	LF	3-6" Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	12.55	2.57
			<i>For 1-1/4" Mesh Fabric, Add</i>	1.28	
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	1.14	
			<i>For 13 Gauge Fabric, Deduct</i>	-2.05	
			<i>For 11 Gauge Fabric, Deduct</i>	-1.14	
			<i>For 6 Gauge Fabric, Add</i>	3.65	
			<i>For 1" Mesh Fabric, Add</i>	3.42	
			<i>For 1-1/4" Mesh Fabric, Add</i>	2.28	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1.37	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.68	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-0.91	
32 31	13 13-0174	LF	4' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	13.58	2.86
			<i>For 1-1/4" Mesh Fabric, Add</i>	1.41	
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	1.26	
			<i>For 13 Gauge Fabric, Deduct</i>	-2.26	
			<i>For 11 Gauge Fabric, Deduct</i>	-1.26	
			<i>For 6 Gauge Fabric, Add</i>	4.02	
			<i>For 1" Mesh Fabric, Add</i>	3.77	
			<i>For 1-1/4" Mesh Fabric, Add</i>	2.51	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1.51	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.75	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-1.00	



	Exterior Improvements	32
	Site Improvements	32 30
	Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0175 LF 5' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	15.38	3.42
For 1-1/4" Mesh Fabric, Add	1.75	
For 2 Oz Galvanized Or Zinc Coating, Add	1.57	
For 13 Gauge Fabric, Deduct	-2.82	
For 11 Gauge Fabric, Deduct	-1.57	
For 6 Gauge Fabric, Add	5.01	
For 1" Mesh Fabric, Add	4.70	
For 1-1/4" Mesh Fabric, Add	3.13	
For 1-3/4" Mesh Fabric, Add	1.88	
For 2-1/8" Mesh Fabric, Deduct	-0.94	
For 2-3/8" Mesh Fabric, Deduct	-1.25	
32 31 13 13-0176 LF 6' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	17.29	3.99
For 1-1/4" Mesh Fabric, Add	2.11	
For 2 Oz Galvanized Or Zinc Coating, Add	1.88	
For 13 Gauge Fabric, Deduct	-3.38	
For 11 Gauge Fabric, Deduct	-1.88	
For 6 Gauge Fabric, Add	6.02	
For 1" Mesh Fabric, Add	5.64	
For 1-1/4" Mesh Fabric, Add	3.76	
For 1-3/4" Mesh Fabric, Add	2.26	
For 2-1/8" Mesh Fabric, Deduct	-1.13	
For 2-3/8" Mesh Fabric, Deduct	-1.50	
32 31 13 13-0177 LF 7' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	19.28	4.56
For 1-1/4" Mesh Fabric, Add	2.45	
For 2 Oz Galvanized Or Zinc Coating, Add	2.19	
For 13 Gauge Fabric, Deduct	-3.94	
For 11 Gauge Fabric, Deduct	-2.19	
For 6 Gauge Fabric, Add	7.01	
For 1" Mesh Fabric, Add	6.57	
For 1-1/4" Mesh Fabric, Add	4.38	
For 1-3/4" Mesh Fabric, Add	2.63	
For 2-1/8" Mesh Fabric, Deduct	-1.31	
For 2-3/8" Mesh Fabric, Deduct	-1.75	
32 31 13 13-0178 LF 8' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	21.43	5.70
For 1-1/4" Mesh Fabric, Add	2.81	
For 2 Oz Galvanized Or Zinc Coating, Add	2.51	
For 13 Gauge Fabric, Deduct	-4.51	
For 11 Gauge Fabric, Deduct	-2.51	
For 6 Gauge Fabric, Add	8.02	
For 1" Mesh Fabric, Add	7.52	
For 1-1/4" Mesh Fabric, Add	5.01	
For 1-3/4" Mesh Fabric, Add	3.01	
For 2-1/8" Mesh Fabric, Deduct	-1.50	
For 2-3/8" Mesh Fabric, Deduct	-2.00	
32 31 13 13-0179 LF 10' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	25.60	6.27
For 1-1/4" Mesh Fabric, Add	3.64	
For 2 Oz Galvanized Or Zinc Coating, Add	3.25	
For 13 Gauge Fabric, Deduct	-5.85	
For 11 Gauge Fabric, Deduct	-3.25	
For 6 Gauge Fabric, Add	10.41	
For 1" Mesh Fabric, Add	9.76	
For 1-1/4" Mesh Fabric, Add	6.51	
For 1-3/4" Mesh Fabric, Add	3.90	
For 2-1/8" Mesh Fabric, Deduct	-1.95	
For 2-3/8" Mesh Fabric, Deduct	-2.60	
32 31 13 13-0180 LF 12' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	29.28	6.85
For 1-1/4" Mesh Fabric, Add	4.37	
For 2 Oz Galvanized Or Zinc Coating, Add	3.90	
For 13 Gauge Fabric, Deduct	-7.02	
For 11 Gauge Fabric, Deduct	-3.90	
For 6 Gauge Fabric, Add	12.47	
For 1" Mesh Fabric, Add	11.69	
For 1-1/4" Mesh Fabric, Add	7.80	
For 1-3/4" Mesh Fabric, Add	4.68	
For 2-1/8" Mesh Fabric, Deduct	-2.34	
For 2-3/8" Mesh Fabric, Deduct	-3.12	
32 31 13 13-0181 LF 14' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	32.72	7.99
For 1-1/4" Mesh Fabric, Add	4.69	
For 2 Oz Galvanized Or Zinc Coating, Add	4.19	
For 13 Gauge Fabric, Deduct	-7.54	
For 11 Gauge Fabric, Deduct	-4.19	
For 6 Gauge Fabric, Add	13.40	
For 1" Mesh Fabric, Add	12.56	
For 1-1/4" Mesh Fabric, Add	8.38	
For 1-3/4" Mesh Fabric, Add	5.03	
For 2-1/8" Mesh Fabric, Deduct	-2.51	
For 2-3/8" Mesh Fabric, Deduct	-3.35	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0182 LF 16' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	36.16	9.12
For 1-1/4" Mesh Fabric, Add	5.01	
For 2 Oz Galvanized Or Zinc Coating, Add	4.48	
For 13 Gauge Fabric, Deduct	-8.06	
For 11 Gauge Fabric, Deduct	-4.48	
For 6 Gauge Fabric, Add	14.33	
For 1" Mesh Fabric, Add	13.43	
For 1-1/4" Mesh Fabric, Add	8.96	
For 1-3/4" Mesh Fabric, Add	5.37	
For 2-1/8" Mesh Fabric, Deduct	-2.69	
For 2-3/8" Mesh Fabric, Deduct	-3.58	
32 31 13 13-0183 SF >16' Full Height Fabric Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	2.26	0.53
For 1-1/4" Mesh Fabric, Add	0.31	
For 2 Oz Galvanized Or Zinc Coating, Add	0.28	
For 13 Gauge Fabric, Deduct	-0.50	
For 11 Gauge Fabric, Deduct	-0.28	
For 6 Gauge Fabric, Add	0.90	
For 1" Mesh Fabric, Add	0.84	
For 1-1/4" Mesh Fabric, Add	0.56	
For 1-3/4" Mesh Fabric, Add	0.34	
For 2-1/8" Mesh Fabric, Deduct	-0.17	
For 2-3/8" Mesh Fabric, Deduct	-0.22	
32 31 13 13-0184 Fabric, Vinyl Coated Chain Link (22 31 13 13-0170)		
32 31 13 13-0185 LF 4' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	15.17	2.29
For 1-1/4" Mesh Fabric, Add	1.85	
For 13 Gauge Fabric, Deduct	-2.97	
For 11 Gauge Fabric, Deduct	-1.65	
For 6 Gauge Fabric, Add	5.29	
For 1" Mesh Fabric, Add	4.96	
For 1-1/4" Mesh Fabric, Add	3.31	
For 1-3/4" Mesh Fabric, Add	1.98	
For 2-1/8" Mesh Fabric, Deduct	-0.99	
For 2-3/8" Mesh Fabric, Deduct	-1.32	
For Aluminum Coated, Add	2.64	
32 31 13 13-0186 LF 5' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	17.38	3.42
For 1-1/4" Mesh Fabric, Add	2.31	
For 13 Gauge Fabric, Deduct	-3.72	
For 11 Gauge Fabric, Deduct	-2.07	
For 6 Gauge Fabric, Add	6.61	
For 1" Mesh Fabric, Add	6.20	
For 1-1/4" Mesh Fabric, Add	4.13	
For 1-3/4" Mesh Fabric, Add	2.48	
For 2-1/8" Mesh Fabric, Deduct	-1.24	
For 2-3/8" Mesh Fabric, Deduct	-1.65	
For Aluminum Coated, Add	3.30	
32 31 13 13-0187 LF 6' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	21.36	3.99
For 1-1/4" Mesh Fabric, Add	3.25	
For 13 Gauge Fabric, Deduct	-5.22	
For 11 Gauge Fabric, Deduct	-2.90	
For 6 Gauge Fabric, Add	9.27	
For 1" Mesh Fabric, Add	8.69	
For 1-1/4" Mesh Fabric, Add	5.80	
For 1-3/4" Mesh Fabric, Add	3.48	
For 2-1/8" Mesh Fabric, Deduct	-1.74	
For 2-3/8" Mesh Fabric, Deduct	-2.32	
For Aluminum Coated, Add	4.64	
32 31 13 13-0188 LF 7' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	24.01	4.56
For 1-1/4" Mesh Fabric, Add	3.78	
For 13 Gauge Fabric, Deduct	-6.07	
For 11 Gauge Fabric, Deduct	-3.37	
For 6 Gauge Fabric, Add	10.79	
For 1" Mesh Fabric, Add	10.12	
For 1-1/4" Mesh Fabric, Add	6.75	
For 1-3/4" Mesh Fabric, Add	4.05	
For 2-1/8" Mesh Fabric, Deduct	-2.02	
For 2-3/8" Mesh Fabric, Deduct	-2.70	
For Aluminum Coated, Add	5.40	
32 31 13 13-0189 LF 8' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh.....	26.94	5.70
For 1-1/4" Mesh Fabric, Add	4.35	
For 13 Gauge Fabric, Deduct	-6.99	
For 11 Gauge Fabric, Deduct	-3.88	
For 6 Gauge Fabric, Add	12.42	
For 1" Mesh Fabric, Add	11.65	
For 1-1/4" Mesh Fabric, Add	7.77	
For 1-3/4" Mesh Fabric, Add	4.66	
For 2-1/8" Mesh Fabric, Deduct	-2.33	
For 2-3/8" Mesh Fabric, Deduct	-3.11	
For Aluminum Coated, Add	6.21	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0190	LF	10' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh For 1-1/4" Mesh Fabric, Add For 13 Gauge Fabric, Deduct For 11 Gauge Fabric, Deduct For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For 2-3/8" Mesh Fabric, Deduct For Aluminum Coated, Add	31.92 5.41 -8.70 -4.83 15.46 14.50 9.67 5.80 -2.90 -3.87 7.73	6.27
32 31	13 13-0191	LF	12' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh For 1-1/4" Mesh Fabric, Add For 13 Gauge Fabric, Deduct For 11 Gauge Fabric, Deduct For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For 2-3/8" Mesh Fabric, Deduct For Aluminum Coated, Add	34.84 5.92 -9.52 -5.29 16.92 15.86 10.58 6.35 -3.17 -4.23 8.46	6.85
32 31	13 13-0192	LF	14' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh For 1-1/4" Mesh Fabric, Add For 13 Gauge Fabric, Deduct For 11 Gauge Fabric, Deduct For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For 2-3/8" Mesh Fabric, Deduct For Aluminum Coated, Add	39.25 6.52 -10.48 -5.82 18.62 17.46 11.64 6.98 -3.49 -4.66 9.31	7.99
32 31	13 13-0193	LF	16' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh For 1-1/4" Mesh Fabric, Add For 13 Gauge Fabric, Deduct For 11 Gauge Fabric, Deduct For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For 2-3/8" Mesh Fabric, Deduct For Aluminum Coated, Add	43.76 7.14 -11.48 -6.38 20.41 19.13 12.76 7.65 -3.83 -5.10 10.20	9.12
32 31	13 13-0194	SF	>16' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh For 1-1/4" Mesh Fabric, Add For 13 Gauge Fabric, Deduct For 11 Gauge Fabric, Deduct For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For 2-3/8" Mesh Fabric, Deduct For Aluminum Coated, Add	2.73 0.45 -0.72 -0.40 1.27 1.19 0.80 0.48 -0.24 -0.32 0.64	0.53
32 31 13 13-0195 Fabric, Aluminized Steel Chain Link <small>(32 31 13 13-0170)</small>					
32 31	13 13-0196	LF	3' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add	10.80 2.70 3.55	2.29
32 31	13 13-0197	LF	3'-6" Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add	11.91 3.14 4.12	2.57
32 31	13 13-0198	LF	4' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add	13.05 3.59 4.71	2.86
32 31	13 13-0199	LF	5' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add	14.73 4.49 5.89	3.42
32 31	13 13-0200	LF	6' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add	16.48 5.37 7.05	3.99
32 31	13 13-0201	LF	7' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add	18.37 6.28 8.24	4.56
32 31	13 13-0202	LF	8' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add	20.37 7.17 9.41	5.70
32 31	13 13-0203	LF	10' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add	23.79 8.96 11.76	6.27
32 31	13 13-0204	LF	12' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add	27.13 10.75 14.11	6.85

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0205		Fabric, All Aluminum Chain Link <small>(32 31 13 13-0170)</small>		
	32 31 13 13-0206	LF	3' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	16.25 7.06 9.27	2.29
	32 31 13 13-0207	LF	3'-6" Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	18.29 8.24 10.82	2.57
	32 31 13 13-0208	LF	4' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	20.33 9.42 12.36	2.86
	32 31 13 13-0209	LF	5' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	23.83 11.77 15.45	3.42
	32 31 13 13-0210	LF	6' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	27.43 14.13 18.54	3.99
	32 31 13 13-0211	LF	7' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	31.12 16.48 21.63	4.56
	32 31 13 13-0212	LF	8' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	34.95 18.83 24.72	5.70
	32 31 13 13-0213	LF	10' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	42.02 23.54 30.90	6.27
	32 31 13 13-0214	LF	12' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	49.00 28.25 37.08	6.85
32 31 13	13-0215		Fence Inserts <small>(32 31 13 13-0170)</small> Note: For use with new or existing chain link fence, per lf of fence.		
32 31 13	13-0216		Vinyl Plastic Fence Inserts <small>(32 31 13 13-0215)</small> Note: Assorted colors.		
	32 31 13 13-0217	LF	3' High Fence, Vinyl Plastic Fence Insert.....	8.68	
	32 31 13 13-0218	LF	3-1/2' High Fence, Vinyl Plastic Fence Insert.....	9.90	
	32 31 13 13-0219	LF	4' High Fence, Vinyl Plastic Fence Insert.....	10.90	
	32 31 13 13-0220	LF	5' High Fence, Vinyl Plastic Fence Insert.....	13.69	
	32 31 13 13-0221	LF	6' High Fence, Vinyl Plastic Fence Insert.....	16.37	
	32 31 13 13-0222	LF	7' High Fence, Vinyl Plastic Fence Insert.....	19.14	
	32 31 13 13-0223	LF	8' High Fence, Vinyl Plastic Fence Insert.....	21.83	
	32 31 13 13-0224	LF	10' High Fence, Vinyl Plastic Fence Insert.....	26.68	
32 31 13	13-0225		Aluminum Fence Inserts <small>(32 31 13 13-0215)</small> Note: Assorted colors.		
	32 31 13 13-0226	LF	3' High Fence, Aluminum Fence Insert.....	21.82	
	32 31 13 13-0227	LF	3-1/2' High Fence, Aluminum Fence Insert.....	24.00	
	32 31 13 13-0228	LF	4' High Fence, Aluminum Fence Insert.....	27.54	
	32 31 13 13-0229	LF	5' High Fence, Aluminum Fence Insert.....	34.46	
	32 31 13 13-0230	LF	6' High Fence, Aluminum Fence Insert.....	41.36	
	32 31 13 13-0231	LF	7' High Fence, Aluminum Fence Insert.....	45.25	
	32 31 13 13-0232	LF	8' High Fence, Aluminum Fence Insert.....	55.12	
	32 31 13 13-0233	LF	10' High Fence, Aluminum Fence Insert.....	68.16	
32 31 13	13-0234		Redwood Fence Inserts <small>(32 31 13 13-0215)</small>		
	32 31 13 13-0235	LF	4' High Fence, Redwood Fence Insert.....	12.89	
	32 31 13 13-0236	LF	5' High Fence, Redwood Fence Insert.....	16.29	
	32 31 13 13-0237	LF	6' High Fence, Redwood Fence Insert.....	19.57	
	32 31 13 13-0238	LF	7' High Fence, Redwood Fence Insert.....	22.78	
	32 31 13 13-0239	LF	8' High Fence, Redwood Fence Insert.....	26.07	
32 31 13	13-0240		Diagonal Flexible Polyethylene Inserts <small>(32 31 13 13-0215)</small>		
	32 31 13 13-0241	SF	Diagonal Polyethylene Fence Weave.....	3.46	
32 31 13	13-0242		Hedge Link Fence Inserts <small>(32 31 13 13-0215)</small>		
	32 31 13 13-0243	LF	3' High Fence, Hedge Link Fence Insert.....	18.74	
	32 31 13 13-0244	LF	3-1/2' High Fence, Hedge Link Fence Insert.....	21.35	
	32 31 13 13-0245	LF	4' High Fence, Hedge Link Fence Insert.....	24.97	
	32 31 13 13-0246	LF	5' High Fence, Hedge Link Fence Insert.....	30.77	
	32 31 13 13-0247	LF	6' High Fence, Hedge Link Fence Insert.....	35.15	
	32 31 13 13-0248	LF	7' High Fence, Hedge Link Fence Insert.....	44.52	
	32 31 13 13-0249	LF	8' High Fence, Hedge Link Fence Insert.....	50.55	
	32 31 13 13-0250	LF	10' High Fence, Hedge Link Fence Insert.....	60.47	
	32 31 13 13-0251	LF	12' High Fence, Hedge Link Fence Insert.....	69.37	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				32 31 13 13-0252 Fence Windscreen Fabric <small>(32 31 13 13-0170)</small>		
				Note: Includes plastic wire clips.		
			SF	Vinyl Coated Polyester Windscreen For Fence, 7 Oz Per SY.....	1.15	0.50
				For Sewn Boxed Vent (Each), Add	26.08	
				For Welded Boxed Vent (Each), Add	13.04	
				For 4' x 4' One Color Logo (Each), Add	543.25	
				32 31 13 13-0254 Non-Climbable Fabric, Galvanized Chain Link <small>(32 31 13 13-0170)</small>		
			LF	3' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	30.48	2.29
				For 11 Gauge, Deduct	-4.61	
				For 10 Gauge, Deduct	-1.84	
				For 7 Gauge, Add	2.77	
				For 6 Gauge, Add	6.46	
				For 1/2" Mesh Fabric, Deduct	-1.15	
				For 5/8" Mesh Fabric, Deduct	-2.54	
				For 3/4" Mesh Fabric, Deduct	-3.69	
			LF	3'-6" Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	34.89	2.57
				For 11 Gauge, Deduct	-5.38	
				For 10 Gauge, Deduct	-2.15	
				For 7 Gauge, Add	3.23	
				For 6 Gauge, Add	7.53	
				For 1/2" Mesh Fabric, Deduct	-1.35	
				For 5/8" Mesh Fabric, Deduct	-2.96	
				For 3/4" Mesh Fabric, Deduct	-4.30	
			LF	4' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	39.34	2.86
				For 11 Gauge, Deduct	-6.16	
				For 10 Gauge, Deduct	-2.46	
				For 7 Gauge, Add	3.69	
				For 6 Gauge, Add	8.62	
				For 1/2" Mesh Fabric, Deduct	-1.54	
				For 5/8" Mesh Fabric, Deduct	-3.39	
				For 3/4" Mesh Fabric, Deduct	-4.92	
			LF	5' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	47.57	3.42
				For 11 Gauge, Deduct	-7.69	
				For 10 Gauge, Deduct	-3.08	
				For 7 Gauge, Add	4.61	
				For 6 Gauge, Add	10.77	
				For 1/2" Mesh Fabric, Deduct	-1.92	
				For 5/8" Mesh Fabric, Deduct	-4.23	
				For 3/4" Mesh Fabric, Deduct	-6.15	
			LF	6' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	55.90	3.99
				For 11 Gauge, Deduct	-9.23	
				For 10 Gauge, Deduct	-3.69	
				For 7 Gauge, Add	5.54	
				For 6 Gauge, Add	12.92	
				For 1/2" Mesh Fabric, Deduct	-2.31	
				For 5/8" Mesh Fabric, Deduct	-5.07	
				For 3/4" Mesh Fabric, Deduct	-7.38	
			LF	7' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	64.34	4.56
				For 11 Gauge, Deduct	-10.76	
				For 10 Gauge, Deduct	-4.31	
				For 7 Gauge, Add	6.46	
				For 6 Gauge, Add	15.07	
				For 1/2" Mesh Fabric, Deduct	-2.69	
				For 5/8" Mesh Fabric, Deduct	-5.92	
				For 3/4" Mesh Fabric, Deduct	-8.61	
			LF	8' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	72.93	5.70
				For 11 Gauge, Deduct	-12.30	
				For 10 Gauge, Deduct	-4.92	
				For 7 Gauge, Add	7.38	
				For 6 Gauge, Add	17.23	
				For 1/2" Mesh Fabric, Deduct	-3.08	
				For 5/8" Mesh Fabric, Deduct	-6.77	
				For 3/4" Mesh Fabric, Deduct	-9.84	
			LF	9' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	80.46	5.98
				For 11 Gauge, Deduct	-13.70	
				For 10 Gauge, Deduct	-5.48	
				For 7 Gauge, Add	8.22	
				For 6 Gauge, Add	19.17	
				For 1/2" Mesh Fabric, Deduct	-3.42	
				For 5/8" Mesh Fabric, Deduct	-7.53	
				For 3/4" Mesh Fabric, Deduct	-10.96	
			LF	10' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	88.02	6.27
				For 11 Gauge, Deduct	-15.09	
				For 10 Gauge, Deduct	-6.03	
				For 7 Gauge, Add	9.05	
				For 6 Gauge, Add	21.12	
				For 1/2" Mesh Fabric, Deduct	-3.77	
				For 5/8" Mesh Fabric, Deduct	-8.30	
				For 3/4" Mesh Fabric, Deduct	-12.07	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0264	LF		12' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	95.46	6.85
			<i>For 11 Gauge, Deduct</i>	-16.35	
			<i>For 10 Gauge, Deduct</i>	-6.54	
			<i>For 7 Gauge, Add</i>	9.81	
			<i>For 6 Gauge, Add</i>	22.90	
			<i>For 1/2" Mesh Fabric, Deduct</i>	-4.09	
			<i>For 5/8" Mesh Fabric, Deduct</i>	-8.99	
			<i>For 3/4" Mesh Fabric, Deduct</i>	-13.08	
32 31 13 13-0265			Gates <small>(32 31 13 13)</small>		
			Note: Posts exclude drilling or augering in soil or rock. For barbed wire attached directly to posts and gates, select gates and posts sizes for full finished height of gate above grade (top rail to be at lower height, includes barb wire at top area where mesh would be). See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 13 13-0266			Galvanized Steel Without Barbed Wire <small>(32 31 13 13-0265)</small>		
			Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter for > 6' To 12' wide, 6-5/8" diameter for >12' To 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.		
32 31 13 13-0267			4' Fence Height <small>(32 31 13 13-0266)</small>		
32 31 13 13-0268	EA		3' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	343.48	22.33
			<i>For Gate With Single Barb Wire Arm, Add</i>	30.11	
			<i>For Gate With Double Barb Wire Arm, Add</i>	43.79	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-51.32	
			<i>For Aluminized Steel Gate And Post, Add</i>	131.38	
			<i>For Powder Coated Gate And Post, Add</i>	71.16	
			<i>For 1" Mesh Fabric, Add</i>	119.06	
			<i>For 1-1/4" Mesh Fabric, Add</i>	76.64	
			<i>For 1-3/4" Mesh Fabric, Add</i>	47.63	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-23.81	
32 31 13 13-0269	EA		4' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	434.72	23.26
			<i>For Gate With Single Barb Wire Arm, Add</i>	40.14	
			<i>For Gate With Double Barb Wire Arm, Add</i>	58.39	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-68.43	
			<i>For Aluminized Steel Gate And Post, Add</i>	175.18	
			<i>For Powder Coated Gate And Post, Add</i>	94.89	
			<i>For 1" Mesh Fabric, Add</i>	158.75	
			<i>For 1-1/4" Mesh Fabric, Add</i>	102.19	
			<i>For 1-3/4" Mesh Fabric, Add</i>	63.50	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-31.75	
32 31 13 13-0270	EA		5' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	515.04	24.75
			<i>For Gate With Single Barb Wire Arm, Add</i>	48.47	
			<i>For Gate With Double Barb Wire Arm, Add</i>	70.50	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-82.61	
			<i>For Aluminized Steel Gate And Post, Add</i>	211.49	
			<i>For Powder Coated Gate And Post, Add</i>	114.56	
			<i>For 1" Mesh Fabric, Add</i>	191.67	
			<i>For 1-1/4" Mesh Fabric, Add</i>	123.37	
			<i>For 1-3/4" Mesh Fabric, Add</i>	76.67	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-38.33	
32 31 13 13-0271	EA		6' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	605.60	29.77
			<i>For Gate With Single Barb Wire Arm, Add</i>	56.79	
			<i>For Gate With Double Barb Wire Arm, Add</i>	82.60	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-96.80	
			<i>For Aluminized Steel Gate And Post, Add</i>	247.81	
			<i>For Powder Coated Gate And Post, Add</i>	134.23	
			<i>For 1" Mesh Fabric, Add</i>	224.58	
			<i>For 1-1/4" Mesh Fabric, Add</i>	144.56	
			<i>For 1-3/4" Mesh Fabric, Add</i>	89.83	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-44.92	
32 31 13 13-0272	EA		7' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	696.14	34.70
			<i>For Gate With Single Barb Wire Arm, Add</i>	65.11	
			<i>For Gate With Double Barb Wire Arm, Add</i>	94.71	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-110.99	
			<i>For Aluminized Steel Gate And Post, Add</i>	284.13	
			<i>For Powder Coated Gate And Post, Add</i>	153.90	
			<i>For 1" Mesh Fabric, Add</i>	257.49	
			<i>For 1-1/4" Mesh Fabric, Add</i>	165.74	
			<i>For 1-3/4" Mesh Fabric, Add</i>	103.00	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-51.50	
32 31 13 13-0273	EA		8' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire.....	789.80	39.63
			<i>For Gate With Single Barb Wire Arm, Add</i>	73.78	
			<i>For Gate With Double Barb Wire Arm, Add</i>	107.31	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-125.76	
			<i>For Aluminized Steel Gate And Post, Add</i>	321.94	
			<i>For Powder Coated Gate And Post, Add</i>	174.38	
			<i>For 1" Mesh Fabric, Add</i>	291.76	
			<i>For 1-1/4" Mesh Fabric, Add</i>	187.80	
			<i>For 1-3/4" Mesh Fabric, Add</i>	116.70	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-58.35	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0274 EA 9' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	880.34	44.66
For Gate With Single Barb Wire Arm, Add	82.10	
For Gate With Double Barb Wire Arm, Add	119.42	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-139.94	
For Aluminized Steel Gate And Post, Add	358.26	
For Powder Coated Gate And Post, Add	194.06	
For 1" Mesh Fabric, Add	324.67	
For 1-1/4" Mesh Fabric, Add	208.98	
For 1-3/4" Mesh Fabric, Add	129.87	
For 2-1/8" Mesh Fabric, Deduct	-64.93	
32 31 13 13-0275 EA 10' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	972.22	49.59
For Gate With Single Barb Wire Arm, Add	90.57	
For Gate With Double Barb Wire Arm, Add	131.74	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-154.38	
For Aluminized Steel Gate And Post, Add	395.21	
For Powder Coated Gate And Post, Add	214.07	
For 1" Mesh Fabric, Add	358.16	
For 1-1/4" Mesh Fabric, Add	230.54	
For 1-3/4" Mesh Fabric, Add	143.26	
For 2-1/8" Mesh Fabric, Deduct	-71.63	
32 31 13 13-0276 EA 10' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,243.71	49.59
For Gate With Single Barb Wire Arm, Add	120.43	
For Gate With Double Barb Wire Arm, Add	175.18	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-205.28	
For Aluminized Steel Gate And Post, Add	525.53	
For Powder Coated Gate And Post, Add	284.66	
For 1" Mesh Fabric, Add	476.26	
For 1-1/4" Mesh Fabric, Add	306.56	
For 1-3/4" Mesh Fabric, Add	190.50	
For 2-1/8" Mesh Fabric, Deduct	-95.25	
32 31 13 13-0277 EA 12' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,473.32	53.12
For Gate With Single Barb Wire Arm, Add	144.52	
For Gate With Double Barb Wire Arm, Add	210.21	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-246.34	
For Aluminized Steel Gate And Post, Add	630.63	
For Powder Coated Gate And Post, Add	341.59	
For 1" Mesh Fabric, Add	571.51	
For 1-1/4" Mesh Fabric, Add	367.87	
For 1-3/4" Mesh Fabric, Add	228.60	
For 2-1/8" Mesh Fabric, Deduct	-114.30	
32 31 13 13-0278 EA 14' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,704.56	57.22
For Gate With Single Barb Wire Arm, Add	168.61	
For Gate With Double Barb Wire Arm, Add	245.25	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-287.40	
For Aluminized Steel Gate And Post, Add	735.74	
For Powder Coated Gate And Post, Add	398.53	
For 1" Mesh Fabric, Add	666.76	
For 1-1/4" Mesh Fabric, Add	429.18	
For 1-3/4" Mesh Fabric, Add	266.71	
For 2-1/8" Mesh Fabric, Deduct	-133.35	
32 31 13 13-0279 EA 16' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,937.84	61.96
For Gate With Single Barb Wire Arm, Add	192.69	
For Gate With Double Barb Wire Arm, Add	280.28	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-328.46	
For Aluminized Steel Gate And Post, Add	840.84	
For Powder Coated Gate And Post, Add	455.46	
For 1" Mesh Fabric, Add	762.02	
For 1-1/4" Mesh Fabric, Add	490.49	
For 1-3/4" Mesh Fabric, Add	304.81	
For 2-1/8" Mesh Fabric, Deduct	-152.40	
32 31 13 13-0280 EA 18' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,209.84	79.58
For Gate With Single Barb Wire Arm, Add	216.78	
For Gate With Double Barb Wire Arm, Add	315.32	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-369.51	
For Aluminized Steel Gate And Post, Add	945.95	
For Powder Coated Gate And Post, Add	512.39	
For 1" Mesh Fabric, Add	857.27	
For 1-1/4" Mesh Fabric, Add	551.80	
For 1-3/4" Mesh Fabric, Add	342.91	
For 2-1/8" Mesh Fabric, Deduct	-171.45	
32 31 13 13-0281 EA 20' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,445.89	85.30
For Gate With Single Barb Wire Arm, Add	240.87	
For Gate With Double Barb Wire Arm, Add	350.35	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-410.57	
For Aluminized Steel Gate And Post, Add	1,051.06	
For Powder Coated Gate And Post, Add	569.32	
For 1" Mesh Fabric, Add	952.52	
For 1-1/4" Mesh Fabric, Add	613.12	
For 1-3/4" Mesh Fabric, Add	381.01	
For 2-1/8" Mesh Fabric, Deduct	-190.50	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0282	EA	22' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,679.21	91.91
		<i>For Gate With Single Barb Wire Arm, Add</i>	264.37	
		<i>For Gate With Double Barb Wire Arm, Add</i>	384.53	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-450.62	
		<i>For Aluminized Steel Gate And Post, Add</i>	1,153.59	
		<i>For Powder Coated Gate And Post, Add</i>	624.86	
		<i>For 1" Mesh Fabric, Add</i>	1,045.44	
		<i>For 1-1/4" Mesh Fabric, Add</i>	672.93	
		<i>For 1-3/4" Mesh Fabric, Add</i>	418.18	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-209.09	
32 31 13 13-0283	EA	24' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,915.83	99.53
		<i>For Gate With Single Barb Wire Arm, Add</i>	287.86	
		<i>For Gate With Double Barb Wire Arm, Add</i>	418.71	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-490.68	
		<i>For Aluminized Steel Gate And Post, Add</i>	1,256.14	
		<i>For Powder Coated Gate And Post, Add</i>	680.41	
		<i>For 1" Mesh Fabric, Add</i>	1,138.37	
		<i>For 1-1/4" Mesh Fabric, Add</i>	732.75	
		<i>For 1-3/4" Mesh Fabric, Add</i>	455.35	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-227.67	
32 31 13 13-0284	EA	26' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,156.63	108.60
		<i>For Gate With Single Barb Wire Arm, Add</i>	311.36	
		<i>For Gate With Double Barb Wire Arm, Add</i>	452.89	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-530.73	
		<i>For Aluminized Steel Gate And Post, Add</i>	1,358.68	
		<i>For Powder Coated Gate And Post, Add</i>	735.95	
		<i>For 1" Mesh Fabric, Add</i>	1,231.30	
		<i>For 1-1/4" Mesh Fabric, Add</i>	792.56	
		<i>For 1-3/4" Mesh Fabric, Add</i>	492.52	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-246.26	
32 31 13 13-0285	EA	28' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,322.76	119.47
		<i>For Gate With Single Barb Wire Arm, Add</i>	326.05	
		<i>For Gate With Double Barb Wire Arm, Add</i>	474.26	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-555.77	
		<i>For Aluminized Steel Gate And Post, Add</i>	1,422.77	
		<i>For Powder Coated Gate And Post, Add</i>	770.67	
		<i>For 1" Mesh Fabric, Add</i>	1,289.38	
		<i>For 1-1/4" Mesh Fabric, Add</i>	829.95	
		<i>For 1-3/4" Mesh Fabric, Add</i>	515.75	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-257.88	
32 31 13 13-0286	EA	30' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,683.04	132.70
		<i>For Gate With Single Barb Wire Arm, Add</i>	361.30	
		<i>For Gate With Double Barb Wire Arm, Add</i>	525.53	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-615.85	
		<i>For Aluminized Steel Gate And Post, Add</i>	1,576.58	
		<i>For Powder Coated Gate And Post, Add</i>	853.98	
		<i>For 1" Mesh Fabric, Add</i>	1,428.77	
		<i>For 1-1/4" Mesh Fabric, Add</i>	919.67	
		<i>For 1-3/4" Mesh Fabric, Add</i>	571.51	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-285.75	
32 31 13 13-0287		5' Fence Height <small>(32 31 13 13-0266)</small>		
32 31 13 13-0288	EA	3' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	412.68	24.75
		<i>For Gate With Single Barb Wire Arm, Add</i>	37.21	
		<i>For Gate With Double Barb Wire Arm, Add</i>	54.12	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-63.42	
		<i>For Aluminized Steel Gate And Post, Add</i>	162.36	
		<i>For Powder Coated Gate And Post, Add</i>	87.95	
		<i>For 1" Mesh Fabric, Add</i>	147.14	
		<i>For 1-1/4" Mesh Fabric, Add</i>	94.71	
		<i>For 1-3/4" Mesh Fabric, Add</i>	58.86	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-29.43	
32 31 13 13-0289	EA	4' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	523.94	24.75
		<i>For Gate With Single Barb Wire Arm, Add</i>	49.45	
		<i>For Gate With Double Barb Wire Arm, Add</i>	71.92	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-84.28	
		<i>For Aluminized Steel Gate And Post, Add</i>	215.76	
		<i>For Powder Coated Gate And Post, Add</i>	116.87	
		<i>For 1" Mesh Fabric, Add</i>	195.54	
		<i>For 1-1/4" Mesh Fabric, Add</i>	125.86	
		<i>For 1-3/4" Mesh Fabric, Add</i>	78.21	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-39.11	
32 31 13 13-0290	EA	5' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire.....	613.17	26.33
		<i>For Gate With Single Barb Wire Arm, Add</i>	58.75	
		<i>For Gate With Double Barb Wire Arm, Add</i>	85.45	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-100.14	
		<i>For Aluminized Steel Gate And Post, Add</i>	256.35	
		<i>For Powder Coated Gate And Post, Add</i>	138.86	
		<i>For 1" Mesh Fabric, Add</i>	232.32	
		<i>For 1-1/4" Mesh Fabric, Add</i>	149.54	
		<i>For 1-3/4" Mesh Fabric, Add</i>	92.93	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-46.46	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0291 EA 6' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	717.99	31.63
For Gate With Single Barb Wire Arm, Add	68.54	
For Gate With Double Barb Wire Arm, Add	99.69	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-116.83	
For Aluminized Steel Gate And Post, Add	299.08	
For Powder Coated Gate And Post, Add	162.00	
For 1" Mesh Fabric, Add	271.04	
For 1-1/4" Mesh Fabric, Add	174.46	
For 1-3/4" Mesh Fabric, Add	108.42	
For 2-1/8" Mesh Fabric, Deduct	-54.21	
32 31 13 13-0292 EA 7' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	813.91	36.85
For Gate With Single Barb Wire Arm, Add	77.35	
For Gate With Double Barb Wire Arm, Add	112.51	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-131.85	
For Aluminized Steel Gate And Post, Add	337.53	
For Powder Coated Gate And Post, Add	182.83	
For 1" Mesh Fabric, Add	305.89	
For 1-1/4" Mesh Fabric, Add	196.89	
For 1-3/4" Mesh Fabric, Add	122.36	
For 2-1/8" Mesh Fabric, Deduct	-61.18	
32 31 13 13-0293 EA 8' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	919.67	42.42
For Gate With Single Barb Wire Arm, Add	87.14	
For Gate With Double Barb Wire Arm, Add	126.75	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-148.54	
For Aluminized Steel Gate And Post, Add	380.26	
For Powder Coated Gate And Post, Add	205.97	
For 1" Mesh Fabric, Add	344.61	
For 1-1/4" Mesh Fabric, Add	221.82	
For 1-3/4" Mesh Fabric, Add	137.84	
For 2-1/8" Mesh Fabric, Deduct	-68.92	
32 31 13 13-0294 EA 9' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	1,020.05	47.73
For Gate With Single Barb Wire Arm, Add	96.44	
For Gate With Double Barb Wire Arm, Add	140.28	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-164.39	
For Aluminized Steel Gate And Post, Add	420.85	
For Powder Coated Gate And Post, Add	227.96	
For 1" Mesh Fabric, Add	381.39	
For 1-1/4" Mesh Fabric, Add	245.50	
For 1-3/4" Mesh Fabric, Add	152.56	
For 2-1/8" Mesh Fabric, Deduct	-76.28	
32 31 13 13-0295 EA 10' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	1,120.43	52.93
For Gate With Single Barb Wire Arm, Add	105.75	
For Gate With Double Barb Wire Arm, Add	153.81	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-180.25	
For Aluminized Steel Gate And Post, Add	461.44	
For Powder Coated Gate And Post, Add	249.95	
For 1" Mesh Fabric, Add	418.18	
For 1-1/4" Mesh Fabric, Add	269.17	
For 1-3/4" Mesh Fabric, Add	167.27	
For 2-1/8" Mesh Fabric, Deduct	-83.64	
32 31 13 13-0296 EA 10' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,516.04	53.12
For Gate With Single Barb Wire Arm, Add	149.22	
For Gate With Double Barb Wire Arm, Add	217.05	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-254.35	
For Aluminized Steel Gate And Post, Add	651.14	
For Powder Coated Gate And Post, Add	352.70	
For 1" Mesh Fabric, Add	590.09	
For 1-1/4" Mesh Fabric, Add	379.83	
For 1-3/4" Mesh Fabric, Add	236.04	
For 2-1/8" Mesh Fabric, Deduct	-118.02	
32 31 13 13-0297 EA 12' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,800.69	57.22
For Gate With Single Barb Wire Arm, Add	179.18	
For Gate With Double Barb Wire Arm, Add	260.63	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-305.42	
For Aluminized Steel Gate And Post, Add	781.88	
For Powder Coated Gate And Post, Add	423.52	
For 1" Mesh Fabric, Add	708.58	
For 1-1/4" Mesh Fabric, Add	456.10	
For 1-3/4" Mesh Fabric, Add	283.43	
For 2-1/8" Mesh Fabric, Deduct	-141.72	
32 31 13 13-0298 EA 14' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,087.38	61.96
For Gate With Single Barb Wire Arm, Add	209.14	
For Gate With Double Barb Wire Arm, Add	304.21	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-356.49	
For Aluminized Steel Gate And Post, Add	912.62	
For Powder Coated Gate And Post, Add	494.34	
For 1" Mesh Fabric, Add	827.07	
For 1-1/4" Mesh Fabric, Add	532.36	
For 1-3/4" Mesh Fabric, Add	330.83	
For 2-1/8" Mesh Fabric, Deduct	-165.41	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0299	EA		16' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,412.78	79.58
			<i>For Gate With Single Barb Wire Arm, Add</i>	239.10	
			<i>For Gate With Double Barb Wire Arm, Add</i>	347.79	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-407.56	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,043.36	
			<i>For Powder Coated Gate And Post, Add</i>	565.15	
			<i>For 1" Mesh Fabric, Add</i>	945.55	
			<i>For 1-1/4" Mesh Fabric, Add</i>	608.63	
			<i>For 1-3/4" Mesh Fabric, Add</i>	378.22	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-189.11	
32 31 13 13-0300	EA		18' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,696.90	85.30
			<i>For Gate With Single Barb Wire Arm, Add</i>	268.48	
			<i>For Gate With Double Barb Wire Arm, Add</i>	390.51	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-457.63	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,171.54	
			<i>For Powder Coated Gate And Post, Add</i>	634.58	
			<i>For 1" Mesh Fabric, Add</i>	1,061.71	
			<i>For 1-1/4" Mesh Fabric, Add</i>	683.40	
			<i>For 1-3/4" Mesh Fabric, Add</i>	424.68	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-212.34	
32 31 13 13-0301	EA		20' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,994.32	91.91
			<i>For Gate With Single Barb Wire Arm, Add</i>	299.03	
			<i>For Gate With Double Barb Wire Arm, Add</i>	434.95	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-509.71	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,304.85	
			<i>For Powder Coated Gate And Post, Add</i>	706.79	
			<i>For 1" Mesh Fabric, Add</i>	1,182.52	
			<i>For 1-1/4" Mesh Fabric, Add</i>	761.16	
			<i>For 1-3/4" Mesh Fabric, Add</i>	473.01	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-236.50	
32 31 13 13-0302	EA		22' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,289.68	99.53
			<i>For Gate With Single Barb Wire Arm, Add</i>	328.99	
			<i>For Gate With Double Barb Wire Arm, Add</i>	478.53	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-560.78	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,435.58	
			<i>For Powder Coated Gate And Post, Add</i>	777.61	
			<i>For 1" Mesh Fabric, Add</i>	1,301.00	
			<i>For 1-1/4" Mesh Fabric, Add</i>	837.42	
			<i>For 1-3/4" Mesh Fabric, Add</i>	520.40	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-260.20	
32 31 13 13-0303	EA		24' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,583.89	108.60
			<i>For Gate With Single Barb Wire Arm, Add</i>	358.36	
			<i>For Gate With Double Barb Wire Arm, Add</i>	521.25	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-610.85	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,563.76	
			<i>For Powder Coated Gate And Post, Add</i>	847.04	
			<i>For 1" Mesh Fabric, Add</i>	1,417.16	
			<i>For 1-1/4" Mesh Fabric, Add</i>	912.20	
			<i>For 1-3/4" Mesh Fabric, Add</i>	566.86	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-283.43	
32 31 13 13-0304	EA		26' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,894.22	119.47
			<i>For Gate With Single Barb Wire Arm, Add</i>	388.91	
			<i>For Gate With Double Barb Wire Arm, Add</i>	565.69	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-662.92	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,697.07	
			<i>For Powder Coated Gate And Post, Add</i>	919.25	
			<i>For 1" Mesh Fabric, Add</i>	1,537.97	
			<i>For 1-1/4" Mesh Fabric, Add</i>	989.96	
			<i>For 1-3/4" Mesh Fabric, Add</i>	615.19	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-307.59	
32 31 13 13-0305	EA		28' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	4,203.07	132.70
			<i>For Gate With Single Barb Wire Arm, Add</i>	418.50	
			<i>For Gate With Double Barb Wire Arm, Add</i>	608.73	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-713.36	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,826.19	
			<i>For Powder Coated Gate And Post, Add</i>	989.19	
			<i>For 1" Mesh Fabric, Add</i>	1,654.99	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,065.28	
			<i>For 1-3/4" Mesh Fabric, Add</i>	662.00	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-331.00	
32 31 13 13-0306	EA		30' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	4,517.95	149.29
			<i>For Gate With Single Barb Wire Arm, Add</i>	447.66	
			<i>For Gate With Double Barb Wire Arm, Add</i>	651.14	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-763.06	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,953.42	
			<i>For Powder Coated Gate And Post, Add</i>	1,058.10	
			<i>For 1" Mesh Fabric, Add</i>	1,770.29	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,139.50	
			<i>For 1-3/4" Mesh Fabric, Add</i>	708.12	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-354.06	

32 31 13 13-0307 6' Fence Height (32 31 13 13-0266)



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0308 EA 3' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	442.46	26.51
For Gate With Single Barb Wire Arm, Add	39.90	
For Gate With Double Barb Wire Arm, Add	58.04	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-68.01	
For Aluminized Steel Gate And Post, Add	174.11	
For Powder Coated Gate And Post, Add	94.31	
For 1" Mesh Fabric, Add	157.78	
For 1-1/4" Mesh Fabric, Add	101.56	
For 1-3/4" Mesh Fabric, Add	63.11	
For 2-1/8" Mesh Fabric, Deduct	-31.56	
32 31 13 13-0309 EA 4' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	562.63	26.51
For Gate With Single Barb Wire Arm, Add	53.12	
For Gate With Double Barb Wire Arm, Add	77.26	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-90.54	
For Aluminized Steel Gate And Post, Add	231.79	
For Powder Coated Gate And Post, Add	125.55	
For 1" Mesh Fabric, Add	210.06	
For 1-1/4" Mesh Fabric, Add	135.21	
For 1-3/4" Mesh Fabric, Add	84.02	
For 2-1/8" Mesh Fabric, Deduct	-42.01	
32 31 13 13-0310 EA 5' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	659.47	28.19
For Gate With Single Barb Wire Arm, Add	63.23	
For Gate With Double Barb Wire Arm, Add	91.97	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-107.78	
For Aluminized Steel Gate And Post, Add	275.90	
For Powder Coated Gate And Post, Add	149.45	
For 1" Mesh Fabric, Add	250.04	
For 1-1/4" Mesh Fabric, Add	160.94	
For 1-3/4" Mesh Fabric, Add	100.02	
For 2-1/8" Mesh Fabric, Deduct	-50.01	
32 31 13 13-0311 EA 6' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	765.48	34.05
For Gate With Single Barb Wire Arm, Add	72.95	
For Gate With Double Barb Wire Arm, Add	106.10	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-124.34	
For Aluminized Steel Gate And Post, Add	318.31	
For Powder Coated Gate And Post, Add	172.42	
For 1" Mesh Fabric, Add	288.47	
For 1-1/4" Mesh Fabric, Add	185.68	
For 1-3/4" Mesh Fabric, Add	115.39	
For 2-1/8" Mesh Fabric, Deduct	-57.69	
32 31 13 13-0312 EA 7' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	876.62	40.01
For Gate With Single Barb Wire Arm, Add	83.23	
For Gate With Double Barb Wire Arm, Add	121.06	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-141.86	
For Aluminized Steel Gate And Post, Add	363.17	
For Powder Coated Gate And Post, Add	196.72	
For 1" Mesh Fabric, Add	329.12	
For 1-1/4" Mesh Fabric, Add	211.85	
For 1-3/4" Mesh Fabric, Add	131.65	
For 2-1/8" Mesh Fabric, Deduct	-65.82	
32 31 13 13-0313 EA 8' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	982.37	45.58
For Gate With Single Barb Wire Arm, Add	93.02	
For Gate With Double Barb Wire Arm, Add	135.30	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-158.55	
For Aluminized Steel Gate And Post, Add	405.89	
For Powder Coated Gate And Post, Add	219.86	
For 1" Mesh Fabric, Add	367.84	
For 1-1/4" Mesh Fabric, Add	236.77	
For 1-3/4" Mesh Fabric, Add	147.14	
For 2-1/8" Mesh Fabric, Deduct	-73.57	
32 31 13 13-0314 EA 9' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	1,089.08	51.45
For Gate With Single Barb Wire Arm, Add	102.81	
For Gate With Double Barb Wire Arm, Add	149.54	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-175.24	
For Aluminized Steel Gate And Post, Add	448.62	
For Powder Coated Gate And Post, Add	243.00	
For 1" Mesh Fabric, Add	406.56	
For 1-1/4" Mesh Fabric, Add	261.70	
For 1-3/4" Mesh Fabric, Add	162.63	
For 2-1/8" Mesh Fabric, Deduct	-81.31	
32 31 13 13-0315 EA 10' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	1,155.69	57.31
For Gate With Single Barb Wire Arm, Add	108.19	
For Gate With Double Barb Wire Arm, Add	157.37	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-184.42	
For Aluminized Steel Gate And Post, Add	472.12	
For Powder Coated Gate And Post, Add	255.73	
For 1" Mesh Fabric, Add	427.86	
For 1-1/4" Mesh Fabric, Add	275.40	
For 1-3/4" Mesh Fabric, Add	171.14	
For 2-1/8" Mesh Fabric, Deduct	-85.57	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0316 EA 10' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	1,619.11	57.22
For Gate With Single Barb Wire Arm, Add	159.21	
For Gate With Double Barb Wire Arm, Add	231.57	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-271.38	
For Aluminized Steel Gate And Post, Add	694.72	
For Powder Coated Gate And Post, Add	376.31	
For 1" Mesh Fabric, Add	629.59	
For 1-1/4" Mesh Fabric, Add	405.26	
For 1-3/4" Mesh Fabric, Add	251.84	
For 2-1/8" Mesh Fabric, Deduct	-125.92	
32 31 13 13-0317 EA 12' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	1,921.81	61.96
For Gate With Single Barb Wire Arm, Add	190.93	
For Gate With Double Barb Wire Arm, Add	277.72	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-325.45	
For Aluminized Steel Gate And Post, Add	833.15	
For Powder Coated Gate And Post, Add	451.29	
For 1" Mesh Fabric, Add	755.04	
For 1-1/4" Mesh Fabric, Add	486.00	
For 1-3/4" Mesh Fabric, Add	302.02	
For 2-1/8" Mesh Fabric, Deduct	-151.01	
32 31 13 13-0318 EA 14' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,285.66	85.30
For Gate With Single Barb Wire Arm, Add	223.24	
For Gate With Double Barb Wire Arm, Add	324.72	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-380.53	
For Aluminized Steel Gate And Post, Add	974.15	
For Powder Coated Gate And Post, Add	527.66	
For 1" Mesh Fabric, Add	882.82	
For 1-1/4" Mesh Fabric, Add	568.25	
For 1-3/4" Mesh Fabric, Add	353.13	
For 2-1/8" Mesh Fabric, Deduct	-176.56	
32 31 13 13-0319 EA 16' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,593.76	91.91
For Gate With Single Barb Wire Arm, Add	254.97	
For Gate With Double Barb Wire Arm, Add	370.86	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-434.60	
For Aluminized Steel Gate And Post, Add	1,112.58	
For Powder Coated Gate And Post, Add	602.65	
For 1" Mesh Fabric, Add	1,008.27	
For 1-1/4" Mesh Fabric, Add	649.00	
For 1-3/4" Mesh Fabric, Add	403.31	
For 2-1/8" Mesh Fabric, Deduct	-201.65	
32 31 13 13-0320 EA 18' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,910.49	99.53
For Gate With Single Barb Wire Arm, Add	287.28	
For Gate With Double Barb Wire Arm, Add	417.86	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-489.68	
For Aluminized Steel Gate And Post, Add	1,253.57	
For Powder Coated Gate And Post, Add	679.02	
For 1" Mesh Fabric, Add	1,136.05	
For 1-1/4" Mesh Fabric, Add	731.25	
For 1-3/4" Mesh Fabric, Add	454.42	
For 2-1/8" Mesh Fabric, Deduct	-227.21	
32 31 13 13-0321 EA 20' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,231.40	108.60
For Gate With Single Barb Wire Arm, Add	319.59	
For Gate With Double Barb Wire Arm, Add	464.86	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-544.75	
For Aluminized Steel Gate And Post, Add	1,394.57	
For Powder Coated Gate And Post, Add	755.39	
For 1" Mesh Fabric, Add	1,263.83	
For 1-1/4" Mesh Fabric, Add	813.50	
For 1-3/4" Mesh Fabric, Add	505.53	
For 2-1/8" Mesh Fabric, Deduct	-252.77	
32 31 13 13-0322 EA 22' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,552.41	119.47
For Gate With Single Barb Wire Arm, Add	351.31	
For Gate With Double Barb Wire Arm, Add	511.00	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-598.83	
For Aluminized Steel Gate And Post, Add	1,533.00	
For Powder Coated Gate And Post, Add	830.38	
For 1" Mesh Fabric, Add	1,389.28	
For 1-1/4" Mesh Fabric, Add	894.25	
For 1-3/4" Mesh Fabric, Add	555.71	
For 2-1/8" Mesh Fabric, Deduct	-277.86	
32 31 13 13-0323 EA 24' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,883.32	132.70
For Gate With Single Barb Wire Arm, Add	383.33	
For Gate With Double Barb Wire Arm, Add	557.57	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-653.40	
For Aluminized Steel Gate And Post, Add	1,672.71	
For Powder Coated Gate And Post, Add	906.05	
For 1" Mesh Fabric, Add	1,515.90	
For 1-1/4" Mesh Fabric, Add	975.75	
For 1-3/4" Mesh Fabric, Add	606.36	
For 2-1/8" Mesh Fabric, Deduct	-303.18	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0324 EA 26' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,221.00	149.29
For Gate With Single Barb Wire Arm, Add	414.99	
For Gate With Double Barb Wire Arm, Add	603.63	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-707.38	
For Aluminized Steel Gate And Post, Add	1,810.89	
For Powder Coated Gate And Post, Add	980.90	
For 1" Mesh Fabric, Add	1,641.12	
For 1-1/4" Mesh Fabric, Add	1,056.35	
For 1-3/4" Mesh Fabric, Add	656.45	
For 2-1/8" Mesh Fabric, Deduct	-328.22	
32 31 13 13-0325 EA 28' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,576.65	170.58
For Gate With Single Barb Wire Arm, Add	447.07	
For Gate With Double Barb Wire Arm, Add	650.29	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-762.05	
For Aluminized Steel Gate And Post, Add	1,950.86	
For Powder Coated Gate And Post, Add	1,056.72	
For 1" Mesh Fabric, Add	1,767.97	
For 1-1/4" Mesh Fabric, Add	1,138.00	
For 1-3/4" Mesh Fabric, Add	707.19	
For 2-1/8" Mesh Fabric, Deduct	-353.59	
32 31 13 13-0326 EA 30' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,954.18	199.05
For Gate With Single Barb Wire Arm, Add	479.21	
For Gate With Double Barb Wire Arm, Add	697.03	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-816.83	
For Aluminized Steel Gate And Post, Add	2,091.09	
For Powder Coated Gate And Post, Add	1,132.67	
For 1" Mesh Fabric, Add	1,895.05	
For 1-1/4" Mesh Fabric, Add	1,219.80	
For 1-3/4" Mesh Fabric, Add	758.02	
For 2-1/8" Mesh Fabric, Deduct	-379.01	
32 31 13 13-0327 7' Fence Height (32 31 13 13-0266)		
32 31 13 13-0328 EA 3' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	464.18	28.56
For Gate With Single Barb Wire Arm, Add	41.61	
For Gate With Double Barb Wire Arm, Add	60.53	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-70.93	
For Aluminized Steel Gate And Post, Add	181.58	
For Powder Coated Gate And Post, Add	98.36	
For 1" Mesh Fabric, Add	164.56	
For 1-1/4" Mesh Fabric, Add	105.92	
For 1-3/4" Mesh Fabric, Add	65.82	
For 2-1/8" Mesh Fabric, Deduct	-32.91	
32 31 13 13-0329 EA 4' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	588.80	28.56
For Gate With Single Barb Wire Arm, Add	55.32	
For Gate With Double Barb Wire Arm, Add	80.47	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-94.30	
For Aluminized Steel Gate And Post, Add	241.40	
For Powder Coated Gate And Post, Add	130.76	
For 1" Mesh Fabric, Add	218.77	
For 1-1/4" Mesh Fabric, Add	140.82	
For 1-3/4" Mesh Fabric, Add	87.51	
For 2-1/8" Mesh Fabric, Deduct	-43.75	
32 31 13 13-0330 EA 5' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	694.11	30.05
For Gate With Single Barb Wire Arm, Add	66.42	
For Gate With Double Barb Wire Arm, Add	96.62	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-113.22	
For Aluminized Steel Gate And Post, Add	289.85	
For Powder Coated Gate And Post, Add	157.00	
For 1" Mesh Fabric, Add	262.68	
For 1-1/4" Mesh Fabric, Add	169.08	
For 1-3/4" Mesh Fabric, Add	105.07	
For 2-1/8" Mesh Fabric, Deduct	-52.54	
32 31 13 13-0331 EA 6' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	850.72	36.57
For Gate With Single Barb Wire Arm, Add	81.50	
For Gate With Double Barb Wire Arm, Add	118.55	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-138.93	
For Aluminized Steel Gate And Post, Add	355.65	
For Powder Coated Gate And Post, Add	192.64	
For 1" Mesh Fabric, Add	322.31	
For 1-1/4" Mesh Fabric, Add	207.46	
For 1-3/4" Mesh Fabric, Add	128.92	
For 2-1/8" Mesh Fabric, Deduct	-64.46	
32 31 13 13-0332 EA 7' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	1,006.45	42.80
For Gate With Single Barb Wire Arm, Add	96.59	
For Gate With Double Barb Wire Arm, Add	140.49	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-164.64	
For Aluminized Steel Gate And Post, Add	421.47	
For Powder Coated Gate And Post, Add	228.30	
For 1" Mesh Fabric, Add	381.96	
For 1-1/4" Mesh Fabric, Add	245.86	
For 1-3/4" Mesh Fabric, Add	152.78	
For 2-1/8" Mesh Fabric, Deduct	-76.39	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0333	EA	8' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire.....	1,163.07	49.21
			<i>For Gate With Single Barb Wire Arm, Add</i>	111.67	
			<i>For Gate With Double Barb Wire Arm, Add</i>	162.42	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-190.34	
			<i>For Aluminized Steel Gate And Post, Add</i>	487.27	
			<i>For Powder Coated Gate And Post, Add</i>	263.94	
			<i>For 1" Mesh Fabric, Add</i>	441.59	
			<i>For 1-1/4" Mesh Fabric, Add</i>	284.24	
			<i>For 1-3/4" Mesh Fabric, Add</i>	176.63	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-88.32	
32 31	13 13-0334	EA	9' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire.....	1,318.80	55.45
			<i>For Gate With Single Barb Wire Arm, Add</i>	126.75	
			<i>For Gate With Double Barb Wire Arm, Add</i>	184.36	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-216.05	
			<i>For Aluminized Steel Gate And Post, Add</i>	553.08	
			<i>For Powder Coated Gate And Post, Add</i>	299.59	
			<i>For 1" Mesh Fabric, Add</i>	501.23	
			<i>For 1-1/4" Mesh Fabric, Add</i>	322.63	
			<i>For 1-3/4" Mesh Fabric, Add</i>	200.49	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-100.25	
32 31	13 13-0335	EA	10' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire.....	1,450.72	61.96
			<i>For Gate With Single Barb Wire Arm, Add</i>	139.11	
			<i>For Gate With Double Barb Wire Arm, Add</i>	202.34	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-237.12	
			<i>For Aluminized Steel Gate And Post, Add</i>	607.03	
			<i>For Powder Coated Gate And Post, Add</i>	328.81	
			<i>For 1" Mesh Fabric, Add</i>	550.12	
			<i>For 1-1/4" Mesh Fabric, Add</i>	354.10	
			<i>For 1-3/4" Mesh Fabric, Add</i>	220.05	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-110.02	
32 31	13 13-0336	EA	10' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	1,846.08	61.96
			<i>For Gate With Single Barb Wire Arm, Add</i>	182.60	
			<i>For Gate With Double Barb Wire Arm, Add</i>	265.60	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-311.25	
			<i>For Aluminized Steel Gate And Post, Add</i>	796.80	
			<i>For Powder Coated Gate And Post, Add</i>	431.60	
			<i>For 1" Mesh Fabric, Add</i>	722.10	
			<i>For 1-1/4" Mesh Fabric, Add</i>	464.80	
			<i>For 1-3/4" Mesh Fabric, Add</i>	288.84	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-144.42	
32 31	13 13-0337	EA	12' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,101.97	85.30
			<i>For Gate With Single Barb Wire Arm, Add</i>	203.04	
			<i>For Gate With Double Barb Wire Arm, Add</i>	295.32	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-346.08	
			<i>For Aluminized Steel Gate And Post, Add</i>	885.97	
			<i>For Powder Coated Gate And Post, Add</i>	479.90	
			<i>For 1" Mesh Fabric, Add</i>	802.91	
			<i>For 1-1/4" Mesh Fabric, Add</i>	516.82	
			<i>For 1-3/4" Mesh Fabric, Add</i>	321.17	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-160.58	
32 31	13 13-0338	EA	14' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,429.30	91.91
			<i>For Gate With Single Barb Wire Arm, Add</i>	236.88	
			<i>For Gate With Double Barb Wire Arm, Add</i>	344.55	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-403.76	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,033.64	
			<i>For Powder Coated Gate And Post, Add</i>	559.89	
			<i>For 1" Mesh Fabric, Add</i>	936.73	
			<i>For 1-1/4" Mesh Fabric, Add</i>	602.95	
			<i>For 1-3/4" Mesh Fabric, Add</i>	374.69	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-187.35	
32 31	13 13-0339	EA	16' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	2,734.25	99.53
			<i>For Gate With Single Barb Wire Arm, Add</i>	267.89	
			<i>For Gate With Double Barb Wire Arm, Add</i>	389.66	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-456.63	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,168.98	
			<i>For Powder Coated Gate And Post, Add</i>	633.20	
			<i>For 1" Mesh Fabric, Add</i>	1,059.39	
			<i>For 1-1/4" Mesh Fabric, Add</i>	681.90	
			<i>For 1-3/4" Mesh Fabric, Add</i>	423.75	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-211.88	
32 31	13 13-0340	EA	18' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,071.18	108.60
			<i>For Gate With Single Barb Wire Arm, Add</i>	301.96	
			<i>For Gate With Double Barb Wire Arm, Add</i>	439.22	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-514.71	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,317.66	
			<i>For Powder Coated Gate And Post, Add</i>	713.73	
			<i>For 1" Mesh Fabric, Add</i>	1,194.13	
			<i>For 1-1/4" Mesh Fabric, Add</i>	768.64	
			<i>For 1-3/4" Mesh Fabric, Add</i>	477.65	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-238.83	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0341 EA 20' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,408.21	119.47
For Gate With Single Barb Wire Arm, Add	335.45	
For Gate With Double Barb Wire Arm, Add	487.93	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-571.79	
For Aluminized Steel Gate And Post, Add	1,463.78	
For Powder Coated Gate And Post, Add	792.88	
For 1" Mesh Fabric, Add	1,326.55	
For 1-1/4" Mesh Fabric, Add	853.87	
For 1-3/4" Mesh Fabric, Add	530.62	
For 2-1/8" Mesh Fabric, Deduct	-265.31	
32 31 13 13-0342 EA 22' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,752.47	132.70
For Gate With Single Barb Wire Arm, Add	368.94	
For Gate With Double Barb Wire Arm, Add	536.64	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-628.87	
For Aluminized Steel Gate And Post, Add	1,609.91	
For Powder Coated Gate And Post, Add	872.03	
For 1" Mesh Fabric, Add	1,458.98	
For 1-1/4" Mesh Fabric, Add	939.11	
For 1-3/4" Mesh Fabric, Add	583.59	
For 2-1/8" Mesh Fabric, Deduct	-291.80	
32 31 13 13-0343 EA 24' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,106.71	149.29
For Gate With Single Barb Wire Arm, Add	402.42	
For Gate With Double Barb Wire Arm, Add	585.34	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-685.95	
For Aluminized Steel Gate And Post, Add	1,756.03	
For Powder Coated Gate And Post, Add	951.18	
For 1" Mesh Fabric, Add	1,591.40	
For 1-1/4" Mesh Fabric, Add	1,024.35	
For 1-3/4" Mesh Fabric, Add	636.56	
For 2-1/8" Mesh Fabric, Deduct	-318.28	
32 31 13 13-0344 EA 26' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,475.17	170.58
For Gate With Single Barb Wire Arm, Add	435.91	
For Gate With Double Barb Wire Arm, Add	634.05	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-743.03	
For Aluminized Steel Gate And Post, Add	1,902.15	
For Powder Coated Gate And Post, Add	1,030.33	
For 1" Mesh Fabric, Add	1,723.82	
For 1-1/4" Mesh Fabric, Add	1,109.59	
For 1-3/4" Mesh Fabric, Add	689.53	
For 2-1/8" Mesh Fabric, Deduct	-344.76	
32 31 13 13-0345 EA 28' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,864.99	199.05
For Gate With Single Barb Wire Arm, Add	469.40	
For Gate With Double Barb Wire Arm, Add	682.76	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-800.11	
For Aluminized Steel Gate And Post, Add	2,048.28	
For Powder Coated Gate And Post, Add	1,109.48	
For 1" Mesh Fabric, Add	1,856.25	
For 1-1/4" Mesh Fabric, Add	1,194.83	
For 1-3/4" Mesh Fabric, Add	742.50	
For 2-1/8" Mesh Fabric, Deduct	-371.25	
32 31 13 13-0346 EA 30' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	5,288.97	238.84
For Gate With Single Barb Wire Arm, Add	502.88	
For Gate With Double Barb Wire Arm, Add	731.47	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-857.19	
For Aluminized Steel Gate And Post, Add	2,194.40	
For Powder Coated Gate And Post, Add	1,188.63	
For 1" Mesh Fabric, Add	1,988.67	
For 1-1/4" Mesh Fabric, Add	1,280.06	
For 1-3/4" Mesh Fabric, Add	795.47	
For 2-1/8" Mesh Fabric, Deduct	-397.73	
32 31 13 13-0347 8' Fence Height (32 31 13 13-0266)		
32 31 13 13-0348 EA 3' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	544.83	30.98
For Gate With Single Barb Wire Arm, Add	49.70	
For Gate With Double Barb Wire Arm, Add	72.29	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-84.71	
For Aluminized Steel Gate And Post, Add	216.86	
For Powder Coated Gate And Post, Add	117.47	
For 1" Mesh Fabric, Add	196.53	
For 1-1/4" Mesh Fabric, Add	126.50	
For 1-3/4" Mesh Fabric, Add	78.61	
For 2-1/8" Mesh Fabric, Deduct	-39.31	
32 31 13 13-0349 EA 4' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	695.44	30.98
For Gate With Single Barb Wire Arm, Add	66.27	
For Gate With Double Barb Wire Arm, Add	96.39	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-112.95	
For Aluminized Steel Gate And Post, Add	289.16	
For Powder Coated Gate And Post, Add	156.63	
For 1" Mesh Fabric, Add	262.05	
For 1-1/4" Mesh Fabric, Add	168.67	
For 1-3/4" Mesh Fabric, Add	104.82	
For 2-1/8" Mesh Fabric, Deduct	-52.41	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0350	EA	5' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	812.23	34.52
			<i>For Gate With Single Barb Wire Arm, Add</i>	77.93	
			<i>For Gate With Double Barb Wire Arm, Add</i>	113.36	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-132.84	
			<i>For Aluminized Steel Gate And Post, Add</i>	340.08	
			<i>For Powder Coated Gate And Post, Add</i>	184.21	
			<i>For 1" Mesh Fabric, Add</i>	308.19	
			<i>For 1-1/4" Mesh Fabric, Add</i>	198.38	
			<i>For 1-3/4" Mesh Fabric, Add</i>	123.28	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-61.64	
32 31	13 13-0351	EA	6' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	931.81	39.08
			<i>For Gate With Single Barb Wire Arm, Add</i>	89.60	
			<i>For Gate With Double Barb Wire Arm, Add</i>	130.33	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-152.74	
			<i>For Aluminized Steel Gate And Post, Add</i>	391.00	
			<i>For Powder Coated Gate And Post, Add</i>	211.79	
			<i>For 1" Mesh Fabric, Add</i>	354.35	
			<i>For 1-1/4" Mesh Fabric, Add</i>	228.09	
			<i>For 1-3/4" Mesh Fabric, Add</i>	141.74	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-70.87	
32 31	13 13-0352	EA	7' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	1,062.11	47.08
			<i>For Gate With Single Barb Wire Arm, Add</i>	101.28	
			<i>For Gate With Double Barb Wire Arm, Add</i>	147.31	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-172.63	
			<i>For Aluminized Steel Gate And Post, Add</i>	441.94	
			<i>For Powder Coated Gate And Post, Add</i>	239.38	
			<i>For 1" Mesh Fabric, Add</i>	400.50	
			<i>For 1-1/4" Mesh Fabric, Add</i>	257.80	
			<i>For 1-3/4" Mesh Fabric, Add</i>	160.20	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-80.10	
32 31	13 13-0353	EA	8' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	1,191.47	54.80
			<i>For Gate With Single Barb Wire Arm, Add</i>	112.95	
			<i>For Gate With Double Barb Wire Arm, Add</i>	164.29	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-192.53	
			<i>For Aluminized Steel Gate And Post, Add</i>	492.86	
			<i>For Powder Coated Gate And Post, Add</i>	266.97	
			<i>For 1" Mesh Fabric, Add</i>	446.66	
			<i>For 1-1/4" Mesh Fabric, Add</i>	287.50	
			<i>For 1-3/4" Mesh Fabric, Add</i>	178.66	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-89.33	
32 31	13 13-0354	EA	9' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	1,321.77	62.89
			<i>For Gate With Single Barb Wire Arm, Add</i>	124.62	
			<i>For Gate With Double Barb Wire Arm, Add</i>	181.26	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-212.42	
			<i>For Aluminized Steel Gate And Post, Add</i>	543.79	
			<i>For Powder Coated Gate And Post, Add</i>	294.55	
			<i>For 1" Mesh Fabric, Add</i>	492.81	
			<i>For 1-1/4" Mesh Fabric, Add</i>	317.21	
			<i>For 1-3/4" Mesh Fabric, Add</i>	197.12	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-98.56	
32 31	13 13-0355	EA	10' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire.....	1,452.05	70.98
			<i>For Gate With Single Barb Wire Arm, Add</i>	136.29	
			<i>For Gate With Double Barb Wire Arm, Add</i>	198.24	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-232.31	
			<i>For Aluminized Steel Gate And Post, Add</i>	594.72	
			<i>For Powder Coated Gate And Post, Add</i>	322.14	
			<i>For 1" Mesh Fabric, Add</i>	538.97	
			<i>For 1-1/4" Mesh Fabric, Add</i>	346.92	
			<i>For 1-3/4" Mesh Fabric, Add</i>	215.59	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-107.79	
32 31	13 13-0356	EA	10' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire.....	2,114.72	85.30
			<i>For Gate With Single Barb Wire Arm, Add</i>	204.44	
			<i>For Gate With Double Barb Wire Arm, Add</i>	297.36	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-348.47	
			<i>For Aluminized Steel Gate And Post, Add</i>	892.09	
			<i>For Powder Coated Gate And Post, Add</i>	483.22	
			<i>For 1" Mesh Fabric, Add</i>	808.46	
			<i>For 1-1/4" Mesh Fabric, Add</i>	520.39	
			<i>For 1-3/4" Mesh Fabric, Add</i>	323.38	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-161.69	
32 31	13 13-0357	EA	12' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire.....	2,492.29	91.91
			<i>For Gate With Single Barb Wire Arm, Add</i>	243.80	
			<i>For Gate With Double Barb Wire Arm, Add</i>	354.62	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-415.58	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,063.87	
			<i>For Powder Coated Gate And Post, Add</i>	576.26	
			<i>For 1" Mesh Fabric, Add</i>	964.13	
			<i>For 1-1/4" Mesh Fabric, Add</i>	620.59	
			<i>For 1-3/4" Mesh Fabric, Add</i>	385.65	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-192.83	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0358	EA	14' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	2,878.45 283.75 412.73 -483.67 1,238.19 670.69 1,122.11 722.28 448.85 -224.42	99.53
32 31 13	13-0359	EA	16' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	3,279.47 324.88 472.55 -553.77 1,417.64 767.89 1,284.74 826.96 513.90 -256.95	108.60
32 31 13	13-0360	EA	18' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	3,685.93 366.00 532.36 -623.86 1,597.09 865.09 1,447.36 931.64 578.94 -289.47	119.47
32 31 13	13-0361	EA	20' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	4,094.28 406.54 591.32 -692.96 1,773.97 960.90 1,607.66 1,034.82 643.07 -321.53	132.70
32 31 13	13-0362	EA	22' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	4,507.27 446.54 649.43 -761.05 1,948.30 1,055.33 1,765.64 1,136.51 706.26 -353.13	149.29
32 31 13	13-0363	EA	24' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	4,945.16 487.61 709.25 -831.15 2,127.74 1,152.53 1,928.27 1,241.18 771.31 -385.65	170.58
32 31 13	13-0364	EA	26' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	5,404.40 528.73 769.06 -901.25 2,307.19 1,249.73 2,090.89 1,345.86 836.36 -418.18	199.05
32 31 13	13-0365	EA	28' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	5,892.47 569.27 828.03 -970.34 2,484.08 1,345.54 2,251.19 1,449.04 900.48 -450.24	238.84

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0366	EA	30' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	6,440.30	298.58
			<i>For Gate With Single Barb Wire Arm, Add</i>	609.80	
			<i>For Gate With Double Barb Wire Arm, Add</i>	886.99	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-1,039.44	
			<i>For Aluminized Steel Gate And Post, Add</i>	2,660.96	
			<i>For Powder Coated Gate And Post, Add</i>	1,441.35	
			<i>For 1" Mesh Fabric, Add</i>	2,411.50	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,552.23	
			<i>For 1-3/4" Mesh Fabric, Add</i>	964.60	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-482.30	
32 31 13	13-0367		10' Fence Height (32 31 13 13-0266)		
32 31 13	13-0368	EA	3' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	687.62	34.43
			<i>For Gate With Single Barb Wire Arm, Add</i>	64.27	
			<i>For Gate With Double Barb Wire Arm, Add</i>	93.48	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-109.55	
			<i>For Aluminized Steel Gate And Post, Add</i>	280.44	
			<i>For Powder Coated Gate And Post, Add</i>	151.90	
			<i>For 1" Mesh Fabric, Add</i>	254.14	
			<i>For 1-1/4" Mesh Fabric, Add</i>	163.59	
			<i>For 1-3/4" Mesh Fabric, Add</i>	101.66	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-50.83	
32 31 13	13-0369	EA	4' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	882.36	34.43
			<i>For Gate With Single Barb Wire Arm, Add</i>	85.69	
			<i>For Gate With Double Barb Wire Arm, Add</i>	124.64	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-146.06	
			<i>For Aluminized Steel Gate And Post, Add</i>	373.91	
			<i>For Powder Coated Gate And Post, Add</i>	202.53	
			<i>For 1" Mesh Fabric, Add</i>	338.86	
			<i>For 1-1/4" Mesh Fabric, Add</i>	218.11	
			<i>For 1-3/4" Mesh Fabric, Add</i>	135.54	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-67.77	
32 31 13	13-0370	EA	5' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	1,024.12	35.91
			<i>For Gate With Single Barb Wire Arm, Add</i>	100.78	
			<i>For Gate With Double Barb Wire Arm, Add</i>	146.59	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-171.79	
			<i>For Aluminized Steel Gate And Post, Add</i>	439.78	
			<i>For Powder Coated Gate And Post, Add</i>	238.21	
			<i>For 1" Mesh Fabric, Add</i>	398.55	
			<i>For 1-1/4" Mesh Fabric, Add</i>	256.54	
			<i>For 1-3/4" Mesh Fabric, Add</i>	159.42	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-79.71	
32 31 13	13-0371	EA	6' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	1,187.38	44.66
			<i>For Gate With Single Barb Wire Arm, Add</i>	115.88	
			<i>For Gate With Double Barb Wire Arm, Add</i>	168.55	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-197.51	
			<i>For Aluminized Steel Gate And Post, Add</i>	505.64	
			<i>For Powder Coated Gate And Post, Add</i>	273.89	
			<i>For 1" Mesh Fabric, Add</i>	458.23	
			<i>For 1-1/4" Mesh Fabric, Add</i>	294.95	
			<i>For 1-3/4" Mesh Fabric, Add</i>	183.29	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-91.65	
32 31 13	13-0372	EA	7' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	1,350.08	52.93
			<i>For Gate With Single Barb Wire Arm, Add</i>	130.96	
			<i>For Gate With Double Barb Wire Arm, Add</i>	190.49	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-223.23	
			<i>For Aluminized Steel Gate And Post, Add</i>	571.48	
			<i>For Powder Coated Gate And Post, Add</i>	309.55	
			<i>For 1" Mesh Fabric, Add</i>	517.90	
			<i>For 1-1/4" Mesh Fabric, Add</i>	333.36	
			<i>For 1-3/4" Mesh Fabric, Add</i>	207.16	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-103.58	
32 31 13	13-0373	EA	8' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	1,512.93	61.68
			<i>For Gate With Single Barb Wire Arm, Add</i>	146.06	
			<i>For Gate With Double Barb Wire Arm, Add</i>	212.45	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-248.96	
			<i>For Aluminized Steel Gate And Post, Add</i>	637.34	
			<i>For Powder Coated Gate And Post, Add</i>	345.23	
			<i>For 1" Mesh Fabric, Add</i>	577.59	
			<i>For 1-1/4" Mesh Fabric, Add</i>	371.78	
			<i>For 1-3/4" Mesh Fabric, Add</i>	231.04	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-115.52	
32 31 13	13-0374	EA	9' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	1,675.26	70.05
			<i>For Gate With Single Barb Wire Arm, Add</i>	161.15	
			<i>For Gate With Double Barb Wire Arm, Add</i>	234.40	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-274.69	
			<i>For Aluminized Steel Gate And Post, Add</i>	703.20	
			<i>For Powder Coated Gate And Post, Add</i>	380.90	
			<i>For 1" Mesh Fabric, Add</i>	637.28	
			<i>For 1-1/4" Mesh Fabric, Add</i>	410.20	
			<i>For 1-3/4" Mesh Fabric, Add</i>	254.91	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-127.46	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0375 EA 10' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,838.53	78.71
For Gate With Single Barb Wire Arm, Add	176.24	
For Gate With Double Barb Wire Arm, Add	256.36	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-300.42	
For Aluminized Steel Gate And Post, Add	769.07	
For Powder Coated Gate And Post, Add	416.58	
For 1" Mesh Fabric, Add	696.97	
For 1-1/4" Mesh Fabric, Add	448.62	
For 1-3/4" Mesh Fabric, Add	278.79	
For 2-1/8" Mesh Fabric, Deduct	-139.39	
32 31 13 13-0376 EA 10' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	2,687.94	94.82
For Gate With Single Barb Wire Arm, Add	264.36	
For Gate With Double Barb Wire Arm, Add	384.53	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-450.62	
For Aluminized Steel Gate And Post, Add	1,153.58	
For Powder Coated Gate And Post, Add	624.86	
For 1" Mesh Fabric, Add	1,045.44	
For 1-1/4" Mesh Fabric, Add	672.92	
For 1-3/4" Mesh Fabric, Add	418.17	
For 2-1/8" Mesh Fabric, Deduct	-209.09	
32 31 13 13-0377 EA 12' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	2,923.43	101.99
For Gate With Single Barb Wire Arm, Add	287.87	
For Gate With Double Barb Wire Arm, Add	418.72	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-490.69	
For Aluminized Steel Gate And Post, Add	1,256.16	
For Powder Coated Gate And Post, Add	680.42	
For 1" Mesh Fabric, Add	1,138.39	
For 1-1/4" Mesh Fabric, Add	732.76	
For 1-3/4" Mesh Fabric, Add	455.36	
For 2-1/8" Mesh Fabric, Deduct	-227.68	
32 31 13 13-0378 EA 14' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,333.57	110.63
For Gate With Single Barb Wire Arm, Add	330.16	
For Gate With Double Barb Wire Arm, Add	480.24	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-562.78	
For Aluminized Steel Gate And Post, Add	1,440.71	
For Powder Coated Gate And Post, Add	780.38	
For 1" Mesh Fabric, Add	1,305.64	
For 1-1/4" Mesh Fabric, Add	840.41	
For 1-3/4" Mesh Fabric, Add	522.26	
For 2-1/8" Mesh Fabric, Deduct	-261.13	
32 31 13 13-0379 EA 16' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,790.87	120.60
For Gate With Single Barb Wire Arm, Add	377.16	
For Gate With Double Barb Wire Arm, Add	548.60	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-642.89	
For Aluminized Steel Gate And Post, Add	1,645.80	
For Powder Coated Gate And Post, Add	891.47	
For 1" Mesh Fabric, Add	1,491.50	
For 1-1/4" Mesh Fabric, Add	960.05	
For 1-3/4" Mesh Fabric, Add	596.60	
For 2-1/8" Mesh Fabric, Deduct	-298.30	
32 31 13 13-0380 EA 18' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	4,254.50	132.70
For Gate With Single Barb Wire Arm, Add	424.16	
For Gate With Double Barb Wire Arm, Add	616.96	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-723.00	
For Aluminized Steel Gate And Post, Add	1,850.88	
For Powder Coated Gate And Post, Add	1,002.56	
For 1" Mesh Fabric, Add	1,677.36	
For 1-1/4" Mesh Fabric, Add	1,079.68	
For 1-3/4" Mesh Fabric, Add	670.94	
For 2-1/8" Mesh Fabric, Deduct	-335.47	
32 31 13 13-0381 EA 20' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	4,728.50	147.39
For Gate With Single Barb Wire Arm, Add	471.45	
For Gate With Double Barb Wire Arm, Add	685.75	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-803.61	
For Aluminized Steel Gate And Post, Add	2,057.25	
For Powder Coated Gate And Post, Add	1,114.34	
For 1" Mesh Fabric, Add	1,864.38	
For 1-1/4" Mesh Fabric, Add	1,200.06	
For 1-3/4" Mesh Fabric, Add	745.75	
For 2-1/8" Mesh Fabric, Deduct	-372.88	
32 31 13 13-0382 EA 22' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	5,213.99	165.88
For Gate With Single Barb Wire Arm, Add	518.74	
For Gate With Double Barb Wire Arm, Add	754.54	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-884.22	
For Aluminized Steel Gate And Post, Add	2,263.61	
For Powder Coated Gate And Post, Add	1,226.12	
For 1" Mesh Fabric, Add	2,051.40	
For 1-1/4" Mesh Fabric, Add	1,320.44	
For 1-3/4" Mesh Fabric, Add	820.56	
For 2-1/8" Mesh Fabric, Deduct	-410.28	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0383 EA 24' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	5,712.04	189.41
For Gate With Single Barb Wire Arm, Add	565.74	
For Gate With Double Barb Wire Arm, Add	822.90	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-964.33	
For Aluminized Steel Gate And Post, Add	2,468.69	
For Powder Coated Gate And Post, Add	1,337.21	
For 1" Mesh Fabric, Add	2,237.25	
For 1-1/4" Mesh Fabric, Add	1,440.07	
For 1-3/4" Mesh Fabric, Add	894.90	
For 2-1/8" Mesh Fabric, Deduct	-447.45	
32 31 13 13-0384 EA 26' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	6,234.54	221.14
For Gate With Single Barb Wire Arm, Add	612.74	
For Gate With Double Barb Wire Arm, Add	891.26	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,044.44	
For Aluminized Steel Gate And Post, Add	2,673.78	
For Powder Coated Gate And Post, Add	1,448.30	
For 1" Mesh Fabric, Add	2,423.11	
For 1-1/4" Mesh Fabric, Add	1,559.70	
For 1-3/4" Mesh Fabric, Add	969.24	
For 2-1/8" Mesh Fabric, Deduct	-484.62	
32 31 13 13-0385 EA 28' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	6,793.93	265.18
For Gate With Single Barb Wire Arm, Add	659.74	
For Gate With Double Barb Wire Arm, Add	959.62	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,124.56	
For Aluminized Steel Gate And Post, Add	2,878.86	
For Powder Coated Gate And Post, Add	1,559.38	
For 1" Mesh Fabric, Add	2,608.97	
For 1-1/4" Mesh Fabric, Add	1,679.34	
For 1-3/4" Mesh Fabric, Add	1,043.59	
For 2-1/8" Mesh Fabric, Deduct	-521.79	
32 31 13 13-0386 EA 30' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	7,426.49	331.75
For Gate With Single Barb Wire Arm, Add	707.33	
For Gate With Double Barb Wire Arm, Add	1,028.84	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,205.67	
For Aluminized Steel Gate And Post, Add	3,086.51	
For Powder Coated Gate And Post, Add	1,671.86	
For 1" Mesh Fabric, Add	2,797.15	
For 1-1/4" Mesh Fabric, Add	1,800.46	
For 1-3/4" Mesh Fabric, Add	1,118.86	
For 2-1/8" Mesh Fabric, Deduct	-559.43	
32 31 13 13-0387 12' Fence Height <small>(32 31 13 13-0266)</small>		
32 31 13 13-0388 EA 3' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	862.69	38.23
For Gate With Single Barb Wire Arm, Add	82.26	
For Gate With Double Barb Wire Arm, Add	119.65	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-140.22	
For Aluminized Steel Gate And Post, Add	358.96	
For Powder Coated Gate And Post, Add	194.44	
For 1" Mesh Fabric, Add	325.31	
For 1-1/4" Mesh Fabric, Add	209.39	
For 1-3/4" Mesh Fabric, Add	130.12	
For 2-1/8" Mesh Fabric, Deduct	-65.06	
32 31 13 13-0389 EA 4' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	1,111.95	38.23
For Gate With Single Barb Wire Arm, Add	109.68	
For Gate With Double Barb Wire Arm, Add	159.53	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-186.95	
For Aluminized Steel Gate And Post, Add	478.60	
For Powder Coated Gate And Post, Add	259.24	
For 1" Mesh Fabric, Add	433.73	
For 1-1/4" Mesh Fabric, Add	279.19	
For 1-3/4" Mesh Fabric, Add	173.49	
For 2-1/8" Mesh Fabric, Deduct	-86.75	
32 31 13 13-0390 EA 5' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	1,291.82	39.63
For Gate With Single Barb Wire Arm, Add	129.00	
For Gate With Double Barb Wire Arm, Add	187.64	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-219.89	
For Aluminized Steel Gate And Post, Add	562.91	
For Powder Coated Gate And Post, Add	304.91	
For 1" Mesh Fabric, Add	510.14	
For 1-1/4" Mesh Fabric, Add	328.36	
For 1-3/4" Mesh Fabric, Add	204.06	
For 2-1/8" Mesh Fabric, Deduct	-102.03	
32 31 13 13-0391 EA 6' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	1,496.28	49.21
For Gate With Single Barb Wire Arm, Add	148.32	
For Gate With Double Barb Wire Arm, Add	215.74	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-252.82	
For Aluminized Steel Gate And Post, Add	647.21	
For Powder Coated Gate And Post, Add	350.57	
For 1" Mesh Fabric, Add	586.53	
For 1-1/4" Mesh Fabric, Add	377.54	
For 1-3/4" Mesh Fabric, Add	234.61	
For 2-1/8" Mesh Fabric, Deduct	-117.31	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0392	EA	7' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	653.72 52.46 76.31 -89.43 228.93 124.00 207.47 133.54 82.99 -41.49	58.89
32 31	13 13-0393	EA	8' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	736.60 58.51 85.11 -99.73 255.32 138.30 231.38 148.93 92.55 -46.28	68.20
32 31	13 13-0394	EA	9' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	820.40 64.56 93.90 -110.04 281.70 152.59 255.29 164.32 102.12 -51.06	77.78
32 31	13 13-0395	EA	10' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	904.20 70.60 102.69 -120.34 308.08 166.88 279.20 179.71 111.68 -55.84	87.36
32 31	13 13-0396	EA	10' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	1,210.52 98.37 143.08 -167.67 429.24 232.50 388.99 250.39 155.60 -77.80	105.36
32 31	13 13-0397	EA	12' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	1,323.24 108.11 157.25 -184.28 471.76 255.54 427.53 275.19 171.01 -85.51	113.42
32 31	13 13-0398	EA	14' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	1,495.57 123.92 180.25 -211.23 540.76 292.91 490.06 315.44 196.02 -98.01	122.84
32 31	13 13-0399	EA	16' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	1,689.48 141.57 205.93 -241.32 617.78 334.63 559.86 360.37 223.94 -111.97	133.93

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0400 EA 18' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	5,067.63	147.49
For Gate With Single Barb Wire Arm, Add	508.76	
For Gate With Double Barb Wire Arm, Add	740.01	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-867.20	
For Aluminized Steel Gate And Post, Add	2,220.03	
For Powder Coated Gate And Post, Add	1,202.52	
For 1" Mesh Fabric, Add	2,011.90	
For 1-1/4" Mesh Fabric, Add	1,295.02	
For 1-3/4" Mesh Fabric, Add	804.76	
For 2-1/8" Mesh Fabric, Deduct	-402.38	
32 31 13 13-0401 EA 20' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	5,634.68	163.75
For Gate With Single Barb Wire Arm, Add	565.74	
For Gate With Double Barb Wire Arm, Add	822.90	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-964.33	
For Aluminized Steel Gate And Post, Add	2,468.69	
For Powder Coated Gate And Post, Add	1,337.21	
For 1" Mesh Fabric, Add	2,237.25	
For 1-1/4" Mesh Fabric, Add	1,440.07	
For 1-3/4" Mesh Fabric, Add	894.90	
For 2-1/8" Mesh Fabric, Deduct	-447.45	
32 31 13 13-0402 EA 22' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	6,209.30	184.26
For Gate With Single Barb Wire Arm, Add	622.14	
For Gate With Double Barb Wire Arm, Add	904.93	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,060.47	
For Aluminized Steel Gate And Post, Add	2,714.79	
For Powder Coated Gate And Post, Add	1,470.51	
For 1" Mesh Fabric, Add	2,460.28	
For 1-1/4" Mesh Fabric, Add	1,583.63	
For 1-3/4" Mesh Fabric, Add	984.11	
For 2-1/8" Mesh Fabric, Deduct	-492.06	
32 31 13 13-0403 EA 24' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	6,806.01	210.48
For Gate With Single Barb Wire Arm, Add	679.13	
For Gate With Double Barb Wire Arm, Add	987.82	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,157.60	
For Aluminized Steel Gate And Post, Add	2,963.46	
For Powder Coated Gate And Post, Add	1,605.21	
For 1" Mesh Fabric, Add	2,685.63	
For 1-1/4" Mesh Fabric, Add	1,728.68	
For 1-3/4" Mesh Fabric, Add	1,074.25	
For 2-1/8" Mesh Fabric, Deduct	-537.13	
32 31 13 13-0404 EA 26' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	7,419.21	245.79
For Gate With Single Barb Wire Arm, Add	734.94	
For Gate With Double Barb Wire Arm, Add	1,069.00	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,252.73	
For Aluminized Steel Gate And Post, Add	3,207.00	
For Powder Coated Gate And Post, Add	1,737.12	
For 1" Mesh Fabric, Add	2,906.34	
For 1-1/4" Mesh Fabric, Add	1,870.75	
For 1-3/4" Mesh Fabric, Add	1,162.54	
For 2-1/8" Mesh Fabric, Deduct	-581.27	
32 31 13 13-0405 EA 28' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	8,078.73	294.65
For Gate With Single Barb Wire Arm, Add	791.33	
For Gate With Double Barb Wire Arm, Add	1,151.03	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,348.87	
For Aluminized Steel Gate And Post, Add	3,453.10	
For Powder Coated Gate And Post, Add	1,870.43	
For 1" Mesh Fabric, Add	3,129.37	
For 1-1/4" Mesh Fabric, Add	2,014.31	
For 1-3/4" Mesh Fabric, Add	1,251.75	
For 2-1/8" Mesh Fabric, Deduct	-625.87	
32 31 13 13-0406 EA 30' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	8,818.96	368.63
For Gate With Single Barb Wire Arm, Add	848.32	
For Gate With Double Barb Wire Arm, Add	1,233.92	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,446.00	
For Aluminized Steel Gate And Post, Add	3,701.76	
For Powder Coated Gate And Post, Add	2,005.12	
For 1" Mesh Fabric, Add	3,354.72	
For 1-1/4" Mesh Fabric, Add	2,159.36	
For 1-3/4" Mesh Fabric, Add	1,341.89	
For 2-1/8" Mesh Fabric, Deduct	-670.94	
32 31 13 13-0407 Vinyl Coated Without Barb Wire Arm <small>(32 31 13 13-0265)</small>		
Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter to 13' wide, 6-5/8" diameter for 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.		
32 31 13 13-0408 4' Fence Height <small>(32 31 13 13-0407)</small>		
32 31 13 13-0409 EA 3' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	181.31	23.26
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-20.91	
For 1" Mesh Fabric, Add	48.52	
For 1-1/4" Mesh Fabric, Add	31.23	
For 1-3/4" Mesh Fabric, Add	19.41	
For 2-1/8" Mesh Fabric, Deduct	-9.70	
For Gate With Single Barb Wire Arm, Add	12.27	
For Gate With Double Barb Wire Arm, Add	17.85	



Exterior Improvements	32	32
Site Improvements	32 30	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0410 EA 4' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	218.48	23.26
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-27.88	
For 1" Mesh Fabric, Add	64.69	
For 1-1/4" Mesh Fabric, Add	41.64	
For 1-3/4" Mesh Fabric, Add	25.88	
For 2-1/8" Mesh Fabric, Deduct	-12.94	
For Gate With Single Barb Wire Arm, Add	16.36	
For Gate With Double Barb Wire Arm, Add	23.79	
32 31 13 13-0411 EA 5' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	254.13	24.75
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-33.69	
For 1" Mesh Fabric, Add	78.17	
For 1-1/4" Mesh Fabric, Add	50.32	
For 1-3/4" Mesh Fabric, Add	31.27	
For 2-1/8" Mesh Fabric, Deduct	-15.63	
For Gate With Single Barb Wire Arm, Add	19.77	
For Gate With Double Barb Wire Arm, Add	28.75	
32 31 13 13-0412 EA 6' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	299.99	29.77
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-39.50	
For 1" Mesh Fabric, Add	91.65	
For 1-1/4" Mesh Fabric, Add	58.99	
For 1-3/4" Mesh Fabric, Add	36.66	
For 2-1/8" Mesh Fabric, Deduct	-18.33	
For Gate With Single Barb Wire Arm, Add	23.17	
For Gate With Double Barb Wire Arm, Add	33.71	
32 31 13 13-0413 EA 7' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	345.85	34.70
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-45.31	
For 1" Mesh Fabric, Add	105.12	
For 1-1/4" Mesh Fabric, Add	67.66	
For 1-3/4" Mesh Fabric, Add	42.05	
For 2-1/8" Mesh Fabric, Deduct	-21.02	
For Gate With Single Barb Wire Arm, Add	26.58	
For Gate With Double Barb Wire Arm, Add	38.66	
32 31 13 13-0414 EA 8' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	391.74	39.63
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-51.12	
For 1" Mesh Fabric, Add	118.60	
For 1-1/4" Mesh Fabric, Add	76.34	
For 1-3/4" Mesh Fabric, Add	47.44	
For 2-1/8" Mesh Fabric, Deduct	-23.72	
For Gate With Single Barb Wire Arm, Add	29.99	
For Gate With Double Barb Wire Arm, Add	43.62	
32 31 13 13-0415 EA 9' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	437.60	44.66
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-56.93	
For 1" Mesh Fabric, Add	132.07	
For 1-1/4" Mesh Fabric, Add	85.01	
For 1-3/4" Mesh Fabric, Add	52.83	
For 2-1/8" Mesh Fabric, Deduct	-26.41	
For Gate With Single Barb Wire Arm, Add	33.40	
For Gate With Double Barb Wire Arm, Add	48.58	
32 31 13 13-0416 EA 10' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	483.46	49.59
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-62.74	
For 1" Mesh Fabric, Add	145.55	
For 1-1/4" Mesh Fabric, Add	93.69	
For 1-3/4" Mesh Fabric, Add	58.22	
For 2-1/8" Mesh Fabric, Deduct	-29.11	
For Gate With Single Barb Wire Arm, Add	36.81	
For Gate With Double Barb Wire Arm, Add	53.54	
32 31 13 13-0417 EA 10' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	595.00	49.59
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-83.65	
For 1" Mesh Fabric, Add	194.07	
For 1-1/4" Mesh Fabric, Add	124.92	
For 1-3/4" Mesh Fabric, Add	77.63	
For 2-1/8" Mesh Fabric, Deduct	-38.81	
For Gate With Single Barb Wire Arm, Add	49.08	
For Gate With Double Barb Wire Arm, Add	71.38	
32 31 13 13-0418 EA 12' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	694.87	53.12
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-100.38	
For 1" Mesh Fabric, Add	232.89	
For 1-1/4" Mesh Fabric, Add	149.90	
For 1-3/4" Mesh Fabric, Add	93.15	
For 2-1/8" Mesh Fabric, Deduct	-46.58	
For Gate With Single Barb Wire Arm, Add	58.89	
For Gate With Double Barb Wire Arm, Add	85.66	
32 31 13 13-0419 EA 14' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	796.37	57.22
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-117.11	
For 1" Mesh Fabric, Add	271.70	
For 1-1/4" Mesh Fabric, Add	174.89	
For 1-3/4" Mesh Fabric, Add	108.68	
For 2-1/8" Mesh Fabric, Deduct	-54.34	
For Gate With Single Barb Wire Arm, Add	68.71	
For Gate With Double Barb Wire Arm, Add	99.94	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0420	EA		16' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	899.90	61.96
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-133.84	
			<i>For 1" Mesh Fabric, Add</i>	310.51	
			<i>For 1-1/4" Mesh Fabric, Add</i>	199.87	
			<i>For 1-3/4" Mesh Fabric, Add</i>	124.20	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-62.10	
			<i>For Gate With Single Barb Wire Arm, Add</i>	78.52	
			<i>For Gate With Double Barb Wire Arm, Add</i>	114.21	
32 31 13 13-0421	EA		18' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,042.16	79.58
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-150.57	
			<i>For 1" Mesh Fabric, Add</i>	349.33	
			<i>For 1-1/4" Mesh Fabric, Add</i>	224.85	
			<i>For 1-3/4" Mesh Fabric, Add</i>	139.73	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-69.87	
			<i>For Gate With Single Barb Wire Arm, Add</i>	88.34	
			<i>For Gate With Double Barb Wire Arm, Add</i>	128.49	
32 31 13 13-0422	EA		20' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,148.47	85.30
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-167.30	
			<i>For 1" Mesh Fabric, Add</i>	388.14	
			<i>For 1-1/4" Mesh Fabric, Add</i>	249.84	
			<i>For 1-3/4" Mesh Fabric, Add</i>	155.26	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-77.63	
			<i>For Gate With Single Barb Wire Arm, Add</i>	98.15	
			<i>For Gate With Double Barb Wire Arm, Add</i>	142.76	
32 31 13 13-0423	EA		22' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,257.40	91.91
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-184.03	
			<i>For 1" Mesh Fabric, Add</i>	426.96	
			<i>For 1-1/4" Mesh Fabric, Add</i>	274.82	
			<i>For 1-3/4" Mesh Fabric, Add</i>	170.78	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-85.39	
			<i>For Gate With Single Barb Wire Arm, Add</i>	107.97	
			<i>For Gate With Double Barb Wire Arm, Add</i>	157.04	
32 31 13 13-0424	EA		24' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,369.61	99.53
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-200.76	
			<i>For 1" Mesh Fabric, Add</i>	465.77	
			<i>For 1-1/4" Mesh Fabric, Add</i>	299.80	
			<i>For 1-3/4" Mesh Fabric, Add</i>	186.31	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-93.15	
			<i>For Gate With Single Barb Wire Arm, Add</i>	117.78	
			<i>For Gate With Double Barb Wire Arm, Add</i>	171.32	
32 31 13 13-0425	EA		26' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,486.01	108.60
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-217.49	
			<i>For 1" Mesh Fabric, Add</i>	504.58	
			<i>For 1-1/4" Mesh Fabric, Add</i>	324.79	
			<i>For 1-3/4" Mesh Fabric, Add</i>	201.83	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-100.92	
			<i>For Gate With Single Barb Wire Arm, Add</i>	127.60	
			<i>For Gate With Double Barb Wire Arm, Add</i>	185.59	
32 31 13 13-0426	EA		28' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,607.85	119.47
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-234.22	
			<i>For 1" Mesh Fabric, Add</i>	543.40	
			<i>For 1-1/4" Mesh Fabric, Add</i>	349.77	
			<i>For 1-3/4" Mesh Fabric, Add</i>	217.36	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-108.68	
			<i>For Gate With Single Barb Wire Arm, Add</i>	137.41	
			<i>For Gate With Double Barb Wire Arm, Add</i>	199.87	
32 31 13 13-0427	EA		30' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,736.92	132.70
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-250.95	
			<i>For 1" Mesh Fabric, Add</i>	582.21	
			<i>For 1-1/4" Mesh Fabric, Add</i>	374.76	
			<i>For 1-3/4" Mesh Fabric, Add</i>	232.89	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-116.44	
			<i>For Gate With Single Barb Wire Arm, Add</i>	147.23	
			<i>For Gate With Double Barb Wire Arm, Add</i>	214.15	
32 31 13 13-0428			5' Fence Height <small>(32 31 13 13-0407)</small>		
32 31 13 13-0429	EA		3' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	212.64	24.75
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-25.91	
			<i>For 1" Mesh Fabric, Add</i>	60.12	
			<i>For 1-1/4" Mesh Fabric, Add</i>	38.70	
			<i>For 1-3/4" Mesh Fabric, Add</i>	24.05	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-12.02	
			<i>For Gate With Single Barb Wire Arm, Add</i>	15.20	
			<i>For Gate With Double Barb Wire Arm, Add</i>	22.11	
32 31 13 13-0430	EA		4' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	258.71	24.75
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-34.55	
			<i>For 1" Mesh Fabric, Add</i>	80.16	
			<i>For 1-1/4" Mesh Fabric, Add</i>	51.60	
			<i>For 1-3/4" Mesh Fabric, Add</i>	32.06	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-16.03	
			<i>For Gate With Single Barb Wire Arm, Add</i>	20.27	
			<i>For Gate With Double Barb Wire Arm, Add</i>	29.48	



	Exterior Improvements	32
	Site Improvements	32 30
	Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0431 EA 5' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	297.92	26.33
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-41.03	
For 1" Mesh Fabric, Add	95.20	
For 1-1/4" Mesh Fabric, Add	61.28	
For 1-3/4" Mesh Fabric, Add	38.08	
For 2-1/8" Mesh Fabric, Deduct	-19.04	
For Gate With Single Barb Wire Arm, Add	24.07	
For Gate With Double Barb Wire Arm, Add	35.01	
32 31 13 13-0432 EA 6' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	348.27	31.63
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-47.51	
For 1" Mesh Fabric, Add	110.22	
For 1-1/4" Mesh Fabric, Add	70.95	
For 1-3/4" Mesh Fabric, Add	44.09	
For 2-1/8" Mesh Fabric, Deduct	-22.04	
For Gate With Single Barb Wire Arm, Add	27.87	
For Gate With Double Barb Wire Arm, Add	40.54	
32 31 13 13-0433 EA 7' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	398.66	36.85
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-53.99	
For 1" Mesh Fabric, Add	125.25	
For 1-1/4" Mesh Fabric, Add	80.62	
For 1-3/4" Mesh Fabric, Add	50.10	
For 2-1/8" Mesh Fabric, Deduct	-25.05	
For Gate With Single Barb Wire Arm, Add	31.67	
For Gate With Double Barb Wire Arm, Add	46.07	
32 31 13 13-0434 EA 8' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	449.94	42.42
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-60.47	
For 1" Mesh Fabric, Add	140.28	
For 1-1/4" Mesh Fabric, Add	90.29	
For 1-3/4" Mesh Fabric, Add	56.11	
For 2-1/8" Mesh Fabric, Deduct	-28.06	
For Gate With Single Barb Wire Arm, Add	35.47	
For Gate With Double Barb Wire Arm, Add	51.60	
32 31 13 13-0435 EA 9' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	500.32	47.73
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-66.95	
For 1" Mesh Fabric, Add	155.31	
For 1-1/4" Mesh Fabric, Add	99.97	
For 1-3/4" Mesh Fabric, Add	62.12	
For 2-1/8" Mesh Fabric, Deduct	-31.06	
For Gate With Single Barb Wire Arm, Add	39.27	
For Gate With Double Barb Wire Arm, Add	57.13	
32 31 13 13-0436 EA 10' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	550.69	52.93
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-73.42	
For 1" Mesh Fabric, Add	170.34	
For 1-1/4" Mesh Fabric, Add	109.65	
For 1-3/4" Mesh Fabric, Add	68.14	
For 2-1/8" Mesh Fabric, Deduct	-34.07	
For Gate With Single Barb Wire Arm, Add	43.07	
For Gate With Double Barb Wire Arm, Add	62.65	
32 31 13 13-0437 EA 10' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	712.33	53.12
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-103.66	
For 1" Mesh Fabric, Add	240.48	
For 1-1/4" Mesh Fabric, Add	154.79	
For 1-3/4" Mesh Fabric, Add	96.19	
For 2-1/8" Mesh Fabric, Deduct	-48.10	
For Gate With Single Barb Wire Arm, Add	60.81	
For Gate With Double Barb Wire Arm, Add	88.45	
32 31 13 13-0438 EA 12' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	835.16	57.22
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-124.39	
For 1" Mesh Fabric, Add	288.57	
For 1-1/4" Mesh Fabric, Add	185.75	
For 1-3/4" Mesh Fabric, Add	115.43	
For 2-1/8" Mesh Fabric, Deduct	-57.71	
For Gate With Single Barb Wire Arm, Add	72.97	
For Gate With Double Barb Wire Arm, Add	106.14	
32 31 13 13-0439 EA 14' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	960.04	61.96
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-145.12	
For 1" Mesh Fabric, Add	336.67	
For 1-1/4" Mesh Fabric, Add	216.71	
For 1-3/4" Mesh Fabric, Add	134.67	
For 2-1/8" Mesh Fabric, Deduct	-67.33	
For Gate With Single Barb Wire Arm, Add	85.14	
For Gate With Double Barb Wire Arm, Add	123.83	
32 31 13 13-0440 EA 16' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,123.63	79.58
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-165.85	
For 1" Mesh Fabric, Add	384.77	
For 1-1/4" Mesh Fabric, Add	247.67	
For 1-3/4" Mesh Fabric, Add	153.91	
For 2-1/8" Mesh Fabric, Deduct	-76.95	
For Gate With Single Barb Wire Arm, Add	97.30	
For Gate With Double Barb Wire Arm, Add	141.52	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0441	EA	18 Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,251.28 -186.58 432.86 278.63 173.15 -86.57 109.46 159.21	85.30
32 31	13 13-0442	EA	20' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,381.54 -207.31 480.96 309.58 192.38 -96.19 121.62 176.90	91.91
32 31	13 13-0443	EA	22' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,515.10 -228.04 529.06 340.54 211.62 -105.81 133.78 194.60	99.53
32 31	13 13-0444	EA	24' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,652.83 -248.77 577.15 371.50 230.86 -115.43 145.95 212.28	108.60
32 31	13 13-0445	EA	26' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,796.01 -269.50 625.25 402.46 250.10 -125.05 158.11 229.98	119.47
32 31	13 13-0446	EA	28' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,946.41 -290.23 673.34 433.41 269.34 -134.67 170.27 247.67	132.70
32 31	13 13-0447	EA	30' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,106.80 -310.97 721.44 464.37 288.58 -144.29 182.43 265.36	149.29
32 31	13 13-0448		6' Fence Height <small>(32 31 13 13-0407)</small>		
32 31	13 13-0449	EA	3' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	227.44 -27.69 64.25 41.36 25.70 -12.85 16.25 23.63	26.51
32 31	13 13-0450	EA	4' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	276.68 -36.93 85.67 55.14 34.27 -17.13 21.66 31.51	26.51
32 31	13 13-0451	EA	5' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	318.53 -43.85 101.73 65.48 40.69 -20.35 25.73 37.42	28.19



Exterior Improvements	32	32
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0452 EA 6' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	373.13	34.05
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-50.77	
For 1" Mesh Fabric, Add	117.79	
For 1-1/4" Mesh Fabric, Add	75.82	
For 1-3/4" Mesh Fabric, Add	47.12	
For 2-1/8" Mesh Fabric, Deduct	-23.56	
For Gate With Single Barb Wire Arm, Add	29.79	
For Gate With Double Barb Wire Arm, Add	43.33	
32 31 13 13-0453 EA 7' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	427.74	40.01
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-57.70	
For 1" Mesh Fabric, Add	133.86	
For 1-1/4" Mesh Fabric, Add	86.16	
For 1-3/4" Mesh Fabric, Add	53.54	
For 2-1/8" Mesh Fabric, Deduct	-26.77	
For Gate With Single Barb Wire Arm, Add	33.85	
For Gate With Double Barb Wire Arm, Add	49.24	
32 31 13 13-0454 EA 8' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	481.41	45.58
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-64.62	
For 1" Mesh Fabric, Add	149.92	
For 1-1/4" Mesh Fabric, Add	96.50	
For 1-3/4" Mesh Fabric, Add	59.97	
For 2-1/8" Mesh Fabric, Deduct	-29.98	
For Gate With Single Barb Wire Arm, Add	37.91	
For Gate With Double Barb Wire Arm, Add	55.14	
32 31 13 13-0455 EA 9' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	536.02	51.45
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-71.54	
For 1" Mesh Fabric, Add	165.98	
For 1-1/4" Mesh Fabric, Add	106.84	
For 1-3/4" Mesh Fabric, Add	66.39	
For 2-1/8" Mesh Fabric, Deduct	-33.20	
For Gate With Single Barb Wire Arm, Add	41.97	
For Gate With Double Barb Wire Arm, Add	61.05	
32 31 13 13-0456 EA 10' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	590.62	57.31
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-78.47	
For 1" Mesh Fabric, Add	182.05	
For 1-1/4" Mesh Fabric, Add	117.18	
For 1-3/4" Mesh Fabric, Add	72.82	
For 2-1/8" Mesh Fabric, Deduct	-36.41	
For Gate With Single Barb Wire Arm, Add	46.04	
For Gate With Double Barb Wire Arm, Add	66.96	
32 31 13 13-0457 EA 10' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	762.58	57.22
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-110.78	
For 1" Mesh Fabric, Add	257.00	
For 1-1/4" Mesh Fabric, Add	165.43	
For 1-3/4" Mesh Fabric, Add	102.80	
For 2-1/8" Mesh Fabric, Deduct	-51.40	
For Gate With Single Barb Wire Arm, Add	64.99	
For Gate With Double Barb Wire Arm, Add	94.53	
32 31 13 13-0458 EA 12' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	895.06	61.96
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-132.93	
For 1" Mesh Fabric, Add	308.41	
For 1-1/4" Mesh Fabric, Add	198.51	
For 1-3/4" Mesh Fabric, Add	123.36	
For 2-1/8" Mesh Fabric, Deduct	-61.68	
For Gate With Single Barb Wire Arm, Add	77.99	
For Gate With Double Barb Wire Arm, Add	113.44	
32 31 13 13-0459 EA 14' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,083.33	85.30
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-155.09	
For 1" Mesh Fabric, Add	359.81	
For 1-1/4" Mesh Fabric, Add	231.60	
For 1-3/4" Mesh Fabric, Add	143.92	
For 2-1/8" Mesh Fabric, Deduct	-71.96	
For Gate With Single Barb Wire Arm, Add	90.99	
For Gate With Double Barb Wire Arm, Add	132.34	
32 31 13 13-0460 EA 16' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,221.19	91.91
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-177.24	
For 1" Mesh Fabric, Add	411.21	
For 1-1/4" Mesh Fabric, Add	264.68	
For 1-3/4" Mesh Fabric, Add	164.48	
For 2-1/8" Mesh Fabric, Deduct	-82.24	
For Gate With Single Barb Wire Arm, Add	103.98	
For Gate With Double Barb Wire Arm, Add	151.25	
32 31 13 13-0461 EA 18' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,362.35	99.53
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-199.40	
For 1" Mesh Fabric, Add	462.61	
For 1-1/4" Mesh Fabric, Add	297.77	
For 1-3/4" Mesh Fabric, Add	185.04	
For 2-1/8" Mesh Fabric, Deduct	-92.52	
For Gate With Single Barb Wire Arm, Add	116.98	
For Gate With Double Barb Wire Arm, Add	170.16	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0462 EA 20' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,529.52	108.60
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-225.65	
For 1" Mesh Fabric, Add	523.51	
For 1-1/4" Mesh Fabric, Add	336.97	
For 1-3/4" Mesh Fabric, Add	209.40	
For 2-1/8" Mesh Fabric, Deduct	-104.70	
For Gate With Single Barb Wire Arm, Add	132.38	
For Gate With Double Barb Wire Arm, Add	192.56	
32 31 13 13-0463 EA 22' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,662.41	119.47
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-244.45	
For 1" Mesh Fabric, Add	567.13	
For 1-1/4" Mesh Fabric, Add	365.05	
For 1-3/4" Mesh Fabric, Add	226.85	
For 2-1/8" Mesh Fabric, Deduct	-113.43	
For Gate With Single Barb Wire Arm, Add	143.41	
For Gate With Double Barb Wire Arm, Add	208.60	
32 31 13 13-0464 EA 24' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,816.45	132.70
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-265.87	
For 1" Mesh Fabric, Add	616.81	
For 1-1/4" Mesh Fabric, Add	397.03	
For 1-3/4" Mesh Fabric, Add	246.72	
For 2-1/8" Mesh Fabric, Deduct	-123.36	
For Gate With Single Barb Wire Arm, Add	155.97	
For Gate With Double Barb Wire Arm, Add	226.87	
32 31 13 13-0465 EA 26' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,984.44	149.29
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-288.02	
For 1" Mesh Fabric, Add	668.21	
For 1-1/4" Mesh Fabric, Add	430.11	
For 1-3/4" Mesh Fabric, Add	267.28	
For 2-1/8" Mesh Fabric, Deduct	-133.64	
For Gate With Single Barb Wire Arm, Add	168.97	
For Gate With Double Barb Wire Arm, Add	245.78	
32 31 13 13-0466 EA 28' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,166.64	170.58
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-310.18	
For 1" Mesh Fabric, Add	719.61	
For 1-1/4" Mesh Fabric, Add	463.20	
For 1-3/4" Mesh Fabric, Add	287.84	
For 2-1/8" Mesh Fabric, Deduct	-143.92	
For Gate With Single Barb Wire Arm, Add	181.97	
For Gate With Double Barb Wire Arm, Add	264.68	
32 31 13 13-0467 EA 30' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,370.19	199.05
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-332.33	
For 1" Mesh Fabric, Add	771.01	
For 1-1/4" Mesh Fabric, Add	496.28	
For 1-3/4" Mesh Fabric, Add	308.40	
For 2-1/8" Mesh Fabric, Deduct	-154.20	
For Gate With Single Barb Wire Arm, Add	194.97	
For Gate With Double Barb Wire Arm, Add	283.59	
32 31 13 13-0468 7' Fence Height <small>(32 31 13 13-0407)</small>		
32 31 13 13-0469 EA 3' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	241.01	28.56
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-29.09	
For 1" Mesh Fabric, Add	67.48	
For 1-1/4" Mesh Fabric, Add	43.44	
For 1-3/4" Mesh Fabric, Add	26.99	
For 2-1/8" Mesh Fabric, Deduct	-13.50	
For Gate With Single Barb Wire Arm, Add	17.06	
For Gate With Double Barb Wire Arm, Add	24.82	
32 31 13 13-0470 EA 4' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	292.74	28.56
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-38.79	
For 1" Mesh Fabric, Add	89.98	
For 1-1/4" Mesh Fabric, Add	57.92	
For 1-3/4" Mesh Fabric, Add	35.99	
For 2-1/8" Mesh Fabric, Deduct	-18.00	
For Gate With Single Barb Wire Arm, Add	22.75	
For Gate With Double Barb Wire Arm, Add	33.10	
32 31 13 13-0471 EA 5' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	335.90	30.05
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-46.06	
For 1" Mesh Fabric, Add	106.86	
For 1-1/4" Mesh Fabric, Add	68.78	
For 1-3/4" Mesh Fabric, Add	42.74	
For 2-1/8" Mesh Fabric, Deduct	-21.37	
For Gate With Single Barb Wire Arm, Add	27.02	
For Gate With Double Barb Wire Arm, Add	39.30	
32 31 13 13-0472 EA 6' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	394.21	36.57
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-53.33	
For 1" Mesh Fabric, Add	123.73	
For 1-1/4" Mesh Fabric, Add	79.64	
For 1-3/4" Mesh Fabric, Add	49.49	
For 2-1/8" Mesh Fabric, Deduct	-24.75	
For Gate With Single Barb Wire Arm, Add	31.29	
For Gate With Double Barb Wire Arm, Add	45.51	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0473 EA 7' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	451.61	42.80
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-60.60	
For 1" Mesh Fabric, Add	140.60	
For 1-1/4" Mesh Fabric, Add	90.50	
For 1-3/4" Mesh Fabric, Add	56.24	
For 2-1/8" Mesh Fabric, Deduct	-28.12	
For Gate With Single Barb Wire Arm, Add	35.55	
For Gate With Double Barb Wire Arm, Add	51.72	
32 31 13 13-0474 EA 8' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	509.94	49.21
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-67.88	
For 1" Mesh Fabric, Add	157.47	
For 1-1/4" Mesh Fabric, Add	101.36	
For 1-3/4" Mesh Fabric, Add	62.99	
For 2-1/8" Mesh Fabric, Deduct	-31.49	
For Gate With Single Barb Wire Arm, Add	39.82	
For Gate With Double Barb Wire Arm, Add	57.92	
32 31 13 13-0475 EA 9' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	567.33	55.45
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-75.15	
For 1" Mesh Fabric, Add	174.34	
For 1-1/4" Mesh Fabric, Add	112.22	
For 1-3/4" Mesh Fabric, Add	69.74	
For 2-1/8" Mesh Fabric, Deduct	-34.87	
For Gate With Single Barb Wire Arm, Add	44.09	
For Gate With Double Barb Wire Arm, Add	64.13	
32 31 13 13-0476 EA 10' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	625.67	61.96
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-82.42	
For 1" Mesh Fabric, Add	191.22	
For 1-1/4" Mesh Fabric, Add	123.09	
For 1-3/4" Mesh Fabric, Add	76.49	
For 2-1/8" Mesh Fabric, Deduct	-38.24	
For Gate With Single Barb Wire Arm, Add	48.35	
For Gate With Double Barb Wire Arm, Add	70.33	
32 31 13 13-0477 EA 10' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	806.66	61.96
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-116.36	
For 1" Mesh Fabric, Add	269.95	
For 1-1/4" Mesh Fabric, Add	173.76	
For 1-3/4" Mesh Fabric, Add	107.98	
For 2-1/8" Mesh Fabric, Deduct	-53.99	
For Gate With Single Barb Wire Arm, Add	68.26	
For Gate With Double Barb Wire Arm, Add	99.29	
32 31 13 13-0478 EA 12' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,000.87	85.30
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-139.63	
For 1" Mesh Fabric, Add	323.94	
For 1-1/4" Mesh Fabric, Add	208.51	
For 1-3/4" Mesh Fabric, Add	129.57	
For 2-1/8" Mesh Fabric, Deduct	-64.79	
For Gate With Single Barb Wire Arm, Add	81.91	
For Gate With Double Barb Wire Arm, Add	119.15	
32 31 13 13-0479 EA 14' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,144.70	91.91
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-162.90	
For 1" Mesh Fabric, Add	377.93	
For 1-1/4" Mesh Fabric, Add	243.27	
For 1-3/4" Mesh Fabric, Add	151.17	
For 2-1/8" Mesh Fabric, Deduct	-75.59	
For Gate With Single Barb Wire Arm, Add	95.57	
For Gate With Double Barb Wire Arm, Add	139.01	
32 31 13 13-0480 EA 16' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,291.78	99.53
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-186.17	
For 1" Mesh Fabric, Add	431.91	
For 1-1/4" Mesh Fabric, Add	278.01	
For 1-3/4" Mesh Fabric, Add	172.76	
For 2-1/8" Mesh Fabric, Deduct	-86.38	
For Gate With Single Barb Wire Arm, Add	109.22	
For Gate With Double Barb Wire Arm, Add	158.86	
32 31 13 13-0481 EA 18' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,443.08	108.60
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-209.44	
For 1" Mesh Fabric, Add	485.91	
For 1-1/4" Mesh Fabric, Add	312.77	
For 1-3/4" Mesh Fabric, Add	194.36	
For 2-1/8" Mesh Fabric, Deduct	-97.18	
For Gate With Single Barb Wire Arm, Add	122.87	
For Gate With Double Barb Wire Arm, Add	178.72	
32 31 13 13-0482 EA 20' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,599.79	119.47
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-232.71	
For 1" Mesh Fabric, Add	539.89	
For 1-1/4" Mesh Fabric, Add	347.52	
For 1-3/4" Mesh Fabric, Add	215.96	
For 2-1/8" Mesh Fabric, Deduct	-107.98	
For Gate With Single Barb Wire Arm, Add	136.52	
For Gate With Double Barb Wire Arm, Add	198.58	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0483 EA 22' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,763.72	132.70
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-255.98	
For 1" Mesh Fabric, Add	593.87	
For 1-1/4" Mesh Fabric, Add	382.26	
For 1-3/4" Mesh Fabric, Add	237.55	
For 2-1/8" Mesh Fabric, Deduct	-118.77	
For Gate With Single Barb Wire Arm, Add	150.17	
For Gate With Double Barb Wire Arm, Add	218.44	
32 31 13 13-0484 EA 24' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,937.67	149.29
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-279.25	
For 1" Mesh Fabric, Add	647.87	
For 1-1/4" Mesh Fabric, Add	417.02	
For 1-3/4" Mesh Fabric, Add	259.15	
For 2-1/8" Mesh Fabric, Deduct	-129.57	
For Gate With Single Barb Wire Arm, Add	163.83	
For Gate With Double Barb Wire Arm, Add	238.30	
32 31 13 13-0485 EA 26' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,125.84	170.58
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-302.53	
For 1" Mesh Fabric, Add	701.86	
For 1-1/4" Mesh Fabric, Add	451.77	
For 1-3/4" Mesh Fabric, Add	280.75	
For 2-1/8" Mesh Fabric, Deduct	-140.37	
For Gate With Single Barb Wire Arm, Add	177.48	
For Gate With Double Barb Wire Arm, Add	258.16	
32 31 13 13-0486 EA 28' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,335.33	199.05
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-325.80	
For 1" Mesh Fabric, Add	755.85	
For 1-1/4" Mesh Fabric, Add	486.52	
For 1-3/4" Mesh Fabric, Add	302.34	
For 2-1/8" Mesh Fabric, Deduct	-151.17	
For Gate With Single Barb Wire Arm, Add	191.13	
For Gate With Double Barb Wire Arm, Add	278.01	
32 31 13 13-0487 EA 30' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,579.02	238.84
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-349.07	
For 1" Mesh Fabric, Add	809.84	
For 1-1/4" Mesh Fabric, Add	521.28	
For 1-3/4" Mesh Fabric, Add	323.94	
For 2-1/8" Mesh Fabric, Deduct	-161.97	
For Gate With Single Barb Wire Arm, Add	204.79	
For Gate With Double Barb Wire Arm, Add	297.87	
32 31 13 13-0488 8' Fence Height (32 31 13 13-0407)		
32 31 13 13-0489 EA 3' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	281.07	30.98
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-35.26	
For 1" Mesh Fabric, Add	81.80	
For 1-1/4" Mesh Fabric, Add	52.65	
For 1-3/4" Mesh Fabric, Add	32.72	
For 2-1/8" Mesh Fabric, Deduct	-16.36	
For Gate With Single Barb Wire Arm, Add	20.68	
For Gate With Double Barb Wire Arm, Add	30.09	
32 31 13 13-0490 EA 4' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	343.75	30.98
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-47.01	
For 1" Mesh Fabric, Add	109.06	
For 1-1/4" Mesh Fabric, Add	70.20	
For 1-3/4" Mesh Fabric, Add	43.63	
For 2-1/8" Mesh Fabric, Deduct	-21.81	
For Gate With Single Barb Wire Arm, Add	27.58	
For Gate With Double Barb Wire Arm, Add	40.12	
32 31 13 13-0491 EA 5' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	385.54	30.98
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-54.85	
For 1" Mesh Fabric, Add	127.24	
For 1-1/4" Mesh Fabric, Add	81.90	
For 1-3/4" Mesh Fabric, Add	50.90	
For 2-1/8" Mesh Fabric, Deduct	-25.45	
For Gate With Single Barb Wire Arm, Add	32.18	
For Gate With Double Barb Wire Arm, Add	46.80	
32 31 13 13-0492 EA 6' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	451.52	39.08
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-62.68	
For 1" Mesh Fabric, Add	145.42	
For 1-1/4" Mesh Fabric, Add	93.60	
For 1-3/4" Mesh Fabric, Add	58.17	
For 2-1/8" Mesh Fabric, Deduct	-29.08	
For Gate With Single Barb Wire Arm, Add	36.77	
For Gate With Double Barb Wire Arm, Add	53.49	
32 31 13 13-0493 EA 7' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm	517.49	47.08
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-70.52	
For 1" Mesh Fabric, Add	163.59	
For 1-1/4" Mesh Fabric, Add	105.30	
For 1-3/4" Mesh Fabric, Add	65.44	
For 2-1/8" Mesh Fabric, Deduct	-32.72	
For Gate With Single Barb Wire Arm, Add	41.37	
For Gate With Double Barb Wire Arm, Add	60.17	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0494 EA 8' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	582.54	54.80
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-78.35	
For 1" Mesh Fabric, Add	181.77	
For 1-1/4" Mesh Fabric, Add	117.00	
For 1-3/4" Mesh Fabric, Add	72.71	
For 2-1/8" Mesh Fabric, Deduct	-36.35	
For Gate With Single Barb Wire Arm, Add	45.97	
For Gate With Double Barb Wire Arm, Add	66.86	
32 31 13 13-0495 EA 9' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	648.53	62.89
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-86.19	
For 1" Mesh Fabric, Add	199.95	
For 1-1/4" Mesh Fabric, Add	128.70	
For 1-3/4" Mesh Fabric, Add	79.98	
For 2-1/8" Mesh Fabric, Deduct	-39.99	
For Gate With Single Barb Wire Arm, Add	50.56	
For Gate With Double Barb Wire Arm, Add	73.55	
32 31 13 13-0496 EA 10' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	714.49	70.98
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-94.02	
For 1" Mesh Fabric, Add	218.13	
For 1-1/4" Mesh Fabric, Add	140.40	
For 1-3/4" Mesh Fabric, Add	87.25	
For 2-1/8" Mesh Fabric, Deduct	-43.63	
For Gate With Single Barb Wire Arm, Add	55.16	
For Gate With Double Barb Wire Arm, Add	80.23	
32 31 13 13-0497 EA 10' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,008.35	85.30
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-141.03	
For 1" Mesh Fabric, Add	327.19	
For 1-1/4" Mesh Fabric, Add	210.60	
For 1-3/4" Mesh Fabric, Add	130.88	
For 2-1/8" Mesh Fabric, Deduct	-65.44	
For Gate With Single Barb Wire Arm, Add	82.74	
For Gate With Double Barb Wire Arm, Add	120.35	
32 31 13 13-0498 EA 12' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,178.48	91.91
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-169.24	
For 1" Mesh Fabric, Add	392.63	
For 1-1/4" Mesh Fabric, Add	252.73	
For 1-3/4" Mesh Fabric, Add	157.05	
For 2-1/8" Mesh Fabric, Deduct	-78.53	
For Gate With Single Barb Wire Arm, Add	99.28	
For Gate With Double Barb Wire Arm, Add	144.41	
32 31 13 13-0499 EA 14' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,351.90	99.53
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-197.44	
For 1" Mesh Fabric, Add	458.06	
For 1-1/4" Mesh Fabric, Add	294.85	
For 1-3/4" Mesh Fabric, Add	183.23	
For 2-1/8" Mesh Fabric, Deduct	-91.61	
For Gate With Single Barb Wire Arm, Add	115.83	
For Gate With Double Barb Wire Arm, Add	168.48	
32 31 13 13-0500 EA 16' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,529.50	108.60
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-225.65	
For 1" Mesh Fabric, Add	523.50	
For 1-1/4" Mesh Fabric, Add	336.97	
For 1-3/4" Mesh Fabric, Add	209.40	
For 2-1/8" Mesh Fabric, Deduct	-104.70	
For Gate With Single Barb Wire Arm, Add	132.38	
For Gate With Double Barb Wire Arm, Add	192.55	
32 31 13 13-0501 EA 18' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,712.54	119.47
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-253.85	
For 1" Mesh Fabric, Add	588.94	
For 1-1/4" Mesh Fabric, Add	379.09	
For 1-3/4" Mesh Fabric, Add	235.58	
For 2-1/8" Mesh Fabric, Deduct	-117.79	
For Gate With Single Barb Wire Arm, Add	148.93	
For Gate With Double Barb Wire Arm, Add	216.62	
32 31 13 13-0502 EA 20' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,902.81	132.70
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-282.06	
For 1" Mesh Fabric, Add	654.37	
For 1-1/4" Mesh Fabric, Add	421.21	
For 1-3/4" Mesh Fabric, Add	261.75	
For 2-1/8" Mesh Fabric, Deduct	-130.87	
For Gate With Single Barb Wire Arm, Add	165.47	
For Gate With Double Barb Wire Arm, Add	240.69	
32 31 13 13-0503 EA 22' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,103.06	149.29
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-310.26	
For 1" Mesh Fabric, Add	719.81	
For 1-1/4" Mesh Fabric, Add	463.33	
For 1-3/4" Mesh Fabric, Add	287.92	
For 2-1/8" Mesh Fabric, Deduct	-143.96	
For Gate With Single Barb Wire Arm, Add	182.02	
For Gate With Double Barb Wire Arm, Add	264.76	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0504	EA		24' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,317.54	170.58
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-338.47	
			For 1" Mesh Fabric, Add	785.25	
			For 1-1/4" Mesh Fabric, Add	505.45	
			For 1-3/4" Mesh Fabric, Add	314.10	
			For 2-1/8" Mesh Fabric, Deduct	-157.05	
			For Gate With Single Barb Wire Arm, Add	198.57	
			For Gate With Double Barb Wire Arm, Add	288.83	
32 31 13 13-0505	EA		26' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,553.36	199.05
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-366.68	
			For 1" Mesh Fabric, Add	850.69	
			For 1-1/4" Mesh Fabric, Add	547.57	
			For 1-3/4" Mesh Fabric, Add	340.28	
			For 2-1/8" Mesh Fabric, Deduct	-170.14	
			For Gate With Single Barb Wire Arm, Add	215.12	
			For Gate With Double Barb Wire Arm, Add	312.90	
32 31 13 13-0506	EA		28' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,823.35	238.84
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-394.88	
			For 1" Mesh Fabric, Add	916.13	
			For 1-1/4" Mesh Fabric, Add	589.69	
			For 1-3/4" Mesh Fabric, Add	366.45	
			For 2-1/8" Mesh Fabric, Deduct	-183.23	
			For Gate With Single Barb Wire Arm, Add	231.66	
			For Gate With Double Barb Wire Arm, Add	336.97	
32 31 13 13-0507	EA		30' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,153.10	298.58
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-423.09	
			For 1" Mesh Fabric, Add	981.56	
			For 1-1/4" Mesh Fabric, Add	631.81	
			For 1-3/4" Mesh Fabric, Add	392.63	
			For 2-1/8" Mesh Fabric, Deduct	-196.31	
			For Gate With Single Barb Wire Arm, Add	248.21	
			For Gate With Double Barb Wire Arm, Add	361.04	
32 31 13 13-0508			10' Fence Height <small>(32 31 13 13-0407)</small>		
32 31 13 13-0509	EA		3' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	321.51	34.43
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-40.90	
			For 1" Mesh Fabric, Add	94.89	
			For 1-1/4" Mesh Fabric, Add	61.08	
			For 1-3/4" Mesh Fabric, Add	37.95	
			For 2-1/8" Mesh Fabric, Deduct	-18.98	
			For Gate With Single Barb Wire Arm, Add	23.99	
			For Gate With Double Barb Wire Arm, Add	34.90	
32 31 13 13-0510	EA		4' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	394.22	34.43
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-54.53	
			For 1" Mesh Fabric, Add	126.52	
			For 1-1/4" Mesh Fabric, Add	81.44	
			For 1-3/4" Mesh Fabric, Add	50.61	
			For 2-1/8" Mesh Fabric, Deduct	-25.30	
			For Gate With Single Barb Wire Arm, Add	31.99	
			For Gate With Double Barb Wire Arm, Add	46.53	
32 31 13 13-0511	EA		5' Wide x 10' High Gate Single Vinyl Coated Without Barbed Wire Arm	447.24	35.91
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-63.62	
			For 1" Mesh Fabric, Add	147.60	
			For 1-1/4" Mesh Fabric, Add	95.01	
			For 1-3/4" Mesh Fabric, Add	59.04	
			For 2-1/8" Mesh Fabric, Deduct	-29.52	
			For Gate With Single Barb Wire Arm, Add	37.33	
			For Gate With Double Barb Wire Arm, Add	54.29	
32 31 13 13-0512	EA		6' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	521.77	44.66
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-72.71	
			For 1" Mesh Fabric, Add	168.69	
			For 1-1/4" Mesh Fabric, Add	108.58	
			For 1-3/4" Mesh Fabric, Add	67.48	
			For 2-1/8" Mesh Fabric, Deduct	-33.74	
			For Gate With Single Barb Wire Arm, Add	42.66	
			For Gate With Double Barb Wire Arm, Add	62.05	
32 31 13 13-0513	EA		7' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	595.37	52.93
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-81.80	
			For 1" Mesh Fabric, Add	189.78	
			For 1-1/4" Mesh Fabric, Add	122.16	
			For 1-3/4" Mesh Fabric, Add	75.91	
			For 2-1/8" Mesh Fabric, Deduct	-37.96	
			For Gate With Single Barb Wire Arm, Add	47.99	
			For Gate With Double Barb Wire Arm, Add	69.80	
32 31 13 13-0514	EA		8' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm	669.90	61.68
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-90.89	
			For 1" Mesh Fabric, Add	210.87	
			For 1-1/4" Mesh Fabric, Add	135.73	
			For 1-3/4" Mesh Fabric, Add	84.35	
			For 2-1/8" Mesh Fabric, Deduct	-42.17	
			For Gate With Single Barb Wire Arm, Add	53.32	
			For Gate With Double Barb Wire Arm, Add	77.56	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0515 EA 9' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	743.49	70.05
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-99.98	
For 1" Mesh Fabric, Add	231.96	
For 1-1/4" Mesh Fabric, Add	149.30	
For 1-3/4" Mesh Fabric, Add	92.78	
For 2-1/8" Mesh Fabric, Deduct	-46.39	
For Gate With Single Barb Wire Arm, Add	58.66	
For Gate With Double Barb Wire Arm, Add	85.32	
32 31 13 13-0516 EA 10' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	818.01	78.71
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-109.07	
For 1" Mesh Fabric, Add	253.04	
For 1-1/4" Mesh Fabric, Add	162.88	
For 1-3/4" Mesh Fabric, Add	101.22	
For 2-1/8" Mesh Fabric, Deduct	-50.61	
For Gate With Single Barb Wire Arm, Add	63.99	
For Gate With Double Barb Wire Arm, Add	93.07	
32 31 13 13-0517 EA 10' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,157.18	94.82
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-163.60	
For 1" Mesh Fabric, Add	379.55	
For 1-1/4" Mesh Fabric, Add	244.31	
For 1-3/4" Mesh Fabric, Add	151.82	
For 2-1/8" Mesh Fabric, Deduct	-75.91	
For Gate With Single Barb Wire Arm, Add	95.98	
For Gate With Double Barb Wire Arm, Add	139.61	
32 31 13 13-0518 EA 12' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,353.49	101.99
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-196.32	
For 1" Mesh Fabric, Add	455.47	
For 1-1/4" Mesh Fabric, Add	293.17	
For 1-3/4" Mesh Fabric, Add	182.19	
For 2-1/8" Mesh Fabric, Deduct	-91.09	
For Gate With Single Barb Wire Arm, Add	115.18	
For Gate With Double Barb Wire Arm, Add	167.53	
32 31 13 13-0519 EA 14' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,553.64	110.63
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-229.04	
For 1" Mesh Fabric, Add	531.37	
For 1-1/4" Mesh Fabric, Add	342.03	
For 1-3/4" Mesh Fabric, Add	212.55	
For 2-1/8" Mesh Fabric, Deduct	-106.27	
For Gate With Single Barb Wire Arm, Add	134.37	
For Gate With Double Barb Wire Arm, Add	195.45	
32 31 13 13-0520 EA 16' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,758.19	120.60
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-261.76	
For 1" Mesh Fabric, Add	607.29	
For 1-1/4" Mesh Fabric, Add	390.90	
For 1-3/4" Mesh Fabric, Add	242.91	
For 2-1/8" Mesh Fabric, Deduct	-121.46	
For Gate With Single Barb Wire Arm, Add	153.57	
For Gate With Double Barb Wire Arm, Add	223.37	
32 31 13 13-0521 EA 18' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,969.07	132.70
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-294.48	
For 1" Mesh Fabric, Add	683.20	
For 1-1/4" Mesh Fabric, Add	439.76	
For 1-3/4" Mesh Fabric, Add	273.28	
For 2-1/8" Mesh Fabric, Deduct	-136.64	
For Gate With Single Barb Wire Arm, Add	172.76	
For Gate With Double Barb Wire Arm, Add	251.29	
32 31 13 13-0522 EA 20' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,187.64	147.39
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-327.20	
For 1" Mesh Fabric, Add	759.11	
For 1-1/4" Mesh Fabric, Add	488.62	
For 1-3/4" Mesh Fabric, Add	303.64	
For 2-1/8" Mesh Fabric, Deduct	-151.82	
For Gate With Single Barb Wire Arm, Add	191.96	
For Gate With Double Barb Wire Arm, Add	279.21	
32 31 13 13-0523 EA 22' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,417.71	165.88
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-359.92	
For 1" Mesh Fabric, Add	835.02	
For 1-1/4" Mesh Fabric, Add	537.48	
For 1-3/4" Mesh Fabric, Add	334.01	
For 2-1/8" Mesh Fabric, Deduct	-167.00	
For Gate With Single Barb Wire Arm, Add	211.15	
For Gate With Double Barb Wire Arm, Add	307.13	
32 31 13 13-0524 EA 24 Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,663.02	189.41
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-392.64	
For 1" Mesh Fabric, Add	910.93	
For 1-1/4" Mesh Fabric, Add	586.35	
For 1-3/4" Mesh Fabric, Add	364.37	
For 2-1/8" Mesh Fabric, Deduct	-182.19	
For Gate With Single Barb Wire Arm, Add	230.35	
For Gate With Double Barb Wire Arm, Add	335.05	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0525	EA	26' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,932.77	221.14
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-425.36	
			For 1" Mesh Fabric, Add	986.84	
			For 1-1/4" Mesh Fabric, Add	635.21	
			For 1-3/4" Mesh Fabric, Add	394.74	
			For 2-1/8" Mesh Fabric, Deduct	-197.37	
			For Gate With Single Barb Wire Arm, Add	249.55	
			For Gate With Double Barb Wire Arm, Add	362.98	
32 31	13 13-0526	EA	28' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,239.41	265.18
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-458.08	
			For 1" Mesh Fabric, Add	1,062.75	
			For 1-1/4" Mesh Fabric, Add	684.07	
			For 1-3/4" Mesh Fabric, Add	425.10	
			For 2-1/8" Mesh Fabric, Deduct	-212.55	
			For Gate With Single Barb Wire Arm, Add	268.74	
			For Gate With Double Barb Wire Arm, Add	390.90	
32 31	13 13-0527	EA	30' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,613.88	331.75
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-490.80	
			For 1" Mesh Fabric, Add	1,138.66	
			For 1-1/4" Mesh Fabric, Add	732.93	
			For 1-3/4" Mesh Fabric, Add	455.47	
			For 2-1/8" Mesh Fabric, Deduct	-227.73	
			For Gate With Single Barb Wire Arm, Add	287.94	
			For Gate With Double Barb Wire Arm, Add	418.82	
32 31	13 13-0528		12' Fence Height <small>(32 31 13 13-0407)</small>		
32 31	13 13-0529	EA	3' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm	419.07	38.23
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-57.04	
			For 1" Mesh Fabric, Add	132.33	
			For 1-1/4" Mesh Fabric, Add	85.18	
			For 1-3/4" Mesh Fabric, Add	52.93	
			For 2-1/8" Mesh Fabric, Deduct	-26.47	
			For Gate With Single Barb Wire Arm, Add	33.46	
			For Gate With Double Barb Wire Arm, Add	48.67	
32 31	13 13-0530	EA	4' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm	520.19	38.23
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-76.00	
			For 1" Mesh Fabric, Add	176.32	
			For 1-1/4" Mesh Fabric, Add	113.49	
			For 1-3/4" Mesh Fabric, Add	70.53	
			For 2-1/8" Mesh Fabric, Deduct	-35.26	
			For Gate With Single Barb Wire Arm, Add	44.59	
			For Gate With Double Barb Wire Arm, Add	64.85	
32 31	13 13-0531	EA	5' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm	599.64	39.63
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-90.10	
			For 1" Mesh Fabric, Add	209.04	
			For 1-1/4" Mesh Fabric, Add	134.55	
			For 1-3/4" Mesh Fabric, Add	83.62	
			For 2-1/8" Mesh Fabric, Deduct	-41.81	
			For Gate With Single Barb Wire Arm, Add	52.86	
			For Gate With Double Barb Wire Arm, Add	76.89	
32 31	13 13-0532	EA	6' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm	691.16	49.21
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-101.86	
			For 1" Mesh Fabric, Add	236.31	
			For 1-1/4" Mesh Fabric, Add	152.10	
			For 1-3/4" Mesh Fabric, Add	94.52	
			For 2-1/8" Mesh Fabric, Deduct	-47.26	
			For Gate With Single Barb Wire Arm, Add	59.76	
			For Gate With Double Barb Wire Arm, Add	86.92	
32 31	13 13-0533	EA	7' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm	789.66	58.89
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-114.92	
			For 1" Mesh Fabric, Add	266.60	
			For 1-1/4" Mesh Fabric, Add	171.61	
			For 1-3/4" Mesh Fabric, Add	106.64	
			For 2-1/8" Mesh Fabric, Deduct	-53.32	
			For Gate With Single Barb Wire Arm, Add	67.42	
			For Gate With Double Barb Wire Arm, Add	98.06	
32 31	13 13-0534	EA	8' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm	887.21	68.20
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-127.97	
			For 1" Mesh Fabric, Add	296.90	
			For 1-1/4" Mesh Fabric, Add	191.11	
			For 1-3/4" Mesh Fabric, Add	118.76	
			For 2-1/8" Mesh Fabric, Deduct	-59.38	
			For Gate With Single Barb Wire Arm, Add	75.08	
			For Gate With Double Barb Wire Arm, Add	109.20	
32 31	13 13-0535	EA	9' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm	985.70	77.78
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-141.03	
			For 1" Mesh Fabric, Add	327.19	
			For 1-1/4" Mesh Fabric, Add	210.61	
			For 1-3/4" Mesh Fabric, Add	130.88	
			For 2-1/8" Mesh Fabric, Deduct	-65.44	
			For Gate With Single Barb Wire Arm, Add	82.74	
			For Gate With Double Barb Wire Arm, Add	120.35	



	Exterior Improvements	32
	Site Improvements	32 30
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0536 EA 10' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	1,077.22	87.36
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-152.78	
For 1" Mesh Fabric, Add	354.46	
For 1-1/4" Mesh Fabric, Add	228.16	
For 1-3/4" Mesh Fabric, Add	141.78	
For 2-1/8" Mesh Fabric, Deduct	-70.89	
For Gate With Single Barb Wire Arm, Add	89.63	
For Gate With Double Barb Wire Arm, Add	130.38	
32 31 13 13-0537 EA 10' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,538.01	105.36
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-229.10	
For 1" Mesh Fabric, Add	531.50	
For 1-1/4" Mesh Fabric, Add	342.12	
For 1-3/4" Mesh Fabric, Add	212.60	
For 2-1/8" Mesh Fabric, Deduct	-106.30	
For Gate With Single Barb Wire Arm, Add	134.40	
For Gate With Double Barb Wire Arm, Add	195.50	
32 31 13 13-0538 EA 12' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,846.41	113.42
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-282.38	
For 1" Mesh Fabric, Add	655.11	
For 1-1/4" Mesh Fabric, Add	421.68	
For 1-3/4" Mesh Fabric, Add	262.04	
For 2-1/8" Mesh Fabric, Deduct	-131.02	
For Gate With Single Barb Wire Arm, Add	165.66	
For Gate With Double Barb Wire Arm, Add	240.96	
32 31 13 13-0539 EA 14' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,127.39	122.84
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-329.70	
For 1" Mesh Fabric, Add	764.90	
For 1-1/4" Mesh Fabric, Add	492.35	
For 1-3/4" Mesh Fabric, Add	305.96	
For 2-1/8" Mesh Fabric, Deduct	-152.98	
For Gate With Single Barb Wire Arm, Add	193.42	
For Gate With Double Barb Wire Arm, Add	281.34	
32 31 13 13-0540 EA 16' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,411.56	133.93
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-376.71	
For 1" Mesh Fabric, Add	873.97	
For 1-1/4" Mesh Fabric, Add	562.55	
For 1-3/4" Mesh Fabric, Add	349.59	
For 2-1/8" Mesh Fabric, Deduct	-174.79	
For Gate With Single Barb Wire Arm, Add	221.00	
For Gate With Double Barb Wire Arm, Add	321.46	
32 31 13 13-0541 EA 18' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,699.28	147.49
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-423.09	
For 1" Mesh Fabric, Add	981.58	
For 1-1/4" Mesh Fabric, Add	631.82	
For 1-3/4" Mesh Fabric, Add	392.63	
For 2-1/8" Mesh Fabric, Deduct	-196.32	
For Gate With Single Barb Wire Arm, Add	248.22	
For Gate With Double Barb Wire Arm, Add	361.04	
32 31 13 13-0542 EA 20' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,998.79	163.75
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-470.10	
For 1" Mesh Fabric, Add	1,090.64	
For 1-1/4" Mesh Fabric, Add	702.02	
For 1-3/4" Mesh Fabric, Add	436.26	
For 2-1/8" Mesh Fabric, Deduct	-218.13	
For Gate With Single Barb Wire Arm, Add	275.79	
For Gate With Double Barb Wire Arm, Add	401.16	
32 31 13 13-0543 EA 22' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,311.42	184.26
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-517.11	
For 1" Mesh Fabric, Add	1,199.70	
For 1-1/4" Mesh Fabric, Add	772.22	
For 1-3/4" Mesh Fabric, Add	479.88	
For 2-1/8" Mesh Fabric, Deduct	-239.94	
For Gate With Single Barb Wire Arm, Add	303.37	
For Gate With Double Barb Wire Arm, Add	441.27	
32 31 13 13-0544 EA 24' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,640.80	210.48
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-564.12	
For 1" Mesh Fabric, Add	1,308.77	
For 1-1/4" Mesh Fabric, Add	842.42	
For 1-3/4" Mesh Fabric, Add	523.51	
For 2-1/8" Mesh Fabric, Deduct	-261.75	
For Gate With Single Barb Wire Arm, Add	330.95	
For Gate With Double Barb Wire Arm, Add	481.39	
32 31 13 13-0545 EA 26' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	4,005.71	245.79
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-612.70	
For 1" Mesh Fabric, Add	1,421.47	
For 1-1/4" Mesh Fabric, Add	914.97	
For 1-3/4" Mesh Fabric, Add	568.59	
For 2-1/8" Mesh Fabric, Deduct	-284.29	
For Gate With Single Barb Wire Arm, Add	359.45	
For Gate With Double Barb Wire Arm, Add	522.84	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0546 EA 28' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	4,403.25	294.65
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-659.71	
For 1" Mesh Fabric, Add	1,530.53	
For 1-1/4" Mesh Fabric, Add	985.17	
For 1-3/4" Mesh Fabric, Add	612.21	
For 2-1/8" Mesh Fabric, Deduct	-306.11	
For Gate With Single Barb Wire Arm, Add	387.03	
For Gate With Double Barb Wire Arm, Add	562.96	
32 31 13 13-0547 EA 30' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	4,876.15	368.63
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-706.72	
For 1" Mesh Fabric, Add	1,639.60	
For 1-1/4" Mesh Fabric, Add	1,055.37	
For 1-3/4" Mesh Fabric, Add	655.84	
For 2-1/8" Mesh Fabric, Deduct	-327.92	
For Gate With Single Barb Wire Arm, Add	414.61	
For Gate With Double Barb Wire Arm, Add	603.07	
32 31 13 13-0548 Chain Link Galvanized Steel Sliding Gate <small>(32 31 13 13-0265)</small>		
Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper and lower rails, track brackets, roller gate wheel carrier, track rollers, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. See CSI section 32 31 13 13-0632 for additional gate accessories, 32 31 13 13-0724 for gate replacement parts.		
32 31 13 13-0549 4' High Chain Link Galvanized Steel Sliding Gate <small>(32 31 13 13-0548)</small>		
32 31 13 13-0550 EA 10' Long x 4' High Chain Link Galvanized Steel Sliding Gate	2,521.31	363.81
For 1" Mesh Fabric, Add	780.23	
For 1-1/4" Mesh Fabric, Add	502.22	
For 1-3/4" Mesh Fabric, Add	312.09	
For 2-1/8" Mesh Fabric, Deduct	-156.05	
For Gate With Barb Wire Arm, Add	197.30	
For Vinyl Coated, Add	538.09	
32 31 13 13-0551 EA 12' Long x 4' High Chain Link Galvanized Steel Sliding Gate	3,030.74	439.24
For 1" Mesh Fabric, Add	936.28	
For 1-1/4" Mesh Fabric, Add	602.66	
For 1-3/4" Mesh Fabric, Add	374.51	
For 2-1/8" Mesh Fabric, Deduct	-187.26	
For Gate With Barb Wire Arm, Add	236.76	
For Vinyl Coated, Add	645.71	
32 31 13 13-0552 EA 14' Long x 4' High Chain Link Galvanized Steel Sliding Gate	3,536.06	512.43
For 1" Mesh Fabric, Add	1,092.33	
For 1-1/4" Mesh Fabric, Add	703.11	
For 1-3/4" Mesh Fabric, Add	436.93	
For 2-1/8" Mesh Fabric, Deduct	-218.47	
For Gate With Barb Wire Arm, Add	276.22	
For Vinyl Coated, Add	753.33	
32 31 13 13-0553 EA 16' Long x 4' High Chain Link Galvanized Steel Sliding Gate	4,047.75	588.98
For 1" Mesh Fabric, Add	1,248.38	
For 1-1/4" Mesh Fabric, Add	803.55	
For 1-3/4" Mesh Fabric, Add	499.35	
For 2-1/8" Mesh Fabric, Deduct	-249.68	
For Gate With Barb Wire Arm, Add	315.68	
For Vinyl Coated, Add	860.95	
32 31 13 13-0554 EA 18' Long x 4' High Chain Link Galvanized Steel Sliding Gate	4,553.77	662.61
For 1" Mesh Fabric, Add	1,404.43	
For 1-1/4" Mesh Fabric, Add	904.00	
For 1-3/4" Mesh Fabric, Add	561.77	
For 2-1/8" Mesh Fabric, Deduct	-280.89	
For Gate With Barb Wire Arm, Add	355.14	
For Vinyl Coated, Add	968.57	
32 31 13 13-0555 EA 20' Long x 4' High Chain Link Galvanized Steel Sliding Gate	5,046.20	729.41
For 1" Mesh Fabric, Add	1,560.48	
For 1-1/4" Mesh Fabric, Add	1,004.44	
For 1-3/4" Mesh Fabric, Add	624.19	
For 2-1/8" Mesh Fabric, Deduct	-312.10	
For Gate With Barb Wire Arm, Add	394.60	
For Vinyl Coated, Add	1,076.19	
32 31 13 13-0556 EA 24' Long x 4' High Chain Link Galvanized Steel Sliding Gate	6,029.89	878.37
For 1" Mesh Fabric, Add	1,858.82	
For 1-1/4" Mesh Fabric, Add	1,196.48	
For 1-3/4" Mesh Fabric, Add	743.53	
For 2-1/8" Mesh Fabric, Deduct	-371.76	
For Gate With Barb Wire Arm, Add	470.05	
For Vinyl Coated, Add	1,281.95	
32 31 13 13-0557 EA 30' Long x 4' High Chain Link Galvanized Steel Sliding Gate	8,696.90	1,657.99
For 1" Mesh Fabric, Add	2,340.71	
For 1-1/4" Mesh Fabric, Add	1,506.66	
For 1-3/4" Mesh Fabric, Add	936.28	
For 2-1/8" Mesh Fabric, Deduct	-468.14	
For Gate With Barb Wire Arm, Add	591.90	
For Vinyl Coated, Add	1,614.28	



		Exterior Improvements	32
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0558 EA 40' Long x 4' High Chain Link Galvanized Steel Sliding Gate.....	11,595.87	2,210.66
For 1" Mesh Fabric, Add	3,120.94	
For 1-1/4" Mesh Fabric, Add	2,008.88	
For 1-3/4" Mesh Fabric, Add	1,248.38	
For 2-1/8" Mesh Fabric, Deduct	-624.19	
For Gate With Barb Wire Arm, Add	789.20	
For Vinyl Coated, Add	2,152.37	
32 31 13 13-0559 5' High Chain Link Galvanized Steel Sliding Gate (22 31 13 13-0548)		
32 31 13 13-0560 EA 10' Long x 5' High Chain Link Galvanized Steel Sliding Gate.....	2,638.31	395.97
For 1" Mesh Fabric, Add	803.17	
For 1-1/4" Mesh Fabric, Add	516.98	
For 1-3/4" Mesh Fabric, Add	321.27	
For 2-1/8" Mesh Fabric, Deduct	-160.63	
For Gate With Barb Wire Arm, Add	203.10	
For Vinyl Coated, Add	553.91	
32 31 13 13-0561 EA 12' Long x 5' High Chain Link Galvanized Steel Sliding Gate.....	3,164.85	474.65
For 1" Mesh Fabric, Add	963.80	
For 1-1/4" Mesh Fabric, Add	620.38	
For 1-3/4" Mesh Fabric, Add	385.52	
For 2-1/8" Mesh Fabric, Deduct	-192.76	
For Gate With Barb Wire Arm, Add	243.72	
For Vinyl Coated, Add	664.69	
32 31 13 13-0562 EA 14' Long x 5' High Chain Link Galvanized Steel Sliding Gate.....	3,692.14	553.67
For 1" Mesh Fabric, Add	1,124.44	
For 1-1/4" Mesh Fabric, Add	723.77	
For 1-3/4" Mesh Fabric, Add	449.77	
For 2-1/8" Mesh Fabric, Deduct	-224.89	
For Gate With Barb Wire Arm, Add	284.34	
For Vinyl Coated, Add	775.47	
32 31 13 13-0563 EA 16' Long x 5' High Chain Link Galvanized Steel Sliding Gate.....	4,219.90	632.91
For 1" Mesh Fabric, Add	1,285.07	
For 1-1/4" Mesh Fabric, Add	827.17	
For 1-3/4" Mesh Fabric, Add	514.03	
For 2-1/8" Mesh Fabric, Deduct	-257.01	
For Gate With Barb Wire Arm, Add	324.96	
For Vinyl Coated, Add	886.25	
32 31 13 13-0564 EA 18' Long x 5' High Chain Link Galvanized Steel Sliding Gate.....	4,747.13	711.81
For 1" Mesh Fabric, Add	1,445.70	
For 1-1/4" Mesh Fabric, Add	930.56	
For 1-3/4" Mesh Fabric, Add	578.28	
For 2-1/8" Mesh Fabric, Deduct	-289.14	
For Gate With Barb Wire Arm, Add	365.58	
For Vinyl Coated, Add	997.03	
32 31 13 13-0565 EA 20' Long x 5' High Chain Link Galvanized Steel Sliding Gate.....	5,274.64	790.94
For 1" Mesh Fabric, Add	1,606.33	
For 1-1/4" Mesh Fabric, Add	1,033.96	
For 1-3/4" Mesh Fabric, Add	642.53	
For 2-1/8" Mesh Fabric, Deduct	-321.27	
For Gate With Barb Wire Arm, Add	406.20	
For Vinyl Coated, Add	1,107.82	
32 31 13 13-0566 EA 24' Long x 5' High Chain Link Galvanized Steel Sliding Gate.....	6,299.22	950.20
For 1" Mesh Fabric, Add	1,913.46	
For 1-1/4" Mesh Fabric, Add	1,231.65	
For 1-3/4" Mesh Fabric, Add	765.38	
For 2-1/8" Mesh Fabric, Deduct	-382.69	
For Gate With Barb Wire Arm, Add	483.86	
For Vinyl Coated, Add	1,319.63	
32 31 13 13-0567 EA 30' Long x 5' High Chain Link Galvanized Steel Sliding Gate.....	7,912.38	1,186.70
For 1" Mesh Fabric, Add	2,409.50	
For 1-1/4" Mesh Fabric, Add	1,550.94	
For 1-3/4" Mesh Fabric, Add	963.80	
For 2-1/8" Mesh Fabric, Deduct	-481.90	
For Gate With Barb Wire Arm, Add	609.30	
For Vinyl Coated, Add	1,661.72	
32 31 13 13-0568 EA 40' Long x 5' High Chain Link Galvanized Steel Sliding Gate.....	10,549.28	1,581.89
For 1" Mesh Fabric, Add	3,212.66	
For 1-1/4" Mesh Fabric, Add	2,067.92	
For 1-3/4" Mesh Fabric, Add	1,285.06	
For 2-1/8" Mesh Fabric, Deduct	-642.53	
For Gate With Barb Wire Arm, Add	812.40	
For Vinyl Coated, Add	2,215.63	
32 31 13 13-0569 6' High Chain Link Galvanized Steel Sliding Gate (22 31 13 13-0548)		
32 31 13 13-0570 EA 10' Long x 6' High Chain Link Galvanized Steel Sliding Gate.....	2,811.64	464.23
For 1" Mesh Fabric, Add	819.22	
For 1-1/4" Mesh Fabric, Add	527.31	
For 1-3/4" Mesh Fabric, Add	327.69	
For 2-1/8" Mesh Fabric, Deduct	-163.84	
For Gate With Barb Wire Arm, Add	207.16	
For Vinyl Coated, Add	564.98	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0571	EA	12' Long x 6' High Chain Link Galvanized Steel Sliding Gate	3,370.71	555.36
			<i>For 1" Mesh Fabric, Add</i>	983.06	
			<i>For 1-1/4" Mesh Fabric, Add</i>	632.77	
			<i>For 1-3/4" Mesh Fabric, Add</i>	393.22	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-196.61	
			<i>For Gate With Barb Wire Arm, Add</i>	248.59	
			<i>For Vinyl Coated, Add</i>	677.97	
32 31 13	13-0572	EA	14' Long x 6' High Chain Link Galvanized Steel Sliding Gate	3,932.29	647.82
			<i>For 1" Mesh Fabric, Add</i>	1,146.91	
			<i>For 1-1/4" Mesh Fabric, Add</i>	738.24	
			<i>For 1-3/4" Mesh Fabric, Add</i>	458.76	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-229.38	
			<i>For Gate With Barb Wire Arm, Add</i>	290.02	
			<i>For Vinyl Coated, Add</i>	790.97	
32 31 13	13-0573	EA	16' Long x 6' High Chain Link Galvanized Steel Sliding Gate	4,494.28	740.51
			<i>For 1" Mesh Fabric, Add</i>	1,310.75	
			<i>For 1-1/4" Mesh Fabric, Add</i>	843.70	
			<i>For 1-3/4" Mesh Fabric, Add</i>	524.30	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-262.15	
			<i>For Gate With Barb Wire Arm, Add</i>	331.45	
			<i>For Vinyl Coated, Add</i>	903.97	
32 31 13	13-0574	EA	18' Long x 6' High Chain Link Galvanized Steel Sliding Gate	5,055.86	832.98
			<i>For 1" Mesh Fabric, Add</i>	1,474.59	
			<i>For 1-1/4" Mesh Fabric, Add</i>	949.16	
			<i>For 1-3/4" Mesh Fabric, Add</i>	589.84	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-294.92	
			<i>For Gate With Barb Wire Arm, Add</i>	372.89	
			<i>For Vinyl Coated, Add</i>	1,016.96	
32 31 13	13-0575	EA	20' Long x 6' High Chain Link Galvanized Steel Sliding Gate	5,623.68	928.58
			<i>For 1" Mesh Fabric, Add</i>	1,638.44	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,054.63	
			<i>For 1-3/4" Mesh Fabric, Add</i>	655.37	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-327.69	
			<i>For Gate With Barb Wire Arm, Add</i>	414.32	
			<i>For Vinyl Coated, Add</i>	1,129.96	
32 31 13	13-0576	EA	24' Long x 6' High Chain Link Galvanized Steel Sliding Gate	6,708.26	1,110.82
			<i>For 1" Mesh Fabric, Add</i>	1,951.70	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,256.27	
			<i>For 1-3/4" Mesh Fabric, Add</i>	780.68	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-390.34	
			<i>For Gate With Barb Wire Arm, Add</i>	493.53	
			<i>For Vinyl Coated, Add</i>	1,346.00	
32 31 13	13-0577	EA	30' Long x 6' High Chain Link Galvanized Steel Sliding Gate	8,427.46	1,388.89
			<i>For 1" Mesh Fabric, Add</i>	2,457.65	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,581.94	
			<i>For 1-3/4" Mesh Fabric, Add</i>	983.06	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-491.53	
			<i>For Gate With Barb Wire Arm, Add</i>	621.48	
			<i>For Vinyl Coated, Add</i>	1,694.93	
32 31 13	13-0578	EA	40' Long x 6' High Chain Link Galvanized Steel Sliding Gate	11,235.09	1,850.99
			<i>For 1" Mesh Fabric, Add</i>	3,276.87	
			<i>For 1-1/4" Mesh Fabric, Add</i>	2,109.25	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1,310.75	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-655.37	
			<i>For Gate With Barb Wire Arm, Add</i>	828.63	
			<i>For Vinyl Coated, Add</i>	2,259.91	
32 31 13	13-0579		7' High Chain Link Galvanized Steel Sliding Gate <small>(32 31 13 13-0548)</small>		
32 31 13	13-0580	EA	10' Long x 7' High Chain Link Galvanized Steel Sliding Gate	2,992.69	517.80
			<i>For 1" Mesh Fabric, Add</i>	851.33	
			<i>For 1-1/4" Mesh Fabric, Add</i>	547.98	
			<i>For 1-3/4" Mesh Fabric, Add</i>	340.53	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-170.27	
			<i>For Gate With Barb Wire Arm, Add</i>	215.28	
			<i>For Vinyl Coated, Add</i>	587.12	
32 31 13	13-0581	EA	12' Long x 7' High Chain Link Galvanized Steel Sliding Gate	3,590.42	620.92
			<i>For 1" Mesh Fabric, Add</i>	1,021.61	
			<i>For 1-1/4" Mesh Fabric, Add</i>	657.59	
			<i>For 1-3/4" Mesh Fabric, Add</i>	408.65	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-204.32	
			<i>For Gate With Barb Wire Arm, Add</i>	258.34	
			<i>For Vinyl Coated, Add</i>	704.56	
32 31 13	13-0582	EA	14' Long x 7' High Chain Link Galvanized Steel Sliding Gate	4,189.81	724.93
			<i>For 1" Mesh Fabric, Add</i>	1,191.85	
			<i>For 1-1/4" Mesh Fabric, Add</i>	767.17	
			<i>For 1-3/4" Mesh Fabric, Add</i>	476.74	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-238.37	
			<i>For Gate With Barb Wire Arm, Add</i>	301.39	
			<i>For Vinyl Coated, Add</i>	821.96	
32 31 13	13-0583	EA	16' Long x 7' High Chain Link Galvanized Steel Sliding Gate	4,787.45	828.04
			<i>For 1" Mesh Fabric, Add</i>	1,362.12	
			<i>For 1-1/4" Mesh Fabric, Add</i>	876.76	
			<i>For 1-3/4" Mesh Fabric, Add</i>	544.85	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-272.42	
			<i>For Gate With Barb Wire Arm, Add</i>	344.44	
			<i>For Vinyl Coated, Add</i>	939.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0584 EA 18' Long x 7' High Chain Link Galvanized Steel Sliding Gate.....	5,386.04	931.72
For 1" Mesh Fabric, Add	1,532.38	
For 1-1/4" Mesh Fabric, Add	986.36	
For 1-3/4" Mesh Fabric, Add	612.95	
For 2-1/8" Mesh Fabric, Deduct	-306.48	
For Gate With Barb Wire Arm, Add	387.50	
For Vinyl Coated, Add	1,056.81	
32 31 13 13-0585 EA 20' Long x 7' High Chain Link Galvanized Steel Sliding Gate.....	5,983.93	1,034.94
For 1" Mesh Fabric, Add	1,702.65	
For 1-1/4" Mesh Fabric, Add	1,095.96	
For 1-3/4" Mesh Fabric, Add	681.06	
For 2-1/8" Mesh Fabric, Deduct	-340.53	
For Gate With Barb Wire Arm, Add	430.55	
For Vinyl Coated, Add	1,174.24	
32 31 13 13-0586 EA 24' Long x 7' High Chain Link Galvanized Steel Sliding Gate.....	7,146.25	1,241.84
For 1" Mesh Fabric, Add	2,028.19	
For 1-1/4" Mesh Fabric, Add	1,305.50	
For 1-3/4" Mesh Fabric, Add	811.28	
For 2-1/8" Mesh Fabric, Deduct	-405.64	
For Gate With Barb Wire Arm, Add	512.88	
For Vinyl Coated, Add	1,398.75	
32 31 13 13-0587 EA 30' Long x 7' High Chain Link Galvanized Steel Sliding Gate.....	8,975.87	1,552.30
For 1" Mesh Fabric, Add	2,553.96	
For 1-1/4" Mesh Fabric, Add	1,643.93	
For 1-3/4" Mesh Fabric, Add	1,021.59	
For 2-1/8" Mesh Fabric, Deduct	-510.79	
For Gate With Barb Wire Arm, Add	645.83	
For Vinyl Coated, Add	1,761.35	
32 31 13 13-0588 EA 40' Long x 7' High Chain Link Galvanized Steel Sliding Gate.....	11,967.85	2,069.77
For 1" Mesh Fabric, Add	3,405.29	
For 1-1/4" Mesh Fabric, Add	2,191.91	
For 1-3/4" Mesh Fabric, Add	1,362.12	
For 2-1/8" Mesh Fabric, Deduct	-681.06	
For Gate With Barb Wire Arm, Add	861.11	
For Vinyl Coated, Add	2,348.48	
32 31 13 13-0589 8' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0548)		
32 31 13 13-0590 EA 10' Long x 8' High Chain Link Galvanized Steel Sliding Gate.....	3,136.97	560.96
For 1" Mesh Fabric, Add	876.55	
For 1-1/4" Mesh Fabric, Add	564.22	
For 1-3/4" Mesh Fabric, Add	350.62	
For 2-1/8" Mesh Fabric, Deduct	-175.31	
For Gate With Barb Wire Arm, Add	221.66	
For Vinyl Coated, Add	604.52	
32 31 13 13-0591 EA 12' Long x 8' High Chain Link Galvanized Steel Sliding Gate.....	3,761.15	671.58
For 1" Mesh Fabric, Add	1,051.86	
For 1-1/4" Mesh Fabric, Add	677.06	
For 1-3/4" Mesh Fabric, Add	420.74	
For 2-1/8" Mesh Fabric, Deduct	-210.37	
For Gate With Barb Wire Arm, Add	265.99	
For Vinyl Coated, Add	725.42	
32 31 13 13-0592 EA 14' Long x 8' High Chain Link Galvanized Steel Sliding Gate.....	4,388.06	783.55
For 1" Mesh Fabric, Add	1,227.16	
For 1-1/4" Mesh Fabric, Add	789.90	
For 1-3/4" Mesh Fabric, Add	490.86	
For 2-1/8" Mesh Fabric, Deduct	-245.43	
For Gate With Barb Wire Arm, Add	310.32	
For Vinyl Coated, Add	846.32	
32 31 13 13-0593 EA 16' Long x 8' High Chain Link Galvanized Steel Sliding Gate.....	5,015.20	895.52
For 1" Mesh Fabric, Add	1,402.47	
For 1-1/4" Mesh Fabric, Add	902.74	
For 1-3/4" Mesh Fabric, Add	560.99	
For 2-1/8" Mesh Fabric, Deduct	-280.49	
For Gate With Barb Wire Arm, Add	354.65	
For Vinyl Coated, Add	967.22	
32 31 13 13-0594 EA 18' Long x 8' High Chain Link Galvanized Steel Sliding Gate.....	5,641.08	1,007.03
For 1" Mesh Fabric, Add	1,577.78	
For 1-1/4" Mesh Fabric, Add	1,015.58	
For 1-3/4" Mesh Fabric, Add	631.11	
For 2-1/8" Mesh Fabric, Deduct	-315.56	
For Gate With Barb Wire Arm, Add	398.98	
For Vinyl Coated, Add	1,088.12	
32 31 13 13-0595 EA 20' Long x 8' High Chain Link Galvanized Steel Sliding Gate.....	6,268.34	1,119.12
For 1" Mesh Fabric, Add	1,753.09	
For 1-1/4" Mesh Fabric, Add	1,128.43	
For 1-3/4" Mesh Fabric, Add	701.24	
For 2-1/8" Mesh Fabric, Deduct	-350.62	
For Gate With Barb Wire Arm, Add	443.31	
For Vinyl Coated, Add	1,209.03	
32 31 13 13-0596 EA 24' Long x 8' High Chain Link Galvanized Steel Sliding Gate.....	7,486.78	1,343.05
For 1" Mesh Fabric, Add	2,088.28	
For 1-1/4" Mesh Fabric, Add	1,344.18	
For 1-3/4" Mesh Fabric, Add	835.31	
For 2-1/8" Mesh Fabric, Deduct	-417.66	
For Gate With Barb Wire Arm, Add	528.07	
For Vinyl Coated, Add	1,440.19	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0597 EA 30' Long x 8' High Chain Link Galvanized Steel Sliding Gate	9,403.34	1,679.07
For 1" Mesh Fabric, Add	2,629.64	
For 1-1/4" Mesh Fabric, Add	1,692.64	
For 1-3/4" Mesh Fabric, Add	1,051.86	
For 2-1/8" Mesh Fabric, Deduct	-525.93	
For Gate With Barb Wire Arm, Add	664.97	
For Vinyl Coated, Add	1,813.55	
32 31 13 13-0598 EA 40' Long x 8' High Chain Link Galvanized Steel Sliding Gate	12,534.42	2,237.11
For 1" Mesh Fabric, Add	3,506.18	
For 1-1/4" Mesh Fabric, Add	2,256.85	
For 1-3/4" Mesh Fabric, Add	1,402.47	
For 2-1/8" Mesh Fabric, Deduct	-701.24	
For Gate With Barb Wire Arm, Add	886.62	
For Vinyl Coated, Add	2,418.06	
32 31 13 13-0599 9' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0548)		
32 31 13 13-0600 EA 10' Long x 9' High Chain Link Galvanized Steel Sliding Gate	3,307.48	611.95
For 1" Mesh Fabric, Add	906.35	
For 1-1/4" Mesh Fabric, Add	583.40	
For 1-3/4" Mesh Fabric, Add	362.54	
For 2-1/8" Mesh Fabric, Deduct	-181.27	
For Gate With Barb Wire Arm, Add	229.19	
For Vinyl Coated, Add	625.07	
32 31 13 13-0601 EA 12' Long x 9' High Chain Link Galvanized Steel Sliding Gate	3,964.43	732.10
For 1" Mesh Fabric, Add	1,087.63	
For 1-1/4" Mesh Fabric, Add	700.08	
For 1-3/4" Mesh Fabric, Add	435.05	
For 2-1/8" Mesh Fabric, Deduct	-217.53	
For Gate With Barb Wire Arm, Add	275.03	
For Vinyl Coated, Add	750.09	
32 31 13 13-0602 EA 14' Long x 9' High Chain Link Galvanized Steel Sliding Gate	4,624.90	853.93
For 1" Mesh Fabric, Add	1,268.90	
For 1-1/4" Mesh Fabric, Add	816.77	
For 1-3/4" Mesh Fabric, Add	507.56	
For 2-1/8" Mesh Fabric, Deduct	-253.78	
For Gate With Barb Wire Arm, Add	320.87	
For Vinyl Coated, Add	875.11	
32 31 13 13-0603 EA 16' Long x 9' High Chain Link Galvanized Steel Sliding Gate	5,286.32	976.33
For 1" Mesh Fabric, Add	1,450.17	
For 1-1/4" Mesh Fabric, Add	933.44	
For 1-3/4" Mesh Fabric, Add	580.07	
For 2-1/8" Mesh Fabric, Deduct	-290.03	
For Gate With Barb Wire Arm, Add	366.71	
For Vinyl Coated, Add	1,000.12	
32 31 13 13-0604 EA 18' Long x 9' High Chain Link Galvanized Steel Sliding Gate	5,947.00	1,098.26
For 1" Mesh Fabric, Add	1,631.44	
For 1-1/4" Mesh Fabric, Add	1,050.12	
For 1-3/4" Mesh Fabric, Add	652.58	
For 2-1/8" Mesh Fabric, Deduct	-326.29	
For Gate With Barb Wire Arm, Add	412.55	
For Vinyl Coated, Add	1,125.13	
32 31 13 13-0605 EA 20' Long x 9' High Chain Link Galvanized Steel Sliding Gate	6,607.65	1,220.21
For 1" Mesh Fabric, Add	1,812.71	
For 1-1/4" Mesh Fabric, Add	1,166.80	
For 1-3/4" Mesh Fabric, Add	725.09	
For 2-1/8" Mesh Fabric, Deduct	-362.54	
For Gate With Barb Wire Arm, Add	458.39	
For Vinyl Coated, Add	1,250.15	
32 31 13 13-0606 EA 24' Long x 9' High Chain Link Galvanized Steel Sliding Gate	7,892.17	1,464.09
For 1" Mesh Fabric, Add	2,159.30	
For 1-1/4" Mesh Fabric, Add	1,389.89	
For 1-3/4" Mesh Fabric, Add	863.72	
For 2-1/8" Mesh Fabric, Deduct	-431.86	
For Gate With Barb Wire Arm, Add	546.03	
For Vinyl Coated, Add	1,489.17	
32 31 13 13-0607 EA 30' Long x 9' High Chain Link Galvanized Steel Sliding Gate	9,910.47	1,829.92
For 1" Mesh Fabric, Add	2,719.07	
For 1-1/4" Mesh Fabric, Add	1,750.20	
For 1-3/4" Mesh Fabric, Add	1,087.63	
For 2-1/8" Mesh Fabric, Deduct	-543.81	
For Gate With Barb Wire Arm, Add	687.58	
For Vinyl Coated, Add	1,875.22	
32 31 13 13-0608 EA 40' Long x 9' High Chain Link Galvanized Steel Sliding Gate	13,217.96	2,441.87
For 1" Mesh Fabric, Add	3,625.43	
For 1-1/4" Mesh Fabric, Add	2,333.61	
For 1-3/4" Mesh Fabric, Add	1,450.17	
For 2-1/8" Mesh Fabric, Deduct	-725.09	
For Gate With Barb Wire Arm, Add	916.78	
For Vinyl Coated, Add	2,500.30	

32 31 13 13-0609 10' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0548)



Exterior Improvements	32	
Site Improvements	32 30	32
Fences and Gates	32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0610	EA	10' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	3,519.49	673.15
			<i>For 1" Mesh Fabric, Add</i>	945.34	
			<i>For 1-1/4" Mesh Fabric, Add</i>	608.49	
			<i>For 1-3/4" Mesh Fabric, Add</i>	378.14	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-189.07	
			<i>For Gate With Barb Wire Arm, Add</i>	239.05	
			<i>For Vinyl Coated, Add</i>	651.96	
32 31	13 13-0611	EA	12' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	4,223.40	807.76
			<i>For 1" Mesh Fabric, Add</i>	1,134.41	
			<i>For 1-1/4" Mesh Fabric, Add</i>	730.20	
			<i>For 1-3/4" Mesh Fabric, Add</i>	453.76	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-226.88	
			<i>For Gate With Barb Wire Arm, Add</i>	286.86	
			<i>For Vinyl Coated, Add</i>	782.35	
32 31	13 13-0612	EA	14' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	4,927.75	942.59
			<i>For 1" Mesh Fabric, Add</i>	1,323.48	
			<i>For 1-1/4" Mesh Fabric, Add</i>	851.89	
			<i>For 1-3/4" Mesh Fabric, Add</i>	529.39	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-264.70	
			<i>For Gate With Barb Wire Arm, Add</i>	334.67	
			<i>For Vinyl Coated, Add</i>	912.74	
32 31	13 13-0613	EA	16' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	5,631.46	1,077.20
			<i>For 1" Mesh Fabric, Add</i>	1,512.55	
			<i>For 1-1/4" Mesh Fabric, Add</i>	973.59	
			<i>For 1-3/4" Mesh Fabric, Add</i>	605.02	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-302.51	
			<i>For Gate With Barb Wire Arm, Add</i>	382.48	
			<i>For Vinyl Coated, Add</i>	1,043.14	
32 31	13 13-0614	EA	18' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	6,335.08	1,211.69
			<i>For 1" Mesh Fabric, Add</i>	1,701.61	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,095.29	
			<i>For 1-3/4" Mesh Fabric, Add</i>	680.64	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-340.32	
			<i>For Gate With Barb Wire Arm, Add</i>	430.29	
			<i>For Vinyl Coated, Add</i>	1,173.52	
32 31	13 13-0615	EA	20' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	7,038.99	1,346.30
			<i>For 1" Mesh Fabric, Add</i>	1,890.68	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,216.99	
			<i>For 1-3/4" Mesh Fabric, Add</i>	756.27	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-378.14	
			<i>For Gate With Barb Wire Arm, Add</i>	478.10	
			<i>For Vinyl Coated, Add</i>	1,303.92	
32 31	13 13-0616	EA	24' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	8,409.69	1,616.19
			<i>For 1" Mesh Fabric, Add</i>	2,252.17	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,449.67	
			<i>For 1-3/4" Mesh Fabric, Add</i>	900.87	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-450.43	
			<i>For Gate With Barb Wire Arm, Add</i>	569.52	
			<i>For Vinyl Coated, Add</i>	1,553.22	
32 31	13 13-0617	EA	30' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	10,558.48	2,019.44
			<i>For 1" Mesh Fabric, Add</i>	2,836.02	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,825.48	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1,134.41	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-567.20	
			<i>For Gate With Barb Wire Arm, Add</i>	717.15	
			<i>For Vinyl Coated, Add</i>	1,955.87	
32 31	13 13-0618	EA	40' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	14,074.76	2,691.03
			<i>For 1" Mesh Fabric, Add</i>	3,781.36	
			<i>For 1-1/4" Mesh Fabric, Add</i>	2,433.98	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1,512.55	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-756.27	
			<i>For Gate With Barb Wire Arm, Add</i>	956.21	
			<i>For Vinyl Coated, Add</i>	2,607.84	

32 31 13 13-0619 Sliding Cantilever Gate, Single Track, Manually Operated Exposed Roller⁽³²⁾

^{31 13 13-0265)}

Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper rail, track brackets, roller gate wheel carrier, metal track rollers for rail, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, single track, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate. See CSI section 32 31 11 00-0020 for gate operators.

32 31	13 13-0620	EA	5' High x 10' Wide Galvanized Cantilever Sliding Gate.....	5,127.85	448.32
			<i>For 1" Mesh Fabric, Add</i>	1,840.58	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,184.74	
			<i>For 1-3/4" Mesh Fabric, Add</i>	736.23	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-368.12	
			<i>For Gate With Single Barb Wire Arm, Add</i>	465.43	
			<i>For Gate With Double Barb Wire Arm, Add</i>	677.00	
			<i>For Aluminized Steel Gate And Post, Add</i>	2,030.99	
			<i>For Powder Coated Gate And Post, Add</i>	888.56	
			<i>For Vinyl Coated, Add</i>	1,269.37	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0621	EA	5' High x 12' Wide Galvanized Cantilever Sliding Gate.....	5,640.05	560.40
			<i>For 1" Mesh Fabric, Add</i>	1,965.87	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,265.39	
			<i>For 1-3/4" Mesh Fabric, Add</i>	786.35	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-393.17	
			<i>For Gate With Single Barb Wire Arm, Add</i>	497.12	
			<i>For Gate With Double Barb Wire Arm, Add</i>	723.08	
			<i>For Aluminized Steel Gate And Post, Add</i>	2,169.24	
			<i>For Powder Coated Gate And Post, Add</i>	949.04	
			<i>For Vinyl Coated, Add</i>	1,355.78	
32 31	13 13-0622	EA	5' High x 15' Wide Galvanized Cantilever Sliding Gate.....	6,156.20	672.47
			<i>For 1" Mesh Fabric, Add</i>	2,092.89	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,347.15	
			<i>For 1-3/4" Mesh Fabric, Add</i>	837.16	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-418.58	
			<i>For Gate With Single Barb Wire Arm, Add</i>	529.24	
			<i>For Gate With Double Barb Wire Arm, Add</i>	769.80	
			<i>For Aluminized Steel Gate And Post, Add</i>	2,309.40	
			<i>For Powder Coated Gate And Post, Add</i>	1,010.36	
			<i>For Vinyl Coated, Add</i>	1,443.37	
32 31	13 13-0623	EA	5' High x 20' Wide Galvanized Cantilever Sliding Gate.....	7,246.01	896.63
			<i>For 1" Mesh Fabric, Add</i>	2,371.94	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,526.77	
			<i>For 1-3/4" Mesh Fabric, Add</i>	948.78	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-474.39	
			<i>For Gate With Single Barb Wire Arm, Add</i>	599.80	
			<i>For Gate With Double Barb Wire Arm, Add</i>	872.44	
			<i>For Aluminized Steel Gate And Post, Add</i>	2,617.32	
			<i>For Powder Coated Gate And Post, Add</i>	1,145.08	
			<i>For Vinyl Coated, Add</i>	1,635.82	
32 31	13 13-0624	EA	6' High x 15' Wide Galvanized Cantilever Sliding Gate.....	6,748.28	896.63
			<i>For 1" Mesh Fabric, Add</i>	2,155.43	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,387.40	
			<i>For 1-3/4" Mesh Fabric, Add</i>	862.17	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-431.09	
			<i>For Gate With Single Barb Wire Arm, Add</i>	545.05	
			<i>For Gate With Double Barb Wire Arm, Add</i>	792.80	
			<i>For Aluminized Steel Gate And Post, Add</i>	2,378.40	
			<i>For Powder Coated Gate And Post, Add</i>	1,040.55	
			<i>For Vinyl Coated, Add</i>	1,486.50	
32 31	13 13-0625	EA	6' High x 20' Wide Galvanized Cantilever Sliding Gate.....	7,934.00	1,176.84
			<i>For 1" Mesh Fabric, Add</i>	2,427.44	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,562.49	
			<i>For 1-3/4" Mesh Fabric, Add</i>	970.98	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-485.49	
			<i>For Gate With Single Barb Wire Arm, Add</i>	613.84	
			<i>For Gate With Double Barb Wire Arm, Add</i>	892.85	
			<i>For Aluminized Steel Gate And Post, Add</i>	2,678.56	
			<i>For Powder Coated Gate And Post, Add</i>	1,171.87	
			<i>For Vinyl Coated, Add</i>	1,674.10	
32 31	13 13-0626	EA	6' High x 25' Wide Galvanized Cantilever Sliding Gate.....	10,498.53	1,457.03
			<i>For 1" Mesh Fabric, Add</i>	3,299.24	
			<i>For 1-1/4" Mesh Fabric, Add</i>	2,123.65	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1,319.70	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-659.85	
			<i>For Gate With Single Barb Wire Arm, Add</i>	834.29	
			<i>For Gate With Double Barb Wire Arm, Add</i>	1,213.51	
			<i>For Aluminized Steel Gate And Post, Add</i>	3,640.54	
			<i>For Powder Coated Gate And Post, Add</i>	1,592.74	
			<i>For Vinyl Coated, Add</i>	2,275.34	
32 31	13 13-0627	EA	6' High x 30' Wide Galvanized Cantilever Sliding Gate.....	11,844.86	1,737.24
			<i>For 1" Mesh Fabric, Add</i>	3,641.12	
			<i>For 1-1/4" Mesh Fabric, Add</i>	2,343.71	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1,456.45	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-728.22	
			<i>For Gate With Single Barb Wire Arm, Add</i>	920.74	
			<i>For Gate With Double Barb Wire Arm, Add</i>	1,339.26	
			<i>For Aluminized Steel Gate And Post, Add</i>	4,017.79	
			<i>For Powder Coated Gate And Post, Add</i>	1,757.78	
			<i>For Vinyl Coated, Add</i>	2,511.12	
32 31	13 13-0628	EA	8' High x 15' Wide Galvanized Cantilever Sliding Gate.....	7,910.65	1,120.80
			<i>For 1" Mesh Fabric, Add</i>	2,466.04	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,587.34	
			<i>For 1-3/4" Mesh Fabric, Add</i>	986.42	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-493.21	
			<i>For Gate With Single Barb Wire Arm, Add</i>	623.60	
			<i>For Gate With Double Barb Wire Arm, Add</i>	907.05	
			<i>For Aluminized Steel Gate And Post, Add</i>	2,721.15	
			<i>For Powder Coated Gate And Post, Add</i>	1,190.50	
			<i>For Vinyl Coated, Add</i>	1,700.72	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0629 EA 8' High x 20' Wide Galvanized Cantilever Sliding Gate.....	9,409.58	1,513.07
For 1" Mesh Fabric, Add	2,776.79	
For 1-1/4" Mesh Fabric, Add	1,787.36	
For 1-3/4" Mesh Fabric, Add	1,110.72	
For 2-1/8" Mesh Fabric, Deduct	-555.36	
For Gate With Single Barb Wire Arm, Add	702.18	
For Gate With Double Barb Wire Arm, Add	1,021.35	
For Aluminized Steel Gate And Post, Add	3,064.05	
For Powder Coated Gate And Post, Add	1,340.52	
For Vinyl Coated, Add	1,915.03	
32 31 13 13-0630 EA 8' High x 25' Wide Galvanized Cantilever Sliding Gate.....	12,486.65	1,905.35
For 1" Mesh Fabric, Add	3,774.04	
For 1-1/4" Mesh Fabric, Add	2,429.27	
For 1-3/4" Mesh Fabric, Add	1,509.62	
For 2-1/8" Mesh Fabric, Deduct	-754.81	
For Gate With Single Barb Wire Arm, Add	954.35	
For Gate With Double Barb Wire Arm, Add	1,388.15	
For Aluminized Steel Gate And Post, Add	4,164.46	
For Powder Coated Gate And Post, Add	1,821.95	
For Vinyl Coated, Add	2,602.79	
32 31 13 13-0631 EA 8' High x 30' Wide Galvanized Cantilever Sliding Gate.....	14,057.08	2,241.59
For 1" Mesh Fabric, Add	4,164.65	
For 1-1/4" Mesh Fabric, Add	2,680.69	
For 1-3/4" Mesh Fabric, Add	1,665.86	
For 2-1/8" Mesh Fabric, Deduct	-832.93	
For Gate With Single Barb Wire Arm, Add	1,053.13	
For Gate With Double Barb Wire Arm, Add	1,531.82	
For Aluminized Steel Gate And Post, Add	4,595.47	
For Powder Coated Gate And Post, Add	2,010.52	
For Vinyl Coated, Add	2,872.17	
32 31 13 13-0632 Gate Accessories (32 31 13 13-0265)		
32 31 13 13-0633 EA Gate Center Stop, Cast Steel, Ground	38.90	
32 31 13 13-0634 EA Gate Latch, Malleable Galvanized Steel.....	47.21	
32 31 13 13-0635 EA Gate Keeper, Full Length, Galvanized Steel.....	218.47	
32 31 13 13-0636 EA Gate Keeper Hold-Open For Cantilever Gate.....	105.40	17.67
32 31 13 13-0637 EA Heavy Duty Gate Latch, Malleable Galvanized Steel	58.53	
32 31 13 13-0638 EA Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 3' To 5' High Gate.....	821.53	
32 31 13 13-0639 EA Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 6' To 8' High Gate	881.18	
32 31 13 13-0640 EA Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 10' To 12' High Gate	940.83	
32 31 13 13-0641 LF Aluminum V-Groove Gate Track.....	55.71	9.67
32 31 13 13-0642 LF Galvanized Steel V-Groove Gate Track.....	42.83	9.67
32 31 13 13-0643 Vertical-Pivot Lift Gate (32 31 13 13-0265)		
Note: Includes 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes operator. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate.		
32 31 13 13-0644 EA 5' High x 12' Wide Galvanized Vertical-Pivot Lift Gate.....	19,618.56	840.59
For Curb Notch, Add	239.00	
For Prewired Loop Kit, Add	245.00	
32 31 13 13-0645 EA 5' High x 14' Wide Galvanized Vertical-Pivot Lift Gate.....	19,954.80	1,008.72
For Curb Notch, Add	239.00	
For Prewired Loop Kit, Add	245.00	
32 31 13 13-0646 EA 5' High x 16' Wide Galvanized Vertical-Pivot Lift Gate.....	20,291.04	1,176.84
For Curb Notch, Add	239.00	
For Prewired Loop Kit, Add	245.00	
For Wind Bracing, Add	287.50	
32 31 13 13-0647 EA 5' High x 18' Wide Galvanized Vertical-Pivot Lift Gate.....	20,852.19	1,344.96
For Curb Notch, Add	239.00	
For Prewired Loop Kit, Add	245.00	
For Wind Bracing, Add	317.50	
32 31 13 13-0648 EA 5' High x 20' Wide Galvanized Vertical-Pivot Lift Gate.....	21,402.11	1,513.07
For Curb Notch, Add	239.00	
For Prewired Loop Kit, Add	245.00	
For Wind Bracing, Add	317.50	
32 31 13 13-0649 EA 6' High x 12' Wide Galvanized Vertical-Pivot Lift Gate.....	20,561.51	1,092.77
For Curb Notch, Add	239.00	
For Prewired Loop Kit, Add	245.00	
32 31 13 13-0650 EA 6' High x 14' Wide Galvanized Vertical-Pivot Lift Gate.....	20,897.74	1,260.89
For Curb Notch, Add	239.00	
For Prewired Loop Kit, Add	245.00	
32 31 13 13-0651 EA 6' High x 16' Wide Galvanized Vertical-Pivot Lift Gate.....	21,233.99	1,429.01
For Curb Notch, Add	239.00	
For Prewired Loop Kit, Add	245.00	
For Wind Bracing, Add	287.50	
32 31 13 13-0652 EA 6' High x 18' Wide Galvanized Vertical-Pivot Lift Gate.....	21,693.94	1,597.13
For Curb Notch, Add	239.00	
For Prewired Loop Kit, Add	245.00	
For Wind Bracing, Add	317.50	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0653 EA 6' High x 20' Wide Galvanized Vertical-Pivot Lift Gate.....	22,345.06	1,765.25
For Curb Notch, Add	239.00	
For Prewired Loop Kit, Add	245.00	
For Wind Bracing, Add	317.50	
32 31 13 13-0654 Reinforced Gate <small>(32 31 13 13-0265)</small>		
Note: With cross bracing, tension rods, gate keeper (full height, stainless steel rod, internal locking device, gate stop), off-set hinges, and 6 gauge fabric. Excludes gate posts.		
32 31 13 13-0655 LF Reinforced Single Gate, 4' High, Galvanized.....	568.00	11.17
For Vinyl Coated, Add	327.40	
For Powder Coated, Add	436.54	
For Aluminum Coated, Add	682.09	
32 31 13 13-0656 LF Reinforced Single Gate, 5' High, Galvanized.....	609.44	12.09
For Vinyl Coated, Add	351.15	
For Powder Coated, Add	468.20	
For Aluminum Coated, Add	731.56	
32 31 13 13-0657 LF Reinforced Single Gate, 6' High, Galvanized.....	650.41	13.49
For Vinyl Coated, Add	374.06	
For Powder Coated, Add	498.74	
For Aluminum Coated, Add	779.29	
32 31 13 13-0658 LF Reinforced Single Gate, 7' High, Galvanized.....	689.12	14.42
For Vinyl Coated, Add	396.17	
For Powder Coated, Add	528.22	
For Aluminum Coated, Add	825.35	
32 31 13 13-0659 LF Reinforced Single Gate, 8' High, Galvanized.....	729.02	16.29
For Vinyl Coated, Add	417.88	
For Powder Coated, Add	557.17	
For Aluminum Coated, Add	870.58	
32 31 13 13-0660 LF Reinforced Double Gate, 4' High, Galvanized.....	387.83	11.17
For Vinyl Coated, Add	219.30	
For Powder Coated, Add	292.40	
For Aluminum Coated, Add	456.88	
32 31 13 13-0661 LF Reinforced Double Gate, 5' High, Galvanized.....	435.41	12.09
For Vinyl Coated, Add	246.73	
For Powder Coated, Add	328.98	
For Aluminum Coated, Add	514.03	
32 31 13 13-0662 LF Reinforced Double Gate, 6' High, Galvanized.....	482.28	13.49
For Vinyl Coated, Add	273.18	
For Powder Coated, Add	364.24	
For Aluminum Coated, Add	569.13	
32 31 13 13-0663 LF Reinforced Double Gate, 7' High, Galvanized.....	619.45	14.42
For Vinyl Coated, Add	354.37	
For Powder Coated, Add	472.49	
For Aluminum Coated, Add	738.26	
32 31 13 13-0664 LF Reinforced Double Gate, 8' High, Galvanized.....	755.21	16.29
For Vinyl Coated, Add	433.59	
For Powder Coated, Add	578.12	
For Aluminum Coated, Add	903.31	
32 31 13 13-0665 Accessories <small>(32 31 13 13)</small>		
32 31 13 13-0666 Barbed And Concertina Wire <small>(32 31 13 13-0665)</small>		
32 31 13 13-0667 Single Strand Barbed Wire <small>(32 31 13 13-0666)</small>		
32 31 13 13-0668 LF Galvanized Barbed Wire, Per Strand.....	1.02	0.47
Note: Includes clips. 4 points 12-1/2 Gauge, Class I.		
For >500 To 2,000, Deduct	-0.10	
For >2,000, Deduct	-0.15	
32 31 13 13-0669 LF Vinyl Coated Barbed Wire (Fused), Per Strand.....	1.17	0.47
Note: Includes clips.		
For >500 To 2,000, Deduct	-0.11	
For >2,000, Deduct	-0.16	
32 31 13 13-0670 EA Barbed Wire Extension Arms 3 Strands (Single Arm).....	11.44	7.44
32 31 13 13-0671 EA Barbed Wire Extension Arms 6 Strands (Double Arm).....	18.79	8.94
32 31 13 13-0672 EA Barbed Wire Eye Tops (For Single Strand).....	11.61	7.44
32 31 13 13-0673 Galvanized Steel Concertina (Razor) Wire, Single Coil <small>(32 31 13 13-0666)</small>		
32 31 13 13-0674 LF 18" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	3.87	0.65
For >500 To 1,500, Deduct	-0.34	
For >1,500 To 5,000, Deduct	-0.67	
For >5,000, Deduct	-0.96	
For Ground Installation, Deduct	-0.47	
For Double Coil (Helix), Add	2.94	
32 31 13 13-0675 LF 18" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	5.84	0.65
For >500 To 1,500, Deduct	-0.51	
For >1,500 To 5,000, Deduct	-1.02	
For >5,000, Deduct	-1.45	
For Ground Installation, Deduct	-0.70	
For Double Coil (Helix), Add	4.45	



		Exterior Improvements	32
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0676 LF 18" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	7.74	0.65
For >500 To 1,500, Deduct	-0.67	
For >1,500 To 5,000, Deduct	-1.35	
For >5,000, Deduct	-1.92	
For Ground Installation, Deduct	-0.93	
For Double Coil (Helix), Add	5.88	
32 31 13 13-0677 LF 24" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	6.35	0.65
For >500 To 1,500, Deduct	-0.53	
For >1,500 To 5,000, Deduct	-1.06	
For >5,000, Deduct	-1.48	
For Ground Installation, Deduct	-0.52	
For Double Coil (Helix), Add	5.32	
32 31 13 13-0678 LF 24" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	9.59	0.65
For >500 To 1,500, Deduct	-0.80	
For >1,500 To 5,000, Deduct	-1.59	
For >5,000, Deduct	-2.23	
For Ground Installation, Deduct	-0.78	
For Double Coil (Helix), Add	8.04	
32 31 13 13-0679 LF 24" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	12.68	0.65
For >500 To 1,500, Deduct	-1.05	
For >1,500 To 5,000, Deduct	-2.11	
For >5,000, Deduct	-2.95	
For Ground Installation, Deduct	-1.03	
For Double Coil (Helix), Add	10.63	
32 31 13 13-0680 LF 30" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	19.14	0.65
For >500 To 1,500, Deduct	-1.49	
For >1,500 To 5,000, Deduct	-2.99	
For >5,000, Deduct	-4.06	
For Ground Installation, Deduct	-0.58	
For Double Coil (Helix), Add	17.98	
32 31 13 13-0681 LF 30" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	28.96	0.65
For >500 To 1,500, Deduct	-2.26	
For >1,500 To 5,000, Deduct	-4.52	
For >5,000, Deduct	-6.14	
For Ground Installation, Deduct	-0.87	
For Double Coil (Helix), Add	27.22	
32 31 13 13-0682 LF 30" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	38.27	0.65
For >500 To 1,500, Deduct	-2.99	
For >1,500 To 5,000, Deduct	-5.97	
For >5,000, Deduct	-8.12	
For Ground Installation, Deduct	-1.16	
For Double Coil (Helix), Add	35.95	
32 31 13 13-0683 Stainless Steel Concertina (Razor) Wire, Single Coil <small>(22 31 13 13-0666)</small>		
32 31 13 13-0684 LF 18" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	6.76	0.65
For >500 To 1,500, Deduct	-0.55	
For >1,500 To 5,000, Deduct	-1.11	
For >5,000, Deduct	-1.54	
For Ground Installation, Deduct	-0.47	
For Double Coil (Helix), Add	5.83	
32 31 13 13-0685 LF 18" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	10.21	0.65
For >500 To 1,500, Deduct	-0.84	
For >1,500 To 5,000, Deduct	-1.67	
For >5,000, Deduct	-2.32	
For Ground Installation, Deduct	-0.70	
For Double Coil (Helix), Add	8.82	
32 31 13 13-0686 LF 18" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	13.51	0.65
For >500 To 1,500, Deduct	-1.11	
For >1,500 To 5,000, Deduct	-2.21	
For >5,000, Deduct	-3.07	
For Ground Installation, Deduct	-0.93	
For Double Coil (Helix), Add	11.65	
32 31 13 13-0687 LF 24" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	8.80	0.65
For >500 To 1,500, Deduct	-0.71	
For >1,500 To 5,000, Deduct	-1.42	
For >5,000, Deduct	-1.97	
For Ground Installation, Deduct	-0.52	
For Double Coil (Helix), Add	7.77	
32 31 13 13-0688 LF 24" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	13.30	0.65
For >500 To 1,500, Deduct	-1.08	
For >1,500 To 5,000, Deduct	-2.15	
For >5,000, Deduct	-2.97	
For Ground Installation, Deduct	-0.78	
For Double Coil (Helix), Add	11.75	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0689	LF		24" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	17.58	0.65
			<i>For >500 To 1,500, Deduct</i>	-1.42	
			<i>For >1,500 To 5,000, Deduct</i>	-2.84	
			<i>For >5,000, Deduct</i>	-3.93	
			<i>For Ground Installation, Deduct</i>	-1.03	
			<i>For Double Coil (Helix), Add</i>	15.53	
32 31 13 13-0690	LF		30" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	28.41	0.65
			<i>For >500 To 1,500, Deduct</i>	-2.19	
			<i>For >1,500 To 5,000, Deduct</i>	-4.38	
			<i>For >5,000, Deduct</i>	-5.92	
			<i>For Ground Installation, Deduct</i>	-0.58	
			<i>For Double Coil (Helix), Add</i>	27.25	
32 31 13 13-0691	LF		30" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	43.00	0.65
			<i>For >500 To 1,500, Deduct</i>	-3.31	
			<i>For >1,500 To 5,000, Deduct</i>	-6.62	
			<i>For >5,000, Deduct</i>	-8.95	
			<i>For Ground Installation, Deduct</i>	-0.87	
			<i>For Double Coil (Helix), Add</i>	41.26	
32 31 13 13-0692	LF		30" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	56.81	0.65
			<i>For >500 To 1,500, Deduct</i>	-4.38	
			<i>For >1,500 To 5,000, Deduct</i>	-8.75	
			<i>For >5,000, Deduct</i>	-11.83	
			<i>For Ground Installation, Deduct</i>	-1.16	
			<i>For Double Coil (Helix), Add</i>	54.49	
32 31 13 13-0693			Grounding For Gates (32 31 13 13-0665) Note: Includes two of each of the following per opening: 5/8 ground rods, clamps, braided straps and #6 bare copper wire.		
32 31 13 13-0694	OPN		Grounding For Gates (Per Opening).....	429.14	
32 31 13 13-0695			Coiled Spring Reinforcing Wire (32 31 13 13-0665)		
32 31 13 13-0696			Galvanized Steel (32 31 13 13-0695)		
32 31 13 13-0697	LF		7 Gauge, Galvanized Steel, Reinforcing Wire Coiled Spring.....	1.14	0.47
32 31 13 13-0698			Vinyl Coated Steel (32 31 13 13-0695)		
32 31 13 13-0699	LF		9 Gauge, Vinyl Coated Steel, Reinforcing Wire Coiled Spring.....	1.14	0.47
32 31 13 13-0700			Bending Of Fabric Around Pipe Railings (32 31 13 13-0665) Note: Only where specified.		
32 31 13 13-0701	LF		Bend Chain Link Fence Fabric Around Pipe Railing, Top.....	1.42	
32 31 13 13-0702	LF		Bend Chain Link Fence Fabric Around Pipe Railing, Bottom.....	1.23	
32 31 13 13-0703			Mounting Plate With Anchors Or Bolts (32 31 13 13-0665) Note: For drilling for anchor or bolts, installing post on or against flat surface.		
32 31 13 13-0704	EA		Mounting Plate For 1-5/8" Diameter Post.....	42.34	
32 31 13 13-0705	EA		Mounting Plate For 2" Diameter Post.....	43.06	
32 31 13 13-0706	EA		Mounting Plate For 2-1/2" Diameter Post.....	44.24	
32 31 13 13-0707	EA		Mounting Plate For 3" Diameter Post.....	53.49	
32 31 13 13-0708	EA		Mounting Plate For 4" Diameter Post.....	61.63	
32 31 13 13-0709	EA		Mounting Plate For 6-5/8" Diameter Post.....	71.57	
32 31 13 13-0710	EA		Mounting Plate For 8-5/8" Diameter Post.....	84.54	
32 31 13 13-0711			Tension Bar (32 31 13 13-0665)		
32 31 13 13-0712	EA		3' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	15.08	
32 31 13 13-0713	EA		3-1/2' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	16.06	
32 31 13 13-0714	EA		4' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	19.93	
32 31 13 13-0715	EA		5' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	23.14	
32 31 13 13-0716	EA		6' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	27.42	
32 31 13 13-0717	EA		7' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	31.91	
32 31 13 13-0718	EA		8' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	36.09	
32 31 13 13-0719	EA		9' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	43.44	
32 31 13 13-0720	EA		10' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	52.01	
32 31 13 13-0721			Truss Rods (32 31 13 13-0665)		
32 31 13 13-0722	LF		3/8" Diameter Truss Rods.....	2.01	0.50
32 31 13 13-0723			Fence And Gate Repair And Replacement (32 31 13 13)		
32 31 13 13-0724			Fence And Gate Parts Replacement (32 31 13 13-0723)		
32 31 13 13-0725	EA		Cantilever Roller Assembly, Ball Bearing With Fittings, Replacement.....	126.84	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0726 EA Sliding Gate Roller Assembly Replacement	122.58	
32 31 13 13-0727 EA Rod And Lock Gate Keeper Replacement	127.29	
32 31 13 13-0728 EA Galvanized Gate Holdback Replacement	26.40	
32 31 13 13-0729 LF 3/8" Cross Bracing Rod Replacement	1.60	
32 31 13 13-0730 LF 1-5/8" Diagonal Pipe Bracing Replacement	2.52	
32 31 13 13-0731 EA 2-3/8" To 2-1/2" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	26.38	
32 31 13 13-0732 EA 2-7/8" To 3" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	30.01	
32 31 13 13-0733 EA 3-1/2" To 4" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	33.79	
32 31 13 13-0734 EA 6-1/2" To 6-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	50.47	
32 31 13 13-0735 EA 8-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	103.00	
32 31 13 13-0736 EA 2-1/2" x 2" Off Set Gate Hinge Replacement	25.49	
32 31 13 13-0737 EA 3" x 2" Off Set Gate Hinge Replacement	26.57	
32 31 13 13-0738 EA 4" x 2" Off Set Gate Hinge Replacement	28.32	
32 31 13 13-0739 EA 6-5/8" x 2" Off Set Gate Hinge Replacement	47.69	
32 31 13 13-0740 EA 8-5/8" x 2" Off Set Gate Hinge Replacement	76.51	
32 31 13 13-0741 EA 1-5/8" Aluminum Die-Cast Post Cap Replacement	4.93	
32 31 13 13-0742 EA 2" Aluminum Die-Cast Post Cap Replacement	5.40	
32 31 13 13-0743 EA 2-1/2" Aluminum Die-Cast Post Cap Replacement	6.22	
32 31 13 13-0744 EA 3" Aluminum Die-Cast Post Cap Replacement	7.18	
32 31 13 13-0745 EA 2" Galvanized Post Cap Replacement	6.00	
32 31 13 13-0746 EA 2-1/2" Galvanized Post Cap Replacement	6.48	
32 31 13 13-0747 EA 3" Galvanized Post Cap Replacement	7.47	
32 31 13 13-0748 EA 4" Galvanized Post Cap Replacement	11.45	
32 31 13 13-0749 EA 6-5/8" Galvanized Post Cap Replacement	22.56	
32 31 13 13-0750 EA 8-5/8" Galvanized Post Cap Replacement	37.52	
32 31 13 13-0751 EA 1-5/8" Boulevard Clamp Replacement	9.86	
32 31 13 13-0752 EA 2" Boulevard Clamp Replacement	12.06	
32 31 13 13-0753 EA 2-1/2" Boulevard Clamp Replacement	14.14	
32 31 13 13-0754 EA 3" Boulevard Clamp Replacement	17.15	
32 31 13 13-0755 EA 1-5/8" Gate Brace Or End Rail Clamp Replacement	9.64	
32 31 13 13-0756 EA 2" Gate Brace Or End Rail Clamp Replacement	11.75	
32 31 13 13-0757 EA 2-1/2" Gate Brace Or End Rail Clamp Replacement	13.83	
32 31 13 13-0758 EA 3" Gate Brace Or End Rail Clamp Replacement	16.82	
32 31 13 13-0759 EA 1-3/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement	10.27	
32 31 13 13-0760 EA 1-5/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement	10.37	
32 31 13 13-0761 EA 2" Heavy Duty Galvanized Tension Band With Bolt, Replacement	10.64	
32 31 13 13-0762 EA 2-1/2" Heavy Duty Galvanized Tension Band With Bolt, Replacement	10.52	
32 31 13 13-0763 EA 3" Heavy Duty Galvanized Tension Band With Bolt, Replacement	10.72	
32 31 13 13-0764 EA 3-1/2" Heavy Duty Galvanized Tension Band With Bolt, Replacement	10.89	
32 31 13 13-0765 EA 4" Heavy Duty Galvanized Tension Band With Bolt, Replacement	11.37	
32 31 13 13-0766 EA 6-5/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement	14.85	
32 31 13 13-0767 Removal And Reinstallation Of Chain Link Fences <small>(32 31 13 13)</small>		
<small>Note: Includes removal, storage, cleaning and reinstallation of fence fabric, rails and other components. Excludes post work.</small>		
32 31 13 13-0768 LF Removal And Reinstallation Of Chain Link Fence Up To 5' Height	18.61	
32 31 13 13-0769 LF Removal And Reinstallation Of Chain Link Fence 6' To 12' Height	27.91	
32 31 13 33 Chain Link Backstops <small>(32 31 13)</small>		
32 31 13 33-0001 Regulation Baseball Backstop <small>(32 31 13 33)</small>		
<small>See CSI section 32 31 13 13-0001 for auguring holes and concrete.</small>		
32 31 13 33-0002 EA 20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Galvanized	12,715.88	1,794.55
32 31 13 33-0003 EA 34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Galvanized	18,436.01	2,392.73
32 31 13 33-0004 EA 48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Galvanized	23,618.68	2,791.52
32 31 13 33-0005 EA 20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Vinyl Coated	18,194.09	1,794.55
32 31 13 33-0006 EA 34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Vinyl Coated	26,633.14	2,392.73
32 31 13 33-0007 EA 48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Vinyl Coated	34,436.08	2,791.52
32 31 13 33-0008 Regulation Softball Backstop <small>(32 31 13 33)</small>		
<small>See CSI section 32 31 13 13-0001 for auguring holes and concrete.</small>		
32 31 13 33-0009 14' High Softball Backstop <small>(32 31 13 33-0008)</small>		
<small>Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.</small>		
32 31 13 33-0010 EA 14' Softball Backstop, Galvanized Regulation	10,880.01	1,949.17
32 31 13 33-0011 EA 14' Softball Backstop, Vinyl Coated Regulation	14,809.07	1,949.17
32 31 13 33-0012 18' High Softball Backstop <small>(32 31 13 33-0008)</small>		
<small>Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.</small>		
32 31 13 33-0013 EA 18' Softball Backstop, Galvanized Regulation	12,736.94	2,166.95
32 31 13 33-0014 EA 18' Softball Backstop Vinyl Coated Regulation	17,489.83	2,166.95
32 31 13 33-0015 20' High Softball Backstop <small>(32 31 13 33-0008)</small>		
<small>Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.</small>		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 33-0016 EA 20' Softball Backstop, Galvanized Regulation.....	14,477.38	2,284.74
32 31 13 33-0017 EA 20' Softball Backstop, Vinyl Coated Regulation.....	20,117.54	2,284.74
32 31 13 33-0018 22' High Softball Backstop <small>(32 31 13 33-0008)</small> Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0019 EA 22' Softball Backstop, Galvanized Regulation.....	16,735.49	2,353.67
32 31 13 33-0020 EA 22' Softball Backstop, Vinyl Coated Regulation.....	23,516.28	2,353.67
32 31 13 33-0021 24' High Softball Backstop <small>(32 31 13 33-0008)</small> Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0022 EA 24' Softball Backstop, Galvanized Regulation.....	19,993.30	2,689.90
32 31 13 33-0023 EA 24' Softball Backstop, Vinyl Coated Regulation.....	28,421.77	2,689.90
32 31 16 Welded Wire Fences and Gates <small>(32 31)</small>		
32 31 16 00-0001 Welded Wire Fence <small>(32 31 16)</small>		
32 31 16 00-0002 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh <small>(32 31 16 00-0001)</small> Note: Posts 5' on center.		
32 31 16 00-0003 LF 3' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'.....	9.08	1.60
32 31 16 00-0004 LF 5' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'.....	9.89	1.60
32 31 16 00-0005 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh <small>(32 31 16 00-0001)</small> Note: Posts 5' on center.		
32 31 16 00-0006 LF 3' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'.....	8.91	1.60
32 31 16 00-0007 LF 5' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'.....	9.63	1.60
32 31 19 Decorative Metal Fences and Gates <small>(32 31)</small> See CSI section 32 31 13 13-0001 for drilling and grouting.		
32 31 19 00-0001 Wrought Iron Fence <small>(32 31 19)</small> Note: Factory primed.		
32 31 19 00-0002 Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center <small>(32 31 19 00-0001)</small> Note: Factory primed.		
32 31 19 00-0003 LF 3' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center.....	49.20	10.24
For Verticals Up To 2" On Center, Add	5.75	
For Verticals >2" To 2-1/2" On Center, Add	2.87	
For Verticals >3" To 4" On Center, Deduct	-2.87	
For Verticals >4" To 6" On Center, Deduct	-5.75	
32 31 19 00-0004 LF 4' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center.....	63.23	13.02
For Verticals Up To 2" On Center, Add	7.62	
For Verticals >2" To 2-1/2" On Center, Add	3.81	
For Verticals >3" To 4" On Center, Deduct	-3.81	
For Verticals >4" To 6" On Center, Deduct	-7.62	
32 31 19 00-0005 LF 5' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center.....	75.38	13.59
For Verticals Up To 2" On Center, Add	9.61	
For Verticals >2" To 2-1/2" On Center, Add	4.80	
For Verticals >3" To 4" On Center, Deduct	-4.80	
For Verticals >4" To 6" On Center, Deduct	-9.61	
32 31 19 00-0006 LF 6' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center.....	91.29	16.37
For Verticals Up To 2" On Center, Add	11.69	
For Verticals >2" To 2-1/2" On Center, Add	5.85	
For Verticals >3" To 4" On Center, Deduct	-5.85	
For Verticals >4" To 6" On Center, Deduct	-11.69	
32 31 19 00-0007 LF 7' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center.....	107.32	17.33
For Verticals Up To 2" On Center, Add	14.53	
For Verticals >2" To 2-1/2" On Center, Add	7.27	
For Verticals >3" To 4" On Center, Deduct	-7.27	
For Verticals >4" To 6" On Center, Deduct	-14.53	
32 31 19 00-0008 LF 8' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center.....	123.34	18.24
For Verticals Up To 2" On Center, Add	17.37	
For Verticals >2" To 2-1/2" On Center, Add	8.69	
For Verticals >3" To 4" On Center, Deduct	-8.69	
For Verticals >4" To 6" On Center, Deduct	-17.37	
32 31 19 00-0009 LF 10' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center.....	150.36	20.47
For Verticals Up To 2" On Center, Add	21.89	
For Verticals >2" To 2-1/2" On Center, Add	10.94	
For Verticals >3" To 4" On Center, Deduct	-10.94	
For Verticals >4" To 6" On Center, Deduct	-21.89	
32 31 19 00-0010 LF 12' Wrought Iron Fence, Verticals At >2-1/2" To 3" On Center.....	177.91	23.26
For Verticals Up To 2" On Center, Add	26.28	
For Verticals >2" To 2-1/2" On Center, Add	13.14	
For Verticals >3" To 4" On Center, Deduct	-13.14	
For Verticals >4" To 6" On Center, Deduct	-26.28	
32 31 19 00-0011 Wrought Iron Gates <small>(32 31 19 00-0001)</small> Note: Factory primed.		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0012 Single Wrought Iron Gates <small>(32 31 19 00-0011)</small>		
Note: Factory primed.		
32 31 19 00-0013 LF 3' Single Wrought Iron Gate, Hardware And Associated Trim	60.69	12.47
32 31 19 00-0014 LF 4' Single Wrought Iron Gate, Hardware And Associated Trim	79.66	15.44
32 31 19 00-0015 LF 5' Single Wrought Iron Gate, Hardware And Associated Trim	97.45	18.61
32 31 19 00-0016 LF 6' Single Wrought Iron Gate, Hardware And Associated Trim	118.50	22.33
32 31 19 00-0017 LF 8' Single Wrought Iron Gate, Hardware And Associated Trim	159.80	24.75
32 31 19 00-0018 LF 10' Single Wrought Iron Gate, Hardware And Associated Trim	193.88	27.35
32 31 19 00-0019 LF 12' Single Wrought Iron Gate, Hardware And Associated Trim	227.31	31.07
 32 31 19 00-0020 Double Wrought Iron Gates <small>(32 31 19 00-0011)</small>		
Note: Factory primed.		
32 31 19 00-0021 LF 3' Double Wrought Iron Gate, Hardware And Associated Trim	74.28	11.17
32 31 19 00-0022 LF 4' Double Wrought Iron Gate, Hardware And Associated Trim	97.59	13.95
32 31 19 00-0023 LF 5' Double Wrought Iron Gate, Hardware And Associated Trim	118.93	16.74
32 31 19 00-0024 LF 6' Double Wrought Iron Gate, Hardware And Associated Trim	144.21	20.09
32 31 19 00-0025 LF 8' Double Wrought Iron Gate, Hardware And Associated Trim	195.36	22.33
32 31 19 00-0026 LF 10' Double Wrought Iron Gate, Hardware And Associated Trim	237.42	24.56
32 31 19 00-0027 LF 12' Double Wrought Iron Gate, Hardware And Associated Trim	278.82	27.91
 32 31 19 00-0028 Repair Or Replace Wrought Iron Fence <small>(32 31 19 00-0001)</small>		
32 31 19 00-0029 LF Removal And Replacement Of Wrought Iron Picket	18.65	
32 31 19 00-0030 LF Removal And Replacement Of Wrought Iron Post	27.99	
32 31 19 00-0031 EA Straigten Wrought Iron Post	74.43	
 32 31 19 00-0032 Steel Tube Fence, Powder Coated <small>(32 31 19)</small>		
Note: Pickets are 3/4" square x 16 gauge.		
32 31 19 00-0033 Steel Tube Fence, 2 Rail <small>(32 31 19 00-0032)</small>		
32 31 19 00-0034 LF 3' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	67.54	10.24
For Verticals Up To 2" On Center, Add		9.50
For Verticals >2" To 2-1/2" On Center, Add		4.75
For Verticals >3" To 4" On Center, Deduct		-4.75
For Verticals >4" To 6" On Center, Deduct		-9.50
For Solid Pickets, Add		13.69
For Aluminum With Satin Finish, Add		11.24
For Third Rail, Add		3.56
For 1" Square x 14 Gauge Pickets, Add		11.87
For 3" Square Posts, Add		4.75
32 31 19 00-0035 LF 3'-6" Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	72.26	10.94
For Verticals Up To 2" On Center, Add		10.07
For Verticals >2" To 2-1/2" On Center, Add		5.04
For Verticals >3" To 4" On Center, Deduct		-5.04
For Verticals >4" To 6" On Center, Deduct		-10.07
For Solid Pickets, Add		14.62
For Aluminum With Satin Finish, Add		11.83
For Third Rail, Add		3.78
For 1" Square x 14 Gauge Pickets, Add		12.59
For 3" Square Posts, Add		5.04
32 31 19 00-0036 LF 4' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	76.45	12.09
For Verticals Up To 2" On Center, Add		10.55
For Verticals >2" To 2-1/2" On Center, Add		5.27
For Verticals >3" To 4" On Center, Deduct		-5.27
For Verticals >4" To 6" On Center, Deduct		-10.55
For Solid Pickets, Add		15.42
For Aluminum With Satin Finish, Add		12.27
For Third Rail, Add		3.96
For 1" Square x 14 Gauge Pickets, Add		13.19
For 3" Square Posts, Add		5.27
32 31 19 00-0037 LF 5' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	81.41	13.59
For Verticals Up To 2" On Center, Add		10.81
For Verticals >2" To 2-1/2" On Center, Add		5.41
For Verticals >3" To 4" On Center, Deduct		-5.41
For Verticals >4" To 6" On Center, Deduct		-10.81
For Solid Pickets, Add		16.27
For Aluminum With Satin Finish, Add		12.12
For Third Rail, Add		4.05
For 1" Square x 14 Gauge Pickets, Add		13.52
For 3" Square Posts, Add		5.41
32 31 19 00-0038 LF 6' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts	94.42	15.35
For Verticals Up To 2" On Center, Add		12.74
For Verticals >2" To 2-1/2" On Center, Add		6.37
For Verticals >3" To 4" On Center, Deduct		-6.37
For Verticals >4" To 6" On Center, Deduct		-12.74
For Solid Pickets, Add		18.94
For Aluminum With Satin Finish, Add		14.51
For Third Rail, Add		4.78
For 1" Square x 14 Gauge Pickets, Add		15.93
For 3" Square Posts, Add		6.37

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0039	LF		7' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	108.13	16.74
			<i>For Verticals Up To 2" On Center, Add</i>	14.93	
			<i>For Verticals >2" To 2-1/2" On Center, Add</i>	7.46	
			<i>For Verticals >3" To 4" On Center, Deduct</i>	-7.46	
			<i>For Verticals >4" To 6" On Center, Deduct</i>	-14.93	
			<i>For Solid Pickets, Add</i>	21.82	
			<i>For Aluminum With Satin Finish, Add</i>	17.37	
			<i>For Third Rail, Add</i>	5.60	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	18.66	
			<i>For 4" Square Posts, Add</i>	26.12	
32 31 19 00-0040	LF		8' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	122.05	18.24
			<i>For Verticals Up To 2" On Center, Add</i>	17.12	
			<i>For Verticals >2" To 2-1/2" On Center, Add</i>	8.56	
			<i>For Verticals >3" To 4" On Center, Deduct</i>	-8.56	
			<i>For Verticals >4" To 6" On Center, Deduct</i>	-17.12	
			<i>For Solid Pickets, Add</i>	24.73	
			<i>For Aluminum With Satin Finish, Add</i>	20.20	
			<i>For Third Rail, Add</i>	6.42	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	21.40	
			<i>For 4" Square Posts, Add</i>	29.95	
32 31 19 00-0041	LF		9' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	141.98	19.54
			<i>For Verticals Up To 2" On Center, Add</i>	20.58	
			<i>For Verticals >2" To 2-1/2" On Center, Add</i>	10.29	
			<i>For Verticals >3" To 4" On Center, Deduct</i>	-10.29	
			<i>For Verticals >4" To 6" On Center, Deduct</i>	-20.58	
			<i>For Solid Pickets, Add</i>	29.01	
			<i>For Aluminum With Satin Finish, Add</i>	25.01	
			<i>For Third Rail, Add</i>	7.72	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	25.73	
			<i>For 4" Square Posts, Add</i>	36.02	
32 31 19 00-0042	LF		10' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	162.08	20.94
			<i>For Verticals Up To 2" On Center, Add</i>	24.04	
			<i>For Verticals >2" To 2-1/2" On Center, Add</i>	12.02	
			<i>For Verticals >3" To 4" On Center, Deduct</i>	-12.02	
			<i>For Verticals >4" To 6" On Center, Deduct</i>	-24.04	
			<i>For Solid Pickets, Add</i>	33.33	
			<i>For Aluminum With Satin Finish, Add</i>	29.79	
			<i>For Third Rail, Add</i>	9.02	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	30.06	
			<i>For 6" Square Posts, Add</i>	42.08	
32 31 19 00-0043	LF		12' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	190.99	23.26
			<i>For Verticals Up To 2" On Center, Add</i>	28.89	
			<i>For Verticals >2" To 2-1/2" On Center, Add</i>	14.45	
			<i>For Verticals >3" To 4" On Center, Deduct</i>	-14.45	
			<i>For Verticals >4" To 6" On Center, Deduct</i>	-28.89	
			<i>For Solid Pickets, Add</i>	39.48	
			<i>For Aluminum With Satin Finish, Add</i>	36.36	
			<i>For Third Rail, Add</i>	10.84	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	36.12	
			<i>For 6" Square Posts, Add</i>	50.56	
32 31 19 00-0044	LF		14' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	204.58	25.12
			<i>For Verticals Up To 2" On Center, Add</i>	30.87	
			<i>For Verticals >2" To 2-1/2" On Center, Add</i>	15.43	
			<i>For Verticals >3" To 4" On Center, Deduct</i>	-15.43	
			<i>For Verticals >4" To 6" On Center, Deduct</i>	-30.87	
			<i>For Solid Pickets, Add</i>	42.26	
			<i>For Aluminum With Satin Finish, Add</i>	38.77	
			<i>For Third Rail, Add</i>	11.58	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	38.59	
			<i>For 6" Square Posts, Add</i>	54.02	
32 31 19 00-0045			Steel Tube Swing Gates (32 31 19 00-0032)		
32 31 19 00-0046			3' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31 19 00-0047	EA		3' Wide x 3' High Steel Tube Single Swing Gate.....	777.25	19.82
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	170.42	
			<i>For Aluminum With Satin Finish, Add</i>	206.38	
			<i>For Third Rail, Add</i>	53.83	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	71.77	
32 31 19 00-0048	EA		3'-6" Wide x 3' High Steel Tube Single Swing Gate.....	865.62	20.75
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	190.09	
			<i>For Aluminum With Satin Finish, Add</i>	231.63	
			<i>For Third Rail, Add</i>	60.25	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	80.33	
32 31 19 00-0049	EA		4' Wide x 3' High Steel Tube Single Swing Gate.....	958.82	21.96
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	210.78	
			<i>For Aluminum With Satin Finish, Add</i>	257.92	
			<i>For Third Rail, Add</i>	66.96	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	89.28	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	19 00-0050	EA		5' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,008.20	23.54
				<i>For Solid Pickets, Add</i>	221.54	
				<i>For Aluminum With Satin Finish, Add</i>	270.64	
				<i>For Third Rail, Add</i>	70.31	
				<i>For 1" Square x 14 Gauge Pickets, Add</i>	93.75	
32 31	19 00-0051	EA		6' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,125.24	28.19
				<i>For Solid Pickets, Add</i>	246.83	
				<i>For Aluminum With Satin Finish, Add</i>	299.48	
				<i>For Third Rail, Add</i>	78.04	
				<i>For 1" Square x 14 Gauge Pickets, Add</i>	104.06	
32 31	19 00-0052	EA		7' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,195.60	32.84
				<i>For Solid Pickets, Add</i>	261.61	
				<i>For Aluminum With Satin Finish, Add</i>	314.30	
				<i>For Third Rail, Add</i>	82.27	
				<i>For 1" Square x 14 Gauge Pickets, Add</i>	109.70	
32 31	19 00-0053	EA		8' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,303.84	37.77
				<i>For Solid Pickets, Add</i>	284.85	
				<i>For Aluminum With Satin Finish, Add</i>	340.08	
				<i>For Third Rail, Add</i>	89.28	
				<i>For 1" Square x 14 Gauge Pickets, Add</i>	119.03	
32 31	19 00-0054	EA		9' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,397.54	42.42
				<i>For Solid Pickets, Add</i>	304.89	
				<i>For Aluminum With Satin Finish, Add</i>	361.91	
				<i>For Third Rail, Add</i>	95.26	
				<i>For 1" Square x 14 Gauge Pickets, Add</i>	127.01	
32 31	19 00-0055	EA		10' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,479.57	47.08
				<i>For Solid Pickets, Add</i>	322.30	
				<i>For Aluminum With Satin Finish, Add</i>	380.24	
				<i>For Third Rail, Add</i>	100.36	
				<i>For 1" Square x 14 Gauge Pickets, Add</i>	133.82	
32 31	19 00-0056	EA		6' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,626.27	39.63
				<i>For Solid Pickets, Add</i>	356.98	
				<i>For Aluminum With Satin Finish, Add</i>	434.29	
				<i>For Third Rail, Add</i>	113.04	
				<i>For 1" Square x 14 Gauge Pickets, Add</i>	150.72	
32 31	19 00-0057	EA		7' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,733.19	41.50
				<i>For Solid Pickets, Add</i>	380.62	
				<i>For Aluminum With Satin Finish, Add</i>	463.86	
				<i>For Third Rail, Add</i>	120.64	
				<i>For 1" Square x 14 Gauge Pickets, Add</i>	160.85	
32 31	19 00-0058	EA		8' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	1,917.62	44.01
				<i>For Solid Pickets, Add</i>	421.56	
				<i>For Aluminum With Satin Finish, Add</i>	515.84	
				<i>For Third Rail, Add</i>	133.91	
				<i>For 1" Square x 14 Gauge Pickets, Add</i>	178.55	
32 31	19 00-0059	EA		9' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,009.80	45.58
				<i>For Solid Pickets, Add</i>	441.95	
				<i>For Aluminum With Satin Finish, Add</i>	541.40	
				<i>For Third Rail, Add</i>	140.48	
				<i>For 1" Square x 14 Gauge Pickets, Add</i>	187.30	
32 31	19 00-0060	EA		10' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,084.47	47.08
				<i>For Solid Pickets, Add</i>	458.40	
				<i>For Aluminum With Satin Finish, Add</i>	561.71	
				<i>For Third Rail, Add</i>	145.73	
				<i>For 1" Square x 14 Gauge Pickets, Add</i>	194.31	
32 31	19 00-0061	EA		12' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,343.83	56.39
				<i>For Solid Pickets, Add</i>	514.66	
				<i>For Aluminum With Satin Finish, Add</i>	626.96	
				<i>For Third Rail, Add</i>	163.09	
				<i>For 1" Square x 14 Gauge Pickets, Add</i>	217.45	
32 31	19 00-0062	EA		14' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,566.25	65.69
				<i>For Solid Pickets, Add</i>	562.61	
				<i>For Aluminum With Satin Finish, Add</i>	681.12	
				<i>For Third Rail, Add</i>	177.68	
				<i>For 1" Square x 14 Gauge Pickets, Add</i>	236.90	
32 31	19 00-0063	EA		16' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,751.62	75.64
				<i>For Solid Pickets, Add</i>	602.09	
				<i>For Aluminum With Satin Finish, Add</i>	723.33	
				<i>For Third Rail, Add</i>	189.35	
				<i>For 1" Square x 14 Gauge Pickets, Add</i>	252.46	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	19 00-0064	EA	18' Wide x 3' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	2,905.96	84.85
			<i>For Solid Pickets, Add</i>	634.72	
			<i>For Aluminum With Satin Finish, Add</i>	757.07	
			<i>For Third Rail, Add</i>	198.83	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	265.10	
32 31	19 00-0065	EA	20' Wide x 3' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	3,031.12	94.15
			<i>For Solid Pickets, Add</i>	660.79	
			<i>For Aluminum With Satin Finish, Add</i>	782.06	
			<i>For Third Rail, Add</i>	206.12	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	274.83	
32 31	19 00-0066		4' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31	19 00-0067	EA	3' Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	899.15	18.61
			<i>For Solid Pickets, Add</i>	197.60	
			<i>For Aluminum With Satin Finish, Add</i>	241.49	
			<i>For Third Rail, Add</i>	62.73	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	83.64	
32 31	19 00-0068	EA	3'-6" Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	973.44	21.68
			<i>For Solid Pickets, Add</i>	214.14	
			<i>For Aluminum With Satin Finish, Add</i>	262.73	
			<i>For Third Rail, Add</i>	68.12	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	90.83	
32 31	19 00-0069	EA	4' Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,050.05	23.26
			<i>For Solid Pickets, Add</i>	231.03	
			<i>For Aluminum With Satin Finish, Add</i>	283.62	
			<i>For Third Rail, Add</i>	73.52	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	98.03	
32 31	19 00-0070	EA	5' Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,113.06	24.75
			<i>For Solid Pickets, Add</i>	244.86	
			<i>For Aluminum With Satin Finish, Add</i>	300.42	
			<i>For Third Rail, Add</i>	77.90	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	103.86	
32 31	19 00-0071	EA	6' Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,197.96	29.77
			<i>For Solid Pickets, Add</i>	262.84	
			<i>For Aluminum With Satin Finish, Add</i>	319.20	
			<i>For Third Rail, Add</i>	83.15	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	110.87	
32 31	19 00-0072	EA	7' Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,313.99	34.70
			<i>For Solid Pickets, Add</i>	287.83	
			<i>For Aluminum With Satin Finish, Add</i>	347.31	
			<i>For Third Rail, Add</i>	90.73	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	120.98	
32 31	19 00-0073	EA	8' Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,474.75	39.63
			<i>For Solid Pickets, Add</i>	322.89	
			<i>For Aluminum With Satin Finish, Add</i>	388.83	
			<i>For Third Rail, Add</i>	101.67	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	135.57	
32 31	19 00-0074	EA	9' Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,631.63	44.66
			<i>For Solid Pickets, Add</i>	357.07	
			<i>For Aluminum With Satin Finish, Add</i>	429.20	
			<i>For Third Rail, Add</i>	112.32	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	149.77	
32 31	19 00-0075	EA	10' Wide x 4' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,780.72	49.59
			<i>For Solid Pickets, Add</i>	389.50	
			<i>For Aluminum With Satin Finish, Add</i>	467.23	
			<i>For Third Rail, Add</i>	122.39	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	163.19	
32 31	19 00-0076	EA	6' Wide x 4' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	1,798.30	41.86
			<i>For Solid Pickets, Add</i>	395.20	
			<i>For Aluminum With Satin Finish, Add</i>	482.97	
			<i>For Third Rail, Add</i>	125.45	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	167.27	
32 31	19 00-0077	EA	7' Wide x 4' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	1,946.89	43.35
			<i>For Solid Pickets, Add</i>	428.28	
			<i>For Aluminum With Satin Finish, Add</i>	525.45	
			<i>For Third Rail, Add</i>	136.25	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	181.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0078 EA 8' Wide x 4' High Steel Tube Double Swing Gate.....	2,100.12	46.52
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	462.06	
<i>For Aluminum With Satin Finish, Add</i>	567.23	
<i>For Third Rail, Add</i>	147.04	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	196.06	
32 31 19 00-0079 EA 9' Wide x 4' High Steel Tube Double Swing Gate.....	2,221.47	48.00
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	489.02	
<i>For Aluminum With Satin Finish, Add</i>	601.55	
<i>For Third Rail, Add</i>	155.79	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	207.73	
32 31 19 00-0080 EA 10' Wide x 4' High Steel Tube Double Swing Gate.....	2,323.37	49.59
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	511.59	
<i>For Aluminum With Satin Finish, Add</i>	630.02	
<i>For Third Rail, Add</i>	163.09	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	217.45	
32 31 19 00-0081 EA 12' Wide x 4' High Steel Tube Double Swing Gate.....	2,635.17	59.45
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	579.52	
<i>For Aluminum With Satin Finish, Add</i>	710.17	
<i>For Third Rail, Add</i>	184.24	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	245.65	
32 31 19 00-0082 EA 14' Wide x 4' High Steel Tube Double Swing Gate.....	2,908.06	69.41
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	638.68	
<i>For Aluminum With Satin Finish, Add</i>	778.64	
<i>For Third Rail, Add</i>	202.47	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	269.97	
32 31 19 00-0083 EA 16' Wide x 4' High Steel Tube Double Swing Gate.....	3,144.01	79.27
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	689.54	
<i>For Aluminum With Satin Finish, Add</i>	836.02	
<i>For Third Rail, Add</i>	217.94	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	290.58	
32 31 19 00-0084 EA 18' Wide x 4' High Steel Tube Double Swing Gate.....	3,346.89	89.22
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	732.95	
<i>For Aluminum With Satin Finish, Add</i>	883.49	
<i>For Third Rail, Add</i>	230.92	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	307.89	
32 31 19 00-0085 EA 20' Wide x 4' High Steel Tube Double Swing Gate.....	3,518.64	99.18
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	769.37	
<i>For Aluminum With Satin Finish, Add</i>	921.62	
<i>For Third Rail, Add</i>	241.57	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	322.09	
32 31 19 00-0086 5' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31 19 00-0087 EA 3' Wide x 5' High Steel Tube Single Swing Gate.....	979.27	21.68
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	215.45	
<i>For Aluminum With Satin Finish, Add</i>	264.48	
<i>For Third Rail, Add</i>	68.56	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	91.42	
32 31 19 00-0088 EA 3'-6" Wide x 5' High Steel Tube Single Swing Gate.....	1,032.55	23.26
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	227.09	
<i>For Aluminum With Satin Finish, Add</i>	278.37	
<i>For Third Rail, Add</i>	72.21	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	96.28	
32 31 19 00-0089 EA 4' Wide x 5' High Steel Tube Single Swing Gate.....	1,083.89	24.75
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	238.29	
<i>For Aluminum With Satin Finish, Add</i>	291.67	
<i>For Third Rail, Add</i>	75.71	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	100.95	
32 31 19 00-0090 EA 5' Wide x 5' High Steel Tube Single Swing Gate.....	1,158.56	26.33
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	254.75	
<i>For Aluminum With Satin Finish, Add</i>	311.98	
<i>For Third Rail, Add</i>	80.96	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	107.95	
32 31 19 00-0091 EA 6' Wide x 5' High Steel Tube Single Swing Gate.....	1,258.01	31.63
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	275.93	
<i>For Aluminum With Satin Finish, Add</i>	334.70	
<i>For Third Rail, Add</i>	87.23	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	116.31	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	19 00-0092	EA	7' Wide x 5' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,390.53	36.85
			<i>For Solid Pickets, Add</i>	304.57	
			<i>For Aluminum With Satin Finish, Add</i>	367.34	
			<i>For Third Rail, Add</i>	95.99	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	127.98	
32 31	19 00-0093	EA	8' Wide x 5' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,576.48	42.42
			<i>For Solid Pickets, Add</i>	345.15	
			<i>For Aluminum With Satin Finish, Add</i>	415.59	
			<i>For Third Rail, Add</i>	108.68	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	144.90	
32 31	19 00-0094	EA	9' Wide x 5' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,757.63	47.73
			<i>For Solid Pickets, Add</i>	384.72	
			<i>For Aluminum With Satin Finish, Add</i>	462.81	
			<i>For Third Rail, Add</i>	121.08	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	161.44	
32 31	19 00-0095	EA	10' Wide x 5' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,934.88	52.93
			<i>For Solid Pickets, Add</i>	423.42	
			<i>For Aluminum With Satin Finish, Add</i>	508.87	
			<i>For Third Rail, Add</i>	133.18	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	177.58	
32 31	19 00-0096	EA	6' Wide x 5' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	1,932.69	36.57
			<i>For Solid Pickets, Add</i>	427.03	
			<i>For Aluminum With Satin Finish, Add</i>	532.83	
			<i>For Third Rail, Add</i>	137.12	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	182.83	
32 31	19 00-0097	EA	7' Wide x 5' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	2,045.39	42.61
			<i>For Solid Pickets, Add</i>	451.08	
			<i>For Aluminum With Satin Finish, Add</i>	558.81	
			<i>For Third Rail, Add</i>	144.27	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	192.36	
32 31	19 00-0098	EA	8' Wide x 5' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	2,159.11	49.04
			<i>For Solid Pickets, Add</i>	475.28	
			<i>For Aluminum With Satin Finish, Add</i>	584.64	
			<i>For Third Rail, Add</i>	151.42	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	201.89	
32 31	19 00-0099	EA	9' Wide x 5' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	2,316.56	55.18
			<i>For Solid Pickets, Add</i>	509.41	
			<i>For Aluminum With Satin Finish, Add</i>	624.04	
			<i>For Third Rail, Add</i>	161.92	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	215.90	
32 31	19 00-0100	EA	10' Wide x 5' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	2,454.55	61.22
			<i>For Solid Pickets, Add</i>	539.15	
			<i>For Aluminum With Satin Finish, Add</i>	657.61	
			<i>For Third Rail, Add</i>	170.97	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	227.95	
32 31	19 00-0101	EA	12' Wide x 5' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	2,794.91	68.10
			<i>For Solid Pickets, Add</i>	614.27	
			<i>For Aluminum With Satin Finish, Add</i>	750.97	
			<i>For Third Rail, Add</i>	195.03	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	260.05	
32 31	19 00-0102	EA	14' Wide x 5' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	3,100.38	75.55
			<i>For Solid Pickets, Add</i>	681.39	
			<i>For Aluminum With Satin Finish, Add</i>	832.94	
			<i>For Third Rail, Add</i>	216.33	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	288.44	
32 31	19 00-0103	EA	16' Wide x 5' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	3,372.88	83.83
			<i>For Solid Pickets, Add</i>	740.94	
			<i>For Aluminum With Satin Finish, Add</i>	904.10	
			<i>For Third Rail, Add</i>	235.01	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	313.34	
32 31	19 00-0104	EA	18' Wide x 5' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	3,617.33	93.13
			<i>For Solid Pickets, Add</i>	793.94	
			<i>For Aluminum With Satin Finish, Add</i>	965.46	
			<i>For Third Rail, Add</i>	251.34	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	335.12	
32 31	19 00-0105	EA	20' Wide x 5' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	3,833.72	103.55
			<i>For Solid Pickets, Add</i>	840.41	
			<i>For Aluminum With Satin Finish, Add</i>	1,017.02	
			<i>For Third Rail, Add</i>	265.35	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	353.80	



Exterior Improvements	32
Site Improvements	32 30
Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0106 6' Fence Height Steel Tube Swing Gates, 2 Rail <small>(32 31 19 00-0045)</small>		
32 31 19 00-0107 EA 3' Wide x 6' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,018.86	23.81
For Solid Pickets, Add	223.87	
For Aluminum With Satin Finish, Add	273.42	
For Third Rail, Add	71.04	
For 1" Square x 14 Gauge Pickets, Add	94.72	
32 31 19 00-0108 EA 3'-6" Wide x 6' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,071.20	25.12
For Solid Pickets, Add	235.37	
For Aluminum With Satin Finish, Add	287.45	
For Third Rail, Add	74.69	
For 1" Square x 14 Gauge Pickets, Add	99.58	
32 31 19 00-0109 EA 4' Wide x 6' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,124.20	26.51
For Solid Pickets, Add	246.96	
For Aluminum With Satin Finish, Add	301.38	
For Third Rail, Add	78.33	
For 1" Square x 14 Gauge Pickets, Add	104.45	
32 31 19 00-0110 EA 5' Wide x 6' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,189.43	28.19
For Solid Pickets, Add	261.27	
For Aluminum With Satin Finish, Add	318.73	
For Third Rail, Add	82.86	
For 1" Square x 14 Gauge Pickets, Add	110.48	
32 31 19 00-0111 EA 6' Wide x 6' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,333.52	34.05
For Solid Pickets, Add	292.37	
For Aluminum With Satin Finish, Add	354.00	
For Third Rail, Add	92.34	
For 1" Square x 14 Gauge Pickets, Add	123.12	
32 31 19 00-0112 EA 7' Wide x 6' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,487.36	40.01
For Solid Pickets, Add	325.65	
For Aluminum With Satin Finish, Add	392.20	
For Third Rail, Add	102.55	
For 1" Square x 14 Gauge Pickets, Add	136.73	
32 31 19 00-0113 EA 8' Wide x 6' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,659.70	45.58
For Solid Pickets, Add	363.18	
For Aluminum With Satin Finish, Add	436.37	
For Third Rail, Add	114.22	
For 1" Square x 14 Gauge Pickets, Add	152.29	
32 31 19 00-0114 EA 9' Wide x 6' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,825.21	51.45
For Solid Pickets, Add	399.09	
For Aluminum With Satin Finish, Add	478.06	
For Third Rail, Add	125.31	
For 1" Square x 14 Gauge Pickets, Add	167.08	
32 31 19 00-0115 EA 10' Wide x 6' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	2,027.64	57.31
For Solid Pickets, Add	443.31	
For Aluminum With Satin Finish, Add	530.84	
For Third Rail, Add	139.16	
For 1" Square x 14 Gauge Pickets, Add	185.55	
32 31 19 00-0116 EA 6' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,007.00	39.44
For Solid Pickets, Add	443.13	
For Aluminum With Satin Finish, Add	551.44	
For Third Rail, Add	142.08	
For 1" Square x 14 Gauge Pickets, Add	189.44	
32 31 19 00-0117 EA 7' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,123.70	46.24
For Solid Pickets, Add	467.93	
For Aluminum With Satin Finish, Add	577.70	
For Third Rail, Add	149.38	
For 1" Square x 14 Gauge Pickets, Add	199.17	
32 31 19 00-0118 EA 8' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,239.37	52.66
For Solid Pickets, Add	492.58	
For Aluminum With Satin Finish, Add	604.11	
For Third Rail, Add	156.67	
For 1" Square x 14 Gauge Pickets, Add	208.89	
32 31 19 00-0119 EA 9' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,379.41	59.45
For Solid Pickets, Add	522.63	
For Aluminum With Satin Finish, Add	637.37	
For Third Rail, Add	165.71	
For 1" Square x 14 Gauge Pickets, Add	220.95	
32 31 19 00-0120 EA 10' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,601.13	66.24
For Solid Pickets, Add	571.05	
For Aluminum With Satin Finish, Add	695.14	
For Third Rail, Add	180.89	
For 1" Square x 14 Gauge Pickets, Add	241.18	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	19 00-0121	EA	12' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,052.46	73.78
			<i>For Solid Pickets, Add</i>	670.99	
			<i>For Aluminum With Satin Finish, Add</i>	820.87	
			<i>For Third Rail, Add</i>	213.12	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	284.16	
32 31	19 00-0122	EA	14' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,193.73	82.43
			<i>For Solid Pickets, Add</i>	700.94	
			<i>For Aluminum With Satin Finish, Add</i>	852.19	
			<i>For Third Rail, Add</i>	221.88	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	295.83	
32 31	19 00-0123	EA	16' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,506.25	91.73
			<i>For Solid Pickets, Add</i>	769.26	
			<i>For Aluminum With Satin Finish, Add</i>	933.98	
			<i>For Third Rail, Add</i>	243.32	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	324.43	
32 31	19 00-0124	EA	18' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,792.68	102.06
			<i>For Solid Pickets, Add</i>	831.48	
			<i>For Aluminum With Satin Finish, Add</i>	1,006.55	
			<i>For Third Rail, Add</i>	262.58	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	350.10	
32 31	19 00-0125	EA	20' Wide x 6' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	4,057.91	113.88
			<i>For Solid Pickets, Add</i>	888.62	
			<i>For Aluminum With Satin Finish, Add</i>	1,070.92	
			<i>For Third Rail, Add</i>	279.93	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	373.25	
32 31	19 00-0126		7' Fence Height Steel Tube Swing Gates, 2 Rail <small>(32 31 19 00-0045)</small>		
32 31	19 00-0127	EA	3' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,079.18	25.77
			<i>For Solid Pickets, Add</i>	237.00	
			<i>For Aluminum With Satin Finish, Add</i>	288.88	
			<i>For Third Rail, Add</i>	75.13	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	100.17	
32 31	19 00-0128	EA	3'-6" Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,133.84	27.17
			<i>For Solid Pickets, Add</i>	248.99	
			<i>For Aluminum With Satin Finish, Add</i>	303.43	
			<i>For Third Rail, Add</i>	78.92	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	105.22	
32 31	19 00-0129	EA	4' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,188.70	28.56
			<i>For Solid Pickets, Add</i>	261.02	
			<i>For Aluminum With Satin Finish, Add</i>	317.96	
			<i>For Third Rail, Add</i>	82.71	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	110.28	
32 31	19 00-0130	EA	5' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,243.63	30.05
			<i>For Solid Pickets, Add</i>	273.05	
			<i>For Aluminum With Satin Finish, Add</i>	332.48	
			<i>For Third Rail, Add</i>	86.50	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	115.34	
32 31	19 00-0131	EA	6' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,438.22	36.57
			<i>For Solid Pickets, Add</i>	315.37	
			<i>For Aluminum With Satin Finish, Add</i>	382.07	
			<i>For Third Rail, Add</i>	99.63	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	132.84	
32 31	19 00-0132	EA	7' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,616.31	42.80
			<i>For Solid Pickets, Add</i>	354.04	
			<i>For Aluminum With Satin Finish, Add</i>	427.12	
			<i>For Third Rail, Add</i>	111.59	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	148.79	
32 31	19 00-0133	EA	8' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,744.77	49.21
			<i>For Solid Pickets, Add</i>	381.48	
			<i>For Aluminum With Satin Finish, Add</i>	456.86	
			<i>For Third Rail, Add</i>	119.76	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	159.68	
32 31	19 00-0134	EA	9' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,891.76	55.45
			<i>For Solid Pickets, Add</i>	413.16	
			<i>For Aluminum With Satin Finish, Add</i>	492.59	
			<i>For Third Rail, Add</i>	129.39	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	172.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0135 EA 10' Wide x 7' High Steel Tube Single Swing Gate	2,072.73	61.96
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	452.41	
<i>For Aluminum With Satin Finish, Add</i>	538.08	
<i>For Third Rail, Add</i>	141.50	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	188.67	
32 31 19 00-0136 EA 6' Wide x 7' High Steel Tube Double Swing Gate	2,124.11	42.24
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	468.87	
<i>For Aluminum With Satin Finish, Add</i>	582.89	
<i>For Third Rail, Add</i>	150.25	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	200.34	
32 31 19 00-0137 EA 7' Wide x 7' High Steel Tube Double Swing Gate	2,245.73	49.40
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	494.70	
<i>For Aluminum With Satin Finish, Add</i>	610.16	
<i>For Third Rail, Add</i>	157.84	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	210.45	
32 31 19 00-0138 EA 8' Wide x 7' High Steel Tube Double Swing Gate	2,368.35	56.94
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	520.67	
<i>For Aluminum With Satin Finish, Add</i>	637.28	
<i>For Third Rail, Add</i>	165.42	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	220.56	
32 31 19 00-0139 EA 9' Wide x 7' High Steel Tube Double Swing Gate	2,491.91	64.10
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	546.94	
<i>For Aluminum With Satin Finish, Add</i>	665.14	
<i>For Third Rail, Add</i>	173.15	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	230.87	
32 31 19 00-0140 EA 10' Wide x 7' High Steel Tube Double Swing Gate	2,807.09	71.64
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	616.24	
<i>For Aluminum With Satin Finish, Add</i>	750.02	
<i>For Third Rail, Add</i>	195.18	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	260.24	
32 31 19 00-0141 EA 12' Wide x 7' High Steel Tube Double Swing Gate	3,396.62	79.92
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	747.12	
<i>For Aluminum With Satin Finish, Add</i>	916.29	
<i>For Third Rail, Add</i>	237.63	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	316.84	
32 31 19 00-0142 EA 14' Wide x 7' High Steel Tube Double Swing Gate	3,354.23	89.59
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	735.51	
<i>For Aluminum With Satin Finish, Add</i>	891.14	
<i>For Third Rail, Add</i>	232.38	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	309.84	
32 31 19 00-0143 EA 16' Wide x 7' High Steel Tube Double Swing Gate	3,632.88	99.93
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	795.98	
<i>For Aluminum With Satin Finish, Add</i>	961.37	
<i>For Third Rail, Add</i>	251.05	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	334.73	
32 31 19 00-0144 EA 18' Wide x 7' High Steel Tube Double Swing Gate	3,966.19	111.74
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	868.44	
<i>For Aluminum With Satin Finish, Add</i>	1,046.17	
<i>For Third Rail, Add</i>	273.52	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	364.69	
32 31 19 00-0145 EA 20' Wide x 7' High Steel Tube Double Swing Gate	4,183.90	124.67
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	914.67	
<i>For Aluminum With Satin Finish, Add</i>	1,094.91	
<i>For Third Rail, Add</i>	287.08	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	382.78	
32 31 19 00-0146 8' Fence Height Steel Tube Swing Gates, 2 Rail <small>(32 31 19 00-0045)</small>		
32 31 19 00-0147 EA 3' Wide x 8' High Steel Tube Single Swing Gate	1,172.93	27.91
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	257.63	
<i>For Aluminum With Satin Finish, Add</i>	314.20	
<i>For Third Rail, Add</i>	81.69	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	108.92	
32 31 19 00-0148 EA 3'-6" Wide x 8' High Steel Tube Single Swing Gate	1,230.10	29.40
Note: Includes mounting hardware and associated trim.		
<i>For Solid Pickets, Add</i>	270.14	
<i>For Aluminum With Satin Finish, Add</i>	329.26	
<i>For Third Rail, Add</i>	85.63	
<i>For 1" Square x 14 Gauge Pickets, Add</i>	114.17	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0149	EA	4' Wide x 8' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,291.15	30.98
		<i>For Solid Pickets, Add</i>	283.53	
		<i>For Aluminum With Satin Finish, Add</i>	345.48	
		<i>For Third Rail, Add</i>	89.86	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	119.81	
32 31 19 00-0150	EA	5' Wide x 8' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,344.65	34.52
		<i>For Solid Pickets, Add</i>	294.77	
		<i>For Aluminum With Satin Finish, Add</i>	356.71	
		<i>For Third Rail, Add</i>	93.07	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	124.09	
32 31 19 00-0151	EA	6' Wide x 8' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,591.53	39.08
		<i>For Solid Pickets, Add</i>	349.30	
		<i>For Aluminum With Satin Finish, Add</i>	424.71	
		<i>For Third Rail, Add</i>	110.57	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	147.43	
32 31 19 00-0152	EA	7' Wide x 8' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,769.37	47.08
		<i>For Solid Pickets, Add</i>	387.50	
		<i>For Aluminum With Satin Finish, Add</i>	467.18	
		<i>For Third Rail, Add</i>	122.10	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	162.80	
32 31 19 00-0153	EA	8' Wide x 8' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,845.15	54.80
		<i>For Solid Pickets, Add</i>	402.81	
		<i>For Aluminum With Satin Finish, Add</i>	479.44	
		<i>For Third Rail, Add</i>	126.04	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	168.05	
32 31 19 00-0154	EA	9' Wide x 8' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	1,976.33	62.89
		<i>For Solid Pickets, Add</i>	430.51	
		<i>For Aluminum With Satin Finish, Add</i>	507.91	
		<i>For Third Rail, Add</i>	134.06	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	178.75	
32 31 19 00-0155	EA	10' Wide x 8' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim.	2,089.97	70.98
		<i>For Solid Pickets, Add</i>	454.26	
		<i>For Aluminum With Satin Finish, Add</i>	531.12	
		<i>For Third Rail, Add</i>	140.77	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	187.69	
32 31 19 00-0156	EA	6' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	2,309.29	45.13
		<i>For Solid Pickets, Add</i>	509.92	
		<i>For Aluminum With Satin Finish, Add</i>	634.76	
		<i>For Third Rail, Add</i>	163.53	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	218.03	
32 31 19 00-0157	EA	7' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	2,444.82	54.43
		<i>For Solid Pickets, Add</i>	538.42	
		<i>For Aluminum With Satin Finish, Add</i>	663.44	
		<i>For Third Rail, Add</i>	171.69	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	228.93	
32 31 19 00-0158	EA	8' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	2,577.39	63.36
		<i>For Solid Pickets, Add</i>	566.33	
		<i>For Aluminum With Satin Finish, Add</i>	691.70	
		<i>For Third Rail, Add</i>	179.72	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	239.62	
32 31 19 00-0159	EA	9' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	2,687.64	72.76
		<i>For Solid Pickets, Add</i>	589.14	
		<i>For Aluminum With Satin Finish, Add</i>	712.80	
		<i>For Third Rail, Add</i>	185.99	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	247.99	
32 31 19 00-0160	EA	10' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	3,124.63	82.06
		<i>For Solid Pickets, Add</i>	685.46	
		<i>For Aluminum With Satin Finish, Add</i>	831.93	
		<i>For Third Rail, Add</i>	216.77	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	289.03	
32 31 19 00-0161	EA	12' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	3,899.24	92.39
		<i>For Solid Pickets, Add</i>	857.53	
		<i>For Aluminum With Satin Finish, Add</i>	1,050.95	
		<i>For Third Rail, Add</i>	272.64	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	363.52	
32 31 19 00-0162	EA	14' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim.	3,555.69	104.20
		<i>For Solid Pickets, Add</i>	777.69	
		<i>For Aluminum With Satin Finish, Add</i>	932.69	
		<i>For Third Rail, Add</i>	244.34	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	325.79	



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	19 00-0163	EA	16' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	3,804.64 830.79 989.88 260.10 346.79	117.88
32 31	19 00-0164	EA	18' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	4,191.89 914.70 1,086.71 285.92 381.22	132.85
32 31	19 00-0165	EA	20' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	4,271.10 928.91 1,088.83 288.25 384.33	149.70
32 31 19 00-0166 Replace Steel Tube Fence Pickets (32 31 19 00-0032)					
32 31	19 00-0167	LF	Removal And Replacement Of 3/4" Square x 16 Gauge Steel Tube Fence Picket..... <i>For 1" Square x 14 Gauge Pickets, Add</i>	26.72 0.81	
32 31 19 00-0168 Removal And Reinstallation Of Ornamental Fences (32 31 19)					
Note: Including storage and cleaning. Excludes augering and concrete.					
32 31	19 00-0169	LF	Removal And Reinstallation Of Ornamental Fence Up To 5' Height.....	41.86	
32 31	19 00-0170	LF	Removal And Reinstallation Of Ornamental Fence, 6' Height.....	46.05	
32 31	19 00-0171	LF	Removal And Reinstallation Of Ornamental Fence, 7' Height.....	50.24	
32 31	19 00-0172	LF	Removal And Reinstallation Of Ornamental Fence, 8' Height.....	54.43	
32 31	19 00-0173	LF	Removal And Reinstallation Of Ornamental Fence, 9' Height.....	58.62	
32 31	19 00-0174	LF	Removal And Reinstallation Of Ornamental Fence, 10' Height.....	62.80	
32 31	19 00-0175	LF	Removal And Reinstallation Of Ornamental Fence 12' Height.....	69.77	
32 31 23 Plastic Fences and Gates (32 31)					
32 31 23 00-0001 Vinyl Fence (32 31 23)					
32 31 23 00-0002 Privacy Tongue And Groove Vinyl Fence (32 31 23 00-0001)					
Note: With 1-1/2" x 5-1/2" top and bottom rails, 5" x 5" posts installed 7' centers. Post includes flat cap.					
32 31	23 00-0003	LF	3' High Privacy Tongue And Groove Vinyl Fence.....	53.43	5.55
32 31	23 00-0004	LF	4' High Privacy Tongue And Groove Vinyl Fence.....	59.85	6.67
32 31	23 00-0005	LF	5' High Privacy Tongue And Groove Vinyl Fence.....	66.81	7.77
32 31	23 00-0006	LF	6' High Privacy Tongue And Groove Vinyl Fence.....	73.62	8.88
32 31 23 00-0007 Semi-Privacy 6" Picket Vinyl Fence (32 31 23 00-0001)					
Note: With 1-1/2" x 5-1/2" top and bottom rails, 2" x 3-1/2" mid rail, 5" x 5" posts installed 6' centers. Post includes flat cap.					
32 31	23 00-0008	LF	5' High Semi-Privacy 6" Picket Vinyl Fence.....	71.58	7.77
32 31	23 00-0009	LF	6' High Semi-Privacy 6" Picket Vinyl Fence.....	78.44	8.88
32 31 23 00-0010 Picket Straight Top Vinyl Fence (32 31 23 00-0001)					
Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Post includes flat cap.					
32 31	23 00-0011	LF	3' High Picket Straight Top Vinyl Fence.....	49.22	5.55
32 31	23 00-0012	LF	4' High Picket Straight Top Vinyl Fence.....	55.86	6.67
32 31	23 00-0013	LF	5' High Picket Straight Top Vinyl Fence.....	64.03	7.77
32 31	23 00-0014	LF	6' High Picket Straight Top Vinyl Fence.....	70.89	8.88
32 31 23 00-0015 Picket Scalloped Top Vinyl Fence (32 31 23 00-0001)					
Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Post includes flat cap.					
32 31	23 00-0016	LF	3' High Picket Scalloped Top Vinyl Fence.....	54.63	5.55
32 31	23 00-0017	LF	4' High Picket Scalloped Top Vinyl Fence.....	61.44	6.67
32 31	23 00-0018	LF	5' High Picket Scalloped Top Vinyl Fence.....	69.24	7.77
32 31	23 00-0019	LF	6' High Picket Scalloped Top Vinyl Fence.....	76.27	8.88
32 31 23 00-0020 Post And Rail Vinyl Fence, Ranch Style (32 31 23 00-0001)					
Note: With 1-1/2" x 5-1/2" rails, 5" x 5" posts installed 8' centers. Post includes flat cap.					
32 31	23 00-0021	LF	5' High, 2 Rail, Post And Rail Vinyl Fence.....	19.66	5.55
32 31	23 00-0022	LF	6-1/2' High, 3 Rail, Post And Rail Vinyl Fence.....	25.27	6.67
32 31	23 00-0023	LF	7' High, 4 Rail, Post And Rail Vinyl Fence.....	29.15	7.22
32 31 23 00-0024 Post, Rails And Pickets (Traditional Style) Vinyl Fence (32 31 23 00-0001)					
Note: With top and bottom 3" x 3" rails, 5" x 5" posts and 1-1/2" x 1-1/2" pickets. Post includes flat cap.					
32 31	23 00-0025	LF	3' High Rail And Picket Vinyl Fence, 72" On Center Posts.....	64.00	6.10

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0026 LF 4' High Rail And Picket Vinyl Fence, 72" On Center Posts	69.88	7.22
32 31 23 00-0027 LF 3' High Rail And Picket Vinyl Fence, 96" On Center Posts	60.40	5.55
32 31 23 00-0028 LF 4' High Rail And Picket Vinyl Fence, 96" On Center Posts	65.64	6.67
32 31 23 00-0029 Vinyl Gates (32 31 23)		
32 31 23 00-0030 Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0029)		
Note: Includes hinges.		
32 31 23 00-0031 3' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0032 EA 3' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	591.64	55.52
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0033 EA 3' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	627.85	58.29
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0034 EA 3' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	689.12	61.07
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0035 EA 3' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	772.67	63.85
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0036 4' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0037 EA 4' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	627.85	58.29
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0038 EA 4' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	650.12	61.07
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0039 EA 4' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	722.52	63.85
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0040 EA 4' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	847.88	66.62
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0041 5' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0042 EA 5' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	650.12	61.07
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0043 EA 5' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	677.94	63.85
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0044 EA 5' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	778.23	66.62
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0045 EA 5' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	909.16	69.40
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0046 6' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)		
32 31 23 00-0047 EA 6' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	683.50	66.62
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0048 EA 6' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	711.34	69.40
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0049 EA 6' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	858.98	72.18
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0050 EA 6' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	948.13	72.18
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0051 Gates For Picket Fences (32 31 23 00-0029)		
Note: Includes hinges.		
32 31 23 00-0052 3' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0053 EA 3' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	566.57	55.52
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0054 EA 3' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	588.84	58.29
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0055 EA 3' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	661.26	61.07
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0056 EA 3' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	786.60 14.50 38.50	63.85
32 31 23 00-0057 4' High Gates For Picket Fences <small>(32 31 23 00-0051)</small>		
32 31 23 00-0058 EA 4' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	572.13 14.50 38.50	58.29
32 31 23 00-0059 EA 4' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	594.39 14.50 38.50	61.07
32 31 23 00-0060 EA 4' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	666.80 14.50 38.50	63.85
32 31 23 00-0061 EA 4' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	792.16 14.50 38.50	66.62
32 31 23 00-0062 5' High Gates For Picket Fences <small>(32 31 23 00-0051)</small>		
32 31 23 00-0063 EA 5' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	594.39 14.50 38.50	61.07
32 31 23 00-0064 EA 5' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	622.22 14.50 38.50	63.85
32 31 23 00-0065 EA 5' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	722.51 14.50 38.50	66.62
32 31 23 00-0066 EA 5' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	853.43 14.50 38.50	69.40
32 31 23 00-0067 6' High Gates For Picket Fences <small>(32 31 23 00-0051)</small>		
32 31 23 00-0068 EA 6' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	627.78 14.50 38.50	66.62
32 31 23 00-0069 EA 6' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	655.62 14.50 38.50	69.40
32 31 23 00-0070 EA 6' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	803.26 14.50 38.50	72.18
32 31 23 00-0071 EA 6' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	892.41 14.50 38.50	74.95
32 31 23 00-0072 Gates Accessories <small>(32 31 23 00-0029)</small>		
32 31 23 00-0073 EA Gate Stop/Drop Rod.....	128.05	
32 31 23 00-0074 EA Latch Set.....	87.65	
32 31 23 00-0075 EA Stainless Steel Latch Set.....	128.05	
32 31 26 Wire Fences and Gates <small>(32 31)</small>		
32 31 26 13 Wire Fences with Steel Posts <small>(32 31 26)</small>		
32 31 26 13-0001 Chicken Wire <small>(32 31 26 13)</small> Note: Posts at 4'.		
32 31 26 13-0002 LF 4' High, 1" Mesh, Chicken Wire Fence, Metal Posts At 4'.....	7.94	1.60
32 31 26 13-0003 LF 6' High, 2" Mesh, Chicken Wire Fence, Metal Posts At 4'.....	8.58	1.60
32 31 26 13-0004 Wire And Screen <small>(32 31 26 13)</small>		
32 31 26 13-0005 Wire And Screen For Partitions And Fences <small>(32 31 26 13-0004)</small> Note: Excludes framing and post.		
32 31 26 13-0006 Screen Wire <small>(32 31 26 13-0005)</small>		
32 31 26 13-0007 LF Screen Wire, 48" Wide Rolls.....	12.94	1.12
32 31 26 13-0008 Hog Wire <small>(32 31 26 13-0005)</small>		
32 31 26 13-0009 SF 4" x 4" Hog Wire For Fencing.....	2.28	0.89
32 31 26 13-0010 SF 6" x 6" Hog Wire For Fencing.....	2.39	1.01
32 31 26 13-0011 Non-Climb Horse Fence <small>(32 31 26 13-0005)</small>		
32 31 26 13-0012 LF 4' Non-Climb Woven, 12.5 Gauge, Horse Fence.....	10.39	3.58
32 31 26 13-0013 LF 5' Non-Climb Woven, 12.5 Gauge, Horse Fence.....	13.34	4.47

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	26 13-0014	LF	6' Non-Climb Woven, 12.5 Gauge, Horse Fence.....	16.76	5.36
32 31	26 13-0015		Screen For Partitions And Ceilings (32 31 26 13-0004) Note: Can be used to support insulation on walls and ceilings.		
32 31	26 13-0016	SF	1" Mesh Chicken Wire.....	2.17	0.63
32 31	26 13-0017		Wicket Fence (32 31 26 13)		
32 31	26 13-0018	LF	Steel Wicket Fence, Painted.....	74.51	4.95
32 31	29		Wood Fences and Gates (32 31) See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31	29 00-0001		Basket Weave (32 31 29) Note: 3/8" x 4" boards, 4" x 4" post		
32 31	29 00-0002	LF	6' High #1 Cedar Basket Weave Fence 3/8" x 4" Boards, 4" x 4" Post..... For Fastening With Screws Instead Of Nails, Add	39.50 2.31	3.19
32 31	29 00-0003	LF	6' High, Pressure Treated Pine Basket Weave 3/8" x 4" Boards, 4" x 4" Post..... For Fastening With Screws Instead Of Nails, Add	25.88 1.65	3.19
32 31	29 00-0004		Board Fence (32 31 29) Note: 1x4" board, 2x4" rail, 4x4" post.		
32 31	29 00-0005	LF	Two 2" x 4" Rails, 3' High 1" x 4" Boards, Preservative Treated Board Fence..... For 1" x 6" Boards, Deduct For 1" x 3" Boards (Stockade Top), Add For Fastening With Screws Instead Of Nails, Add	26.05 -2.66 3.28 1.67	3.19
32 31	29 00-0006	LF	Two 2" x 4" Rails, 4' High 1" x 4" Boards, Preservative Treated Board Fence..... For 1" x 6" Boards, Deduct For 1" x 3" Boards (Stockade Top), Add For Fastening With Screws Instead Of Nails, Add	29.04 -2.90 3.55 1.85	3.19
32 31	29 00-0007	LF	Three 2" x 4" Rails, 5' High 1" x 4" Boards, Preservative Treated Board Fence..... For 1" x 6" Boards, Deduct For 1" x 3" Boards (Stockade Top), Add For Fastening With Screws Instead Of Nails, Add	32.58 -3.11 3.76 2.04	3.19
32 31	29 00-0008	LF	Three 2" x 4" Rails, 6' High 1" x 4" Boards, Preservative Treated Board Fence..... For 1" x 6" Boards, Deduct For 1" x 3" Boards (Stockade Top), Add For Fastening With Screws Instead Of Nails, Add	34.85 -3.27 3.94 2.17	3.19
32 31	29 00-0009	LF	Three 2" x 4" Rails, 8' High 1" x 4" Boards, Preservative Treated Board Fence..... For 1" x 6" Boards, Deduct For 1" x 3" Boards (Stockade Top), Add For Fastening With Screws Instead Of Nails, Add	37.30 -3.44 4.13 2.31	3.19
32 31	29 00-0010	LF	Two 2" x 4" Rails, 3' High 1" x 4" #2 Grade Western Cedar Board Fence..... For 1" x 6" Boards, Deduct For 1" x 3" Boards (Stockade Top), Add For Fastening With Screws Instead Of Nails, Add	27.96 -2.74 3.34 1.77	3.19
32 31	29 00-0011	LF	Two 2" x 4" Rails, 4' High 1" x 4" #2 Grade Western Cedar Board Fence..... For 1" x 6" Boards, Deduct For 1" x 3" Boards (Stockade Top), Add For Fastening With Screws Instead Of Nails, Add	30.52 -2.96 3.60 1.92	3.19
32 31	29 00-0012	LF	Three 2" x 4" Rails, 5' High 1" x 4" #2 Grade Western Cedar Board Fence..... For 1" x 6" Boards, Deduct For 1" x 3" Boards (Stockade Top), Add For Fastening With Screws Instead Of Nails, Add	32.58 -3.11 3.76 2.04	3.19
32 31	29 00-0013	LF	Three 2" x 4" Rails, 6' High 1" x 4" #2 Grade Western Cedar Board Fence..... For 1" x 6" Boards, Deduct For 1" x 3" Boards (Stockade Top), Add For Fastening With Screws Instead Of Nails, Add	34.85 -3.27 3.94 2.17	3.19
32 31	29 00-0014	LF	Three 2" x 4" Rails, 8' High 1" x 4" #2 Grade Western Cedar Board Fence..... For 1" x 6" Boards, Deduct For 1" x 3" Boards (Stockade Top), Add For Fastening With Screws Instead Of Nails, Add	37.30 -3.44 4.13 2.31	3.19
32 31	29 00-0015	LF	Two 2" x 4" Rails, 3' High 1" x 4" #1 Grade Cedar Board Fence..... For 1" x 6" Boards, Deduct For 1" x 3" Boards (Stockade Top), Add For Fastening With Screws Instead Of Nails, Add	27.97 -2.74 3.34 1.77	3.19
32 31	29 00-0016	LF	Two 2" x 4" Rails, 4' High 1" x 4" #1 Grade Cedar Board Fence..... For 1" x 6" Boards, Deduct For 1" x 3" Boards (Stockade Top), Add For Fastening With Screws Instead Of Nails, Add	37.05 -3.22 3.79 2.25	3.19
32 31	29 00-0017	LF	Three 2" x 4" Rails, 5' High 1" x 4" #1 Grade Cedar Board Fence..... For 1" x 6" Boards, Deduct For 1" x 3" Boards (Stockade Top), Add For Fastening With Screws Instead Of Nails, Add	38.85 -3.36 3.95 2.35	3.19
32 31	29 00-0018	LF	Three 2" x 4" Rails, 6' High 1" x 4" #1 Grade Cedar Board Fence..... For 1" x 6" Boards, Deduct For 1" x 3" Boards (Stockade Top), Add For Fastening With Screws Instead Of Nails, Add	41.86 -3.55 4.15 2.52	3.19
32 31	29 00-0019	LF	Three 2" x 4" Rails, 8' High 1" x 4" #1 Grade Cedar Board Fence..... For 1" x 6" Boards, Deduct For 1" x 3" Boards (Stockade Top), Add For Fastening With Screws Instead Of Nails, Add	45.11 -3.75 4.36 2.70	3.19



		Exterior Improvements	32
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0020 Shadow Box <small>(32 31 29)</small>		
Note: 1x6" board, 2x4" Rail, 4x4" post.		
32 31 29 00-0021 LF Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 6" Pressure Treated Pine	53.54	3.19
For Fastening With Screws Instead Of Nails, Add		
	3.01	
32 31 29 00-0022 LF Shadow Box, 3 - 2" x 4" Rails, 4' High 1" x 4" #1 Cedar	67.27	3.19
For Fastening With Screws Instead Of Nails, Add		
	3.76	
32 31 29 00-0023 LF Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 4" #1 Cedar	73.30	3.19
For Fastening With Screws Instead Of Nails, Add		
	4.07	
32 31 29 00-0024 LF Shadow Box, 3 - 2" x 4" Rails, 8' High 1" x 4" #1 Cedar	78.77	3.19
For Fastening With Screws Instead Of Nails, Add		
	4.38	
32 31 29 00-0025 Open Rail Fence <small>(32 31 29)</small>		
32 31 29 00-0026 Post And Rail Fence, Ranch Style <small>(32 31 29 00-0025)</small>		
32 31 29 00-0027 LF Post And Rail Fence, 2 Rails, 3' High #1 Cedar	25.83	3.19
32 31 29 00-0028 LF Post And Rail Fence, 2 Rails, 3' High #2 Cedar	19.94	3.19
32 31 29 00-0029 LF Post And Rail Fence, 3 Rails, 4' High #1 Cedar	30.73	3.19
32 31 29 00-0030 LF Post And Rail Fence, 3 Rails, 4' High #2 Cedar	21.55	3.19
32 31 29 00-0031 Split Rail Fence <small>(32 31 29 00-0025)</small>		
32 31 29 00-0032 LF Split Rail Fence, 2 Rails, 3' High #1 Cedar	24.31	3.19
32 31 29 00-0033 LF Split Rail Fence, 2 Rails, 3' High #2 Cedar	19.87	3.19
32 31 29 00-0034 LF Split Rail Fence, 3 Rail, 4' High #1 Cedar	27.84	3.19
32 31 29 00-0035 LF Split Rail Fence, 3 Rail, 4' High #2 Cedar	22.41	3.19
32 31 29 00-0036 Picket Fence <small>(32 31 29)</small>		
32 31 29 00-0037 LF Picket Fence, 2 Rail, 3' High, Pressure Treated	26.10	3.19
For Fastening With Screws Instead Of Nails, Add		
	1.69	
32 31 29 00-0038 LF Picket Fence, 2 Rail, 3' High #1 Cedar	24.56	3.19
For Fastening With Screws Instead Of Nails, Add		
	1.61	
32 31 29 00-0039 Wood Fence Post Accessories <small>(32 31 29)</small>		
32 31 29 00-0040 EA 3-1/2" x 3-1/2" Copper, Pyramid Slip Over, Wood Fence Post Cap	41.70	
32 31 29 00-0041 EA 4" x 4" Copper, Pyramid Slip Over, Wood Fence Post Cap	46.93	
32 31 29 00-0042 EA 6" x 6" Copper, Pyramid Slip Over, Wood Fence Post Cap	51.05	
32 31 29 00-0043 EA 8" x 8" Copper, Pyramid Slip Over, Wood Fence Post Cap	76.11	
32 31 29 00-0044 Wood Gate <small>(32 31 29)</small>		
32 31 29 00-0045 Board Fence Gates, Pressure Treated Wood <small>(32 31 29 00-0044)</small>		
Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (treated lumber).		
32 31 29 00-0046 EA 3' To 5' High x 3' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	421.74	127.95
32 31 29 00-0047 EA 3' To 5' High x 3'-6" Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	466.94	135.63
32 31 29 00-0048 EA 3' To 5' High x 4' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	522.39	148.42
32 31 29 00-0049 EA 3' To 5' High x 5' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	594.13	156.10
32 31 29 00-0050 EA 3' To 5' High x 6' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	665.86	163.77
32 31 29 00-0051 EA >5' To 8' High x 3' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	536.79	168.90
32 31 29 00-0052 EA >5' To 8' High x 3'-6" Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	585.32	176.57
Hardware		
	633.83	184.25
32 31 29 00-0053 EA >5' To 8' High x 4' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	633.83	184.25
32 31 29 00-0054 EA >5' To 8' High x 5' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	715.53	191.92
32 31 29 00-0055 EA >5' To 8' High x 6' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	780.63	199.61
32 31 29 00-0056 Board Fence Gates, Grade 2 Cedar <small>(32 31 29 00-0044)</small>		
Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)		
32 31 29 00-0057 EA 3' To 5' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	647.16	99.70
32 31 29 00-0058 EA 3' To 5' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	669.08	105.68
32 31 29 00-0059 EA 3' To 5' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	702.29	115.64
32 31 29 00-0060 EA 3' To 5' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	740.78	121.63
32 31 29 00-0061 EA 3' To 5' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	789.22	127.62
32 31 29 00-0062 EA >5' To 8' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	760.72	131.60
32 31 29 00-0063 EA >5' To 8' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	789.27	137.58
32 31 29 00-0064 EA >5' To 8' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	834.40	143.56
32 31 29 00-0065 EA >5' To 8' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	879.53	149.54
32 31 29 00-0066 EA >5' To 8' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	924.66	155.53
32 31 29 00-0067 Board Fence Gates, Grade 1 Cedar <small>(32 31 29 00-0044)</small>		
Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)		
32 31 29 00-0068 EA 3' To 5' High x 3' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	696.91	99.70
32 31 29 00-0069 EA 3' To 5' High x 3'-6" Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	725.46	105.68

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0070 EA 3' To 5' High x 4' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	761.99	115.64
32 31 29 00-0071 EA 3' To 5' High x 5' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	807.12	121.63
32 31 29 00-0072 EA 3' To 5' High x 6' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	852.24	127.62
32 31 29 00-0073 EA >5' To 8' High x 3' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	827.06	131.60
32 31 29 00-0074 EA >5' To 8' High x 3'-6" Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware.....	855.61	137.58
32 31 29 00-0075 EA >5' To 8' High x 4' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	900.74	143.56
32 31 29 00-0076 EA >5' To 8' High x 5' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	945.87	149.54
32 31 29 00-0077 EA >5' To 8' High x 6' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	1,007.58	155.53
32 31 29 00-0078 Pressure Treated Wood Fence Posts <small>(32 31 29)</small> See CSI section 32 31 13 13-0001 for drilling augering, 32 31 13 13-0666 for barbed wire, 32 31 56 00-0017 for barbed wire.		
32 31 29 00-0079 EA 4' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill.....	40.08	12.80
32 31 29 00-0080 EA 6' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill.....	45.33	12.80
32 31 29 00-0081 EA 4' High, Pressure Treated Wood Fence Posts, Set In Concrete	70.36	24.57
32 31 29 00-0082 EA 6' High, Pressure Treated Wood Fence Posts, Set In Concrete	76.33	24.57
32 31 29 00-0083 Wood Utility Pole Fence <small>(32 31 29)</small> Note: Excludes post holes. See CSI section 32 31 13 13-0001 for drilling augering and backfill.		
32 31 29 00-0084 LF Wood Utility Pole Barrier Fence.....	49.42	3.19
Note: Includes notching post, drilling and pinned with #5 rebar.		
32 31 29 00-0085 Wood Rail Fence <small>(32 31 29)</small> Note: 3" diameter treated lodgepole pine rails, 6" diameter treated lodgepole pine post. Posts at 8' centers. Excludes post holes and fill		
32 31 29 00-0086 LF 4' Above Ground Wood Rail Fence, 3 - 3" Diameter Treated Lodgepole Pine Rails, 6" Diameter, 6' Overall Treated Lodgepole Pine Post	25.23	3.19
32 31 34 Tubular Barrier Gates <small>(32 31)</small>		
32 31 34 00-0001 Pipe Gate <small>(32 31 34)</small> Note: Excludes augering and concrete. See CSI section 32 31 13 13-0001 for augering post holes and concrete fill.		
32 31 34 00-0002 EA 20' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier).....	3,792.41	
32 31 34 00-0003 EA 25' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier).....	4,745.58	
32 31 34 00-0004 EA 30' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier).....	5,656.97	
32 31 41 Precast Concrete Fences <small>(32 31)</small>		
32 31 41 00-0001 Precast Post And Rail Fence, Ranch Style, With Integral Color Concrete. <small>(32 31 41)</small> Note: Includes post holes, fill, spreading of excess material on site. See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 41 00-0002 LF Precast Post And Rail Fence With Integral Color Concrete, 2 Rails, 3' Above Ground With 2' Bury	63.41	3.19
Note: Includes 12" diameter holes with concrete fill for line posts and 18" diameter holes with concrete fill at corners.		
32 31 56 Wild Life Deterrent Fence <small>(32 31)</small>		
32 31 56 00-0001 Barbed Wire Fences <small>(32 31 56)</small> Note: Excludes post holes and fill See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 56 00-0002 Fence Posts <small>(32 31 56 00-0001)</small>		
32 31 56 00-0003 Fence Post Soil, Set In Concrete <small>(32 31 56 00-0002)</small>		
32 31 56 00-0004 EA Barbed Wire Fence Post, Galvanized Set In Concrete In Soil	101.62	7.44
For Bracing On Corner Post, End Post And Pull Post, Add	164.43	
32 31 56 00-0005 EA Barbed Wire Fence Post, Vinyl Coated Set In Concrete In Soil	138.35	7.44
For Bracing On Corner Post, End Post And Pull Post, Add	225.77	
32 31 56 00-0006 Post In Rock <small>(32 31 56 00-0002)</small>		
32 31 56 00-0007 EA Barbed Wire Fence Post, Galvanized Grouted In Rock.....	99.99	7.44
For Bracing On Corner Post, End Post And Pull Post, Add	161.99	
32 31 56 00-0008 EA Barbed Wire Fence Post, Vinyl Coated Grouted In Rock.....	136.72	7.44
For Bracing On Corner Post, End Post And Pull Post, Add	223.33	
32 31 56 00-0009 Studded Steel T-Posts, Enamel Paint Finish <small>(32 31 56 00-0001)</small> Note: Posts for barb wire, chain link or welded wire mesh.		
32 31 56 00-0010 EA 5' Studded Steel T-Post, Driven Into Earth	23.81	
32 31 56 00-0011 EA 5'-6" Studded Steel T-Post, Driven Into Earth.....	24.39	
32 31 56 00-0012 EA 6' Studded Steel T-Post, Driven Into Earth	25.54	
32 31 56 00-0013 EA 6'-6" Studded Steel T-Post, Driven Into Earth.....	26.68	
32 31 56 00-0014 EA 7' Studded Steel T-Post, Driven Into Earth	28.21	
32 31 56 00-0015 EA 8' Studded Steel T-Post, Driven Into Earth	31.86	
32 31 56 00-0016 EA 10' Studded Steel T-Post, Driven Into Earth	39.07	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 56 00-0017 Barbed Wire <small>(32 31 56 00-0001)</small> Note: Per strand.		
32 31 56 00-0018 LF Galvanized Barbed Wire For Wild Life Deterrent Fencing, Per Strand	0.83	0.38
32 31 56 00-0019 LF Vinyl Coated Barbed Wire, For Wild Life Deterrent Fencing, Per Strand	0.98	0.38
32 31 56 00-0020 Barbed Wire Fence, Farm Style, With Wood Posts <small>(32 31 56 00-0001)</small> Note: Based on post at 10' centers, two corner post and two pull post per 300 lf.		
32 31 56 00-0021 LF 4'-6" Height, Three (3) Strand Barbed Wire Fence With Wood Posts	10.86	2.42
Note: Posts at 10' maximum.		
32 32 Retaining Walls <small>(32 30)</small>		
32 32 13 Cast-In-Place Concrete Retaining Wall <small>(32 32)</small> Note: System includes all necessary forms (4 uses), 3000 PSI concrete with an 8" chute, all necessary reinforcing steel, and underdrain. Exposed concrete is patched and rubbed. Excludes initial site grading, subbase preparation or finish grading.		
32 32 13 00-0001 LF 4' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	355.58	127.26
For >3:1 Sloped Soil At Top, Add	8.60	
32 32 13 00-0002 LF 6' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	443.89	156.59
For >3:1 Sloped Soil At Top, Add	11.10	
32 32 13 00-0003 LF 8' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	483.79	168.91
For >3:1 Sloped Soil At Top, Add	12.41	
32 32 13 00-0004 LF 10' High With Base, 13" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	617.26	208.85
For >3:1 Sloped Soil At Top, Add	16.97	
32 32 13 00-0005 LF 12' High With Base, 14" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	711.50	239.90
For >3:1 Sloped Soil At Top, Add	19.09	
32 32 13 00-0006 LF 16' High With Base, 16" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,028.54	351.93
For >3:1 Sloped Soil At Top, Add	27.60	
32 32 13 00-0007 LF 20' High With Base, 18" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,411.54	485.87
For >3:1 Sloped Soil At Top, Add	37.38	
32 32 13 00-0008 LF 4' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	390.89	138.98
For >3:1 Sloped Soil At Top, Add	9.60	
32 32 13 00-0009 LF 6' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	478.88	167.46
For >3:1 Sloped Soil At Top, Add	12.24	
32 32 13 00-0010 LF 8' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	507.47	174.73
For >3:1 Sloped Soil At Top, Add	13.43	
32 32 13 00-0011 LF 10' High With Base, 16" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	699.06	234.17
For >3:1 Sloped Soil At Top, Add	19.60	
32 32 13 00-0012 LF 12' High With Base, 18" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	885.79	300.79
For >3:1 Sloped Soil At Top, Add	24.16	
32 32 13 00-0013 LF 16' High With Base, 21" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,327.47	455.93
For >3:1 Sloped Soil At Top, Add	35.33	
32 32 13 00-0014 LF 20' High With Base, 24" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,873.45	643.58
For >3:1 Sloped Soil At Top, Add	49.83	
32 32 16 Precast Concrete Retaining Walls <small>(32 32)</small>		
32 32 16 00-0001 Precast Retaining Walls <small>(32 32 16)</small> Note: Tied-back earth walls. Includes precast filter fabric, soil reinforcing mesh and cast-in-place coping. Excludes concrete leveling pad, or select earth excavation and backfill.		
32 32 16 00-0002 SF 10-15' High, Tied-back, Precast Concrete Retaining Walls	89.38	12.79
32 32 16 00-0003 SF 16-20' High, Tied-back, Precast Concrete Retaining Walls	91.85	10.28
32 32 16 00-0004 SF 21-25' High, Tied-back, Precast Concrete Retaining Walls	95.31	8.57
32 32 16 00-0005 SF 26-30' High, Tied-back, Precast Concrete Retaining Walls	103.08	8.57
32 32 16 00-0006 SF >30' High, Tied-back, Precast Concrete Retaining Walls	109.09	7.31
32 32 23 Segmental Retaining Walls <small>(32 32)</small>		
32 32 23 13 Segmental Concrete Unit Masonry Retaining Walls <small>(32 32 23)</small>		
32 32 23 13-0001 Modular Retaining Wall Systems <small>(32 32 23 13)</small> Note: Includes installation, material and manufacturer's wall design. Includes stone wall, cap stones, #57 stone backing, Geo-Grid (2/3 height of wall), miradrain and fill with earth, and compaction. Includes cap at top, pins, and installation. Excludes initial site grading, subbase preparation or finish grading.		
32 32 23 13-0002 "Amastone" Type Modular Retaining Wall Systems <small>(32 32 23 13-0001)</small>		
32 32 23 13-0003 SF Up To 4' Height "Amastone" Type Modular Retaining Wall System	60.00	8.41
For >3:1 Sloped Soil At Top, Add	3.67	
32 32 23 13-0004 SF 4 To 8' Height "Amastone" Type Modular Retaining Wall System	63.30	8.85
For >3:1 Sloped Soil At Top, Add	3.88	
32 32 23 13-0005 SF 8 To 12' Height "Amastone" Type Modular Retaining Wall System	66.10	9.73
For >3:1 Sloped Soil At Top, Add	3.96	
32 32 23 13-0006 SF 12 To 16' Height "Amastone" Type Modular Retaining Wall System	69.06	10.62
For >3:1 Sloped Soil At Top, Add	4.06	
32 32 23 13-0007 "Diamond" Type Modular Retaining Wall Systems <small>(32 32 23 13-0001)</small>		
32 32 23 13-0008 SF Up To 4' Height "Diamond" Type Modular Retaining Wall System	62.26	8.41
For >3:1 Sloped Soil At Top, Add	3.86	

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 23 13-0009	SF		4 To 8' Height "Diamond" Type Modular Retaining Wall System	65.56	8.85
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.07	
32 32 23 13-0010	SF		8 To 12' Height "Diamond" Type Modular Retaining Wall System	68.36	9.73
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.16	
32 32 23 13-0011	SF		12 To 16' Height "Diamond" Type Modular Retaining Wall System	71.32	10.62
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.26	
32 32 23 13-0012			"Keystone" Type Modular Retaining Wall Systems <small>(32 32 23 13-0001)</small>		
32 32 23 13-0013	SF		Up To 4' Height "Keystone" Type Modular Retaining Wall System	67.65	8.41
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.32	
32 32 23 13-0014	SF		4 To 8' Height "Keystone" Type Modular Retaining Wall System	70.95	8.85
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.53	
32 32 23 13-0015	SF		8 To 12' Height "Keystone" Type Modular Retaining Wall System	73.75	9.73
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.61	
32 32 23 13-0016	SF		12 To 16' Height "Keystone" Type Modular Retaining Wall System	76.71	10.62
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.71	
32 32 23 13-0017			"Criblock" Type Modular Retaining Wall Systems <small>(32 32 23 13-0001)</small>		
32 32 23 13-0018	SF		Up To 4' Height "Criblock" Type Modular Retaining Wall System	60.00	8.41
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.67	
			<i>For Gravel Backfill Instead Of Earth, Add</i>	0.25	
32 32 23 13-0019	SF		4 To 8' Height "Criblock" Type Modular Retaining Wall System	63.30	8.85
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.88	
			<i>For Gravel Backfill Instead Of Earth, Add</i>	0.25	
32 32 23 13-0020	SF		8 To 12' Height "Criblock" Type Modular Retaining Wall System	66.10	9.73
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.96	
			<i>For Gravel Backfill Instead Of Earth, Add</i>	0.25	
32 32 23 13-0021	SF		12 To 16' Height "Criblock" Type Modular Retaining Wall System	69.06	10.62
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.06	
			<i>For Gravel Backfill Instead Of Earth, Add</i>	0.25	
32 32 23 13-0022			"Versa-Lok" Type Modular Retaining Wall Systems <small>(32 32 23 13-0001)</small>		
32 32 23 13-0023	SF		Up To 4' Height "Versa-Lok" Type Modular Retaining Wall System	53.15	8.41
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.09	
32 32 23 13-0024	SF		4 To 8' Height "Versa-Lok" Type Modular Retaining Wall System	58.71	8.85
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.49	
32 32 23 13-0025	SF		8 To 12' Height "Versa-Lok" Type Modular Retaining Wall System	61.55	9.73
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.58	
32 32 23 13-0026	SF		12 To 16' Height "Versa-Lok" Type Modular Retaining Wall System	64.08	10.62
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.64	
32 32 23 13-0027			Retaining Wall Cap Block Restoration <small>(32 32 23 13-0001)</small>		
			Note: Includes removal of existing cap block and installation of new cap block to match.		
32 32 23 13-0028	LF		Removal And Reinstall Retaining Wall Cap Block And Pins	31.26	
			<i>For >3:1 Sloped Soil At Top, Add</i>	1.60	
32 32 26			Metal Crib Retaining Walls <small>(32 32)</small>		
32 32 26 00-0001			Aluminized Steel Bin <small>(32 32 26)</small>		
			Note: Excludes excavation and backfill.		
32 32 26 00-0002	SF		4' High, 5.5' Deep Aluminized Steel Bin	45.49	4.69
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.07	
			<i>For Galvanized Type, Deduct</i>	-3.61	
32 32 26 00-0003	SF		8' High, 5.5' Deep Aluminized Steel Bin	51.06	4.69
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.54	
			<i>For Galvanized Type, Deduct</i>	-4.16	
32 32 26 00-0004	SF		10' High, 7.7' Deep Aluminized Steel Bin	54.52	5.13
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.77	
			<i>For Galvanized Type, Deduct</i>	-4.43	
32 32 26 00-0005	SF		12' High, 7.7' Deep Aluminized Steel Bin	62.12	5.78
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.30	
			<i>For Galvanized Type, Deduct</i>	-5.06	
32 32 26 00-0006	SF		16' High, 7.7' Deep Aluminized Steel Bin	59.72	6.00
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.07	
			<i>For Galvanized Type, Deduct</i>	-4.78	
32 32 26 00-0007	SF		16' High, 9.9' Deep Aluminized Steel Bin	66.71	6.10
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.64	
			<i>For Galvanized Type, Deduct</i>	-5.46	
32 32 26 00-0008	SF		20' High, 9.9' Deep Aluminized Steel Bin	74.07	6.43
			<i>For >3:1 Sloped Soil At Top, Add</i>	5.19	
			<i>For Galvanized Type, Deduct</i>	-6.11	
32 32 26 00-0009	SF		20' High, 12.1' Deep Aluminized Steel Bin	75.82	6.76
			<i>For >3:1 Sloped Soil At Top, Add</i>	5.30	
			<i>For Galvanized Type, Deduct</i>	-6.24	
32 32 26 00-0010	SF		24' High, 12.1' Deep Aluminized Steel Bin	79.83	6.76
			<i>For >3:1 Sloped Soil At Top, Add</i>	5.64	
			<i>For Galvanized Type, Deduct</i>	-6.63	



		Exterior Improvements	32
		Site Improvements	32 30
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 26 00-0011	SF		24' High, 14.3' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	83.83 5.97 -7.02	6.87
32 32 26 00-0012	SF		28' High, 14.3' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	86.67 6.19 -7.28	6.97
32 32 29 Timber Retaining Walls (32 32)					
32 32 29 00-0001 Wood Post Retaining Walls (32 32 29)					
Note: System includes wood posts installed side-by-side to various heights, and underdrain. Excludes initial site grading, subbase preparation or finish grading.					
32 32 29 00-0002	LF		4" x 4", 1' High, Redwood, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	106.48 4.32	27.87
32 32 29 00-0003	LF		4" x 4", 2' High, Redwood, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	208.20 8.43	54.56
32 32 29 00-0004	LF		4" x 4", 1' High, Cedar, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	99.99 3.77	27.87
32 32 29 00-0005	LF		4" x 4", 2' High, Cedar, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	195.58 7.36	54.56
32 32 29 00-0006	LF		4" x 4", 1' High, Pressure Treated Lumber, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	100.57 4.40	24.34
32 32 29 00-0007	LF		4" x 4", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	197.01 8.65	47.61
32 32 29 00-0008	LF		4" x 4", 1' High, Creosoted Lumber, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	86.15 3.65	21.60
32 32 29 00-0009	LF		4" x 4", 2' High, Creosoted Lumber, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	155.74 6.59	39.11
32 32 29 00-0010	LF		6" x 6", 2' High, Redwood, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	298.04 14.10	66.10
32 32 29 00-0011	LF		6" x 6", 4' High, Redwood, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	590.72 28.20	129.55
32 32 29 00-0012	LF		6" x 6", 2' High, Cedar, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	290.83 13.49	66.10
32 32 29 00-0013	LF		6" x 6", 4' High, Cedar, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	572.69 26.66	129.55
32 32 29 00-0014	LF		6" x 6", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	272.43 14.03	53.68
32 32 29 00-0015	LF		6" x 6", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	542.12 28.06	105.99
32 32 29 00-0016	LF		6" x 6", 2' High, Creosoted Lumber, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	210.33 10.57	42.92
32 32 29 00-0017	LF		6" x 6", 4' High, Creosoted Lumber, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	414.96 21.00	83.99
32 32 29 00-0018	LF		8" x 8", 4' High, Redwood, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	780.53 41.99	143.23
32 32 29 00-0019	LF		8" x 8", 6' High, Redwood, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,461.44 78.77	267.40
32 32 29 00-0020	LF		8" x 8", 4' High, Cedar, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	744.47 38.92	143.23
32 32 29 00-0021	LF		8" x 8", 6' High, Cedar, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,392.93 72.95	267.40
32 32 29 00-0022	LF		8" x 8", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	721.98 33.28	165.24
32 32 29 00-0023	LF		8" x 8", 6' High, Pressure Treated Lumber, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,346.40 61.99	308.56
32 32 29 00-0024	LF		8" x 8", 4' High, Creosoted Lumber, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	564.58 25.29	133.56
32 32 29 00-0025	LF		8" x 8", 6' High, Creosoted Lumber, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,047.11 46.89	247.75
32 32 29 00-0026	LF		4' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	200.31 7.66	55.05
32 32 29 00-0027	LF		6' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	298.67 11.34	82.61
32 32 29 00-0028	LF		8' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	396.93 15.02	110.09
32 32 29 00-0029	LF		4' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	150.59 7.51	31.09
32 32 29 00-0030	LF		6' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	219.59 11.03	44.87
32 32 29 00-0031	LF		8' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	297.85 15.02	60.62
32 32 29 00-0032 Post And Board Retaining Walls (32 32 29)					
Note: System includes all the elements that must go into a wall that resists lateral pressure. System elements include posts and boards, cap, underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.					
32 32 29 00-0033	LF		4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Redwood, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	98.50 5.56	16.52
32 32 29 00-0034	LF		4" x 4" Post, 2' Spacing, 4' High, 2" Planking, Redwood, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	144.80 7.51	28.25
32 32 29 00-0035	LF		6" x 6" Post, 4' Spacing, 5' High 2" Planking, Redwood, Post And Board Retaining Walls..... <i>For >3:1 Sloped Soil At Top, Add</i>	194.63 10.57	35.10

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0036	LF		6" x 6" Post, 3' Spacing, 6' High, 2" Planking, Redwood, Post And Board Retaining Walls.....	270.71	49.76
			<i>For >3:1 Sloped Soil At Top, Add</i>	14.56	
32 32 29 00-0037	LF		6" x 6" With Deadman, 3' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls.....	354.79	64.72
			<i>For >3:1 Sloped Soil At Top, Add</i>	19.16	
32 32 29 00-0038	LF		8" x 8" Post, 2' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls.....	739.33	128.08
			<i>For >3:1 Sloped Soil At Top, Add</i>	41.07	
32 32 29 00-0039	LF		8" x 8" With Deadman, 2' Spacing, 9' High, 2" Planking, Redwood, Post And Board Retaining Walls.....	842.57	141.87
			<i>For >3:1 Sloped Soil At Top, Add</i>	47.51	
32 32 29 00-0040	LF		4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Cedar, Post And Board Retaining Walls	98.96	17.21
			<i>For >3:1 Sloped Soil At Top, Add</i>	5.49	
32 32 29 00-0041	LF		4" x 4" With Deadman, 2' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls.....	172.93	30.60
			<i>For >3:1 Sloped Soil At Top, Add</i>	9.50	
32 32 29 00-0042	LF		6" x 6" Post, 4' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls	170.02	30.02
			<i>For >3:1 Sloped Soil At Top, Add</i>	9.35	
32 32 29 00-0043	LF		6" x 6" Post, 3' Spacing, 5' High 2" Planking, Cedar, Post And Board Retaining Walls	235.85	43.12
			<i>For >3:1 Sloped Soil At Top, Add</i>	12.72	
32 32 29 00-0044	LF		6" x 6" Post, 2' Spacing, 6' High 2" Planking, Cedar, Post And Board Retaining Walls	363.08	68.84
			<i>For >3:1 Sloped Soil At Top, Add</i>	19.16	
32 32 29 00-0045	LF		6 x 6 Post With Deadman, 3' Spacing, 6' High, 2" Planking, Cedar	291.46	52.90
			<i>For >3:1 Sloped Soil At Top, Add</i>	15.78	
32 32 29 00-0046	LF		8 x 8 Post With Deadman, 2' Spacing, 8' High, 2" Planking, Cedar	765.55	132.19
			<i>For >3:1 Sloped Soil At Top, Add</i>	42.60	
32 32 29 00-0047	LF		4 x 4 Post, 4' Spacing, 3' High 2" Planking, Pressure Treated.....	100.58	31.78
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.14	
32 32 29 00-0048	LF		4 x 4 Post, 3' Spacing, 4' High 2" Planking, Pressure Treated.....	147.51	45.17
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.86	
32 32 29 00-0049	LF		4 x 4 Post With Deadman, 2' Space, 5' High, 2" Planking, Pressure Treat.....	223.08	61.99
			<i>For >3:1 Sloped Soil At Top, Add</i>	8.43	
32 32 29 00-0050	LF		6 x 6 Post, 3' Spacing, 6' High, 2" Planking, Pressure Treated.....	402.19	104.61
			<i>For >3:1 Sloped Soil At Top, Add</i>	16.40	
32 32 29 00-0051	LF		6 x 6 Post, 2' Spacing, 7' High, 2" Planking, Pressure Treated.....	411.20	104.61
			<i>For >3:1 Sloped Soil At Top, Add</i>	17.16	
32 32 29 00-0052	LF		6 x 6 Post With Deadman, 3' Spacing 8' High, 2" Planking, Pressure Treat.....	381.35	100.51
			<i>For >3:1 Sloped Soil At Top, Add</i>	15.32	
32 32 29 00-0053	LF		8 x 8 Post With Deadman, 2' Spacing 10' High, 2" Planking, Pressure Treated	909.50	231.23
			<i>For >3:1 Sloped Soil At Top, Add</i>	38.01	
32 32 29 00-0054	LF		4 x 4 Post, 4' Spacing, 3' High Creosoted 2" Planking.....	100.58	31.78
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.14	
32 32 29 00-0055	LF		4 x 4 Post, 3' Spacing, 4' High Creosoted, 2" Planking.....	147.51	45.17
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.86	
32 32 29 00-0056	LF		4 x 4 Post With Deadman, 2' Spacing, 5' High, Creosoted, 2" Planking	223.08	61.99
			<i>For >3:1 Sloped Soil At Top, Add</i>	8.43	
32 32 29 00-0057	LF		6 x 6 Post, 3' Spacing, 6' High Creosoted, 2" Planking.....	282.22	77.15
			<i>For >3:1 Sloped Soil At Top, Add</i>	10.88	
32 32 29 00-0058	LF		6" x 6" Post, 2' Spacing, 7' High, 2" Planking, Creosoted, Post And Board Retaining Walls.....	402.19	104.61
			<i>For >3:1 Sloped Soil At Top, Add</i>	16.40	
32 32 29 00-0059	LF		6" x 6" Post With Deadman, 3' Spacing, 8' High, 2" Planking, Creosoted, Post And Board Retaining Walls	381.35	100.51
			<i>For >3:1 Sloped Soil At Top, Add</i>	15.32	
32 32 29 00-0060	LF		8" x 8" Post With Deadman, 2' Spacing, 10' High, Creosoted, 2" Planking, Post And Board Retaining Walls.....	909.50	231.23
			<i>For >3:1 Sloped Soil At Top, Add</i>	38.01	
32 32 29 00-0061			Wood Tie Retaining Walls, Rod Connector At 4' <small>(32 32 29)</small>		
			Note: The system includes all the elements that must go into a wall that resists lateral pressure. System elements include: wood ties, threaded rod (1/2" diameter), underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.		
32 32 29 00-0062			Redwood <small>(32 32 29 00-0061)</small>		
32 32 29 00-0063	LF		2' High, 6" x 6" Wood Tie Wall	154.29	33.83
			<i>For >3:1 Sloped Soil At Top, Add</i>	7.36	
32 32 29 00-0064	LF		4' High, 6" x 6" Wood Tie Wall Deadman At 6'.....	352.53	77.15
			<i>For >3:1 Sloped Soil At Top, Add</i>	16.86	
32 32 29 00-0065	LF		6' High, 6" x 6" Wood Tie Wall Deadman At 6'.....	527.07	115.66
			<i>For >3:1 Sloped Soil At Top, Add</i>	25.13	
32 32 29 00-0066	LF		4' High, 8" x 8" Wood Tie Wall Deadman At 6'.....	540.81	99.14
			<i>For >3:1 Sloped Soil At Top, Add</i>	29.12	
32 32 29 00-0067	LF		6' High, 8" x 8" Wood Tie Wall Deadman At 6'.....	813.14	148.71
			<i>For >3:1 Sloped Soil At Top, Add</i>	43.83	
32 32 29 00-0068	LF		8' High, 8" x 8" Wood Tie Wall Deadman At 6'.....	1,076.14	195.55
			<i>For >3:1 Sloped Soil At Top, Add</i>	58.23	
32 32 29 00-0069			Cedar <small>(32 32 29 00-0061)</small>		
32 32 29 00-0070	LF		2' High, 6" x 6" Wood Tie Wall	150.68	33.83
			<i>For >3:1 Sloped Soil At Top, Add</i>	7.05	
32 32 29 00-0071	LF		4' High, 6" x 6" Wood Tie Wall Deadman At 6'.....	341.71	77.15
			<i>For >3:1 Sloped Soil At Top, Add</i>	15.94	
32 32 29 00-0072	LF		6' High, 6" x 6" Wood Tie Wall Deadman At 6'.....	512.64	115.66
			<i>For >3:1 Sloped Soil At Top, Add</i>	23.91	
32 32 29 00-0073	LF		4' High, 8" x 8" Wood Tie Wall Deadman At 6'.....	515.57	99.14
			<i>For >3:1 Sloped Soil At Top, Add</i>	26.97	
32 32 29 00-0074	LF		6' High, 8" x 8" Wood Tie Wall Deadman At 6'.....	777.08	148.71
			<i>For >3:1 Sloped Soil At Top, Add</i>	40.76	



		Exterior Improvements	32
		Site Improvements	32 30
		Retaining Walls	32 32

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0075 LF 8' High, 8" x 8" Wood Tie Wall Deadman At 6' <i>For >3:1 Sloped Soil At Top, Add</i>	1,025.66 53.94	195.55
32 32 29 00-0076 Creosoted Wood <small>(32 32 29 00-0061)</small>		
32 32 29 00-0077 LF 2' High, 6" x 8" Wood Tie Wall <i>For >3:1 Sloped Soil At Top, Add</i>	151.26 5.23	44.87
32 32 29 00-0078 LF 4' High, 6" x 8" Wood Tie Wall Deadman At 6' <i>For >3:1 Sloped Soil At Top, Add</i>	345.39 11.80	103.25
32 32 29 00-0079 LF 6' High, 6" x 8" Wood Tie Wall Deadman At 6' <i>For >3:1 Sloped Soil At Top, Add</i>	512.99 17.62	152.81
32 32 29 00-0080 LF 4' High, 7" x 9" Wood Tie Wall Deadman At 6' <i>For >3:1 Sloped Soil At Top, Add</i>	693.45 23.60	207.86
32 32 29 00-0081 LF 6' High, 7" x 9" Wood Tie Wall Deadman At 6' <i>For >3:1 Sloped Soil At Top, Add</i>	1,009.44 34.33	302.80
32 32 29 00-0082 LF 8' High, 7" x 9" Wood Tie Wall Deadman At 6' <i>For >3:1 Sloped Soil At Top, Add</i>	1,340.21 45.67	401.45
32 32 29 00-0083 Pressure Treated Wood <small>(32 32 29 00-0061)</small>		
32 32 29 00-0084 LF 2' High, 6" x 6" Wood Tie Wall <i>For >3:1 Sloped Soil At Top, Add</i>	137.22 6.91	27.96
32 32 29 00-0085 LF 4' High, 6" x 6" Wood Tie Wall Deadman At 6' <i>For >3:1 Sloped Soil At Top, Add</i>	312.38 15.78	63.36
32 32 29 00-0086 LF 6' High, 6" x 6" Wood Tie Wall Deadman At 6' <i>For >3:1 Sloped Soil At Top, Add</i>	467.67 23.60	95.03
32 32 29 00-0087 LF 4' High, 8" x 8" Wood Tie Wall Deadman At 6' <i>For >3:1 Sloped Soil At Top, Add</i>	482.71 21.61	114.30
32 32 29 00-0088 LF 6' High, 8" x 8" Wood Tie Wall Deadman At 6' <i>For >3:1 Sloped Soil At Top, Add</i>	727.35 32.79	170.81
32 32 29 00-0089 LF 8' High, 8" x 8" Wood Tie Wall Deadman At 6' <i>For >3:1 Sloped Soil At Top, Add</i>	962.61 43.22	227.13
32 32 53 Stone Retaining Walls <small>(32 32)</small>		
32 32 53 00-0001 Stone Retaining Walls <small>(32 32 53)</small>		
Note: Construction is either dry set or mortar set. System includes concrete base, crushed stone, underdrain, and backfill. Standard design to have 12" thick top with vertical backside and sloped face at 2" per foot of height. Excludes initial site grading, subbase preparation or finish grading.		
32 32 53 00-0002 Stone Retaining Walls <small>(32 32 53 00-0001)</small>		
Note: Stone at \$16.00/ton.		
32 32 53 00-0003 LF \$16.00/ton 3' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	445.63 4.00	199.23
32 32 53 00-0004 LF \$16.00/ton 4' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	525.57 4.37	237.03
32 32 53 00-0005 LF \$16.00/ton 6' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	690.03 5.12	314.91
32 32 53 00-0006 LF \$16.00/ton 8' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,062.57 6.61	492.37
32 32 53 00-0007 LF \$16.00/ton 10' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,380.21 7.82	644.08
32 32 53 00-0008 LF \$16.00/ton 12' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,712.60 9.22	802.07
32 32 53 00-0009 LF \$16.00/ton 3' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	399.88 4.00	176.40
32 32 53 00-0010 LF \$16.00/ton 4' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	468.92 4.37	208.71
32 32 53 00-0011 LF \$16.00/ton 6' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	606.42 5.12	273.04
32 32 53 00-0012 LF \$16.00/ton 8' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	927.98 6.61	425.10
32 32 53 00-0013 LF \$16.00/ton 10' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,191.42 7.82	549.73
32 32 53 00-0014 LF \$16.00/ton 12' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,479.73 9.22	685.68
32 32 53 00-0015 Stone Retaining Walls <small>(32 32 53 00-0001)</small>		
Note: Stone at \$32.00/ton.		
32 32 53 00-0016 LF \$32.00/ton 3' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	459.87 5.21	199.23
32 32 53 00-0017 LF \$32.00/ton 4' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	545.29 6.05	237.03
32 32 53 00-0018 LF \$32.00/ton 6' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	718.50 7.54	314.91
32 32 53 00-0019 LF \$32.00/ton 8' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,104.19 10.15	492.37
32 32 53 00-0020 LF \$32.00/ton 10' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,437.16 12.66	644.08
32 32 53 00-0021 LF \$32.00/ton 12' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,784.89 15.36	802.07

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 53 00-0022 LF \$32.00/ton 3' High Stone Retaining Wall, Mortar Set.....	414.12	176.40
For >3:1 Sloped Soil At Top, Add	5.21	
32 32 53 00-0023 LF \$32.00/ton 4' High Stone Retaining Wall, Mortar Set.....	488.64	208.71
For >3:1 Sloped Soil At Top, Add	6.05	
32 32 53 00-0024 LF \$32.00/ton 6' High Stone Retaining Wall, Mortar Set.....	634.89	273.04
For >3:1 Sloped Soil At Top, Add	7.54	
32 32 53 00-0025 LF \$32.00/ton 8' High Stone Retaining Wall, Mortar Set.....	969.60	425.10
For >3:1 Sloped Soil At Top, Add	10.15	
32 32 53 00-0026 LF \$32.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,248.37	549.73
For >3:1 Sloped Soil At Top, Add	12.66	
32 32 53 00-0027 LF \$32.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,552.02	685.68
For >3:1 Sloped Soil At Top, Add	15.36	
32 32 53 00-0028 Stone Retaining Walls (32 32 53 00-0001)		
Note: Stone at \$48.00/ton.		
32 32 53 00-0029 LF \$48.00/ton 3' High Stone Retaining Wall, Dry Set.....	475.20	199.23
For >3:1 Sloped Soil At Top, Add	6.52	
32 32 53 00-0030 LF \$48.00/ton 4' High Stone Retaining Wall, Dry Set.....	564.78	237.03
For >3:1 Sloped Soil At Top, Add	7.71	
32 32 53 00-0031 LF \$48.00/ton 6' High Stone Retaining Wall, Dry Set.....	745.88	314.91
For >3:1 Sloped Soil At Top, Add	9.87	
32 32 53 00-0032 LF \$48.00/ton 8' High Stone Retaining Wall, Dry Set.....	1,145.80	492.37
For >3:1 Sloped Soil At Top, Add	13.68	
32 32 53 00-0033 LF \$48.00/ton 10' High Stone Retaining Wall, Dry Set.....	1,494.11	644.08
For >3:1 Sloped Soil At Top, Add	17.50	
32 32 53 00-0034 LF \$48.00/ton 12' High Stone Retaining Wall, Dry Set.....	1,858.26	802.07
For >3:1 Sloped Soil At Top, Add	21.60	
32 32 53 00-0035 LF \$48.00/ton 3' High Stone Retaining Wall, Mortar Set.....	429.45	176.40
For >3:1 Sloped Soil At Top, Add	6.52	
32 32 53 00-0036 LF \$48.00/ton 4' High Stone Retaining Wall, Mortar Set.....	508.35	208.71
For >3:1 Sloped Soil At Top, Add	7.73	
32 32 53 00-0037 LF \$48.00/ton 6' High Stone Retaining Wall, Mortar Set.....	662.27	273.04
For >3:1 Sloped Soil At Top, Add	9.87	
32 32 53 00-0038 LF \$48.00/ton 8' High Stone Retaining Wall, Mortar Set.....	1,011.21	425.10
For >3:1 Sloped Soil At Top, Add	13.68	
32 32 53 00-0039 LF \$48.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,305.32	549.73
For >3:1 Sloped Soil At Top, Add	17.50	
32 32 53 00-0040 LF \$48.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,625.39	685.68
For >3:1 Sloped Soil At Top, Add	21.60	
32 32 53 00-0041 Stone Retaining Walls (32 32 53 00-0001)		
Note: Stone at \$64.00/ton.		
32 32 53 00-0042 LF \$64.00/ton 3' High Stone Retaining Wall, Dry Set.....	490.54	199.23
For >3:1 Sloped Soil At Top, Add	7.82	
32 32 53 00-0043 LF \$64.00/ton 4' High Stone Retaining Wall, Dry Set.....	562.81	237.03
For >3:1 Sloped Soil At Top, Add	7.54	
32 32 53 00-0044 LF \$64.00/ton 6' High Stone Retaining Wall, Dry Set.....	775.45	314.91
For >3:1 Sloped Soil At Top, Add	12.38	
32 32 53 00-0045 LF \$64.00/ton 8' High Stone Retaining Wall, Dry Set.....	1,189.61	492.37
For >3:1 Sloped Soil At Top, Add	17.41	
32 32 53 00-0046 LF \$64.00/ton 10' High Stone Retaining Wall, Dry Set.....	1,553.25	644.08
For >3:1 Sloped Soil At Top, Add	22.53	
32 32 53 00-0047 LF \$64.00/ton 12' High Stone Retaining Wall, Dry Set.....	1,932.74	802.07
For >3:1 Sloped Soil At Top, Add	27.93	
32 32 53 00-0048 LF \$64.00/ton 3' High Stone Retaining Wall, Mortar Set.....	444.79	176.40
For >3:1 Sloped Soil At Top, Add	7.82	
32 32 53 00-0049 LF \$64.00/ton 4' High Stone Retaining Wall, Mortar Set.....	528.06	208.71
For >3:1 Sloped Soil At Top, Add	9.40	
32 32 53 00-0050 LF \$64.00/ton 6' High Stone Retaining Wall, Mortar Set.....	691.84	273.04
For >3:1 Sloped Soil At Top, Add	12.38	
32 32 53 00-0051 LF \$64.00/ton 8' High Stone Retaining Wall, Mortar Set.....	1,055.02	425.10
For >3:1 Sloped Soil At Top, Add	17.41	
32 32 53 00-0052 LF \$64.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,364.46	549.73
For >3:1 Sloped Soil At Top, Add	22.53	
32 32 53 00-0053 LF \$64.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,699.87	685.68
For >3:1 Sloped Soil At Top, Add	27.93	
32 35 Screening Devices (32 30)		
32 35 16 Sound Barriers (32 35)		
32 35 16 00-0001 Precast Concrete Roadway Sound Barriers And Support Including Caps For Columns (32 35 16)		
Note: Installed on steel supports. Finish to be determined by owner (ribbed, patterned, stamped, exposed aggregate or smooth)		
32 35 16 00-0002 4" Thick (32 35 16 00-0001)		
32 35 16 00-0003 LF 6' High x 4" Thick Precast Concrete Sound Walls.....	167.52	23.44
32 35 16 00-0004 LF 7' High x 4" Thick Precast Concrete Sound Walls.....	181.20	26.16
32 35 16 00-0005 LF 8' High x 4" Thick Precast Concrete Sound Walls.....	197.26	28.34
32 35 16 00-0006 LF 9' High x 4" Thick Precast Concrete Sound Walls.....	210.47	30.52



		Exterior Improvements	32
		Site Improvements	32 30
		Screening Devices	32 35

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 35 16 00-0007	LF		10' High x 4" Thick Precast Concrete Sound Walls	222.59	32.71
32 35 16 00-0008	LF		11' High x 4" Thick Precast Concrete Sound Walls	239.83	33.80
32 35 16 00-0009	LF		12' High x 4" Thick Precast Concrete Sound Walls	256.62	35.42
32 35 16 00-0010			6" Thick <small>(32 35 16 00-0001)</small>		
32 35 16 00-0011	LF		6' High x 6" Thick Precast Concrete Sound Walls	199.91	27.25
32 35 16 00-0012	LF		7' High x 6" Thick Precast Concrete Sound Walls	216.20	30.52
32 35 16 00-0013	LF		8' High x 6" Thick Precast Concrete Sound Walls	235.37	33.80
32 35 16 00-0014	LF		9' High x 6" Thick Precast Concrete Sound Walls	251.12	35.97
32 35 16 00-0015	LF		10' High x 6" Thick Precast Concrete Sound Walls	265.59	38.15
32 35 16 00-0016	LF		11' High x 6" Thick Precast Concrete Sound Walls	286.20	39.78
32 35 16 00-0017	LF		12' High x 6" Thick Precast Concrete Sound Walls	306.28	41.42
32 35 16 00-0018			8" Thick <small>(32 35 16 00-0001)</small>		
32 35 16 00-0019	LF		6' High x 8" Thick Precast Concrete Sound Walls	241.48	32.71
32 35 16 00-0020	LF		7' High x 8" Thick Precast Concrete Sound Walls	261.08	35.97
32 35 16 00-0021	LF		8' High x 8" Thick Precast Concrete Sound Walls	284.22	39.24
32 35 16 00-0022	LF		9' High x 8" Thick Precast Concrete Sound Walls	303.20	42.51
32 35 16 00-0023	LF		10' High x 8" Thick Precast Concrete Sound Walls	320.68	45.24
32 35 16 00-0024	LF		11' High x 8" Thick Precast Concrete Sound Walls	345.68	46.87
32 35 16 00-0025	LF		12' High x 8" Thick Precast Concrete Sound Walls	370.06	49.05
32 35 16 00-0026			Redwood Top <small>(32 35 16 00-0001)</small>		
32 35 16 00-0027	LF		2" x 6" Redwood, Construction Grade/Rough.....	5.28	1.12
32 35 16 00-0028	LF		2" x 8" Redwood, Construction Grade/Rough.....	6.03	1.45
32 35 16 00-0029	LF		2" x 10" Redwood, Construction Grade/Rough.....	9.43	1.79
32 35 16 00-0030	LF		2" x 12" Redwood, Construction Grade/Rough.....	11.37	2.24
32 35 16 00-0031	LF		2" x 6" Redwood, Con Heart/Smooth.....	6.56	1.12
32 35 16 00-0032	LF		2" x 8" Redwood, Con Heart/Smooth.....	9.54	1.45
32 35 16 00-0033	LF		2" x 10" Redwood, Con Heart/Smooth.....	12.69	1.79
32 35 16 00-0034	LF		2" x 12" Redwood, Con Heart/Smooth.....	15.25	2.24
32 39			Manufactured Site Specialties <small>(32 39)</small>		
<p>Note: Excludes coredrilling, augering, concrete footing and compaction See CSI section 02 41 19 13-0081 for concrete core drilling, 02 41 19 13-0219 for asphalt core drilling, 32 31 13 13-0002 for augering, 32 31 13 13-0019 for concrete footing, 32 31 13 13-0045 for compaction of earth.</p>					
32 39 13			Manufactured Metal Bollards <small>(32 39)</small>		
32 39 13 00-0001			Metal Pipe Bollards <small>(32 39 13)</small>		
<p>Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill for post and post holes.</p>					
32 39 13 00-0002			Steel Pipe Bollard, Schedule 40 Pipe, Painted Or Powder Coated <small>(32 39 13 00-0001)</small>		
32 39 13 00-0003	LF		4" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	56.47	11.86
			<i>For Galvanized Steel, Add</i>	5.57	
			<i>For 304 Stainless Steel, Add</i>	44.20	
			<i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i>	118.92	
			<i>For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add</i>	83.37	
			<i>For Schedule 80, Add</i>	7.28	
			<i>For Concrete Fill, Add Per LF Of Pipe Bollard</i>	9.16	
32 39 13 00-0004	LF		6" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	75.38	11.86
			<i>For Galvanized Steel, Add</i>	8.78	
			<i>For 304 Stainless Steel, Add</i>	69.73	
			<i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i>	118.92	
			<i>For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add</i>	83.37	
			<i>For Schedule 80, Add</i>	10.12	
			<i>For Concrete Fill, Add Per LF Of Pipe Bollard</i>	12.98	
32 39 13 00-0005	LF		8" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	106.26	14.84
			<i>For Galvanized Steel, Add</i>	13.02	
			<i>For 304 Stainless Steel, Add</i>	103.41	
			<i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i>	156.64	
			<i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	124.98	
			<i>For Schedule 80, Add</i>	14.46	
			<i>For Concrete Fill, Add Per LF Of Pipe Bollard</i>	17.34	
32 39 13 00-0006	LF		10" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	140.40	17.80
			<i>For Galvanized Steel, Add</i>	17.82	
			<i>For 304 Stainless Steel, Add</i>	141.49	
			<i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i>	180.36	
			<i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	136.33	
			<i>For Schedule 80, Add</i>	19.28	
			<i>For Concrete Fill, Add Per LF Of Pipe Bollard</i>	21.23	
32 39 13 00-0007	LF		12" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	177.51	23.73
			<i>For Galvanized Steel, Add</i>	22.11	
			<i>For 304 Stainless Steel, Add</i>	175.58	
			<i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i>	240.21	
			<i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	187.76	
			<i>For Schedule 80, Add</i>	24.25	
			<i>For Concrete Fill, Add Per LF Of Pipe Bollard</i>	24.81	

32 Exterior Improvements**32 30 Site Improvements****32 39 Manufactured Site Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 39 13 00-0008			Cast Bollards (32 39 13 00-0001)		
32 39 13 00-0009	EA		36" Cast Aluminum Bollard, Black Powder Coat Finish Note: 8-1/2" diameter, embedded mounting plate, all colors.	1,745.37	71.18
32 39 13 00-0010	EA		36" Cast Aluminum Removable Bollard, Black Powder Coat Finish Note: 8-1/2" diameter, embedded mounting plate, lockable, all colors.	2,950.86	71.18
32 39 13 00-0011	EA		36" Cast Iron Bollard, Powder Coat Finish Note: 8-1/2" diameter, embedded mounting plate, all colors.	1,478.85	71.18
32 39 13 00-0012	EA		36" Cast Iron Removable Bollard, Black Powder Coat Finish Note: 8-1/2" diameter, embedded mounting plate, lockable, all colors.	2,691.47	71.18
32 39 23			Manufactured Concrete Bollards (32 39)		
32 39 23 00-0001			Concrete Bollards (32 39 23) Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
32 39 23 00-0002			Concrete Bollard, Exposed Aggregate (32 39 23 00-0001)		
32 39 23 00-0003	EA		12" x 12" x 30" High Concrete Bollard, Light Sandblast Note: Surface mounted with anchor bolts embedded into grout pockets.	613.18	94.90
32 39 23 00-0004	EA		12" Diameter x 30" High Concrete Bollard, Light Sandblast Note: Surface mounted with anchor bolts embedded into grout pockets.	613.18	94.90
32 39 25			Manufactured Wood Bollards (32 39)		
32 39 25 00-0001			Wood Bollards (32 39 25) Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
32 39 25 00-0002			Wood Bollard, Pressure Treated Timber (32 39 25 00-0001)		
32 39 25 00-0003	LF		4" x 4", Pressure Treated Wood Bollard <i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	23.78 83.37	9.49
32 39 25 00-0004	LF		6" x 6", Pressure Treated Wood Bollard <i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	28.83 83.37	9.49
32 39 25 00-0005	LF		8" x 8", Pressure Treated Wood Bollard <i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	38.88 126.10	10.68
32 39 25 00-0006	LF		10" x 10", Pressure Treated Wood Bollard <i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	55.80 139.74	14.24
32 39 25 00-0007	LF		12" x 12", Pressure Treated Wood Bollard <i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	77.30 197.01	18.98
32 39 27			Manufactured Plastic Bollards (32 39)		
32 39 27 00-0001			Plastic Bollards (32 39 27) See CSI section 32 31 13 13-0001 for augering and filling holes for bollards., 32 31 13 13-0018 for concrete fill.		
32 39 27 00-0002			Recycled Plastic Bollards (32 39 27 00-0001)		
32 39 27 00-0003	EA		6" x 6" x 33" Surface Mounted Recycled Plastic Bollard Note: Includes anchor bolts.	323.36	47.45
32 39 27 00-0004	EA		6" Diameter x 6' Steel Reinforced Recycled Plastic Bollard.....	526.75	47.45
32 39 27 00-0005			Plastic Bollard Covers (32 39 27 00-0001)		
32 39 27 00-0006	EA		4" x 60", 1/8" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe <i>For Reflective Tape, Add</i>	80.98 9.60	10.26
32 39 27 00-0007	EA		6" x 60", 1/8" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe <i>For Reflective Tape, Add</i>	87.48 9.60	11.29
32 39 27 00-0008	EA		3" x 60", 1/4" Thick LDPE Bollard Cover, Fits 3" To 3 1/2" Pipe <i>For Reflective Tape, Add</i>	111.21 9.60	10.26
32 39 27 00-0009	EA		3-1/2" x 52", 1/4" Thick LDPE Bollard Cover, Fits 3 -1/2" To 4" Pipe <i>For Reflective Tape, Add</i>	111.21 9.60	10.26
32 39 27 00-0010	EA		3-1/2" x 68", 1/4" Thick LDPE Bollard Cover, Fits 3-1/2" To 4" Pipe <i>For Reflective Tape, Add</i>	125.32 9.60	10.26
32 39 27 00-0011	EA		4" x 52", 1/4" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe <i>For Reflective Tape, Add</i>	111.21 9.60	10.26
32 39 27 00-0012	EA		4" x 60", 1/4" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe <i>For Reflective Tape, Add</i>	113.23 9.60	10.26
32 39 27 00-0013	EA		5" x 52", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe <i>For Reflective Tape, Add</i>	111.21 9.60	10.26
32 39 27 00-0014	EA		5" x 60", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe <i>For Reflective Tape, Add</i>	113.23 9.60	10.26
32 39 27 00-0015	EA		5" x 72", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe <i>For Reflective Tape, Add</i>	159.58 9.60	10.26
32 39 27 00-0016	EA		6" x 52", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe <i>For Reflective Tape, Add</i>	113.26 9.60	11.29
32 39 27 00-0017	EA		6" x 65", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe <i>For Reflective Tape, Add</i>	145.51 9.60	11.29
32 39 27 00-0018	EA		6" x 84", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe <i>For Reflective Tape, Add</i>	166.08 9.60	11.29
32 39 27 00-0019	EA		7" x 56", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe <i>For Reflective Tape, Add</i>	139.50 9.60	12.32



		Exterior Improvements	32
		Site Improvements	32 30
		Manufactured Site Specialties	32 39

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 39 27 00-0020	EA		8" x 52", 1/4" Thick LDPE Bollard Cover, Fits 7" To 7-5/16" Pipe..... <i>For Reflective Tape, Add</i>	151.59 9.60	12.32
32 39 27 00-0021	EA		8" x 69", 1/4" Thick LDPE Bollard Cover, Fits 8" To 8-5/8" Pipe..... <i>For Reflective Tape, Add</i>	151.59 9.60	12.32
32 39 27 00-0022	EA		10" x 69", 1/4" Thick LDPE Bollard Cover, Fits 10" To 11" Pipe..... <i>For Reflective Tape, Add</i>	206.02 9.60	12.32
32 39 29 Manufactured Stone Bollards (32 39)					
32 39 29 00-0001			Stone Bollards (32 39 29) See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
32 39 29 00-0002			Granite Bollards (32 39 29 00-0001)		
32 39 29 00-0003	EA		16" x 16" x 30" Granite Bollard, Smooth Matt Finish..... Note: Surface mounted with anchors embedded into grout pockets.	1,194.33	118.63
32 39 29 00-0004	EA		16" x 16" x 54" Granite Bollard, Smooth Matt Finish..... Note: Surface mounted with anchors embedded into grout pockets.	1,515.45	166.09
32 39 29 00-0005	EA		12" x 12" x 24" Granite Bollard, Rough Finish, Pyramid Top..... Note: Surface mounted with anchors embedded into grout pockets.	748.86	118.63
32 39 29 00-0006	EA		12" Diameter x 18" Granite Bollard, Smooth Matt Finish..... Note: Flat Top, surface mounted with anchors embedded into grout pockets.	1,094.67	94.90
32 39 29 00-0007	EA		24" x 24" x 20" Granite Bollard, Octagonal Cross Section..... Note: Smooth matt finish, flat top, surface mounted with anchors embedded into grout pockets.	1,625.41	94.90
32 80 Irrigation (32)					
32 84 Planting Irrigation (32 80)					
32 84 13 Drip Irrigation (32 84)					
32 84 13 00-0001 Drip Emitter Irrigation Devices (32 84 13)					
32 84 13 00-0002 Drip Emitter Irrigation Valves (32 84 13 00-0001)					
32 84 13 00-0003	EA		1/2" Air/Vacuum Relief Valve For Drip Emitter Irrigation Systems (Rain Bird® ARV050).....	46.03	11.13
32 84 13 00-0004	EA		1", Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV100).....	71.54	11.13
32 84 13 00-0005	EA		3/4", Anti-Siphon, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV075).....	69.76	11.13
32 84 13 00-0006	EA		3/4", Latching Solenoid, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV075TBOS).....	93.73	11.13
32 84 13 00-0007 Drip Emitter Irrigation Filters (32 84 13 00-0001)					
32 84 13 00-0008	EA		3/4" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-075).....	144.39	11.13
32 84 13 00-0009	EA		1" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-100).....	145.71	11.13
32 84 13 00-0010	EA		3/4" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY075MPTX).....	57.17	11.13
32 84 13 00-0011	EA		1" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY100MPTX).....	58.23	11.13
32 84 13 00-0012	EA		1" Inlet/Outlet, Pressure Regulating, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® PRB-QCHK-100).....	156.67	11.13
32 84 13 00-0013	EA		3/4" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF075RBY).....	73.04	11.13
32 84 13 00-0014	EA		1" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF100RBY).....	81.30	11.13
32 84 13 00-0015 Drip Emitter Irrigation Pressure Regulators (32 84 13 00-0001)					
32 84 13 00-0016	EA		3/4", 6 To 300 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-L30X-075).....	56.10	11.13
32 84 13 00-0017	EA		3/4", 120 To 600 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M30X-075).....	56.10	11.13
32 84 13 00-0018	EA		3/4", 120 To 600 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-075).....	56.10	11.13
32 84 13 00-0019	EA		1", 120 To 900 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-100).....	64.79	11.13
32 84 13 00-0020 Drip Emitter Irrigation Tubing (32 84 13 00-0001)					
Note: Includes surface installation and covering of tubing with existing pine straw, pine bark etc.					
32 84 13 00-0021	LF		1/4", Landscape Dripline With Extruded Non-Pressure Compensating Drip Emitters (Rain Bird® LDQ0806100).....	4.12	1.56
32 84 13 00-0022	LF		1/2", Landscape Dripline With Extruded Pressure Compensating Drip Emitters (Rain Bird® XFD0612100).....	3.89	1.78
32 84 13 00-0023	LF		1/4", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XQ100)..... <i>For Shallow Trenching And Backfill By Hand, Add</i>	6.38	1.56
32 84 13 00-0024	LF		1/2", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XT700100)..... <i>For Shallow Trenching And Backfill By Hand, Add</i>	3.87 6.92	1.78
32 84 13 00-0025 Drip Emitter Irrigation Fittings (32 84 13 00-0001)					
32 84 13 00-0026	EA		1/4", Barbed Coupling For Irrigation Tubing (Rain Bird® XBF1CONN).....	2.94	
32 84 13 00-0027	EA		1/4", Barbed Elbow For Irrigation Tubing (Rain Bird® XBF2EL).....	2.97	
32 84 13 00-0028	EA		1/4", Barbed Tee For Irrigation Tubing (Rain Bird® XBF3TEE).....	3.02	
32 84 13 00-0029	EA		1/4", Self Piercing Barbed Coupling For Irrigation Tubing (Rain Bird® SPB025).....	3.17	
32 84 13 00-0030	EA		1/4", Plug For Irrigation Tubing (Rain Bird® EMAGPX).....	2.92	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 13 00-0031 EA 17mm, Barbed Coupling For Irrigation Tubing (Rain Bird® XFFCOUP)	3.10	
For Compression Fitting, Add	0.32	
32 84 13 00-0032 EA 17mm, Barbed Elbow For Irrigation Tubing (Rain Bird® XFF-ELBOW)	3.19	
For Compression Fitting, Add	0.41	
32 84 13 00-0033 EA 17mm, Barbed Tee For Irrigation Tubing (Rain Bird® XFF-TEE)	3.23	
For Compression Fitting, Add	0.45	
32 84 13 00-0034 EA 17mm, Barbed Male Adapter For Irrigation Tubing (Rain Bird® XFFMA050)	3.25	
For Compression Fitting, Add	0.47	
32 84 13 00-0035 EA 17mm, Barbed Cross For Irrigation Tubing (Rain Bird® XFDCROSS)	3.44	
For Compression Fitting, Add	0.66	
32 84 13 00-0036 EA 1/2", Plug For Irrigation Tubing (Rain Bird® MDCFCAP)	3.66	
32 84 13 00-0037 EA 12 Gauge, Galvanized Stake For Irrigation Tubing (Rain Bird® TDS050BEND)	1.81	
32 84 13 00-0038 Drip Emitters (32 84 13 00-0001)		
32 84 13 00-0039 EA 0.5 To 2 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB20PC)	6.04	
32 84 13 00-0040 EA 5 To 24 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® PC24)	6.89	
32 84 13 00-0041 EA 0.5 To 2 GPH, Six Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB056)	14.31	
32 84 13 00-0042 Drip Emitter Irrigation Micro-Bubblers, Sprays And Misters (32 84 13 00-0001)		
32 84 13 00-0043 EA Adjustable Stream Bubbler With Spike For Drip Emitter Irrigation Systems (Rain Bird® SXB360SPYK)	23.57	10.01
32 84 13 00-0044 EA Adjustable Micro Spray With Spike For Drip Emitter Irrigation Systems (Rain Bird® XS360TSPYK)	23.61	10.01
32 84 13 00-0045 EA 12" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP12 With SQFUL)	25.94	10.01
32 84 13 00-0046 EA 24" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP24 With SQFUL)	26.19	10.01
32 84 13 00-0047 EA 4" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-400X With SQFUL)	37.84	13.13
Note: Includes nozzle.		
32 84 13 00-0048 EA 6" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-600X With SQFUL)	40.85	13.13
Note: Includes nozzle.		
32 84 13 00-0049 EA 12" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP1200X With SQFUL)	41.28	13.13
Note: Includes nozzle.		
32 84 13 00-0050 Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS) (32 84 13 00-0001)		
Note: Brown or purple tubing. Includes layout, trenching 4" to 6", installing tubing and backfilling trench.		
32 84 13 00-0051 LF 0.536" ID, 0.634" OD, Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS Copper Shield)	4.47	1.94
32 84 23 Underground Sprinklers (32 84)		
32 84 23 00-0001 Sprinkler Heads (32 84 23)		
32 84 23 00-0002 Spray Sprinkler Heads (32 84 23 00-0001)		
Note: Includes plastic riser and case. Includes spray, variable arc or bubbler nozzle with partial or full circle coverage.		
32 84 23 00-0003 EA 2" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1802P)	33.42	12.29
For Rotary Nozzle, Add	3.25	
32 84 23 00-0004 EA 4" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1804P)	31.72	12.29
For Rotary Nozzle, Add	3.25	
32 84 23 00-0005 EA 6" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1806P)	38.03	12.29
For Rotary Nozzle, Add	3.25	
32 84 23 00-0006 EA 12" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1812P)	43.32	12.29
For Rotary Nozzle, Add	3.25	
32 84 23 00-0007 EA 4" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1804-SAM)	34.09	12.29
For Rotary Nozzle, Add	3.25	
32 84 23 00-0008 EA 6" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1806-SAM)	42.98	12.29
For Rotary Nozzle, Add	3.25	
32 84 23 00-0009 EA 12" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1812-SAM)	47.26	12.29
For Rotary Nozzle, Add	3.25	
32 84 23 00-0010 EA 4" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1804-PRS)	36.63	12.29
For Rotary Nozzle, Add	3.25	
32 84 23 00-0011 EA 6" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1806-PRS)	44.73	12.29
For Rotary Nozzle, Add	3.25	
32 84 23 00-0012 EA 12" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1812-PRS)	48.72	12.29
For Rotary Nozzle, Add	3.25	
32 84 23 00-0013 EA 4" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1804-SAM-PRS)	37.64	12.29
For Rotary Nozzle, Add	3.25	
32 84 23 00-0014 EA 6" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1806-SAM-PRS)	50.07	12.29
For Rotary Nozzle, Add	3.25	
32 84 23 00-0015 EA 12" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1812-SAM-PRS)	54.01	12.29
For Rotary Nozzle, Add	3.25	
32 84 23 00-0016 EA Bubbler Head With Screen, 1/2" NPT (Rain Bird® 1300)	28.40	12.29
For Rotary Nozzle, Add	3.25	
32 84 23 00-0017 EA Pressure Compensating Bubbler With Screen, 1/2" NPT (Rain Bird® 1400)	32.35	12.29
32 84 23 00-0018 Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0001)		
Note: Maximum spacing is equivalent to maximum radius.		



		Exterior Improvements	32
		Irrigation	32 80
		Planting Irrigation	32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0019 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Heads <small>(32 84 23 00-0018)</small> Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		
32 84 23 00-0020 EA 4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 3504PC)	45.91	12.29
For Non-Potable Cover, Add	2.00	
32 84 23 00-0021 EA 4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 3504-PC-SAM)	47.32	12.29
For Non-Potable Cover, Add	2.00	
32 84 23 00-0022 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Heads <small>(32 84 23 00-0018)</small> Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		
32 84 23 00-0023 EA 4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5004-PLPC)	42.53	12.29
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0024 EA 6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5006-PLPC)	57.73	12.29
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0025 EA 4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5004-PLPCS)	45.35	12.29
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0026 EA 6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5006-PLPCS)	59.98	12.29
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0027 EA 4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Pressure Regulator (Rain Bird® 5004+PCR)	46.47	12.29
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0028 EA 4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5004+FCSR)	48.72	12.29
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0029 EA 6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5006+PCSR)	63.35	12.29
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0030 EA 12" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5012+PCSR)	72.36	12.29
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0031 EA Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5000S-PLPCS)	48.44	12.29
For Non-Potable Cover, Add	2.00	
32 84 23 00-0032 EA Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5000S+PCSR)	57.45	12.29
For Non-Potable Cover, Add	2.00	
32 84 23 00-0033 1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Heads <small>(32 84 23 00-0018)</small> Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		
32 84 23 00-0034 EA 4" Pop-Up Height, 1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® F4PC)	78.83	12.29
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
For Stainless Steel Riser And High Speed Rotor, Add	41.42	
32 84 23 00-0035 1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Heads <small>(32 84 23 00-0018)</small> Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		
32 84 23 00-0036 EA 5" Pop-Up Height, 1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 8005)	111.47	12.29
For Non-Potable Cover, Add	2.00	
For Stainless Steel Riser, Add	9.00	
32 84 23 00-0037 Impact-Drive Sprinkler Heads <small>(32 84 23 00-0001)</small> Note: Includes partial or full circle coverage. Maximum spacing is equivalent to maximum radius.		
32 84 23 00-0038 EA 1/2" Inlet, Up To 45' Spacing, Pop-Up, Impact-Drive Rotary Sprinkler Head (Rain Bird® 2045A-08)	63.07	12.29
For Non-Potable Cover, Add	2.00	
32 84 23 00-0039 EA 1/2" Inlet, Up To 45' Spacing, Riser Mounted, Plastic Body, Impact-Drive Sprinkler Head (Rain Bird® 2045-PJ08)	49.57	12.29
32 84 23 00-0040 EA 3/4" Inlet, Up To 51' Spacing, Riser Mounted, Brass/Bronze Body, Impact-Drive Sprinkler Head (Rain Bird® 35A-ADJ-TNTB)	94.56	12.29
32 84 23 00-0041 Electric Remote Control Irrigation Valves <small>(32 84 23)</small>		
32 84 23 00-0042 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® DV Series) <small>(32 84 23 00-0041)</small> Note: 15 to 150 PSI.		
32 84 23 00-0043 EA 3/4", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 75DV)	140.87	51.24
32 84 23 00-0044 EA 1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DV)	140.87	51.24
32 84 23 00-0045 EA 1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DVSS)	155.51	58.40

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0046 EA 1", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Angle Valve (Rain Bird® 100DVA)	142.00	51.24
32 84 23 00-0047 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves With Flow Control (Rain Bird® DVF Series) (32 84 23 00-0041) Note: 15 to 150 PSI.		
32 84 23 00-0048 EA 1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVF)	142.00	51.24
32 84 23 00-0049 EA 1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFSS)	157.20	58.40
32 84 23 00-0050 EA 1", 0.2 To 40 GPM, Male x Barb, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFMB)	158.32	58.40
32 84 23 00-0051 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® PEB Series) (32 84 23 00-0041) Note: 20 to 200 PSI.		
32 84 23 00-0052 EA 1", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100PEB)	232.03	51.24
32 84 23 00-0053 EA 1-1/2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 150PEB)	271.42	51.24
32 84 23 00-0054 EA 2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 200PEB)	322.06	51.24
32 84 23 00-0055 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® PEB PRS-D Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0056 EA 1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100PEB PRS-D)	330.67	57.59
32 84 23 00-0057 EA 1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150PEB PRS-D)	370.06	57.59
32 84 23 00-0058 EA 2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200PEB PRS-D)	420.71	57.59
32 84 23 00-0059 20 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator And Scrubber Valve (Rain Bird® PESB PRS-D Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0060 EA 1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 100PESB PRS-D)	386.94	57.59
32 84 23 00-0061 EA 1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 150PESB PRS-D)	426.33	57.59
32 84 23 00-0062 EA 2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 200PESB PRS-D)	476.98	57.59
32 84 23 00-0063 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves (Hunter IBV Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure.		
32 84 23 00-0064 EA 1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B)	344.06	51.24
32 84 23 00-0065 EA 1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B)	525.15	51.24
32 84 23 00-0066 EA 2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B)	541.52	51.24
32 84 23 00-0067 EA 3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B)	1,268.89	69.17
32 84 23 00-0068 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Rain Bird® EFB-CP Series) (32 84 23 00-0041) Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0069 EA 1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 100EFB-CP)	318.46	57.59
32 84 23 00-0070 EA 1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 125EFB-CP)	372.31	57.59
32 84 23 00-0071 EA 1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 150EFB-CP)	430.78	57.59
32 84 23 00-0072 EA 2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 200EFB-CP)	507.76	57.59
32 84 23 00-0073 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Hunter IBV FS Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0074 EA 1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B-FS)	419.68	57.59
32 84 23 00-0075 EA 1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B-FS)	634.53	57.59
32 84 23 00-0076 EA 2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B-FS)	652.95	57.59
32 84 23 00-0077 EA 3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B-FS)	1,354.80	57.59
32 84 23 00-0078 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV ACCU-SYNC Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		



		Exterior Improvements	32
		Irrigation	32 80
		Planting Irrigation	32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0079 EA 1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-101G-B ACCU-SYNC-ADJ).....	425.91	51.24
32 84 23 00-0080 EA 1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-151G-B ACCU-SYNC-ADJ).....	606.99	51.24
32 84 23 00-0081 EA 2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-201G-B ACCU-SYNC-ADJ).....	623.36	51.24
32 84 23 00-0082 EA 3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-301G-B ACCU-SYNC-ADJ).....	1,350.74	69.17
32 84 23 00-0083 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® EFB-CP PRS-D Series) (32 84 23 00-0041)		
Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0084 EA 1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100EFB-CP PRS-D).....	402.87	57.59
32 84 23 00-0085 EA 1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 125EFB-CP PRS-D).....	456.72	57.59
32 84 23 00-0086 EA 1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150EFB-CP PRS-D).....	515.18	57.59
32 84 23 00-0087 EA 2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200EFB-CP PRS-D).....	592.16	57.59
32 84 23 00-0088 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV FS ACCU-SYNC Series) (32 84 23 00-0041)		
Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0089 EA 1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-101G-B-FS ACCU-SYNC-ADJ).....	501.53	57.59
32 84 23 00-0090 EA 1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-151G-B-FS ACCU-SYNC-ADJ).....	716.38	57.59
32 84 23 00-0091 EA 2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-201G-B-FS ACCU-SYNC-ADJ).....	734.80	57.59
32 84 23 00-0092 EA 3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-301G-B-FS ACCU-SYNC-ADJ).....	1,436.64	57.59
32 84 23 00-0093 Other Electric Remote Control Valves/Accessories (32 84 23 00-0041)		
32 84 23 00-0094 EA Pressure Regulator Module For Electric Remote Control Valves (Rain Bird® PRS-DIAL).....	125.40	
32 84 23 00-0095 Remote Control Valve Assemblies (32 84 23 00-0041)		
Note: Includes excavation and disposal of soil, installation of 6" minimum depth gravel or crushed rock, woven wire cloth, valve, fittings, valve box (Carson 1419-12), as detailed in the Caltrans Standard Plans 2010 page 224.		
32 84 23 00-0096 EA 1" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	502.08	128.10
32 84 23 00-0097 EA 1-1/2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	541.47	128.10
32 84 23 00-0098 EA 2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	592.12	128.10
32 84 23 00-0099 EA 1" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12).....	558.35	128.10
Note: Purple components for use with recycled water		
32 84 23 00-0100 EA 1-1/2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12).....	597.74	128.10
Note: Purple components for use with recycled water		
32 84 23 00-0101 EA 2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12).....	648.39	128.10
Note: Purple components for use with recycled water		
32 84 23 00-0102 EA 1" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12).....	574.28	128.10
Note: Purple components for use with recycled water		
32 84 23 00-0103 EA 1-1/2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12).....	686.59	128.10
Note: Purple components for use with recycled water		
32 84 23 00-0104 EA 2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12).....	763.57	128.10
Note: Purple components for use with recycled water		
32 84 23 00-0105 Irrigation Valve Boxes (32 84 23)		
Note: Includes lid.		
32 84 23 00-0106 EA 6" Round Irrigation Valve Box With Lid (Rain Bird® PVB-6RND).....	86.37	36.89
32 84 23 00-0107 EA 7" Round Irrigation Valve Box With Lid (Rain Bird® VB-7RND).....	99.66	36.89
32 84 23 00-0108 EA 10" Round Irrigation Valve Box With Lid (Rain Bird® VB-10RND).....	130.76	48.57
32 84 23 00-0109 EA 21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-STD).....	226.68	70.91
32 84 23 00-0110 EA 21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-STDH).....	231.46	70.91
32 84 23 00-0111 EA 26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-JMB).....	265.76	70.91
32 84 23 00-0112 EA 26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-JMBH).....	269.85	70.91
32 84 23 00-0113 EA 33.1" x 23.8" x 15" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-SPRH).....	465.88	70.91

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0114 EA 40.3" x 27.1" x 18" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-MAXH)	719.79	70.91
32 84 23 00-0115 EA Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Concrete Lid	413.42	118.92
For 12" Extension, Add	90.74	
32 84 23 00-0116 EA Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Steel Lid	662.84	118.92
For 12" Extension, Add	90.74	
32 84 23 00-0117 EA 12" x 17" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1419-12)	185.34	61.49
32 84 23 00-0118 EA 15" x 21" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1220-12)	267.92	70.91
32 84 23 00-0119 EA 10" Round Irrigation Valve Box With Lid (Carson 910-10)	142.81	48.57
32 84 23 00-0120 Irrigation Controllers (32 84 23)		
See CSI section 27 15 13 00-0256 for low voltage wiring.		
32 84 23 00-0121 Irrigation Controllers (32 84 23 00-0120)		
32 84 23 00-0122 Irrigation Controllers (Rain Bird®) (32 84 23 00-0121)		
32 84 23 00-0123 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP Series) (32 84 23 00-0122)		
32 84 23 00-0124 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) (32 84 23 00-0123)		
32 84 23 00-0125 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-MEI Series) (32 84 23 00-0124)		
32 84 23 00-0126 EA 4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	351.82	31.74
32 84 23 00-0127 EA 7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	491.26	31.74
32 84 23 00-0128 EA 10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	630.72	31.74
32 84 23 00-0129 EA 13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	770.16	31.74
32 84 23 00-0130 EA 16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	877.87	31.74
32 84 23 00-0131 EA 19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	1,021.29	31.74
32 84 23 00-0132 EA 22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series)	1,164.71	31.74
32 84 23 00-0133 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) (32 84 23 00-0124)		
32 84 23 00-0134 EA 4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series)	413.38	31.74
32 84 23 00-0135 EA 7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series)	552.82	31.74
32 84 23 00-0136 EA 10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series)	692.28	31.74
32 84 23 00-0137 EA 13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series)	831.72	31.74
32 84 23 00-0138 EA 16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series)	939.43	31.74
32 84 23 00-0139 EA 19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series)	1,082.85	31.74
32 84 23 00-0140 EA 22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series)	1,226.27	31.74
32 84 23 00-0141 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) (32 84 23 00-0123)		
32 84 23 00-0142 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTEI Series) (32 84 23 00-0141)		
32 84 23 00-0143 EA 4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series)	565.66	31.74
32 84 23 00-0144 EA 7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series)	705.10	31.74
32 84 23 00-0145 EA 10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series)	844.56	31.74
32 84 23 00-0146 EA 13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series)	984.00	31.74
32 84 23 00-0147 EA 16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series)	1,091.72	31.74
32 84 23 00-0148 EA 19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series)	1,235.13	31.74
32 84 23 00-0149 EA 22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series)	1,378.55	31.74
32 84 23 00-0150 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) (32 84 23 00-0141)		
32 84 23 00-0151 EA 4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	611.79	31.74
32 84 23 00-0152 EA 7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	751.23	31.74
32 84 23 00-0153 EA 10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	890.69	31.74
32 84 23 00-0154 EA 13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	1,030.12	31.74
32 84 23 00-0155 EA 16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	1,137.84	31.74
32 84 23 00-0156 EA 19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	1,281.26	31.74
32 84 23 00-0157 EA 22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series)	1,424.68	31.74
32 84 23 00-0158 Accessories For ESP-ME/MEI Irrigation Controllers (32 84 23 00-0123)		
32 84 23 00-0159 EA 3-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM3)	143.42	
Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.		
32 84 23 00-0160 EA 6-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM6)	273.99	
Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.		
32 84 23 00-0161 EA Smart Controller Upgrade Kit For ESP Series Irrigation Controllers (Rain Bird® ESPSMTEUPG)	394.06	



Exterior Improvements		32
Irrigation		32 80
Planting Irrigation		32 84

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0162 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Series) <small>(32 84 23 00-0122)</small>		
32 84 23 00-0163 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Basic Series) <small>(32 84 23 00-0162)</small>		
32 84 23 00-0164 EA 12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	837.51	31.74
32 84 23 00-0165 EA 16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,013.42	31.74
32 84 23 00-0166 EA 20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,192.31	31.74
32 84 23 00-0167 EA 24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,368.21	31.74
32 84 23 00-0168 EA 28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,547.11	31.74
32 84 23 00-0169 EA 32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,723.02	31.74
32 84 23 00-0170 EA 36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,901.91	31.74
32 84 23 00-0171 EA 40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,077.82	31.74
32 84 23 00-0172 EA 44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,256.72	31.74
32 84 23 00-0173 EA 48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,432.62	31.74
32 84 23 00-0174 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LXME Series) <small>(32 84 23 00-0162)</small>		
32 84 23 00-0175 EA 8-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	840.74	31.74
32 84 23 00-0176 EA 12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,016.65	31.74
32 84 23 00-0177 EA 16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,195.54	31.74
32 84 23 00-0178 EA 20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,371.44	31.74
32 84 23 00-0179 EA 24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,550.33	31.74
32 84 23 00-0180 EA 28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,726.24	31.74
32 84 23 00-0181 EA 32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,905.14	31.74
32 84 23 00-0182 EA 36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,081.05	31.74
32 84 23 00-0183 EA 40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,259.94	31.74
32 84 23 00-0184 EA 44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,435.85	31.74
32 84 23 00-0185 EA 48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,614.74	31.74
32 84 23 00-0186 Accessories For ESP-LX/LXME Irrigation Controllers <small>(32 84 23 00-0162)</small>		
32 84 23 00-0187 EA Powder Coated Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMM).....	624.21	
32 84 23 00-0188 EA Powder Coated Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMPED + LXMM).....	1,449.96	
Note: Excludes concrete foundation.		
32 84 23 00-0189 EA Stainless Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSS).....	1,378.06	
32 84 23 00-0190 EA Stainless Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSSPED + LXMMSS).....	3,062.17	
Note: Excludes concrete foundation.		
32 84 23 00-0191 EA 4-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM4).....	175.91	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0192 EA 8-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM8).....	354.81	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0193 EA 12-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM12).....	551.24	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0194 EA Flow Smart Water Management Module For ESP-LXME Irrigation Controllers (Rain Bird® FSM-LXME).....	205.29	
32 84 23 00-0195 Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) <small>(32 84 23 00-0122)</small>		
32 84 23 00-0196 Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) <small>(32 84 23 00-0195)</small>		
32 84 23 00-0197 EA 1-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	408.70	31.74
32 84 23 00-0198 EA 2-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	492.68	31.74
32 84 23 00-0199 EA 4-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	609.90	31.74
32 84 23 00-0200 Accessories For TBOS-II Series Irrigation Controllers <small>(32 84 23 00-0195)</small>		
32 84 23 00-0201 EA Field Transmitter For TBOS-II Series Irrigation Controllers (Rain Bird® TBOS2FTUS).....	522.47	
32 84 23 00-0202 EA Potted Latching Solenoid For TBOS-II Series Irrigation Controllers (Rain Bird® TBOSPSOL).....	102.38	23.80
32 84 23 00-0203 Accessories For Irrigation Controllers (Rain Bird®) <small>(32 84 23 00-0122)</small>		
32 84 23 00-0204 EA Wired Rain Sensor For Irrigation Controllers (Rain Bird® RSDBEX).....	144.48	23.80
32 84 23 00-0205 EA Wireless Rain Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RC).....	297.53	23.80
32 84 23 00-0206 EA Wireless Rain/Freeze Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RFC).....	315.44	23.80
32 84 23 00-0207 EA Soil Moisture Sensor And Controller Interface For Irrigation Controllers (Rain Bird® SMRT-Y).....	470.69	23.80
32 84 23 00-0208 Two-Wire Decoder Systems <small>(32 84 23 00-0120)</small>		
32 84 23 00-0209 Two-Wire Decoder Systems (Rain Bird®) <small>(32 84 23 00-0208)</small>		

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0210			Controllers For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series) <small>(32 84 23 00-0209)</small> Note: Includes water resistant cabinet.		
32 84 23 00-0211	EA		50-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)	2,436.74	31.74
32 84 23 00-0212	EA		125-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)	3,454.94	31.74
32 84 23 00-0213	EA		200-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)	4,473.13	31.74
32 84 23 00-0214			Field Decoders For Two-Wire Decoder Systems (Rain Bird®) <small>(32 84 23 00-0209)</small>		
32 84 23 00-0215	EA		One Individual Valve Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD101TURF)	297.53	31.74
32 84 23 00-0216	EA		One Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD102TURF)	379.10	31.74
32 84 23 00-0217	EA		Two Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD202TURF)	568.15	31.74
32 84 23 00-0218	EA		Up To Four Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD401TURF)	694.70	31.74
32 84 23 00-0219	EA		Up To Six Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD601TURF)	1,153.06	31.74
32 84 23 00-0220			Accessories For Two-Wire Decoder Systems (Rain Bird®) <small>(32 84 23 00-0209)</small>		
32 84 23 00-0221	EA		50-Station Replacement Base Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® MOD50-LXD)	1,806.95	
32 84 23 00-0222	EA		75-Station Expansion Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® SPLXDSM75)	1,018.19	
32 84 23 00-0223	EA		Line Surge Protection For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® LSP1TURF)	224.70	27.77
32 84 23 00-0224	EA		Sensor Decoder Interface For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® SD210TURF)	1,027.26	31.74
32 84 23 00-0225			Calsense Controllers <small>(32 84 23 00-0120)</small>		
32 84 23 00-0226			Irrigation Controllers <small>(32 84 23 00-0225)</small>		
32 84 23 00-0227	EA		6 Station ET-Driven Irrigation Controller (Calsense ET2000E-6)	2,585.19	79.34
32 84 23 00-0228	EA		8 Station ET-Driven Irrigation Controller (Calsense ET2000E-8)	3,338.61	89.26
32 84 23 00-0229	EA		12 Station ET-Driven Irrigation Controller (Calsense ET2000E-12)	4,588.62	99.18
32 84 23 00-0230	EA		16 Station ET-Driven Irrigation Controller (Calsense ET2000E-16)	5,051.35	99.18
32 84 23 00-0231	EA		24 Station ET-Driven Irrigation Controller (Calsense ET2000E-24)	5,974.06	109.10
32 84 23 00-0232	EA		32 Station ET-Driven Irrigation Controller (Calsense ET2000E-32)	7,215.52	109.10
32 84 23 00-0233	EA		40 Station ET-Driven Irrigation Controller (Calsense ET2000E-40)	8,172.10	119.02
32 84 23 00-0234	EA		48 Station ET-Driven Irrigation Controller (Calsense ET2000E-48)	9,153.98	119.02
32 84 23 00-0235	EA		Upgrade Existing Calsense Controller To ET2000E (Calsense ET2000E-UPGRADE)	2,644.34	39.68
32 84 23 00-0236	EA		Upgrade Existing Calsense Controller With 8 Additional Stations (Calsense STATION UPGRADE)	1,105.34	39.68
32 84 23 00-0237			Irrigation Controller Accessories <small>(32 84 23 00-0225)</small>		
32 84 23 00-0238	EA		Set Of 10 Keys For Calsense Controllers Or Enclosures (Calsense KEY-1)	108.35	
32 84 23 00-0239	EA		Spare Lock For Enclosures (Calsense PAD)	117.37	
32 84 23 00-0240	EA		Hardware And Software For Up To 4 Additional Light Circuits (Calsense L)	137.21	9.92
32 84 23 00-0241	EA		Transformer For Irrigation Controllers (Calsense TR-1)	192.20	39.68
32 84 23 00-0242	EA		AC Line Protection For Irrigation Controllers (Calsense TP-110)	542.07	39.68
32 84 23 00-0243	EA		Transient Protection Board For Irrigation Controller Stations (Calsense TP-1)	722.64	39.68
			<i>For Outdoor Gray Powder Coated Stainless Steel Enclosure, Add</i>	<i>348.53</i>	
32 84 23 00-0244			Sensors For Irrigation Controllers <small>(32 84 23 00-0225)</small>		
32 84 23 00-0245			Flow Sensors <small>(32 84 23 00-0244)</small>		
32 84 23 00-0246	EA		1-1/2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 1.5)	1,270.19	59.51
			<i>For Flow Meter Replacement Insert Only, Deduct</i>	<i>-895.84</i>	
32 84 23 00-0247	EA		2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 2)	1,315.34	59.51
			<i>For Flow Meter Replacement Insert Only, Deduct</i>	<i>-940.99</i>	
32 84 23 00-0248	EA		3" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 3)	1,360.48	59.51
			<i>For Flow Meter Replacement Insert Only, Deduct</i>	<i>-986.13</i>	
32 84 23 00-0249	EA		1" Brass Tee Mounted Flow Meter (Calsense FM 1B)	1,501.73	79.34
			<i>For Flow Meter Replacement Insert Only, Deduct</i>	<i>-1,127.07</i>	
32 84 23 00-0250	EA		1-1/4" Brass Tee Mounted Flow Meter (Calsense FM 1.25B)	1,614.59	79.34
			<i>For Flow Meter Replacement Insert Only, Deduct</i>	<i>-1,239.93</i>	
32 84 23 00-0251	EA		1-1/2" Brass Tee Mounted Flow Meter (Calsense FM 1.5B)	1,659.74	79.34
			<i>For Flow Meter Replacement Insert Only, Deduct</i>	<i>-1,285.08</i>	
32 84 23 00-0252	EA		2" Brass Tee Mounted Flow Meter (Calsense FM 2B)	1,953.17	79.34
			<i>For Flow Meter Replacement Insert Only, Deduct</i>	<i>-1,450.32</i>	
32 84 23 00-0253	EA		2" Pipe Saddle Mounted Insertion Flow Meter (Calsense FMBX)	1,523.95	39.68
			Note: For 4" and larger pipe. Excludes pipe saddle.		
			<i>For Flow Meter Replacement Insert Only, Deduct</i>	<i>-1,021.11</i>	
32 84 23 00-0254			Moisture Sensors <small>(32 84 23 00-0244)</small>		
32 84 23 00-0255	EA		Soil Moisture Sensor (Calsense 1000-S)	533.52	29.76
32 84 23 00-0256			Weather Sensors <small>(32 84 23 00-0244)</small>		
32 84 23 00-0257	EA		Wind Gage, Irrigation Weather Sensor (Calsense WG-1)	1,456.59	79.34
32 84 23 00-0258	EA		Tipping Rain Bucket, Irrigation Weather Sensor (Calsense RB-1)	1,660.42	158.70
32 84 23 00-0259	EA		ET Gage, Irrigation Weather Sensor (Calsense ETG)	3,341.69	119.02



		Exterior Improvements	32
		Irrigation	32 80
		Planting Irrigation	32 84

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 84 23 00-0260

Weather Sensor Accessories (32 84 23 00-0244)

32 84 23 00-0261	EA		Ceramic Cup For ET Gage Weather Sensor (Calsense ETG-C).....	982.22	
32 84 23 00-0262	EA		Removal And Replacement Of Circuit Board For ET Gage Weather Sensor (Calsense ETG-PCB).....	1,862.53	
32 84 23 00-0263	EA		Vandal Resistant Mounting Base For ET Gage Enclosure (Calsense ETGE-BASE).....	982.22	39.68
32 84 23 00-0264	EA		Vandal Resistant Stainless Steel Enclosure For ET Gage (Calsense ETGE).....	2,285.59	39.68

32 84 23 00-0265

Antennas For Irrigation Controllers (32 84 23 00-0225)

Note: Excludes antenna cable.

32 84 23 00-0266	EA		Local Radio Dome Antenna (Calsense LR-DOME).....	508.21	39.68
32 84 23 00-0267	EA		Local Radio Stick Antenna (Calsense LR-STICK).....	745.21	39.68
32 84 23 00-0268	EA		Local Radio Yagi Antenna (Calsense LR-YAGI).....	824.57	79.34
32 84 23 00-0269	EA		Local Radio And Calsense Radio, Remote Dome Antenna (Calsense LR-DOME-RR).....	508.21	39.68
32 84 23 00-0270	EA		Local Radio And Calsense Radio, Enhanced Remote Dome Antenna (Calsense LR-DOME-RRE).....	508.21	39.68
32 84 23 00-0271	EA		GPRS Stubby Antenna (Calsense GR-STUBBY).....	508.21	39.68
32 84 23 00-0272	EA		GPRS Stick Antenna (Calsense GR-STICK).....	745.21	39.68
32 84 23 00-0273	EA		Spread Spectrum Dome Antenna (Calsense SR-DOME).....	508.21	39.68
32 84 23 00-0274	EA		Spread Spectrum Stick Antenna (Calsense SR-STICK).....	745.21	39.68
32 84 23 00-0275	EA		Spread Spectrum Yagi Antenna (Calsense SR-YAGI).....	824.57	79.34
32 84 23 00-0276	EA		Spread Spectrum And Calsense Radio, Remote Dome Antenna (Calsense SR-DOME-RR).....	508.21	39.68
32 84 23 00-0277	EA		Spread Spectrum And Calsense Radio, Enhanced Remote Dome Antenna (Calsense SR-DOME-RRE).....	508.21	39.68
32 84 23 00-0278	EA		Spread Spectrum Stubby Antenna (Calsense SR-STUBBY).....	508.21	39.68
32 84 23 00-0279	EA		WiFi Stubby Antenna (Calsense WEN-STUBBY).....	508.21	39.68
32 84 23 00-0280	LF		Antenna Cable With End Connectors (Calsense LMR-400-DB).....	14.04	0.47
32 84 23 00-0281	EA		Surge Protection Device For Antenna (Calsense ANT-PROT).....	513.69	19.84
32 84 23 00-0282	EA		5' High, Non-Penetrating, Antenna Tripod Mount (Calsense ANT-TRIP5).....	835.50	39.68
32 84 23 00-0283	EA		3' Antenna Stand Off Mount For 3" Maximum Tower Leg (Calsense ANT-SOM).....	733.59	
32 84 23 00-0284	EA		Local Radio Frequency Filter (Calsense LR-FILTER).....	1,038.31	
32 84 23 00-0285	EA		Spread Spectrum Frequency Filter (Calsense SR-FILTER).....	767.45	

32 84 23 00-0286

Pedestals And Enclosures For Irrigation Controllers (32 84 23 00-0225)

32 84 23 00-0287	EA		15 Amperes, Circuit Breaker With Enclosure For Irrigation Controllers (Calsense SSE-BREAKER).....	457.60	59.51
32 84 23 00-0288	EA		Standard Gray Powder Coated Stainless Steel Controller Enclosure (Calsense C-BOX).....	1,121.77	99.18
32 84 23 00-0289	EA		Indoor Wall Mount, Stainless Steel Back Panel (Calsense SSBP).....	1,264.37	39.68
			Note: Includes GFI and receptacle.		
32 84 23 00-0290	EA		Standard Gray Powder Coated Stainless Steel Pedestal (Calsense PD-1).....	1,515.40	29.76
			Note: Includes factory installed transient protection board and AC line protection.		
32 84 23 00-0291	EA		Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE).....	4,767.31	29.76
			Note: Includes factory installed transient protection board and AC line protection.		
32 84 23 00-0292	EA		Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-R).....	5,386.50	29.76
			Note: Includes factory installed transient protection board, AC line protection and dome antenna.		
32 84 23 00-0293	EA		Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D).....	7,810.94	59.51
			Note: Includes factory installed transient protection boards and AC line protection. Pre-wired for two controllers.		
32 84 23 00-0294	EA		Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D-R).....	8,188.00	59.51
			Note: Includes factory installed transient protection boards, AC line protection and dome antenna. Pre-wired for two controllers.		
32 84 23 00-0295	EA		Bolt Mounting Template For Heavy-Duty Stainless Steel Enclosures (Calsense SSE-CAM).....	266.08	
32 84 23 00-0296	EA		Stainless Steel Fully Enclosed Riser For Calsense SSE Enclosures (Calsense SSE-PED).....	860.82	

32 84 23 00-0297

Central Computer For Irrigation Control Systems (32 84 23 00-0225)

32 84 23 00-0298	EA		Central Computer For Irrigation Control Systems (Calsense COMP-2).....	6,009.62	
			Note: Includes a minimum of 133 MHz Pentium, 32 Meg Ram, 1.2 GB hard drive, 14.4 modem and a printer. Excludes Command Center Water Management software.		
32 84 23 00-0299	EA		Command Center Water Management Software For Central Computer (Calsense COMM-1).....	10,647.14	
32 84 23 00-0300	EA		Up To 5 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-5).....	2,040.38	
			Note: Package price for up to 5 users. Includes remote communication through internet connection.		
32 84 23 00-0301	EA		>5 To 10 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-10).....	4,025.20	
			Note: Package price for 6 to 10 users. Includes remote communication through internet connection.		
32 84 23 00-0302	EA		Data Logger With Phone Modem For Irrigation Control Systems (Calsense DL-2).....	6,483.64	
32 84 23 00-0303	EA		GPRS Radio For Use At Central Computer (Calsense DTR-G).....	3,878.28	

32 84 23 00-0304

Data Access Service (32 84 23 00-0225)

32 84 23 00-0305	EA		1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN).....	32.83	
			Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0306	EA		1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR).....	359.10	
			Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0307	EA		5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR).....	1,539.00	
			Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0308	EA		1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN-M).....	133.38	
			Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0309	EA		1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR-M).....	1,436.40	
			Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0310	EA		5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR-M).....	6,156.00	
			Note: For communication between GPRS unit and multiple controllers.		

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 84 23 00-0311		Communication Options For Irrigation Controllers (32 84 23 00-0225)			
32 84 23 00-0312	EA	FCC License Fee (Calsense).....	214.10		
32 84 23 00-0313	EA	P.C.I.A. And/Or A.P.C.O. Fee (Calsense).....	419.30		
		Note: Per frequency or frequency pair.			
32 84 23 00-0314	EA	Hardware Communication Option For Irrigation Controllers (Calsense M)	1,190.16		
		Note: Allows multiple controllers to be chained together via a communications cable and share one phone line.			
32 84 23 00-0315	EA	Phone Line Communication Option For Irrigation Controllers (Calsense R)	1,251.72		
32 84 23 00-0316	EA	Ethernet Communication Option For Irrigation Controllers (Calsense EN)	1,251.72		
32 84 23 00-0317	EA	WiFi Communication Option For Irrigation Controllers (Calsense WEN)	2,565.00		
32 84 23 00-0318	EA	Local Radio Communication Option For Irrigation Controllers (Calsense LR)	3,262.68		
32 84 23 00-0319	EA	Spread Spectrum Radio Communication Option For Irrigation Controllers (Calsense SR).....	3,262.68		
32 84 23 00-0320	EA	GPRS Radio Modem Communication Option For Irrigation Controllers (Calsense GR)	3,262.68		
32 84 23 00-0321	EA	Fiber Optic Modem Communication Option For Irrigation Controllers (Calsense FOM)	10,465.20		
32 84 23 00-0322	EA	Communication Hub For Irrigation Controllers (Calsense HUB).....	4,025.69		
		Note: Accepts up to two communication options. Excludes communication options.			
32 84 23 00-0323		Retrofit Options For Irrigation Controllers (32 84 23 00-0225)			
32 84 23 00-0324		Weather Retrofits For Irrigation Controllers (32 84 23 00-0323)			
32 84 23 00-0325	EA	Add One Flow Sensor Interface To An Existing Calsense Controller (Calsense F-RETRO)	1,587.56		
32 84 23 00-0326	EA	Add One ET Gage Interface To An Existing Calsense Controller (Calsense G-RETRO)	1,587.56		
32 84 23 00-0327	EA	Add One Tipping Rain Bucket Interface To An Existing Calsense Controller (Calsense RB-RETRO)	1,587.56		
32 84 23 00-0328	EA	Add One Wind Gage Interface To An Existing Calsense Controller (Calsense WG-RETRO)	1,587.56		
32 84 23 00-0329		Phone Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)			
32 84 23 00-0330	EA	Add The Ability To Chain To Another Calsense Controller With The Phone Line Communication Option And Share One Phone Line (Calsense M-RETRO)	1,669.64		
32 84 23 00-0331	EA	Add The Phone Line Communication Option To An Existing Calsense Controller (Calsense R-RETRO)	1,977.44		
32 84 23 00-0332	EA	Add The Phone Line Communication Option And The Ability To Chain To Another Calsense Controller And Share One Phone Line (Calsense MLR-RETRO)	3,177.86		
32 84 23 00-0333		Local Radio Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)			
32 84 23 00-0334	EA	Add The Ability To Chain To Another Calsense Controller With The Local Radio Communication Option And Share One Local Radio (Calsense ML-RETRO)	1,874.84		
32 84 23 00-0335	EA	Add The Local Radio Communication Option To An Existing Calsense Controller (Calsense LR-RETRO)	3,967.88		
32 84 23 00-0336	EA	Add The Local Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Local Radio (Calsense MLR-RETRO)	5,158.04		
32 84 23 00-0337		Spread Spectrum Radio Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)			
32 84 23 00-0338	EA	Add The Ability To Chain To Another Calsense Controller With The Spread Spectrum Radio Communication Option And Share One Spread Spectrum Radio (Calsense MS-RETRO)	1,874.84		
32 84 23 00-0339	EA	Add The Spread Spectrum Radio Communication Option To An Existing Calsense Controller (Calsense SR-RETRO).....	3,967.88		
32 84 23 00-0340	EA	Add The Spread Spectrum Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Spread Spectrum Radio (Calsense MSR-RETRO)	5,158.04		
32 84 23 00-0341		Ethernet Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)			
32 84 23 00-0342	EA	Add The Ability To Chain To Another Calsense Controller With The Ethernet Communication Option And Share One Ethernet Device (Calsense ME-Retro)	1,874.84		
32 84 23 00-0343	EA	Add The Ethernet Communication Option To An Existing Calsense Controller (Calsense EN-RETRO)	1,977.44		
32 84 23 00-0344	EA	Add The Ethernet Communication Option And The Ability To Chain To Another Calsense Controller And Share One Ethernet Device (Calsense MEN-RETRO)	3,177.86		
32 84 23 00-0345		GPRS Radio Modem Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)			
32 84 23 00-0346	EA	Add The Ability To Chain To Another Calsense Controller With The GPRS Communication Option And Share One GPRS Modem (Calsense MG-RETRO).....	1,874.84		
32 84 23 00-0347	EA	Add The GPRS Communication Option To An Existing Calsense Controller (Calsense GR-RETRO)	3,967.88		
32 84 23 00-0348	EA	Add The GPRS Communication Option And The Ability To Chain To Another Calsense Controller And Share One GPRS Modem (Calsense MGR-RETRO)	5,158.04		
32 84 23 00-0349		Radio Remote Units For Irrigation Controllers (32 84 23 00-0225)			
32 84 23 00-0350	EA	Enhanced Radio Remote Hand-Held Transmitter With Carry Case (Calsense RRe-TRAN)	1,885.10		
32 84 23 00-0351	EA	Calsense Integrated Radio Remote Receiver Board (Calsense RR/RRe).....	406.30		
		Note: Includes polyvinyl chloride (PVC) stick antenna. Excludes antenna cable.			
32 84 23 00-0352	EA	Wall Mount Charger For Hand-Held Transmitter (Calsense RRTRAN-CHG)	174.42		
32 84 23 00-0353	EA	Removal And Replacement Of Battery For Hand-Held Transmitter (Calsense RRTRAN-BAT)	307.12		
32 84 23 00-0354	EA	Polyvinyl Chloride (PVC) Stick Antenna For Radio Remote Receiver Board (Calsense RR-ANT)	194.26	9.92	
		Note: Excludes antenna cable.			
32 84 23 00-0355	EA	Whip Antenna For Radio Remote Receiver Board (Calsense RRe-WHIP).....	378.94	9.92	
		Note: Excludes antenna cable.			
32 84 23 00-0356	EA	Dome Antenna For Radio Remote Receiver Board (Calsense RR-Dome/RRe-Dome)	409.72	9.92	
		Note: Excludes antenna cable.			



Exterior Improvements		32
Irrigation		32 80
Planting Irrigation		32 84

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0357	Satellite Irrigation Controllers (Rain Bird® ESP-SAT) (32 84 23 00-0120)	
Note: Satellite controllers compatible with Maxi-Con Central Control. Includes link communication with SEMET at the controller and stainless steel cabinet. Excludes concrete pad.		
32 84 23 00-0358 EA	12 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP12SATLS)	4,401.98 178.53
32 84 23 00-0359 EA	24 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP24SATLS)	4,642.23 188.45
32 84 23 00-0360 EA	40 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP40SATLS)	6,464.72 198.37
32 84 23 00-0361	LEIT Controllers (32 84 23 00-0120)	
32 84 23 00-0362	LEIT X Series Irrigation Controller (32 84 23 00-0361)	
32 84 23 00-0363 EA	10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	4,145.70 31.74
32 84 23 00-0364 EA	12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	4,549.95 31.74
32 84 23 00-0365 EA	16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	5,203.94 31.74
32 84 23 00-0366 EA	20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	5,857.93 31.74
32 84 23 00-0367 EA	24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	6,317.72 31.74
32 84 23 00-0368 EA	28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series)	6,777.52 31.74
32 84 23 00-0369	LEIT X Series Irrigation Controller Assembly (32 84 23 00-0361)	
Note: Includes excavation and concrete for footing, 2" diameter galvanized steel pole (minimum 18" bury), 2" sweeps, controller, and number 5 concrete box with non-traffic rated lid per detail.		
32 84 23 00-0370 EA	10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	4,671.32 165.75
32 84 23 00-0371 EA	12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	5,075.59 165.75
32 84 23 00-0372 EA	16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	5,729.57 165.75
32 84 23 00-0373 EA	20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	6,383.56 165.75
32 84 23 00-0374 EA	24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	6,843.37 165.75
32 84 23 00-0375 EA	28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	7,303.16 165.75
32 84 23 00-0376	Enclosure For LEIT Controller Assembly (32 84 23 00-0361)	
Note: Includes mounting bolts to concrete foundation and installation of enclosure per detail.		
32 84 23 00-0377 EA	12" x 12" x 54" Milled Steel, #9 Expanded Metal, Painted Per Detail, Enclosure With Access Hatch	3,179.73 235.37
Note: For LEIT Controller		
32 84 23 00-0378	Hunter Controllers (32 84 23 00-0120)	
32 84 23 00-0379	Hunter XC Hybrid Controller (32 84 23 00-0378)	
Note: Operates DC latching solenoids with battery power or a plug in 24 VAC transformer. Includes 6 AA batteries, outdoor stainless steel enclosure and installation of controller in Irrigation Controller Enclosure.		
32 84 23 00-0380 EA	6 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-600-SS)	673.23 79.34
32 84 23 00-0381 EA	12 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-1200-SS)	857.01 99.18
32 84 23 00-0382	DC Latching Solenoid (32 84 23 00-0120)	
32 84 23 00-0383 EA	DC Latching Solenoid (Micro Power Solenoid) For Non LEIT Controllers	36.56
Note: As per manufacture of valve.		
32 84 23 00-0384 EA	DC Solenoid For LEIT Controllers (DIG S-305DC)	58.43
32 84 23 00-0385	Irrigation Controller Enclosure Cabinet (32 84 23 00-0120)	
Note: Includes excavation, installation of concrete foundation, mounting bolts, sweeps, number 5 concrete pull box with non-traffic rated lid and installation of enclosure per detail.		
32 84 23 00-0386 EA	35" (H) x 18" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan)	2,973.95 436.04
32 84 23 00-0387 EA	35" (H) x 24" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan)	3,207.59 475.68
32 84 23 00-0388 EA	35" (H) x 36" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan)	3,547.14 515.32
32 84 23 00-0389 EA	35" (H) x 18" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Irrigation Controller Enclosure Cabinet	2,973.97 436.04
32 84 23 00-0390 EA	35" (H) x 24" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet	3,207.59 475.68
32 84 23 00-0391 EA	35" (H) x 36" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet	3,547.14 515.32
32 84 23 00-0392 EA	35" (H) x 18" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	3,717.29 436.04
32 84 23 00-0393 EA	35" (H) x 24" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	4,043.82 475.68
32 84 23 00-0394 EA	35" (H) x 36" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	4,383.37 515.32
32 84 23 00-0395	Irrigation Valves (32 84 23)	
32 84 23 00-0396	Reduced Pressure Zone Valves With QT Shut-Offs (32 84 23 00-0395)	
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
32 84 23 00-0397 EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series)	789.55 42.28
32 84 23 00-0398 EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	936.67 51.63
32 84 23 00-0399 EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,417.10 60.09
32 84 23 00-0400 EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,497.82 68.99
32 84 23 00-0401 EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,796.60 89.02

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0402			Brass Quick-Coupling Irrigation Valves (32 84 23 00-0395)		
32 84 23 00-0403	EA		3/4", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 3RC).....	154.00	36.89
			<i>For Valve Key, Add</i>	41.36	
32 84 23 00-0404	EA		3/4", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 33DRC).....	158.78	36.89
			<i>For Locking Cover, Add</i>	25.00	
			<i>For Valve Key, Add</i>	41.36	
32 84 23 00-0405	EA		1", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44RC).....	211.39	36.89
			<i>For Valve Key, Add</i>	105.79	
32 84 23 00-0406	EA		1", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44LRC).....	230.52	36.89
			<i>For Valve Key, Add</i>	105.79	
32 84 23 00-0407	EA		1", 1-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 5NP).....	221.52	36.89
32 84 23 00-0408	EA		1", 2-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 44NP).....	230.52	36.89
32 84 23 00-0409			Anti-Siphon Pressure Type Vacuum Breaker (32 84 23 00-0395)		
			Note: Pressure: 15 to 150 PSI, temperature: 33 to 140 degrees Fahrenheit.		
32 84 23 00-0410	EA		3/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	265.72	31.16
32 84 23 00-0411	EA		1" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	380.20	35.60
32 84 23 00-0412	EA		1-1/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	688.49	41.17
32 84 23 00-0413	EA		1-1/2" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	838.47	45.62
32 84 23 00-0414	EA		2" Anti-Siphon Pressure Type Vacuum Breaker.....	846.17	55.64
32 84 23 00-0415			Aluminum Cam And Groove Adapter (32 84 23 00-0395)		
32 84 23 00-0416	EA		1-1/2" Type A Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Female Pipe Thread.....	39.91	
32 84 23 00-0417	EA		2" Type A Aluminum Cam And Groove Male Adapter x 2" NPT Female Pipe Thread.....	42.16	
32 84 23 00-0418	EA		1-1/2" Type F Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Male Pipe Thread.....	41.08	
32 84 23 00-0419	EA		2" Type F Aluminum Cam And Groove Male Adapter x 2" NPT Male Pipe Thread.....	44.35	
32 84 23 00-0420			Irrigation Piping (32 84 23)		
32 84 23 00-0421			Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0420)		
			Note: Install stabilizers every 20', at change of direction and at sprinkler heads less than 12" tall.		
32 84 23 00-0422			Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0421)		
32 84 23 00-0423	LF		1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	2.95	1.03
			<i>For >1,000, Deduct</i>	-0.15	
32 84 23 00-0424	LF		3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	3.59	1.28
			<i>For >1,000, Deduct</i>	-0.18	
32 84 23 00-0425	LF		1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	4.31	1.54
			<i>For >1,000, Deduct</i>	-0.22	
32 84 23 00-0426	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	5.67	1.94
			<i>For >1,000, Deduct</i>	-0.28	
32 84 23 00-0427	LF		2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	7.08	2.44
			<i>For >1,000, Deduct</i>	-0.35	
32 84 23 00-0428	LF		2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	8.93	2.85
			<i>For >1,000, Deduct</i>	-0.45	
32 84 23 00-0429	LF		3" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	12.28	4.10
			<i>For >1,000, Deduct</i>	-0.61	
32 84 23 00-0430	LF		4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	15.93	5.12
			<i>For >1,000, Deduct</i>	-0.80	
32 84 23 00-0431	LF		6" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	22.41	6.41
			<i>For >1,000, Deduct</i>	-1.12	
32 84 23 00-0432			Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0421)		
32 84 23 00-0433	LF		3/4" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers.....	3.41	1.28
			<i>For >1,000, Deduct</i>	-0.17	
32 84 23 00-0434	LF		1" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers.....	4.01	1.54
			<i>For >1,000, Deduct</i>	-0.20	
32 84 23 00-0435	LF		1-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers.....	5.47	1.94
			<i>For >1,000, Deduct</i>	-0.27	
32 84 23 00-0436	LF		2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers.....	6.91	2.44
			<i>For >1,000, Deduct</i>	-0.35	
32 84 23 00-0437	LF		2-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers.....	8.67	2.85
			<i>For >1,000, Deduct</i>	-0.43	
32 84 23 00-0438	LF		3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	12.18	4.10
			<i>For >1,000, Deduct</i>	-0.61	
32 84 23 00-0439	LF		4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	16.49	5.12
			<i>For >1,000, Deduct</i>	-0.82	
32 84 23 00-0440	LF		6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	25.89	6.41
			<i>For >1,000, Deduct</i>	-1.29	
32 84 23 00-0441			Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0421)		
32 84 23 00-0442	LF		3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	3.56	1.28
			<i>For >1,000, Deduct</i>	-0.18	



Exterior Improvements		32
Irrigation		32 80
Planting Irrigation		32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0443 LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers..... <i>For >1,000, Deduct</i>	4.21 -0.21	1.54
32 84 23 00-0444 LF 1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers <i>For >1,000, Deduct</i>	5.85 -0.29	1.94
32 84 23 00-0445 LF 2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers..... <i>For >1,000, Deduct</i>	7.55 -0.38	2.44
32 84 23 00-0446 LF 2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers <i>For >1,000, Deduct</i>	9.69 -0.48	2.85
32 84 23 00-0447 LF 3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers..... <i>For >1,000, Deduct</i>	12.28 -0.61	4.10
32 84 23 00-0448 LF 4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers..... <i>For >1,000, Deduct</i>	15.93 -0.80	5.12
32 84 23 00-0449 LF 6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers..... <i>For >1,000, Deduct</i>	22.75 -1.14	6.41
32 84 23 00-0450 Irrigation Piping With Fittings, Trenching, Cover, Backfilled And Compacted <small>(32 84 23 00-0420)</small> Note: Install thrust blocks per Caltrans details for 3" piping and larger, upstream of remote control valve.		
32 84 23 00-0451 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0450)</small>		
32 84 23 00-0452 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	5.65 -0.28	1.28
32 84 23 00-0453 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	6.37 -0.32	1.54
32 84 23 00-0454 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	7.74 -0.39	1.94
32 84 23 00-0455 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	9.14 -0.46	2.44
32 84 23 00-0456 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	10.99 -0.55	2.85
32 84 23 00-0457 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	14.34 -0.72	4.10
32 84 23 00-0458 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	17.99 -0.90	5.12
32 84 23 00-0459 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	24.48 -1.22	6.41
32 84 23 00-0460 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0450)</small>		
32 84 23 00-0461 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	5.90 -0.30	1.28
32 84 23 00-0462 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	6.63 -0.33	1.54
32 84 23 00-0463 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	7.99 -0.40	1.94
32 84 23 00-0464 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	9.39 -0.47	2.44
32 84 23 00-0465 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	11.24 -0.56	2.85
32 84 23 00-0466 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	14.59 -0.73	4.10
32 84 23 00-0467 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	18.24 -0.91	5.12
32 84 23 00-0468 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	24.73 -1.24	6.41
32 84 23 00-0469 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0450)</small>		
32 84 23 00-0470 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	6.15 -0.31	1.28
32 84 23 00-0471 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	6.87 -0.34	1.54
32 84 23 00-0472 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	8.24 -0.41	1.94
32 84 23 00-0473 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	9.64 -0.48	2.44
32 84 23 00-0474 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	11.49 -0.57	2.85
32 84 23 00-0475 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	14.83 -0.74	4.10
32 84 23 00-0476 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	18.49 -0.92	5.12
32 84 23 00-0477 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted..... <i>For >1,000, Deduct</i>	24.98 -1.25	6.41
32 84 23 00-0478 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0450)</small>		

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0479 LF 3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	5.56	1.28
For >1,000, Deduct	-0.28	
32 84 23 00-0480 LF 1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	6.22	1.54
For >1,000, Deduct	-0.31	
32 84 23 00-0481 LF 1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	7.75	1.94
For >1,000, Deduct	-0.39	
32 84 23 00-0482 LF 2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	9.45	2.44
For >1,000, Deduct	-0.47	
32 84 23 00-0483 LF 2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	11.50	2.85
For >1,000, Deduct	-0.58	
32 84 23 00-0484 LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	14.24	4.10
For >1,000, Deduct	-0.71	
32 84 23 00-0485 LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	18.54	5.12
For >1,000, Deduct	-0.93	
32 84 23 00-0486 LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	27.95	6.41
For >1,000, Deduct	-1.40	
32 84 23 00-0487 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted (32 84 23 00-0480)		
32 84 23 00-0488 LF 3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	5.81	1.28
For >1,000, Deduct	-0.29	
32 84 23 00-0489 LF 1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	6.48	1.54
For >1,000, Deduct	-0.32	
32 84 23 00-0490 LF 1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	8.00	1.94
For >1,000, Deduct	-0.40	
32 84 23 00-0491 LF 2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	9.70	2.44
For >1,000, Deduct	-0.49	
32 84 23 00-0492 LF 2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	11.75	2.85
For >1,000, Deduct	-0.59	
32 84 23 00-0493 LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	14.49	4.10
For >1,000, Deduct	-0.72	
32 84 23 00-0494 LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	18.79	5.12
For >1,000, Deduct	-0.94	
32 84 23 00-0495 LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	28.20	6.41
For >1,000, Deduct	-1.41	
32 84 23 00-0496 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted (32 84 23 00-0490)		
32 84 23 00-0497 LF 3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	6.06	1.28
For >1,000, Deduct	-0.30	
32 84 23 00-0498 LF 1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	6.72	1.54
For >1,000, Deduct	-0.34	
32 84 23 00-0499 LF 1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	8.25	1.94
For >1,000, Deduct	-0.41	
32 84 23 00-0500 LF 2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	9.95	2.44
For >1,000, Deduct	-0.50	
32 84 23 00-0501 LF 2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	12.00	2.85
For >1,000, Deduct	-0.60	
32 84 23 00-0502 LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	14.73	4.10
For >1,000, Deduct	-0.74	
32 84 23 00-0503 LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	19.04	5.12
For >1,000, Deduct	-0.95	
32 84 23 00-0504 LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	28.45	6.41
For >1,000, Deduct	-1.42	
32 84 23 00-0505 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted (32 84 23 00-0490)		
32 84 23 00-0506 LF 3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	5.62	1.28
For >1,000, Deduct	-0.28	
32 84 23 00-0507 LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	6.28	1.54
For >1,000, Deduct	-0.31	
32 84 23 00-0508 LF 1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	7.91	1.94
For >1,000, Deduct	-0.40	
32 84 23 00-0509 LF 2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	9.61	2.44
For >1,000, Deduct	-0.48	
32 84 23 00-0510 LF 2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	11.75	2.85
For >1,000, Deduct	-0.59	
32 84 23 00-0511 LF 3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	14.34	4.10
For >1,000, Deduct	-0.72	



		Exterior Improvements	32
		Irrigation	32 80
		Planting Irrigation	32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0512 LF 4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	17.99	5.12
<i>For >1,000, Deduct</i>	-0.90	
32 84 23 00-0513 LF 6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	24.82	6.41
<i>For >1,000, Deduct</i>	-1.24	
32 84 23 00-0514 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0450)</small>		
32 84 23 00-0515 LF 3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	5.87	1.28
<i>For >1,000, Deduct</i>	-0.29	
32 84 23 00-0516 LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	6.54	1.54
<i>For >1,000, Deduct</i>	-0.33	
32 84 23 00-0517 LF 1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	8.16	1.94
<i>For >1,000, Deduct</i>	-0.41	
32 84 23 00-0518 LF 2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	9.86	2.44
<i>For >1,000, Deduct</i>	-0.49	
32 84 23 00-0519 LF 2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	12.00	2.85
<i>For >1,000, Deduct</i>	-0.60	
32 84 23 00-0520 LF 3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	14.59	4.10
<i>For >1,000, Deduct</i>	-0.73	
32 84 23 00-0521 LF 4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	18.24	5.12
<i>For >1,000, Deduct</i>	-0.91	
32 84 23 00-0522 LF 6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	25.07	6.41
<i>For >1,000, Deduct</i>	-1.25	
32 84 23 00-0523 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted <small>(32 84 23 00-0450)</small>		
32 84 23 00-0524 LF 3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	6.12	1.28
<i>For >1,000, Deduct</i>	-0.31	
32 84 23 00-0525 LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	6.78	1.54
<i>For >1,000, Deduct</i>	-0.34	
32 84 23 00-0526 LF 1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	8.41	1.94
<i>For >1,000, Deduct</i>	-0.42	
32 84 23 00-0527 LF 2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	10.11	2.44
<i>For >1,000, Deduct</i>	-0.51	
32 84 23 00-0528 LF 2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	12.25	2.85
<i>For >1,000, Deduct</i>	-0.61	
32 84 23 00-0529 LF 3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	14.83	4.10
<i>For >1,000, Deduct</i>	-0.74	
32 84 23 00-0530 LF 4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	18.49	5.12
<i>For >1,000, Deduct</i>	-0.92	
32 84 23 00-0531 LF 6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	25.32	6.41
<i>For >1,000, Deduct</i>	-1.27	
32 84 23 00-0532 Irrigation Riser Piping With Fittings <small>(32 84 23 00-0420)</small>		
32 84 23 00-0533 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV.....	17.95	3.07
Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0534 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV.....	19.25	3.84
Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0535 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV.....	19.15	3.59
Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0536 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV.....	20.75	4.48
Note: Includes #4 steel reinforcing bar, stainless steel hose clamp		
32 84 23 00-0537 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I.....	39.10	5.38
Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0538 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I.....	41.36	6.72
Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0539 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I.....	45.84	6.91
Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0540 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I.....	48.75	8.65
Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0541 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I.....	52.60	8.45
Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0542 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I.....	56.15	10.57
Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties		
32 84 23 00-0543 Irrigation Crossover Piping With Fittings <small>(32 84 23 00-0420)</small>		
Note: Install per Caltrans details. Includes thrust blocks, HDPE sleeve pipe and fittings, 3" pvc irrigation piping and 1" electrical pvc conduit. Excludes #5 concrete irrigation pull boxes on ends, electrical control wiring. See CSI section 32 84 23 00-0105 for #5 concrete pull box, 32 84 23 00-0587 for irrigation wiring.		

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

32 84 23 00-0544		Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench <small>(32 84 23 00-0543)</small>		
32 84 23 00-0545	LF	6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation.....	31.02	
		<i>For >1,000, Deduct</i>	-1.55	
32 84 23 00-0546	LF	8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation.....	42.95	
		<i>For >1,000, Deduct</i>	-2.15	
32 84 23 00-0547	LF	10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation.....	58.20	
		<i>For >1,000, Deduct</i>	-2.91	
32 84 23 00-0548	LF	12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation.....	76.09	
		<i>For >1,000, Deduct</i>	-3.80	
32 84 23 00-0549		Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench <small>(32 84 23 00-0543)</small>		
32 84 23 00-0550	LF	6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	31.77	
		<i>For >1,000, Deduct</i>	-1.59	
32 84 23 00-0551	LF	8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	43.77	
		<i>For >1,000, Deduct</i>	-2.19	
32 84 23 00-0552	LF	10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	59.11	
		<i>For >1,000, Deduct</i>	-2.96	
32 84 23 00-0553	LF	12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	77.10	
		<i>For >1,000, Deduct</i>	-3.86	
32 84 23 00-0554		Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench <small>(32 84 23 00-0543)</small>		
32 84 23 00-0555	LF	6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench Installation.....	32.52	
		<i>For >1,000, Deduct</i>	-1.63	
32 84 23 00-0556	LF	8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	44.61	
		<i>For >1,000, Deduct</i>	-2.23	
32 84 23 00-0557	LF	10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	60.02	
		<i>For >1,000, Deduct</i>	-3.00	
32 84 23 00-0558	LF	12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	78.09	
		<i>For >1,000, Deduct</i>	-3.90	
32 84 23 00-0559		Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore <small>(32 84 23 00-0543)</small>		
32 84 23 00-0560	LF	6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation	83.65	
		<i>For >1,000, Deduct</i>	-4.18	
32 84 23 00-0561	LF	8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation	106.23	
		<i>For >1,000, Deduct</i>	-5.31	
32 84 23 00-0562	LF	10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation	126.72	
		<i>For >1,000, Deduct</i>	-6.34	
32 84 23 00-0563	LF	12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation	149.87	
		<i>For >1,000, Deduct</i>	-7.49	
32 84 23 00-0564		Below Ground Cam Adapter Assembly <small>(32 84 23 00-0420)</small>		
		Note: Includes minimum 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe		
32 84 23 00-0565	EA	Below Ground Cam Adapter Assembly.....	683.28	
		Note: Includes 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.		
32 84 23 00-0566		Above Ground Cam Adapter Assembly <small>(32 84 23 00-0420)</small>		
		Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe		
32 84 23 00-0567	EA	Above Ground Cam Adapter Assembly	420.13	
		Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.		
32 84 23 00-0568		Thrust Block <small>(32 84 23 00-0420)</small>		
32 84 23 00-0569	EA	Thrust Block For 1-1/2" Pipe Size And Smaller.....	35.32	
32 84 23 00-0570	EA	Thrust Block For 2" Pipe	60.93	
32 84 23 00-0571	EA	Thrust Block For 3" And 4" Pipe.....	86.55	
32 84 23 00-0572	EA	Thrust Block For 6" Pipe	138.29	
32 84 23 00-0573	EA	Thrust Block For 8" Pipe	197.29	
32 84 23 00-0574		Irrigation Swing Joints <small>(32 84 23)</small>		
32 84 23 00-0575	EA	3/4" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12075)	58.73	20.40
32 84 23 00-0576	EA	1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12)	66.79	22.77
32 84 23 00-0577	EA	1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint With 70 PSI Pressure Regulator (Rain Bird® TSJ100PRS).....	89.30	22.77



		Exterior Improvements	32
		Irrigation	32 80
		Planting Irrigation	32 84

MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0578	EA 1/2" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I..... Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.	43.13	26.58
32 84 23 00-0579	EA 3/4" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I..... Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.	57.66	35.46
32 84 23 00-0580	EA 1" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I..... Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.	72.77	43.48
32 84 23 00-0581	EA 1/2" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II..... Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.	61.21	27.00
32 84 23 00-0582	EA 3/4" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II..... Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.	80.97	35.81
32 84 23 00-0583	EA 1" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II..... Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.	99.75	43.92
32 84 23 00-0584	EA 1/2" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III..... Note: Consists of two street 90 degree elbows.	34.72	16.53
32 84 23 00-0585	EA 3/4" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III..... Note: Consists of two street 90 degree elbows.	46.42	22.04
32 84 23 00-0586	EA 1" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III..... Note: Consists of two street 90 degree elbows.	55.35	27.33
32 84 23 00-0587	Irrigation Control Wire (32 84 23) Note: Excludes excavation and backfill.		
32 84 23 00-0588	18 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0589	CLF 1-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	49.74	15.37
32 84 23 00-0590	CLF 2-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	65.42	17.94
32 84 23 00-0591	CLF 3-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	75.30	20.50
32 84 23 00-0592	CLF 4-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	86.23	23.06
32 84 23 00-0593	CLF 5-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	98.20	25.62
32 84 23 00-0594	CLF 6-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	117.59	28.18
32 84 23 00-0595	CLF 7-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	136.17	30.74
32 84 23 00-0596	CLF 8-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	147.96	33.30
32 84 23 00-0597	CLF 9-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	162.52	35.86
32 84 23 00-0598	CLF 10-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	179.28	38.42
32 84 23 00-0599	CLF 11-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	185.43	40.99
32 84 23 00-0600	CLF 12-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	192.67	43.55
32 84 23 00-0601	CLF 13-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	203.26	46.11
32 84 23 00-0602	16 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0603	CLF 1-Conductor, 16 AWG, Irrigation Control Wire, Buried In Trench	52.55	15.37
32 84 23 00-0604	14 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0605	CLF 1-Conductor, 14 AWG, Irrigation Control Wire, Buried In Trench	52.56	15.37
32 84 23 00-0606	12 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0607	CLF 1-Conductor, 12 AWG, Irrigation Control Wire, Buried In Trench	71.12	15.37
32 84 23 00-0608	10 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0609	CLF 1-Conductor, 10 AWG, Irrigation Control Wire, Buried In Trench	94.64	15.37
32 84 23 00-0610	Root Watering Systems (32 84 23) Note: Includes swing assembly.		
32 84 23 00-0611	EA 0.25 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1401)..... <i>For Root Watering Sand Sock, Add</i> 5.01	94.68	20.50
32 84 23 00-0612	EA 0.25 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1401)..... <i>For Root Watering Sand Sock, Add</i> 5.01	102.13	20.50
32 84 23 00-0613	EA 0.5 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1402)..... <i>For Root Watering Sand Sock, Add</i> 5.01	94.68	20.50
32 84 23 00-0614	EA 0.5 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1402)..... <i>For Root Watering Sand Sock, Add</i> 5.01	102.13	20.50
32 84 23 00-0615	EA 1 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1404)..... <i>For Root Watering Sand Sock, Add</i> 5.01	102.13	20.50
32 84 23 00-0616	EA 0.25 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1401)..... <i>For Root Watering Sand Sock, Add</i> 4.50	82.17	17.94
32 84 23 00-0617	EA 0.25 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1401)..... <i>For Root Watering Sand Sock, Add</i> 4.50	89.32	17.94
32 84 23 00-0618	EA 0.5 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1402)..... <i>For Root Watering Sand Sock, Add</i> 4.50	82.17	17.94
32 84 23 00-0619	EA 0.5 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1402)..... <i>For Root Watering Sand Sock, Add</i> 4.50	89.32	17.94

32 Exterior Improvements

32 80 Irrigation

32 84 Planting Irrigation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0620 EA 0.25 GPM Bubbler On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-1401) <i>For Root Watering Sand Sock, Add</i>	55.38 3.99	15.37
32 84 23 00-0621 EA 0.25 GPM Bubbler And Check Valve On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-C-1401) <i>For Root Watering Sand Sock, Add</i>	62.18 3.99	15.37

32 90 Planting ⁽³²⁾

Note: Plant installation includes the initial watering only. The extended watering period for the establishment of lawns, plants and trees is addressed on a per plant per amount per occurrence basis as directed in the specification. cvs = cultivar. See CSI section 32 01 90 26-0000 for additional "extended watering period" tasks.

32 91 Planting Preparation ^(32 90)

32 91 13 Soil Preparation ^(32 91)

32 91 13 16 Mulching ^(32 91 13)

32 91 13 16-0001 Mulch ^(32 91 13 16)

Note: Includes loading, delivery up to 15 miles and spreading. 1 CY = 108 SF of mulch spread 3" thick. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.

32 91 13 16-0002 CY Pine Bark Nugget Mulch <i>For Work On Slopes >2.5:1, Add</i> <i>For >5 To 20, Deduct</i> <i>For >20 To 50, Deduct</i> <i>For >50, Deduct</i>	114.18 13.46 -9.07 -13.61 -19.32	
32 91 13 16-0003 CY Hardwood Bark Nugget Mulch <i>For Work On Slopes >2.5:1, Add</i> <i>For >5 To 20, Deduct</i> <i>For >20 To 50, Deduct</i> <i>For >50, Deduct</i>	112.30 13.46 -8.98 -13.47 -19.09	
32 91 13 16-0004 CY Pine Wood Chip Mulch <i>For Work On Slopes >2.5:1, Add</i> <i>For >5 To 20, Deduct</i> <i>For >20 To 50, Deduct</i> <i>For >50, Deduct</i>	108.55 13.46 -8.79 -13.19 -18.62	
32 91 13 16-0005 CY Hardwood Chip Mulch <i>For Work On Slopes >2.5:1, Add</i> <i>For >5 To 20, Deduct</i> <i>For >20 To 50, Deduct</i> <i>For >50, Deduct</i>	116.05 13.46 -9.17 -13.75 -19.55	
32 91 13 16-0006 CY Shredded Hardwood Mulch <i>For Work On Slopes >2.5:1, Add</i> <i>For >5 To 20, Deduct</i> <i>For >20 To 50, Deduct</i> <i>For >50, Deduct</i>	116.05 13.46 -9.17 -13.75 -19.55	
32 91 13 16-0007 CY Shredded Pine Mulch <i>For Work On Slopes >2.5:1, Add</i> <i>For >5 To 20, Deduct</i> <i>For >20 To 50, Deduct</i> <i>For >50, Deduct</i>	99.18 13.46 -8.32 -12.49 -17.45	
32 91 13 16-0008 CY Shredded Cedar Mulch <i>For Work On Slopes >2.5:1, Add</i> <i>For >5 To 20, Deduct</i> <i>For >20 To 50, Deduct</i> <i>For >50, Deduct</i>	135.74 13.46 -10.15 -15.23 -22.02	
32 91 13 16-0009 CY Shredded Cypress Mulch <i>For Work On Slopes >2.5:1, Add</i> <i>For >5 To 20, Deduct</i> <i>For >20 To 50, Deduct</i> <i>For >50, Deduct</i>	132.92 13.46 -10.01 -15.02 -21.66	
32 91 13 16-0010 CY Shredded Redwood Mulch <i>For Work On Slopes >2.5:1, Add</i> <i>For >5 To 20, Deduct</i> <i>For >20 To 50, Deduct</i> <i>For >50, Deduct</i>	140.42 13.46 -10.39 -15.58 -22.60	
32 91 13 16-0011 CY Pea Gravel Mulch <i>For Work On Slopes >2.5:1, Add</i> <i>For >5 To 20, Deduct</i> <i>For >20 To 50, Deduct</i> <i>For >50, Deduct</i>	100.98 13.46 -8.41 -12.62 -17.67	
32 91 13 16-0012 CY Chunk Recycled Tire Mulch <i>For Work On Slopes >2.5:1, Add</i> <i>For >5 To 20, Deduct</i> <i>For >20 To 50, Deduct</i> <i>For >50, Deduct</i>	216.56 17.06 -15.09 -22.64 -33.47	
32 91 13 16-0013 CY Chunk Colored Recycled Tire Mulch <i>For Work On Slopes >2.5:1, Add</i> <i>For >5 To 20, Deduct</i> <i>For >20 To 50, Deduct</i> <i>For >50, Deduct</i>	345.93 17.06 -21.56 -32.34 -49.64	
32 91 13 16-0014 CY Shredded Recycled Tire Mulch <i>For Work On Slopes >2.5:1, Add</i> <i>For >5 To 20, Deduct</i> <i>For >20 To 50, Deduct</i> <i>For >50, Deduct</i>	347.81 17.06 -21.66 -32.48 -49.87	



		Exterior Improvements	32
		Planting	32 90
		Planting Preparation	32 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 16-0015 CY Shredded Colored Recycled Tire Mulch	606.56	
For Work On Slopes >2.5:1, Add	17.06	
For >5 To 20, Deduct	-34.59	
For >20 To 50, Deduct	-51.89	
For >50, Deduct	-82.22	
32 91 13 16-0016 EA Pine Straw Mulch Bale.....	10.26	
Note: Covers 50 SF at a thickness of 2" to 4" forming a uniform mat through which none of the original ground surface can be seen.		
For Work On Slopes >2.5:1, Add	0.74	
For >100 To 250, Deduct	-0.70	
For >250 To 500, Deduct	-0.89	
For >500, Deduct	-1.21	
32 91 13 16-0017 EA Wheat Straw Mulch Bale.....	10.50	
Note: Covers 350 SF forming a uniform mat through which 20 to 40% of the original ground surface can be seen.		
For Work On Slopes >2.5:1, Add	0.56	
For >100 To 250, Deduct	-0.66	
For >250 To 500, Deduct	-0.80	
For >500, Deduct	-1.19	
32 91 13 16-0018 CY Stone/Gravel Mulch, Marble Chips	318.41	
For Work On Slopes >2.5:1, Add	13.46	
For >5 To 20, Deduct	-19.29	
For >20 To 50, Deduct	-28.93	
For >50, Deduct	-44.85	
32 91 13 16-0019 CY Stone Mulch, Decomposed Granite Chips.....	130.54	
For Work On Slopes >2.5:1, Add	13.46	
For >5 To 20, Deduct	-9.89	
For >20 To 50, Deduct	-14.84	
For >50, Deduct	-21.37	
32 91 13 16-0020 Compost Soil Amendment (AgriService) (32 91 13 16)		
Note: Includes loading, delivery up to 15 miles and spreading. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles.		
32 91 13 16-0021 CY Humic Compost (OIM)	86.23	
Note: (Agri Service or Equal)		
For Work On Slopes >2.5:1, Add	13.46	
For >100 To 1,000, Deduct	-14.41	
For >1,000, Deduct	-22.08	
32 91 13 26 Planting Beds (32 91 13)		
Note: Not for use when installing trees and shrubs.		
32 91 13 26-0001 Plant Bed Preparation (32 91 13 26)		
Note: Not for use when installing trees and shrubs.		
32 91 13 26-0002 SF Prepare And Mix Plant Bed, Up To 8" Deep By Machine	1.04	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	0.21	
32 91 13 26-0003 SF Prepare And Mix Plant Bed, 9" To 13" Deep By Machine.....	1.19	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	0.24	
32 91 13 26-0004 SF Prepare And Mix Plant Bed, 14" To 18" Deep By Machine.....	1.41	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	0.28	
32 91 13 26-0005 SF Prepare And Mix Plant Bed By Hand, Up To 8" Deep	4.59	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	0.92	
32 91 13 26-0006 SF Prepare And Mix Plant Bed By Hand, 9" To 13" Deep.....	5.27	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	1.05	
32 91 13 26-0007 SF Prepare And Mix Plant Bed By Hand, 14" To 18" Deep.....	6.19	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	1.24	
32 91 13 26-0008 Plant Bed Preparation With Humic Compost (32 91 13 26)		
32 91 13 26-0009 SF Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 3 CY Per 1,000 SF).....	1.14	
Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.		
For Work On Slopes >2.5:1, Add	0.22	
For >1,000 To 5,000, Deduct	-0.16	
For >5,000 To 10,000, Deduct	-0.27	
For >10,000 To 20,000, Deduct	-0.54	
For >20,000, Deduct	-0.76	

32 Exterior Improvements**32 90 Planting****32 91 Planting Preparation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91	13 26-0010	SF	Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 6 CY Per 1,000 SF).....	1.42	
			Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.		
			For Work On Slopes >2.5:1, Add	0.26	
			For >1,000 To 5,000, Deduct	-0.20	
			For >5,000 To 10,000, Deduct	-0.33	
			For >10,000 To 20,000, Deduct	-0.66	
			For >20,000, Deduct	-0.93	
32 91	13 26-0011	SF	Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 9 CY Per 1,000 SF).....	1.69	
			Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.		
			For Work On Slopes >2.5:1, Add	0.30	
			For >1,000 To 5,000, Deduct	-0.23	
			For >5,000 To 10,000, Deduct	-0.38	
			For >10,000 To 20,000, Deduct	-0.77	
			For >20,000, Deduct	-1.08	
32 91	13 26-0012		Planting Pit Preparation (32 91 13 26)		
			Note: Not for use when installing trees and shrubs.		
32 91	13 26-0013	CY	Excavate Planting Pit By Hand, Sandy Soil	79.34	
			Note: For use with existing planting pits.		
			For Work On Slopes >2.5:1, Add	15.87	
32 91	13 26-0014	CY	Excavate Planting Pit By Hand, Heavy Soil	158.70	
			Note: For use with existing planting pits.		
			For Work On Slopes >2.5:1, Add	31.74	
32 91	13 26-0015	CY	Excavate Planting Pit By Machine, Sandy Soil	13.30	
			Note: For use with existing planting pits.		
			For Work On Slopes >2.5:1, Add	2.66	
32 91	13 26-0016	CY	Excavate Planting Pit By Machine, Heavy Soil	17.31	
			Note: For use with existing planting pits.		
			For Work On Slopes >2.5:1, Add	3.46	
32 91	13 26-0017	CY	Backfill Planting Pit By Hand With Topsoil From Stockpile	70.51	
			For Work On Slopes >2.5:1, Add	14.10	
32 91	13 26-0018	CY	Backfill Planting Pit By Hand With Contractor Furnished Planting Mix.....	152.04	
			For Work On Slopes >2.5:1, Add	13.24	
32 91	13 26-0019	CY	Backfill Planting Pit By Machine, With Topsoil From Stockpile	7.05	
			For Work On Slopes >2.5:1, Add	1.41	
32 91	13 26-0020	CY	Backfill Planting Pit By Machine, With Contractor Furnished Planting Mix.....	104.98	
			For Work On Slopes >2.5:1, Add	3.83	
32 91	13 26-0021		Weed Barrier (32 91 13 26)		
32 91	13 26-0022	SY	Up To 3 Oz/SY Non Woven, Polypropylene Weed Barrier	2.17	
			For Work On Slopes >2.5:1, Add	0.13	
32 91	13 26-0023	SY	4 Oz/SY Woven, Polypropylene Weed Barrier.....	2.97	
			For Work On Slopes >2.5:1, Add	0.13	
32 91	13 26-0024	SY	5 Oz/SY Woven, Needle Punched Polypropylene Weed Barrier	3.32	
			For Work On Slopes >2.5:1, Add	0.13	
32 91	13 33		Soil Conditioners (32 91 13)		
32 91	13 33-0001		Spread Soil Conditioners (32 91 13 33)		
32 91	13 33-0002	SY	Aluminum Sulfate 1 LB/SY, Push Spreader.....	0.40	
32 91	13 33-0003	MSF	Aluminum Sulfate 110 LB/MSF Tractor Spreader.....	38.26	
32 91	13 33-0004	MSF	Fertilizer, 20 LB/MSF, Push Spreader	6.63	
32 91	13 33-0005	MSF	Fertilizer, 20 LB/MSF, Tractor Spread	2.87	
32 91	13 33-0006	MSF	Fertilizer, 20 LB/MSF, Truck Spread.....	5.32	
32 91	13 33-0007	SY	Pelletized Lime, 1 LB/SY, Push Spreader.....	0.10	
32 91	13 33-0008	MSF	Pelletized Lime, 110 LB/MSF, Tractor Spreader	7.27	
32 91	13 33-0009	SY	Perlite, 1" Deep, Push Spreader	3.48	
32 91	13 33-0010	MSF	Perlite, 1" Deep, Tractor Spreader	361.58	
32 91	13 33-0011	SY	Vermiculite, Push Spreader	3.23	
32 91	13 33-0012	MSF	Vermiculite, Tractor Spreader	353.20	
32 91	13 33-0013	SY	Humate Granular Soil Conditioner, 0.10 LB/SY, Push Spreader	0.21	
32 91	13 33-0014	MSF	Humate Granular Soil Conditioner, 10 LB/MSF, Tractor Spreader	18.90	
32 91	13 36		Lawn Bed Preparation (32 91 13)		
32 91	13 36-0001		Lawn Bed Preparation (32 91 13 36)		
32 91	13 36-0002	MSF	Rake Topsoil With Machine	82.18	
32 91	13 36-0003	MSF	Rake Topsoil By Hand	63.47	
32 91	13 36-0004	MSF	Screen Loam By Hand.....	42.31	
32 91	13 36-0005	SY	Roll Topsoil With Machine	1.07	
32 91	13 36-0006	SY	Roll Topsoil By Hand.....	2.83	
32 91	13 36-0007	MSF	Removal Of Rocks And Debris With Machine.....	9.72	
32 91	13 36-0008	MSF	Removal Of Rocks And Debris By Hand.....	29.75	
32 91	13 36-0009	MSF	Root Raking And Loading, No Boulders	50.86	
			For >45 to 225, Deduct	-35.60	
			For >225, Deduct	-45.77	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 36-0010 MSF Root Raking And Loading, With Boulders.....	84.77	
For >45 to 225, Deduct	-59.34	
For >225, Deduct	-76.29	
32 91 13 36-0011 MSF Up To 6" Deep Tilling Topsoil With Tractor.....	4.60	
32 91 13 36-0012 MSF >6" To 12" Deep Tilling Topsoil With Tractor.....	9.34	
For Work On Slopes >2.5:1, Add	1.87	
32 91 13 36-0013 SY Up To 2" Deep Tilling Topsoil With Rototiller.....	0.68	
32 91 13 36-0014 SY >2" To 4" Deep Tilling Topsoil With Rototiller.....	0.81	
32 91 13 36-0015 SY >4" To 6" Deep Tilling Topsoil With Rototiller.....	1.02	
32 91 13 36-0016 LF "V" Cut Soil For Edge Of Planting Beds.....	1.13	
32 91 13 36-0017 Sod Removal (32 91 13 36)		
32 91 13 36-0018 SY Removal Of Sod By Hand.....	5.35	
For Work On Slopes >2.5:1, Add	1.07	
32 91 13 36-0019 SY Removal Of Sod With Machine.....	0.63	
For Work On Slopes >2.5:1, Add	0.13	
32 91 13 36-0020 SY Pile Sod By Hand.....	3.17	
For Work On Slopes >2.5:1, Add	0.63	
32 91 13 36-0021 SY Pile Sod With Machine.....	1.17	
For Work On Slopes >2.5:1, Add	0.23	
32 91 19 Landscape Grading (32 91)		
32 91 19 13 Topsoil Placement and Grading (32 91 19)		
32 91 19 13-0001 Remove And Stockpile Topsoil On Site (32 91 19 13)		
32 91 19 13-0002 CY Removal Of Topsoil, 4" Deep Stockpile On Site.....	5.10	
32 91 19 13-0003 CY Removal Of Topsoil, 6" Deep Stockpile On Site.....	5.06	
32 91 19 13-0004 Screening Topsoil (32 91 19 13)		
32 91 19 13-0005 CY Screen Topsoil With Vibrating Screen, Wet Material (Organic).....	10.92	
32 91 19 13-0006 CY Screen Topsoil With Vibrating Screen, Dry Material.....	7.28	
32 91 19 13-0007 Spreading Topsoil From Stockpile (32 91 19 13)		
32 91 19 13-0008 CY Spread Topsoil By Machine From Stockpile.....	7.98	
32 91 19 13-0009 CY Spread Topsoil By Hand From Stockpile.....	60.56	
32 91 19 13-0010 Furnish And Place Imported Screened Topsoil (32 91 19 13)		
Note: Includes delivery up to 15 miles from the closest approved source and spread by machine. Excludes hand spreading. See CSI section 01 74 19 00-0050 for hauling greater than 15 miles, 31 23 16 36-0030 for hand spreading.		
32 91 19 13-0011 SY Furnish And Place Imported Screened Topsoil, 2" Deep.....	5.51	
For Unscreened, Deduct	-0.90	
32 91 19 13-0012 SY Furnish And Place Imported Screened Topsoil, 4" Deep.....	10.71	
For Unscreened, Deduct	-1.80	
32 91 19 13-0013 SY Furnish And Place Imported Screened Topsoil, 6" Deep.....	15.68	
For Unscreened, Deduct	-2.70	
32 91 19 13-0014 SY Furnish And Place Imported Screened Topsoil, 9" Deep.....	22.94	
For Unscreened, Deduct	-4.05	
32 91 19 13-0015 SY Furnish And Place Imported Screened Topsoil, 12" Deep.....	30.18	
For Unscreened, Deduct	-5.39	
32 91 19 13-0016 CY Furnish And Place Imported Screened Topsoil, Over 12" Deep.....	85.23	
For Unscreened, Deduct	-16.18	
32 91 19 13-0017 Scarify Soil For Planting Preparation (32 91 19 13)		
Note: Ripped in multiple directions with 3" maximum clods.		
32 91 19 13-0018 MSF Up To 5,000 SF Scarify Up To 8" Soil With Machine.....	62.23	
32 91 19 13-0019 MSF >5,000 To 20,000 SF Scarify Up To 8" Soil With Machine.....	43.55	
32 91 19 13-0020 MSF >20,000 SF Scarify Up To 8" Soil With Machine.....	25.68	
32 92 Turf and Grasses (32 92)		
32 92 16 Plugging (32 92)		
32 92 16 00-0001 Bermuda Or Centipede Plugging, 1" Deep (32 92 16)		
Note: Includes fine grade and soil preparation.		
32 92 16 00-0002 6" On Center Plugging (32 92 16 00-0001)		
32 92 16 00-0003 MSF Plugging By Hand, 6" On Center.....	208.39	
32 92 16 00-0004 MSF Plugging By Walk Behind Planter, 6" On Center.....	31.55	
32 92 16 00-0005 MSF Plugging By Towed Planter, 6" On Center.....	24.35	
32 92 16 00-0006 9" On Center Plugging (32 92 16 00-0001)		
32 92 16 00-0007 MSF Plugging By Hand, 9" On Center.....	159.77	

32 Exterior Improvements

32 90 Planting

32 92 Turf and Grasses



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 16 00-0008 MSF Plugging By Walk Behind Planter, 9" On Center.....	24.56	
32 92 16 00-0009 MSF Plugging By Towed Planter, 9" On Center.....	18.22	
32 92 16 00-0010 12" On Center Plugging (32 92 16 00-0001)		
32 92 16 00-0011 MSF Plugging By Hand, 12" On Center.....	133.94	
32 92 16 00-0012 MSF Plugging By Walk Behind Planter, 12" On Center.....	16.47	
32 92 16 00-0013 MSF Plugging By Towed Planter, 12" On Center.....	11.59	
32 92 19 Seeding (32 92)		
32 92 19 13 Mechanical Seeding (32 92 19)		
Note: Includes fertilizing, liming, mixing, seeding and initial watering.		
32 92 19 13-0001 Tractor Spreader Mechanical Seeding (32 92 19 13)		
Note: Excludes straw. See CSI section 32 91 13 16-0017 for wheat straw mulch.		
32 92 19 13-0002 MSF Common Bluegrass, Tractor Spreader.....	46.73	
Note: 4 LB/MSF spread rate.		
32 92 19 13-0003 MSF Tall Fescue, Tractor Spreader.....	36.47	
Note: 5.5 LB/MSF spread rate.		
32 92 19 13-0004 MSF Rye, Tractor Spreader.....	37.19	
Note: 10 LB/MSF spread rate.		
32 92 19 13-0005 MSF Shade Mix, Tractor Spreader.....	40.89	
Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.		
32 92 19 13-0006 MSF Turf Mix, Tractor Spreader.....	43.55	
Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.		
32 92 19 13-0007 MSF Slope Mix, Tractor Spreader.....	40.01	
Note: 6 LB/MSF spread rate.		
32 92 19 13-0008 MSF Utility Mix, Tractor Spreader.....	35.59	
Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.		
32 92 19 13-0009 MSF Wild Flower Mix, Tractor Spreader.....	27.27	
Note: 0.10 LB/MSF spread rate.		
32 92 19 13-0010 MSF Crown Vetch Mix, Tractor Spreader.....	93.10	
Note: 4 LB/MSF spread rate.		
32 92 19 13-0011 MSF Athletic Mix, Tractor Spreader.....	54.17	
Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.		
32 92 19 13-0012 MSF White Clover Mix, Tractor Spreader.....	27.18	
Note: 7 LB/MSF spread rate.		
32 92 19 13-0013 MSF Ladino Clover Mix, Tractor Spreader.....	30.72	
Note: 7 LB/MSF spread rate.		
32 92 19 13-0014 Hydro Or Air Mechanical Seeding (32 92 19 13)		
32 92 19 13-0015 MSF Common Bluegrass, Hydro Or Air Seeding.....	94.34	
Note: 4 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	96.73	
For >1 To 4, Add	61.77	
For >4 To 7.5, Add	41.61	
For >7.5 To 10, Add	20.81	
For >45, Deduct	-7.40	
For Tackifier, Add	1.33	
32 92 19 13-0016 MSF Tall Fescue, Hydro Or Air Seeding.....	100.53	
Note: 5.5 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	99.21	
For >1 To 4, Add	63.01	
For >4 To 7.5, Add	42.23	
For >7.5 To 10, Add	21.12	
For >45, Deduct	-7.71	
For Tackifier, Add	1.33	
32 92 19 13-0017 MSF Rye, Hydro Or Air Spread.....	94.60	
Note: 10 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	96.83	
For >1 To 4, Add	61.82	
For >4 To 7.5, Add	41.64	
For >7.5 To 10, Add	20.82	
For >45, Deduct	-7.41	
For Tackifier, Add	1.33	
32 92 19 13-0018 MSF Shade Mix, Hydro Or Air Seeding.....	94.34	
Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.		
For Spot Areas Up To 1, Add	96.73	
For >1 To 4, Add	61.77	
For >4 To 7.5, Add	41.61	
For >7.5 To 10, Add	20.81	
For >45, Deduct	-7.40	
For Tackifier, Add	1.33	
32 92 19 13-0019 MSF Turf Mix, Hydro Or Air Seeding.....	100.53	
Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.		
For Spot Areas Up To 1, Add	99.21	
For >1 To 4, Add	63.01	
For >4 To 7.5, Add	42.23	
For >7.5 To 10, Add	21.12	
For >45, Deduct	-7.71	
For Tackifier, Add	1.33	



		Exterior Improvements	32
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 13-0020 MSF Slope Mix, Hydro Or Air Seeding.....	97.88	
Note: 6 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	98.15	
For >1 To 4, Add	62.48	
For >4 To 7.5, Add	41.97	
For >7.5 To 10, Add	20.98	
For >45, Deduct	-7.58	
For Tackifier, Add	1.33	
32 92 19 13-0021 MSF Utility Mix, Hydro Or Air Seeding.....	95.73	
Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.		
For Spot Areas Up To 1, Add	97.29	
For >1 To 4, Add	62.05	
For >4 To 7.5, Add	41.75	
For >7.5 To 10, Add	20.88	
For >45, Deduct	-7.47	
For Tackifier, Add	1.33	
32 92 19 13-0022 MSF Wild Flower Mix, Hydro Or Air Seeding.....	88.84	
Note: 0.10 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	94.53	
For >1 To 4, Add	60.67	
For >4 To 7.5, Add	41.06	
For >7.5 To 10, Add	20.53	
For >45, Deduct	-7.12	
For Tackifier, Add	1.33	
32 92 19 13-0023 MSF Crown Vetch Mix, Hydro Or Air Seeding.....	150.97	
Note: 4 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	119.38	
For >1 To 4, Add	73.10	
For >4 To 7.5, Add	47.28	
For >7.5 To 10, Add	23.64	
For >45, Deduct	-10.23	
For Tackifier, Add	1.33	
32 92 19 13-0024 MSF Athletic Mix, Hydro Or Air Seeding.....	131.52	
Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.		
For Spot Areas Up To 1, Add	111.60	
For >1 To 4, Add	69.21	
For >4 To 7.5, Add	45.33	
For >7.5 To 10, Add	22.67	
For >45, Deduct	-9.26	
For Tackifier, Add	1.33	
32 92 19 13-0025 MSF White Clover Mix, Hydro Or Air Seeding.....	80.44	
Note: 7 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	91.17	
For >1 To 4, Add	58.99	
For >4 To 7.5, Add	40.22	
For >7.5 To 10, Add	20.11	
For >45, Deduct	-6.70	
For Tackifier, Add	1.33	
32 92 19 13-0026 MSF Ladino Clover Mix, Hydro Or Air Seeding.....	90.80	
Note: 7 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	95.31	
For >1 To 4, Add	61.06	
For >4 To 7.5, Add	41.26	
For >7.5 To 10, Add	20.63	
For >45, Deduct	-7.22	
For Tackifier, Add	1.33	
32 92 19 13-0027 MSF 60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Hydro Or Air Spread.....	96.11	
Note: 4 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	97.44	
For >1 To 4, Add	62.13	
For >4 To 7.5, Add	41.79	
For >7.5 To 10, Add	20.89	
For >45, Deduct	-7.49	
For Tackifier, Add	1.33	
32 92 19 13-0028 MSF 2,500 LB/Acre, High Performance - Flexible Growth Medium.....	119.35	
Note: Applied with seed. Excludes seed.		
For >45, Deduct	-7.31	
32 92 19 13-0029 MSF 3,000 LB/Acre, High Performance - Flexible Growth Medium.....	139.20	
Note: Applied with seed. Excludes seed.		
For >45, Deduct	-8.37	
32 92 19 13-0030 MSF 3,500 LB/Acre, High Performance - Flexible Growth Medium.....	159.13	
Note: Applied with seed. Excludes seed.		
For >45, Deduct	-9.44	
32 92 19 13-0031 MSF 4,000 LB/Acre, High Performance - Flexible Growth Medium.....	179.10	
Note: Applied with seed. Excludes seed.		
For >45, Deduct	-10.51	
32 92 19 13-0032 MSF 4,500 LB/Acre, High Performance - Flexible Growth Medium.....	199.16	
Note: Applied with seed. Excludes seed.		
For >45, Deduct	-11.59	

32 92 19 19 Seeding by Hand (32 92 19)

Note: Includes fertilizing, liming, mixing, seeding and initial watering. See CSI section 32 91 13 16-0017 for wheat straw mulch.

32 Exterior Improvements**32 90 Planting****32 92 Turf and Grasses**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 19-0001			Push Spreader Or Hand Seeding <small>(32 92 19 19)</small>		
			Note: Excludes straw. See CSI section 32 91 13 16-0017 for wheat straw mulch.		
32 92 19 19-0002	MSF		Common Bluegrass, Push Spreader Or Hand.....	103.75	
			Note: 4 LB/MSF spread rate.		
			For >5 To 20, Deduct	-7.17	
			For >20 To 45, Deduct	-13.73	
			For >45, Deduct	-22.27	
32 92 19 19-0003	MSF		Tall Fescue, Push Spreader Or Hand.....	93.49	
			Note: 5.5 LB/MSF spread rate.		
			For >5 To 20, Deduct	-6.66	
			For >20 To 45, Deduct	-12.96	
			For >45, Deduct	-21.25	
32 92 19 19-0004	MSF		Rye, Push Spreader Or Hand.....	94.21	
			Note: 10 LB/MSF spread rate.		
			For >5 To 20, Deduct	-6.69	
			For >20 To 45, Deduct	-13.02	
			For >45, Deduct	-21.32	
32 92 19 19-0005	MSF		Shade Mix, Push Spreader Or Hand.....	97.91	
			Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.		
			For >5 To 20, Deduct	-6.88	
			For >20 To 45, Deduct	-13.29	
			For >45, Deduct	-21.69	
32 92 19 19-0006	MSF		Turf Mix, Push Spreader Or Hand.....	100.57	
			Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.		
			For >5 To 20, Deduct	-7.01	
			For >20 To 45, Deduct	-13.49	
			For >45, Deduct	-21.96	
32 92 19 19-0007	MSF		Slope Mix, Push Spreader Or Hand.....	97.03	
			Note: 6 LB/MSF spread rate.		
			For >5 To 20, Deduct	-6.83	
			For >20 To 45, Deduct	-13.23	
			For >45, Deduct	-21.60	
32 92 19 19-0008	MSF		Utility Mix, Push Spreader Or Hand.....	92.61	
			Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.		
			For >5 To 20, Deduct	-6.61	
			For >20 To 45, Deduct	-12.90	
			For >45, Deduct	-21.16	
32 92 19 19-0009	MSF		Wild Flower Mix, Push Spreader Or Hand.....	84.29	
			Note: 0.10 LB/MSF spread rate.		
			For >5 To 20, Deduct	-6.20	
			For >20 To 45, Deduct	-12.27	
			For >45, Deduct	-20.33	
32 92 19 19-0010	MSF		Crown Vetch Mix, Push Spreader Or Hand.....	150.12	
			Note: 4 LB/MSF spread rate.		
			For >5 To 20, Deduct	-9.49	
			For >20 To 45, Deduct	-17.21	
			For >45, Deduct	-26.91	
32 92 19 19-0011	MSF		Athletic Mix, Push Spreader Or Hand.....	111.19	
			Note: 8 LB/MSF spread rate. Mixture of drought resistant bluegrass, tall fescue and Kentucky bluegrass.		
			For >5 To 20, Deduct	-7.54	
			For >20 To 45, Deduct	-14.29	
			For >45, Deduct	-23.02	
32 92 19 19-0012	MSF		White Clover Mix, Push Spreader Or Hand.....	84.20	
			Note: 7 LB/MSF spread rate.		
			For >5 To 20, Deduct	-6.19	
			For >20 To 45, Deduct	-12.26	
			For >45, Deduct	-20.32	
32 92 19 19-0013	MSF		Ladino Clover Mix, Push Spreader Or Hand.....	87.74	
			Note: 7 LB/MSF spread rate.		
			For >5 To 20, Deduct	-6.37	
			For >20 To 45, Deduct	-12.53	
			For >45, Deduct	-20.67	
32 92 19 19-0014	MSF		100% Kentucky Bluegrass, Push Spreader Or Hand.....	105.44	
			Note: 3.3 LB/MSF spread rate.		
			For >5 To 20, Deduct	-7.26	
			For >20 To 45, Deduct	-13.86	
			For >45, Deduct	-22.44	
32 92 19 19-0015	MSF		70% Kentucky Bluegrass And 30% Fescue, Push Spreader Or Hand.....	100.57	
			Note: 3.3 LB/MSF spread rate.		
			For >5 To 20, Deduct	-7.01	
			For >20 To 45, Deduct	-13.49	
			For >45, Deduct	-21.96	
32 92 19 19-0016	MSF		50% Kentucky Bluegrass And 50% Fescue, Push Spreader Or Hand.....	97.03	
			Note: 3.3 LB/MSF spread rate.		
			For >5 To 20, Deduct	-6.83	
			For >20 To 45, Deduct	-13.23	
			For >45, Deduct	-21.60	
32 92 19 19-0017	MSF		50% Kentucky Bluegrass And 50% Perennial Rye, Push Spreader Or Hand.....	104.11	
			Note: 4.4 LB/MSF spread rate.		
			For >5 To 20, Deduct	-7.19	
			For >20 To 45, Deduct	-13.76	
			For >45, Deduct	-22.31	



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		Planting	32 90
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 19-0018	MSF		60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Push Spreader Or Hand.....	98.80	
			Note: 3.3 LB/MSF spread rate.		
			For >5 To 20, Deduct	-6.92	
			For >20 To 45, Deduct	-13.36	
			For >45, Deduct	-21.78	
32 92 19 19-0019	MSF		40% Creeping Red Fescue, 30% Kentucky Bluegrass, 10% Red Top, And 20% Blue Tag Perennial Rye, Push Spreader Or Hand.....	100.57	
			Note: 3.3 LB/MSF spread rate.		
			For >5 To 20, Deduct	-7.01	
			For >20 To 45, Deduct	-13.49	
			For >45, Deduct	-21.96	
32 92 23			Sodding (32 92)		
			Note: Includes raking preparation, water thoroughly and allow surface to dry before planting, rolling of sod, sanding seams for (up to 16" wide by 24" long) squares or (up to 24" wide by 54" long) rolls and initial watering within 2 hours after planting.		
32 92 23 00-0001			Bermuda Sod (32 92 23)		
32 92 23 00-0002	MSF		Up To 1,000 SF, Bermuda Sod, Installed On Level Ground.....	1,529.01	
32 92 23 00-0003	MSF		>1,000 To 4,000 SF, Bermuda Sod, Installed On Level Ground.....	1,277.01	
32 92 23 00-0004	MSF		>4,000 To 8,000 SF, Bermuda Sod, Installed On Level Ground.....	1,085.78	
32 92 23 00-0005	MSF		>8,000 SF, Bermuda Sod, Installed On Level Ground.....	944.40	
32 92 23 00-0006	MSF		Up To 1,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,841.55	
32 92 23 00-0007	MSF		>1,000 To 4,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,541.43	
32 92 23 00-0008	MSF		>4,000 To 8,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,268.20	
32 92 23 00-0009	MSF		>8,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,099.53	
32 92 23 00-0010			Zoysia Sod (32 92 23)		
32 92 23 00-0011	MSF		Up To 1,000 SF, Zoysia Sod, Installed On Level Ground.....	2,277.48	
32 92 23 00-0012	MSF		>1,000 To 4,000 SF, Zoysia Sod, Installed On Level Ground.....	1,836.65	
32 92 23 00-0013	MSF		>4,000 To 8,000 SF, Zoysia Sod, Installed On Level Ground.....	1,552.15	
32 92 23 00-0014	MSF		>8,000 SF, Zoysia Sod, Installed On Level Ground.....	1,317.49	
32 92 23 00-0015	MSF		Up To 1,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,587.74	
32 92 23 00-0016	MSF		>1,000 To 4,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,101.07	
32 92 23 00-0017	MSF		>4,000 To 8,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,734.57	
32 92 23 00-0018	MSF		>8,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,472.62	
32 92 23 00-0019			Tall Fescue Sod (32 92 23)		
32 92 23 00-0020	MSF		Up To 1,000 SF, Tall Fescue Sod, Installed On Level Ground.....	2,242.85	
			For Hybrid Fescue "Marathon", Add	158.43	
32 92 23 00-0021	MSF		>1,000 To 4,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,810.68	
			For Hybrid Fescue "Marathon", Add	119.32	
32 92 23 00-0022	MSF		>4,000 To 8,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,530.50	
			For Hybrid Fescue "Marathon", Add	99.76	
32 92 23 00-0023	MSF		>8,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,300.18	
			For Hybrid Fescue "Marathon", Add	80.21	
32 92 23 00-0024	MSF		Up To 1,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,553.11	
			For Hybrid Fescue "Marathon", Add	158.43	
32 92 23 00-0025	MSF		>1,000 To 4,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,075.10	
			For Hybrid Fescue "Marathon", Add	119.32	
32 92 23 00-0026	MSF		>4,000 To 8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,712.92	
			For Hybrid Fescue "Marathon", Add	99.76	
32 92 23 00-0027	MSF		>8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,455.31	
			For Hybrid Fescue "Marathon", Add	80.21	
32 92 23 00-0028			Centipede Sod (32 92 23)		
32 92 23 00-0029	MSF		Up To 1,000 SF, Centipede Sod, Installed On Level Ground.....	1,989.03	
32 92 23 00-0030	MSF		>1,000 To 4,000 SF, Centipede Sod, Installed On Level Ground.....	1,620.31	
32 92 23 00-0031	MSF		>4,000 To 8,000 SF, Centipede Sod, Installed On Level Ground.....	1,371.86	
32 92 23 00-0032	MSF		>8,000 SF, Centipede Sod, Installed On Level Ground.....	1,173.27	
32 92 23 00-0033	MSF		Up To 1,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,299.29	
32 92 23 00-0034	MSF		>1,000 To 4,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,884.73	
32 92 23 00-0035	MSF		>4,000 To 8,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,554.28	
32 92 23 00-0036	MSF		>8,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,328.40	
32 92 23 00-0037			Kentucky Blue Grass Sod (32 92 23)		
32 92 23 00-0038	MSF		Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground.....	1,887.31	
32 92 23 00-0039	MSF		>1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground.....	1,544.02	
32 92 23 00-0040	MSF		>4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground.....	1,308.29	
32 92 23 00-0041	MSF		>8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground.....	1,122.41	
32 92 23 00-0042	MSF		Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,197.57	
32 92 23 00-0043	MSF		>1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,808.44	
32 92 23 00-0044	MSF		>4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,490.71	
32 92 23 00-0045	MSF		>8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,277.54	
32 92 23 00-0046			Ballfield Mix 2A Sod 10% Bermuda Shorts, 10% Barclay, 80% Turfstar (32 92 23)		

32 Exterior Improvements**32 90 Planting****32 92 Turf and Grasses**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
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32 92 23 00-0047	MSF	Up To 1,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	1,734.73
32 92 23 00-0048	MSF	>1,000 To 4,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	1,429.59
32 92 23 00-0049	MSF	>4,000 To 8,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	1,212.93
32 92 23 00-0050	MSF	>8,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	1,046.12
32 92 23 00-0051	MSF	Up To 1,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	2,044.99
32 92 23 00-0052	MSF	>1,000 To 4,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	1,694.01
32 92 23 00-0053	MSF	>4,000 To 8,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	1,395.35
32 92 23 00-0054	MSF	>8,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	1,201.25

32 92 23 00-0055 GN-1 Sod (32 92 23)

32 92 23 00-0056	MSF	Up To 1,000 SF, GN-1 Sod, Installed On Level Ground	2,262.89
32 92 23 00-0057	MSF	>1,000 To 4,000 SF, GN-1 Sod, Installed On Level Ground	1,825.71
32 92 23 00-0058	MSF	>4,000 To 8,000 SF, GN-1 Sod, Installed On Level Ground	1,543.03
32 92 23 00-0059	MSF	>8,000 SF, GN-1 Sod, Installed On Level Ground	1,310.20
32 92 23 00-0060	MSF	Up To 1,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes	2,573.15
32 92 23 00-0061	MSF	>1,000 To 4,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes	2,090.13
32 92 23 00-0062	MSF	>4,000 To 8,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes	1,725.45
32 92 23 00-0063	MSF	>8,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes	1,465.33

32 92 23 00-0064 Tifgreen Bermuda Sod (32 92 23)

32 92 23 00-0065	MSF	Up To 1,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground	2,378.30
32 92 23 00-0066	MSF	>1,000 To 4,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground	1,912.27
32 92 23 00-0067	MSF	>4,000 To 8,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground	1,615.16
32 92 23 00-0068	MSF	>8,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground	1,367.90
32 92 23 00-0069	MSF	Up To 1,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	2,688.56
32 92 23 00-0070	MSF	>1,000 To 4,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	2,176.69
32 92 23 00-0071	MSF	>4,000 To 8,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	1,797.58
32 92 23 00-0072	MSF	>8,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	1,523.03

32 93 Plants (32 93)**32 93 13 Ground Covers** (32 93)

Note: Materials only. See CSI section 32 93 83 00-0057 for installation and planting of ground cover.

32 93 13 00-0001 Ornamental Grasses (32 93 13)

32 93 13 00-0002	EA	1 Gallon, Cortaderia selloana - Pampas Grass	30.65
32 93 13 00-0003	EA	2 Gallon, Cortaderia selloana - Pampas Grass	56.66
32 93 13 00-0004	EA	3 Gallon, Cortaderia selloana - Pampas Grass	102.97
32 93 13 00-0005	EA	5 Gallon, Cortaderia selloana - Pampas Grass	187.42
32 93 13 00-0006	EA	1 Quart, Imperata cylindrica - Japanese Blood Grass	23.46
32 93 13 00-0007	EA	1 Gallon, Imperata cylindrica - Japanese Blood Grass	31.20
32 93 13 00-0008	EA	2 Gallon, Imperata cylindrica - Japanese Blood Grass	33.39
32 93 13 00-0009	EA	1 Quart, Koeleria glauca - Blue Hair Grass	23.40
32 93 13 00-0010	EA	1 Gallon, Koeleria glauca - Blue Hair Grass	31.20
32 93 13 00-0011	EA	3 Gallon, Koeleria glauca - Blue Hair Grass	75.48
32 93 13 00-0012	EA	1 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass	29.62
32 93 13 00-0013	EA	3 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass	38.39
32 93 13 00-0014	EA	5 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass	73.39
32 93 13 00-0015	EA	1 Gallon, Miscanthus sinensis 'Zebrius' - Zebra Grass	27.49
32 93 13 00-0016	EA	3 Gallon, Miscanthus sinensis 'Zebrius' - Zebra Grass	43.22
32 93 13 00-0017	EA	5 Gallon, Miscanthus sinensis 'Zebrius' - Zebra Grass	73.97
32 93 13 00-0018	EA	1 Quart, Pennisetum setaceum - Fountain Grass	25.59
32 93 13 00-0019	EA	1 Gallon, Pennisetum setaceum - Fountain Grass	65.10
32 93 13 00-0020	EA	3 Gallon, Pennisetum setaceum - Fountain Grass	85.83
32 93 13 00-0021	EA	1 Gallon, Saccharum ravennae - Ravenna Grass	81.03
32 93 13 00-0022	EA	3 Gallon, Saccharum ravennae - Ravenna Grass	91.02
32 93 13 00-0023	EA	7 Gallon, Saccharum ravennae - Ravenna Grass	150.16
32 93 13 00-0024	EA	1 Gallon, Spartina pectinata - Variegated Cord Grass	43.99
32 93 13 00-0025	EA	2 Gallon, Spartina pectinata - Variegated Cord Grass	65.85
32 93 13 00-0026	EA	1 Quart, Stipa gigantea - Giant Feather Grass	33.58
32 93 13 00-0027	EA	1 Gallon, Stipa gigantea - Giant Feather Grass	46.80

32 93 13 00-0028 Ground Covers (32 93 13)

32 93 13 00-0029	EA	1 Gallon Agave Attenuata - Century Plant	11.44
32 93 13 00-0030	EA	5 Gallon Agave Attenuata - Century Plant	30.83
32 93 13 00-0031	EA	15 Gallon Agave Attenuata - Century Plant	101.94
32 93 13 00-0032	EA	1 Gallon Ceanothus 'Carmel Creeper' - Wild Lilac	9.76
32 93 13 00-0033	EA	5 Gallon Ceanothus 'Carmel Creeper' - Wild Lilac	27.15
32 93 13 00-0034	EA	1 Gallon Ceanothus 'Yankee Point' - Wild Lilac	9.76
32 93 13 00-0035	EA	5 Gallon Ceanothus 'Yankee Point' - Wild Lilac	25.37
32 93 13 00-0036	EA	1 Gallon Dietes Vegata - Fortnight Lily	8.55
32 93 13 00-0037	EA	5 Gallon Dietes Vegata - Fortnight Lily	21.08
32 93 13 00-0038	EA	1 Gallon Juncus Patens 'Elk Blue' - California Gray Rush	15.89
32 93 13 00-0039	EA	5 Gallon Juncus Patens 'Elk Blue' - California Gray Rush	41.75
32 93 13 00-0040	EA	4" Pot Miscanthus 'Morning Light' - NCN	11.91
32 93 13 00-0041	EA	20 Count Flat Miscanthus 'Morning Light' - NCN	175.75
32 93 13 00-0042	EA	1 Gallon Nassella Tenuissima - Mexican Feather Grass	15.89



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 13 00-0043	EA			1 Gallon Trachelospermum Jasminoides - Star Jasmine.....	8.64	
32 93 13 00-0044	EA			5 Gallon Trachelospermum Jasminoides - Star Jasmine.....	21.65	
32 93 13 00-0045	EA			1 Gallon Westringia Fruticosa - Coast Rosemary.....	8.55	
32 93 13 00-0046	EA			5 Gallon Westringia Fruticosa - Coast Rosemary.....	21.08	
32 93 13 00-0047	EA			15 Gallon Westringia Fruticosa - Coast Rosemary.....	86.52	
32 93 13 00-0048	EA			1 Quart Carex 'Bowles Golden' - Variegated Japanese Sedge.....	28.61	
32 93 13 00-0049	EA			1 Gallon Carex 'Bowles Golden' - Variegated Japanese Sedge.....	37.24	
32 93 13 00-0050	EA			2 Gallon Juniperus horizontalis 'Plumosa Compacta' - Andorra Creeping Juniper.....	47.14	
32 93 13 00-0051	EA			1 Quart Waldsteinia ternata - Barren Strawberry.....	8.10	
32 93 13 00-0052	EA			1 Gallon Waldsteinia ternata - Barren Strawberry.....	19.43	
32 93 13 00-0053	EA			1 Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....	26.45	
32 93 13 00-0054	EA			2 Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....	50.20	
32 93 13 00-0055	EA			5 Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....	88.52	
32 93 13 00-0056	EA			1 Gallon Liriope muscari 'Big Blue' - Big Blue Liriope.....	9.06	
32 93 13 00-0057	EA			1 Gallon Distictis buccinatoria - Blood Red Trumpet Vine.....	16.73	
32 93 13 00-0058	EA			5 Gallon Distictis buccinatoria - Blood Red Trumpet Vine.....	58.83	
32 93 13 00-0059	EA			1 Gallon Juniperus horizontalis 'Wiltoni' - Blue Rug Juniper.....	21.96	
32 93 13 00-0060	EA			4" Pot Parthenocissus tricuspidata - Boston Ivy.....	10.79	
32 93 13 00-0061	EA			1 Gallon Parthenocissus tricuspidata - Boston Ivy.....	24.61	
32 93 13 00-0062	EA			5 Gallon Parthenocissus tricuspidata - Boston Ivy.....	67.36	
32 93 13 00-0063	EA			3 Gallon Bougainvillea spectabilis - Bougainvillea.....	28.31	
32 93 13 00-0064	EA			1 Quart Iberis sempervirens - Candytuft.....	8.10	
32 93 13 00-0065	EA			1 Gallon Iberis sempervirens - Candytuft.....	19.43	
32 93 13 00-0066	EA			1 Gallon Gelsemium sempervirens - Carolina Jessamine.....	23.32	
32 93 13 00-0067	EA			5 Gallon Gelsemium sempervirens - Carolina Jessamine.....	84.20	
32 93 13 00-0068	EA			3" Pot Ajuga reptans - Carpet Bugle.....	4.86	
32 93 13 00-0069	EA			1 Quart Ajuga reptans - Carpet Bugle.....	8.09	
32 93 13 00-0070	EA			1 Gallon Ajuga reptans - Carpet Bugle.....	19.43	
32 93 13 00-0071	EA			24 Plant Flat Ajuga reptans - Carpet Bugle.....	83.66	
32 93 13 00-0072	EA			1 Gallon Macfadyena unguis-cati - Cat Claw Vine.....	19.43	
32 93 13 00-0073	EA			5 Gallon Macfadyena unguis-cati - Cat Claw Vine.....	84.20	
32 93 13 00-0074	EA			1 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	25.37	
32 93 13 00-0075	EA			3 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	56.14	
32 93 13 00-0076	EA			5 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	84.20	
32 93 13 00-0077	EA			1 Gallon Ranunculaceae - Clematis Varieties.....	27.89	
32 93 13 00-0078	EA			2 Gallon Ranunculaceae - Clematis Varieties.....	51.58	
32 93 13 00-0079	EA			1 Gallon Hydrangea petiolaris - Climbing Hydrangea.....	35.08	
32 93 13 00-0080	EA			2 Gallon Hydrangea petiolaris - Climbing Hydrangea.....	65.85	
32 93 13 00-0081	EA			5 Gallon Hydrangea petiolaris - Climbing Hydrangea.....	107.95	
32 93 13 00-0082	EA			4" Pot Lantana camera - Common Lantana.....	4.86	
32 93 13 00-0083	EA			1 Gallon Lantana camera - Common Lantana.....	14.03	
32 93 13 00-0084	EA			1 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia.....	16.73	
32 93 13 00-0085	EA			5 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia.....	55.05	
32 93 13 00-0086	EA			2 Quart Lysimachia nummularia - Creeping Jenny.....	8.10	
32 93 13 00-0087	EA			1 Gallon Lysimachia nummularia - Creeping Jenny.....	15.65	
32 93 13 00-0088	EA			2 Quart Liriope spicata - Creeping Lilytuft.....	14.03	
32 93 13 00-0089	EA			1 Gallon Liriope spicata - Creeping Lilytuft.....	25.37	
32 93 13 00-0090	EA			5 Gallon Liriope spicata - Creeping Lilytuft.....	53.44	
32 93 13 00-0091	EA			Bare Root Liriope spicata - Creeping Liriope.....	3.54	
32 93 13 00-0092	EA			3" Pot Rosmarinus officinalis 'Prostratus' - Creeping Rosemary.....	4.86	
32 93 13 00-0093	EA			1 Gallon Rosmarinus officinalis 'Prostratus' - Creeping Rosemary.....	19.43	
32 93 13 00-0094	EA			2-1/4" Pot Securigera varia - Crown Vetch.....	3.24	
32 93 13 00-0095	EA			50 Plant Flat Securigera varia - Crown Vetch.....	109.57	
32 93 13 00-0096	EA			1 Quart Senecio cineraria - Dusty Miller.....	8.10	
32 93 13 00-0097	EA			1 Gallon Senecio cineraria - Dusty Miller.....	19.43	
32 93 13 00-0098	EA			2 Gallon Aristolochia macrophylla - Dutchman's Pipe.....	67.47	
32 93 13 00-0099	EA			5 Gallon Aristolochia macrophylla - Dutchman's Pipe.....	123.60	
32 93 13 00-0100	EA			1 Gallon Ilex cornuta - Dwarf Holly.....	14.66	
32 93 13 00-0101	EA			3 Gallon Ilex cornuta - Dwarf Holly.....	31.41	
32 93 13 00-0102	EA			3 Gallon Rhamphiolepis umbellata 'Minor' - Dwarf Indian Hawthorn.....	31.41	
32 93 13 00-0103	EA			1 Gallon Tradescantia spathacea - Dwarf Oyster Plant.....	10.47	
32 93 13 00-0104	EA			2" To 3" Pot Hedera helix - English Ivy.....	4.86	
32 93 13 00-0105	EA			12" To 15" Runners Hedera helix - English Ivy.....	8.10	
32 93 13 00-0106	EA			1 Gallon Hedera helix - English Ivy.....	19.43	
32 93 13 00-0107	EA			50 Plant Flat Hedera helix - English Ivy.....	112.27	
32 93 13 00-0108	EA			4" Pot Lavandula angustifolia - English Lavender.....	7.02	
32 93 13 00-0109	EA			1 Quart Lavandula angustifolia - English Lavender.....	13.49	
32 93 13 00-0110	EA			1 Gallon Lavandula angustifolia - English Lavender.....	22.13	
32 93 13 00-0111	EA			1 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper.....	21.05	
32 93 13 00-0112	EA			2 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper.....	42.10	
32 93 13 00-0113	EA			1 Quart Arundo donax - Giant Reed.....	25.91	
32 93 13 00-0114	EA			1 Gallon Arundo donax - Giant Reed.....	37.24	
32 93 13 00-0115	EA			1 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle.....	22.13	
32 93 13 00-0116	EA			2 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle.....	42.10	
32 93 13 00-0117	EA			1 Quart Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass.....	28.61	
32 93 13 00-0118	EA			1 Gallon Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass.....	43.18	
32 93 13 00-0119	EA			3" Pot Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle.....	4.86	
32 93 13 00-0120	EA			1 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle.....	22.13	
32 93 13 00-0121	EA			2 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle.....	42.10	
32 93 13 00-0122	EA			1 Gallon Hardenbergia violacea - Happy Wanderer.....	19.43	
32 93 13 00-0123	EA			5 Gallon Hardenbergia violacea - Happy Wanderer.....	64.77	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 13 00-0124	EA	3 Gallon Hibiscus, Assorted Colors.....	25.31
32 93 13 00-0125	EA	1 Gallon Acorus gramineus - Japanese Sweet Flag.....	20.24
32 93 13 00-0126	EA	1 Gallon Jasminum volubile - Wax Jasmine.....	10.20
32 93 13 00-0127	EA	1 Gallon Jasminum volubile - Wax Jasmine.....	25.31
32 93 13 00-0128	EA	1 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper.....	12.71
32 93 13 00-0129	EA	3 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper.....	28.31
32 93 13 00-0130	EA	1 Gallon Cissus antarctica - Kangaroo Vine.....	15.65
32 93 13 00-0131	EA	5 Gallon Cissus antarctica - Kangaroo Vine.....	49.12
32 93 13 00-0132	EA	1 Quart Stachys byzantina - Lamb's Ear.....	8.10
32 93 13 00-0133	EA	1 Quart Stachys byzantina - Lamb's Ear.....	19.43
32 93 13 00-0134	EA	1 Gallon Lantana spp. Various Colors.....	11.46
32 93 13 00-0135	EA	1 Gallon Lantana sellowiana - Trailing Lantana.....	7.54
32 93 13 00-0136	EA	1 Gallon Cocculus laurifolius - Laurel-leaf Snailseed.....	15.65
32 93 13 00-0137	EA	5 Gallon Cocculus laurifolius - Laurel-leaf Snailseed.....	56.13
32 93 13 00-0138	EA	1 Gallon Liriope Evergreen Giant, 6 To 8 Bibs Minimum.....	11.46
32 93 13 00-0139	EA	1 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum.....	14.45
32 93 13 00-0140	EA	3 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum.....	23.11
32 93 13 00-0141	EA	1 Quart Moss Phlox, Creeping Phlox.....	8.10
32 93 13 00-0142	EA	1 Gallon Moss Phlox, Creeping Phlox.....	19.43
32 93 13 00-0143	EA	1 Gallon Nephrolepis exaltata - Common Boston Fern.....	10.20
32 93 13 00-0144	EA	4" Pot Ophiopogon Japonicus - Mondo grass.....	4.86
32 93 13 00-0145	EA	1 Gallon Ophiopogon Japonicus - Mondo grass.....	19.43
32 93 13 00-0146	EA	5 Gallon Ophiopogon Japonicus - Mondo grass.....	44.80
32 93 13 00-0147	EA	2' To 3' High Oregon Holly-Grape.....	22.43
32 93 13 00-0148	EA	1 Gallon Pachysandra terminalis - Pachysandra.....	29.22
32 93 13 00-0149	EA	2-1/4" Pot Vinca minor - Periwinkle.....	2.70
32 93 13 00-0150	EA	4" Pot Vinca minor - Periwinkle.....	8.10
32 93 13 00-0151	EA	Bare Root Vinca minor - Periwinkle.....	2.70
32 93 13 00-0152	EA	1 Quart Nepeta mussinii - Persian Catmint.....	8.10
32 93 13 00-0153	EA	1 Gallon Nepeta mussinii - Persian Catmint.....	16.73
32 93 13 00-0154	EA	1 Gallon Coprosma kirkii - Prostrate Coprosma.....	13.49
32 93 13 00-0155	EA	5 Gallon Coprosma kirkii - Prostrate Coprosma.....	49.12
32 93 13 00-0156	EA	1 Gallon Juniperus Horizontalis - Prostrate Juniper.....	22.13
32 93 13 00-0157	EA	3 Gallon Juniperus Horizontalis - Prostrate Juniper.....	47.50
32 93 13 00-0158	EA	5 Gallon Juniperus Horizontalis - Prostrate Juniper.....	70.17
32 93 13 00-0159	EA	1 Quart Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper.....	19.27
32 93 13 00-0160	EA	1 Gallon Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper.....	49.94
32 93 13 00-0161	EA	24 Plant Flat Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper.....	83.66
32 93 13 00-0162	EA	1 Gallon Tradescantia spathacea - Rhoeco Discolor 'Dwarf'.....	10.20
32 93 13 00-0163	EA	1 Quart Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue.....	11.34
32 93 13 00-0164	EA	1 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue.....	20.24
32 93 13 00-0165	EA	2 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue.....	31.58
32 93 13 00-0166	EA	1 Gallon Hymenocallis latifolia - Spider Lily.....	12.56
32 93 13 00-0167	EA	3 Gallon Hymenocallis latifolia - Spider Lily.....	33.51
32 93 13 00-0168	EA	1 Quart Hypericum perforatum - St. John's Wort.....	8.10
32 93 13 00-0169	EA	1 Gallon Hypericum perforatum - St. John's Wort.....	19.43
32 93 13 00-0170	EA	5 Gallon Hypericum perforatum - St. John's Wort.....	50.20
32 93 13 00-0171	EA	24" To 30" High Viburnum awabuki - Sweet Viburnum.....	68.31
32 93 13 00-0172	EA	1 Gallon Campsis radicans - Trumpet Creeper.....	29.69
32 93 13 00-0173	EA	2 Gallon Campsis radicans - Trumpet Creeper.....	44.80
32 93 13 00-0174	EA	5 Gallon Campsis radicans - Trumpet Creeper.....	107.95
32 93 13 00-0175	EA	2-1/4" Pot Vinca major - Variegated Greater Periwinkle.....	2.70
32 93 13 00-0176	EA	4" Pot Vinca major - Variegated Greater Periwinkle.....	8.10
32 93 13 00-0177	EA	Bare Root Vinca major - Variegated Greater Periwinkle.....	2.70
32 93 13 00-0178	EA	1 Quart Carex hachijoensis - Variegated Japanese Sedge.....	14.57
32 93 13 00-0179	EA	1 Gallon Carex hachijoensis - Variegated Japanese Sedge.....	20.24
32 93 13 00-0180	EA	2 Gallon Carex hachijoensis - Variegated Japanese Sedge.....	31.58
32 93 13 00-0181	EA	1 Gallon Liriope muscari 'Variegata' - Variegated Lilyturf.....	22.13
32 93 13 00-0182	EA	2 Quart Verbena peruviana 'St. Paul' - St. Paul Verbena.....	10.26
32 93 13 00-0183	EA	1 Gallon Verbena peruviana 'St. Paul' - St. Paul Verbena.....	15.65
32 93 13 00-0184	EA	48 Plant Flat Vinca minor - Lesser Periwinkle.....	96.20
32 93 13 00-0185	EA	3" Pot Parthenocissus quinquefolia - Virginia Creeper.....	4.86
32 93 13 00-0186	EA	1 Gallon Parthenocissus quinquefolia - Virginia Creeper.....	25.37
32 93 13 00-0187	EA	1 Gallon Jasminum polyanthum - Winter Jasmine.....	19.43
32 93 13 00-0188	EA	2 Gallon Jasminum polyanthum - Winter Jasmine.....	38.86
32 93 13 00-0189	EA	5 Gallon Jasminum polyanthum - Winter Jasmine.....	67.47
32 93 13 00-0190	EA	1 Gallon Cistaceae - Winkleleaf Rock Rose.....	15.65
32 93 13 00-0191	EA	5 Gallon Cistaceae - Winkleleaf Rock Rose.....	53.44
32 93 13 00-0192	EA	Flat Hedera canariensis - Algerian Ivy.....	23.23
32 93 13 00-0193	EA	2-1/2" Pot Hedera canariensis - Algerian Ivy.....	6.13
32 93 13 00-0194	EA	Flat Gazania 'Copper King'.....	19.05
32 93 13 00-0195	EA	1 Gallon Gazania 'Copper King'.....	6.50
32 93 13 00-0196	EA	Flat Myoporum parvifolium - Myoporum.....	23.23
32 93 13 00-0197	EA	1 Gallon Myoporum parvifolium - Myoporum.....	6.50
32 93 13 00-0198	EA	5 Gallon Myoporum parvifolium - Myoporum.....	18.58
32 93 13 00-0199	EA	1 Gallon Lantana montevidensis - Purple Lantana.....	6.50
32 93 13 00-0200	EA	5 Gallon Lantana montevidensis - Purple Lantana.....	18.58
32 93 13 00-0201	EA	Flat Carpobrotus - Ice Plant.....	17.65
32 93 13 00-0202	EA	1 Gallon Carpobrotus - Ice Plant.....	7.43



		Exterior Improvements	32
		Planting	32 90
		Plants	32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 93 23 Plants and Bulbs (32 93)

Note: Materials only. See CSI section 32 93 83 00-0057 for installation and planting of bulbs and annuals.

32 93 23 00-0001 Perennials (32 93 23)

32 93 23 00-0002	EA	2 Quart Assorted Daylilies	15.65
32 93 23 00-0003	EA	1 Gallon Assorted Daylilies	22.13
32 93 23 00-0004	EA	2 Gallon Assorted Daylilies	36.70
32 93 23 00-0005	EA	1 Quart Azure Penstemon	8.09
32 93 23 00-0006	EA	1 Gallon Azure Penstemon	20.24
32 93 23 00-0007	EA	1 Quart Balloon Flower	8.09
32 93 23 00-0008	EA	1 Gallon Balloon Flower	20.24
32 93 23 00-0009	EA	1 Quart Black-eyed Susan	8.09
32 93 23 00-0010	EA	1 Gallon Black-eyed Susan	20.24
32 93 23 00-0011	EA	2 Gallon Black-eyed Susan	26.18
32 93 23 00-0012	EA	1 Quart Blackberry Lily	8.09
32 93 23 00-0013	EA	1 Gallon Blackberry Lily	20.24
32 93 23 00-0014	EA	1 Quart Blank Flower	8.09
32 93 23 00-0015	EA	1 Gallon Blank Flower	18.62
32 93 23 00-0016	EA	2 Gallon Blank Flower	26.18
32 93 23 00-0017	EA	1 Quart Blazing Star, Gayfeather	8.09
32 93 23 00-0018	EA	1 Gallon Blazing Star, Gayfeather	20.24
32 93 23 00-0019	EA	1 Quart Bloodred Geranium	13.76
32 93 23 00-0020	EA	1 Gallon Bloodred Geranium	23.21
32 93 23 00-0021	EA	1 Quart Blue Plumbago	8.09
32 93 23 00-0022	EA	1 Gallon Blue Plumbago	20.24
32 93 23 00-0023	EA	1 Quart Blue Star	14.57
32 93 23 00-0024	EA	1 Gallon Blue Star	23.21
32 93 23 00-0025	EA	1 Quart Cardinal Flower	8.09
32 93 23 00-0026	EA	1 Gallon Cardinal Flower	20.24
32 93 23 00-0027	EA	4" Pot Columbine	4.86
32 93 23 00-0028	EA	1 Quart Columbine	8.09
32 93 23 00-0029	EA	1 Gallon Columbine	20.24
32 93 23 00-0030	EA	1 Quart Common Globeflower	8.09
32 93 23 00-0031	EA	1 Gallon Common Globeflower	20.24
32 93 23 00-0032	EA	1 Quart Cottage Pink, Scotch Pink	8.09
32 93 23 00-0033	EA	1 Quart Cottage Pink, Scotch Pink	20.24
32 93 23 00-0034	EA	1 Gallon Astilbe 'Deutschland'	29.15
32 93 23 00-0035	EA	1 Quart Diploid	10.26
32 93 23 00-0036	EA	1 Gallon Diploid	23.21
32 93 23 00-0037	EA	3 Gallon Diploid	39.94
32 93 23 00-0038	EA	4" Pot Dune Sunflower	11.56
32 93 23 00-0039	EA	1 Quart Evans Begonia	14.57
32 93 23 00-0040	EA	1 Gallon Evans Begonia	26.18
32 93 23 00-0041	EA	1 Quart False Dragonhead	8.09
32 93 23 00-0042	EA	1 Gallon False Dragonhead	20.24
32 93 23 00-0043	EA	1 Quart False Spirea	8.09
32 93 23 00-0044	EA	1 Gallon False Spirea	26.18
32 93 23 00-0045	EA	3 Gallon False Spirea	36.16
32 93 23 00-0046	EA	2 Quart False Sunflower	12.95
32 93 23 00-0047	EA	1 Gallon False Sunflower	20.24
32 93 23 00-0048	EA	2 Gallon False Sunflower	26.18
32 93 23 00-0049	EA	1 Gallon Foxglove	18.62
32 93 23 00-0050	EA	2 Gallon Foxglove	26.18
32 93 23 00-0051	EA	3 Gallon Foxglove	37.78
32 93 23 00-0052	EA	1 Gallon Francee Hostas	32.78
32 93 23 00-0053	EA	1 Quart Garden Phlox	8.09
32 93 23 00-0054	EA	1 Gallon Garden Phlox	20.24
32 93 23 00-0055	EA	2 Quart Golden Groundsel	17.27
32 93 23 00-0056	EA	2 Gallon Golden Groundsel	34.82
32 93 23 00-0057	EA	1 Quart Golden Star	8.09
32 93 23 00-0058	EA	1 Gallon Golden Star	20.24
32 93 23 00-0059	EA	1 Quart Goldenrod	8.09
32 93 23 00-0060	EA	1 Gallon Goldenrod	20.24
32 93 23 00-0061	EA	1 Gallon Happy Returns Daylilies	37.70
32 93 23 00-0062	EA	4" Pot Hardy Aster, Michaelmas Daisy	4.86
32 93 23 00-0063	EA	1 Quart Hardy Aster, Michaelmas Daisy	8.09
32 93 23 00-0064	EA	1 Gallon Hardy Aster, Michaelmas Daisy	20.24
32 93 23 00-0065	EA	1 Quart Hardy Chrysanthemum	7.02
32 93 23 00-0066	EA	6" To 8" Pot Hardy Chrysanthemum	11.61
32 93 23 00-0067	EA	1 Gallon Hardy Chrysanthemum	18.62
32 93 23 00-0068	EA	1 Gallon Herbaceous Peony	28.88
32 93 23 00-0069	EA	2 Gallon Herbaceous Peony	46.15
32 93 23 00-0070	EA	3 Gallon Herbaceous Peony	60.73
32 93 23 00-0071	EA	4" Pot Japanese Anemone	4.86
32 93 23 00-0072	EA	1 Quart Japanese Anemone	14.57
32 93 23 00-0073	EA	2 Gallon Japanese Anemone	26.18
32 93 23 00-0074	EA	2" Pot Japanese Spurge	2.88
32 93 23 00-0075	EA	6" Pot Japanese Spurge	4.32
32 93 23 00-0076	EA	1 Gallon Japanese Spurge	18.59
32 93 23 00-0077	EA	1 Quart Oriental Poppy	11.61
32 93 23 00-0078	EA	1 Gallon Oriental Poppy	23.21

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 23 00-0079	EA	48 Plant Flat Pachysandra terminalis.....	96.20	
32 93 23 00-0080	EA	1 Gallon Pacific Coast Iris.....	15.92	
32 93 23 00-0081	EA	3 Gallon Pacific Coast Iris.....	30.23	
32 93 23 00-0082	EA	1 Gallon Palace Purple Coral Bells.....	30.65	
32 93 23 00-0083	EA	4" Pot Perennial Salvia.....	4.86	
32 93 23 00-0084	EA	1 Quart Perennial Salvia.....	8.09	
32 93 23 00-0085	EA	1 Gallon Perennial Salvia.....	20.24	
32 93 23 00-0086	EA	1 Quart Pincushion Flower.....	8.09	
32 93 23 00-0087	EA	1 Gallon Pincushion Flower.....	20.24	
32 93 23 00-0088	EA	2 Quart Plantain Lily.....	15.65	
32 93 23 00-0089	EA	1 Gallon Plantain Lily.....	22.13	
32 93 23 00-0090	EA	2 Gallon Plantain Lily.....	36.70	
32 93 23 00-0091	EA	3 Gallon Plantain Lily.....	69.36	
32 93 23 00-0092	EA	2 Quart Purple Coneflower.....	14.57	
32 93 23 00-0093	EA	1 Gallon Purple Coneflower.....	20.24	
32 93 23 00-0094	EA	2 Gallon Purple Coneflower.....	26.18	
32 93 23 00-0095	EA	1 Quart Purple Loosestrife.....	8.09	
32 93 23 00-0096	EA	1 Gallon Purple Loosestrife.....	20.24	
32 93 23 00-0097	EA	1 Quart Rose Mallow.....	15.92	
32 93 23 00-0098	EA	2 Gallon Rose Mallow.....	28.88	
32 93 23 00-0099	EA	3 Gallon Rose Mallow.....	49.39	
32 93 23 00-0100	EA	1 Gallon Autumn Joy Sedum.....	30.86	
32 93 23 00-0101	EA	1 Quart Siberian Iris.....	13.76	
32 93 23 00-0102	EA	2 Gallon Siberian Iris.....	26.18	
32 93 23 00-0103	EA	3 Gallon Siberian Iris.....	36.16	
32 93 23 00-0104	EA	1 Quart Speedwell.....	8.09	
32 93 23 00-0105	EA	1 Gallon Speedwell.....	20.24	
32 93 23 00-0106	EA	1 Quart Tetraploid.....	20.24	
32 93 23 00-0107	EA	1 Gallon Tetraploid.....	37.78	
32 93 23 00-0108	EA	3 Gallon Tetraploid.....	51.55	
32 93 23 00-0109	EA	1 Quart Threadleaf Coreopsis.....	8.09	
32 93 23 00-0110	EA	1 Gallon Threadleaf Coreopsis.....	20.24	
32 93 23 00-0111	EA	1 Quart Torch Lily.....	8.09	
32 93 23 00-0112	EA	1 Quart Bluebeard.....	14.57	
32 93 23 00-0113	EA	1 Gallon Bluebeard.....	21.59	
32 93 23 00-0114	EA	2 Gallon Bluebeard.....	31.58	

32 93 23 00-0115 Annuals (32 93 23)

32 93 23 00-0116	EA	2-1/2" Pot Annual Flowers.....	3.76	
32 93 23 00-0117	EA	3" Pot Annual Flowers.....	5.08	
32 93 23 00-0118	EA	4" Pot Annual Flowers.....	10.86	
32 93 23 00-0119	EA	5-1/2" Pot Annual Flowers.....	14.44	
32 93 23 00-0120	EA	6" Pot Annual Flowers.....	28.60	
32 93 23 00-0121	EA	8" Pot Annual Flowers.....	47.67	
32 93 23 00-0122	EA	36 Plant Flat Annual Flowers.....	62.40	
32 93 23 00-0123	EA	48 Plant Flat Annual Flowers.....	70.78	

32 93 23 00-0124 Bulbs (32 93 23)

32 93 23 00-0125	EA	Top Size Allium giganteum - Giant Ornamental Onion.....	13.06	
32 93 23 00-0126	EA	Top Size Allium sphaerocephalum - Drumstick Ornamental Onion.....	0.75	
32 93 23 00-0127	EA	Top Size Crocus Hybrid.....	0.85	
32 93 23 00-0128	EA	Top Size Eranthis hyemalis - Winter Aconite.....	1.11	
32 93 23 00-0129	EA	Top Size Galanthus nivalis - Snowdrops.....	1.41	
32 93 23 00-0130	EA	Top Size Iris reticulata cvs - Dutch Iris.....	0.55	
32 93 23 00-0131	EA	Top Size Muscari armeniacum - Grape Hyacinth.....	0.65	
32 93 23 00-0132	EA	Top Size Muscari latifolium - Grape Hyacinth.....	0.75	
32 93 23 00-0133	EA	Narcissus 'Carlton' - Carlton Daffodil DNI.....	4.52	
32 93 23 00-0134	EA	Narcissus 'Dutch Master' - Dutch Master Daffodil DNI.....	2.16	
32 93 23 00-0135	EA	Narcissus 'February Gold' - February Gold Daffodil DNI.....	2.26	
32 93 23 00-0136	EA	Narcissus 'Ice Follies' - Ice Follies Daffodil DNI.....	2.26	
32 93 23 00-0137	EA	Narcissus 'Mount Hood' - Mount Hood Daffodil DNI.....	2.36	
32 93 23 00-0138	EA	Narcissus 'Papillon Blanc' - Papillon Blanc Daffodil DNI.....	2.51	
32 93 23 00-0139	EA	Narcissus 'Pipit' - Pipit Daffodil DNI.....	2.36	
32 93 23 00-0140	EA	Narcissus 'Salome' - Salome Daffodil DNI.....	2.21	
32 93 23 00-0141	EA	Narcissus 'Tete A Tete' - Tete A Tete Daffodil DNI.....	2.36	
32 93 23 00-0142	EA	Narcissus 'Thalia' - Thalia Daffodil DNI.....	2.36	
32 93 23 00-0143	EA	Top Size Scilla siberica - Siberian Squill.....	0.70	
32 93 23 00-0144	EA	Top Size Tulip 'Angelique' - Angelique Tulip.....	2.01	
32 93 23 00-0145	EA	Top Size Tulip 'Apeldoorn' - Apeldoorn Tulip.....	1.51	
32 93 23 00-0146	EA	Top Size Tulip 'Apricot Beauty' - Apricot Beauty Tulip.....	2.01	
32 93 23 00-0147	EA	Top Size Tulip 'Big Smile' - Big Smile Tulip.....	1.76	
32 93 23 00-0148	EA	Top Size Tulip 'Black Parrot' - Black Parrot Tulip.....	2.51	
32 93 23 00-0149	EA	Top Size Tulip 'Blue Heron' - Blue Heron Tulip.....	1.91	
32 93 23 00-0150	EA	Top Size Tulip 'Cardinal' - Cardinal Tulip.....	1.66	
32 93 23 00-0151	EA	Top Size Tulip 'Christmas Marvel' - Christmas Marvel Tulip.....	1.86	
32 93 23 00-0152	EA	Top Size Tulip clusiana - Species Tulip.....	1.86	
32 93 23 00-0153	EA	Top Size Tulip 'Elizabeth Arden' - Elizabeth Arden Tulip.....	1.86	
32 93 23 00-0154	EA	Top Size Tulip 'Golden Apledoorn' - Golden Apledoorn Tulip.....	1.51	
32 93 23 00-0155	EA	Top Size Tulip 'Golden Emperor' - Golden Emperor Tulip.....	1.46	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 23 00-0156	EA		Top Size Tulip 'Halcro' - Halcro Tulip.....	1.51	
32 93 23 00-0157	EA		Top Size Tulip 'Ivory Floridale' - Ivory FloradaleTulip.....	2.51	
32 93 23 00-0158	EA		Top Size Tulip 'Orange Emperor' - Orange Emperor Tulip.....	1.51	
32 93 23 00-0159	EA		Top Size Tulip 'Passionale' - Passionale Tulip.....	2.01	
32 93 23 00-0160	EA		Top Size Tulip 'Peach Blossom' - Peach Blossom Tulip.....	2.16	
32 93 23 00-0161	EA		Top Size Tulip 'Peer Gynt' - Peer Gynt Tulip.....	2.26	
32 93 23 00-0162	EA		Top Size Tulip 'Pink Diamond' - Pink Diamond Tulip.....	1.81	
32 93 23 00-0163	EA		Top Size Tulip 'Pink Emperor' - Pink Emperor Tulip.....	1.71	
32 93 23 00-0164	EA		Top Size Tulip praetens 'Fusilier' - Praetens Fusilier Tulip.....	1.86	
32 93 23 00-0165	EA		Top Size Tulip 'Princeps' - Princeps Tulip.....	1.86	
32 93 23 00-0166	EA		Top Size Tulip 'Red Riding Hood' - Red Riding Hood Tulip.....	1.46	
32 93 23 00-0167	EA		Top Size Tulip saxatilis - Species Tulip.....	1.00	
32 93 23 00-0168	EA		Top Size Tulip 'Shirley - Shirley Tulip.....	1.51	
32 93 23 00-0169	EA		Top Size Tulip 'Spring Green' - Spring Green Tulip.....	1.96	
32 93 23 00-0170	EA		Top Size Tulip 'White Emperor' - White Emperor Tulip.....	1.51	

32 93 33 Shrubs (32 93)

Note: (cvs = cultivar) materials only. See CSI section 32 93 83 00-0033 for installation and planting of shrubs.

32 93 33 00-0001 Shrubs (32 93 33)

32 93 33 00-0002	EA	1	Gallon Abelia x grandiflora - Abelia.....	14.56	
32 93 33 00-0003	EA	3	Gallon Abelia x grandiflora - Abelia.....	29.64	
32 93 33 00-0004	EA	5	Gallon Abelia x grandiflora - Abelia.....	56.90	
32 93 33 00-0005	EA	1	Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia.....	8.64	
32 93 33 00-0006	EA	5	Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia.....	21.37	
32 93 33 00-0007	EA	15	Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia.....	84.83	
32 93 33 00-0008	EA	3	Gallon Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye.....	87.68	
32 93 33 00-0009	EA	18"	Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye.....	128.14	
32 93 33 00-0010	EA	24"	Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye.....	142.98	
32 93 33 00-0011	EA	30"	Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye.....	180.75	
32 93 33 00-0012	EA	36"	Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye.....	200.98	
32 93 33 00-0013	EA	18"	Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye.....	40.47	
32 93 33 00-0014	EA	24"	Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye.....	53.95	
32 93 33 00-0015	EA	30"	Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye.....	67.44	
32 93 33 00-0016	EA	1	Gallon Agapanthus 'Peter Pan' - Lily of the Nile.....	8.64	
32 93 33 00-0017	EA	5	Gallon Agapanthus 'Peter Pan' - Lily of the Nile.....	21.37	
32 93 33 00-0018	EA	36"	Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry.....	37.24	
32 93 33 00-0019	EA	42"	Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry.....	43.82	
32 93 33 00-0020	EA	48"	Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry.....	52.58	
32 93 33 00-0021	EA	60"	Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry.....	61.34	
32 93 33 00-0022	EA	72"	Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry.....	74.49	
32 93 33 00-0023	EA	36"	Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry.....	36.15	
32 93 33 00-0024	EA	42"	Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry.....	38.34	
32 93 33 00-0025	EA	48"	Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry.....	40.53	
32 93 33 00-0026	EA	60"	Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry.....	46.01	
32 93 33 00-0027	EA	36"	Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry.....	36.70	
32 93 33 00-0028	EA	42"	Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry.....	38.89	
32 93 33 00-0029	EA	48"	Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry.....	41.08	
32 93 33 00-0030	EA	60"	Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry.....	43.27	
32 93 33 00-0031	EA	1	Gallon Aspidistra elatior - Cast Iron Plant.....	7.53	
32 93 33 00-0032	EA	2	Gallon Aspidistra elatior - Cast Iron Plant.....	17.42	
32 93 33 00-0033	EA	1	Gallon Aucuba japonica "Variegata" - Gold Dust Plant.....	8.83	
32 93 33 00-0034	EA	3	Gallon Aucuba japonica "Variegata" - Gold Dust Plant.....	19.42	
32 93 33 00-0035	EA	5	Gallon Aucuba japonica "Variegata" - Gold Dust Plant.....	26.24	
32 93 33 00-0036	EA	1	Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush.....	8.64	
32 93 33 00-0037	EA	5	Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush.....	21.37	
32 93 33 00-0038	EA	1	Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush.....	8.64	
32 93 33 00-0039	EA	5	Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush.....	21.37	
32 93 33 00-0040	EA	1	Gallon Bauhinia purpurea - Orange-eye Butterfly Bush.....	9.41	
32 93 33 00-0041	EA	2	Gallon Bauhinia purpurea - Orange-eye Butterfly Bush.....	13.77	
32 93 33 00-0042	EA	15"	To 18" Berberis - Northern Bayberry.....	39.30	
32 93 33 00-0043	EA	2'	To 2-1/2' Berberis - Northern Bayberry.....	49.89	
32 93 33 00-0044	EA	2-1/2'	To 3' Berberis - Northern Bayberry.....	69.90	
32 93 33 00-0045	EA	1	Gallon Berberis Buxifolia 'Nana' - Barberry.....	9.76	
32 93 33 00-0046	EA	5	Gallon Berberis Buxifolia 'Nana' - Barberry.....	23.51	
32 93 33 00-0047	EA	18"	To 24" Berberis julianae - Dwarf Wintergreen Barberry.....	42.01	
32 93 33 00-0048	EA	2'	To 2-1/2' Berberis julianae - Dwarf Wintergreen Barberry.....	53.78	
32 93 33 00-0049	EA	2-1/2'	To 3' Berberis julianae - Dwarf Wintergreen Barberry.....	68.72	
32 93 33 00-0050	EA	1	Gallon Berberis thunbergii - Crimson Pygmy Barberry.....	11.30	
32 93 33 00-0051	EA	2	Gallon Berberis thunbergii - Crimson Pygmy Barberry.....	22.24	
32 93 33 00-0052	EA	3	Gallon Berberis thunbergii - Crimson Pygmy Barberry.....	27.18	
32 93 33 00-0053	EA	1	Gallon Berberis x mentorensis - Mentor Barberry.....	10.71	
32 93 33 00-0054	EA	5	Gallon Berberis x mentorensis - Mentor Barberry.....	30.24	
32 93 33 00-0055	EA	2'	To 3' Berberis x mentorensis - Mentor Barberry.....	42.01	
32 93 33 00-0056	EA	3'	To 4' Berberis x mentorensis - Mentor Barberry.....	64.84	
32 93 33 00-0057	EA	1	Gallon Buxus microphylla japonica - Japanese Boxwood.....	12.24	
32 93 33 00-0058	EA	5	Gallon Buxus microphylla japonica - Japanese Boxwood.....	32.83	
32 93 33 00-0059	EA	12"	To 15" Buxus microphylla japonica - Japanese Boxwood.....	34.95	
32 93 33 00-0060	EA	15"	To 18" Buxus microphylla japonica - Japanese Boxwood.....	44.95	
32 93 33 00-0061	EA	18"	To 24" Buxus microphylla japonica - Japanese Boxwood.....	59.90	
32 93 33 00-0062	EA	24"	To 30" Buxus microphylla japonica - Japanese Boxwood.....	89.90	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0063	EA	30" To 36" Buxus microphylla japonica - Japanese Boxwood	124.85	
32 93 33 00-0064	EA	12" To 15" Buxus sempervirens - Common Boxwood	34.95	
32 93 33 00-0065	EA	15" To 18" Buxus sempervirens - Common Boxwood	44.95	
32 93 33 00-0066	EA	18" To 24" Buxus sempervirens - Common Boxwood	59.90	
32 93 33 00-0067	EA	24" To 30" Buxus sempervirens - Common Boxwood	89.90	
32 93 33 00-0068	EA	2 Gallon Buxus Hybrid - Boxwood Cultivars	23.00	
32 93 33 00-0069	EA	5 Gallon Buxus Hybrid - Boxwood Cultivars	38.34	
32 93 33 00-0070	EA	5 Gallon Buxus microphylla & cvs - Little leaf Boxwood.....	100.78	
32 93 33 00-0071	EA	18" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood.....	54.77	
32 93 33 00-0072	EA	24" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood.....	74.49	
32 93 33 00-0073	EA	30" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood.....	100.78	
32 93 33 00-0074	EA	1 Gallon Callistemon citrinus ' Little John' - Dwarf Bottle Bush	7.76	
32 93 33 00-0075	EA	5 Gallon Callistemon citrinus ' Little John' - Dwarf Bottle Bush	23.87	
32 93 33 00-0076	EA	15 Gallon Callistemon citrinus ' Little John' - Dwarf Bottle Bush	77.57	
32 93 33 00-0077	EA	5 Gallon Calycanthus floridus - Common Sweetshrub	36.15	
32 93 33 00-0078	EA	30" Balled and Burlapped, Calycanthus floridus - Common Sweetshrub.....	32.86	
32 93 33 00-0079	EA	36" Balled and Burlapped, Calycanthus floridus - Common Sweetshrub.....	43.82	
32 93 33 00-0080	EA	1 Gallon Camellia "Sasanqua" - Camellia.....	10.62	
32 93 33 00-0081	EA	3 Gallon Camellia "Sasanqua" - Camellia.....	22.66	
32 93 33 00-0082	EA	5 Gallon Camellia "Sasanqua" - Camellia.....	37.68	
32 93 33 00-0083	EA	7 Gallon Camellia "Sasanqua" - Camellia.....	56.11	
32 93 33 00-0084	EA	15 Gallon Camellia "Sasanqua" - Camellia.....	145.58	
32 93 33 00-0085	EA	1 Gallon Camellia japonica - Camellia	10.62	
32 93 33 00-0086	EA	3 Gallon Camellia japonica - Camellia	22.66	
32 93 33 00-0087	EA	5 Gallon Camellia japonica - Camellia	37.68	
32 93 33 00-0088	EA	5 Gallon Ceanothus americanus - New Jersey Tea.....	36.15	
32 93 33 00-0089	EA	1 Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus.....	9.76	
32 93 33 00-0090	EA	5 Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus.....	25.37	
32 93 33 00-0091	EA	5 Gallon Celastrus scandens - Bittersweet	36.15	
32 93 33 00-0092	EA	36" Balled and Burlapped, Celastrus scandens - Bittersweet	30.67	
32 93 33 00-0093	EA	5 Gallon Cephalanthus occidentalis - Buttonbush	36.15	
32 93 33 00-0094	EA	24" Balled and Burlapped, Cephalanthus occidentalis - Buttonbush	27.38	
32 93 33 00-0095	EA	30" Balled and Burlapped, Cephalanthus occidentalis - Buttonbush	30.67	
32 93 33 00-0096	EA	36" Balled and Burlapped, Cephalanthus occidentalis - Buttonbush	32.86	
32 93 33 00-0097	EA	18" To 24" Chaenomeles speciosa - Flowering Quince	31.54	
32 93 33 00-0098	EA	2' To 3' Chaenomeles speciosa - Flowering Quince	42.01	
32 93 33 00-0099	EA	3' To 4' Chaenomeles speciosa - Flowering Quince	64.84	
32 93 33 00-0100	EA	1 Gallon Cistus Hybridus - White Rockrose	8.64	
32 93 33 00-0101	EA	5 Gallon Cistus Hybridus - White Rockrose	21.37	
32 93 33 00-0102	EA	3 Gallon Clethra alnifolia & cvs - Summersweet Clethra.....	35.05	
32 93 33 00-0103	EA	18" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	37.79	
32 93 33 00-0104	EA	24" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	42.17	
32 93 33 00-0105	EA	30" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	44.36	
32 93 33 00-0106	EA	36" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	52.03	
32 93 33 00-0107	EA	1 Gallon Coleonema Pulchellum - Confetti Bush	8.64	
32 93 33 00-0108	EA	5 Gallon Coleonema Pulchellum - Confetti Bush	21.37	
32 93 33 00-0109	EA	15 Gallon Coleonema Pulchellum - Confetti Bush	100.07	
32 93 33 00-0110	EA	2' To 3' Cornus mas - Cornelian Cherry.....	49.89	
32 93 33 00-0111	EA	3' To 4' Cornus mas - Cornelian Cherry.....	62.37	
32 93 33 00-0112	EA	4' To 5' Cornus mas - Cornelian Cherry.....	79.90	
32 93 33 00-0113	EA	5' To 6' Cornus mas - Cornelian Cherry.....	109.79	
32 93 33 00-0114	EA	5 Gallon Cornus alba & cvs - Tartarian Dogwood.....	32.86	
32 93 33 00-0115	EA	36" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood.....	23.00	
32 93 33 00-0116	EA	48" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood.....	26.29	
32 93 33 00-0117	EA	60" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood.....	32.86	
32 93 33 00-0118	EA	72" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood.....	39.43	
32 93 33 00-0119	EA	36" Balled and Burlapped, Cornus amomum - Silky Dogwood	32.86	
32 93 33 00-0120	EA	5 Gallon Cornus obliqua - Blue Fruited Dogwood.....	36.15	
32 93 33 00-0121	EA	5 Gallon Cornus racemosa - Gray Dogwood	36.15	
32 93 33 00-0122	EA	36" Balled and Burlapped, Cornus racemosa - Gray Dogwood	32.86	
32 93 33 00-0123	EA	48" Balled and Burlapped, Cornus racemosa - Gray Dogwood	38.34	
32 93 33 00-0124	EA	60" Balled and Burlapped, Cornus racemosa - Gray Dogwood	41.62	
32 93 33 00-0125	EA	72" Balled and Burlapped, Cornus racemosa - Gray Dogwood	50.39	
32 93 33 00-0126	EA	36" Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood.....	35.60	
32 93 33 00-0127	EA	48" Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood.....	39.98	
32 93 33 00-0128	EA	60" Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood.....	45.46	
32 93 33 00-0129	EA	24" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	28.48	
32 93 33 00-0130	EA	30" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	32.86	
32 93 33 00-0131	EA	36" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	35.05	
32 93 33 00-0132	EA	48" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	38.34	
32 93 33 00-0133	EA	60" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	42.72	
32 93 33 00-0134	EA	5 Gallon Corylus americana - American Filbert	33.96	
32 93 33 00-0135	EA	30" Balled and Burlapped, Corylus americana - American Filbert	38.34	
32 93 33 00-0136	EA	36" Balled and Burlapped, Corylus americana - American Filbert	41.08	
32 93 33 00-0137	EA	48" Balled and Burlapped, Corylus americana - American Filbert	44.36	
32 93 33 00-0138	EA	24" Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	109.54	
32 93 33 00-0139	EA	30" Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	142.40	
32 93 33 00-0140	EA	36" Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	153.35	
32 93 33 00-0141	EA	42" Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	197.17	
32 93 33 00-0142	EA	48" Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	240.99	
32 93 33 00-0143	EA	60" Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	273.85	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0144	EA		5' To 6' Cotinus coggygia - Smoke Tree.....	104.85	
32 93 33 00-0145	EA		6' To 8' Cotinus coggygia - Smoke Tree.....	157.21	
32 93 33 00-0146	EA		8' To 10' Cotinus coggygia - Smoke Tree.....	237.12	
32 93 33 00-0147	EA		5 Gallon Cotoneaster acutifolia & cvs - Peking Cotoneaster.....	27.38	
32 93 33 00-0148	EA		18" Balled and Burlapped, Cotoneaster acutifolia & cvs - Peking Cotoneaster.....	27.38	
32 93 33 00-0149	EA		24" Balled and Burlapped, Cotoneaster acutifolia & cvs - Peking Cotoneaster.....	28.48	
32 93 33 00-0150	EA		12" To 15" Spread Cotoneaster adpressus - Creeping Cotoneaster.....	26.24	
32 93 33 00-0151	EA		3 Gallon Cotoneaster apiculata & cvs - Cranberry Cotoneaster.....	28.48	
32 93 33 00-0152	EA		18" Balled and Burlapped, Cotoneaster apiculata & cvs - Cranberry Cotoneaster.....	27.38	
32 93 33 00-0153	EA		24" Balled and Burlapped, Cotoneaster apiculata & cvs - Cranberry Cotoneaster.....	28.48	
32 93 33 00-0154	EA		1 Gallon Cotoneaster divaricatus - Spreading Cotoneaster.....	11.30	
32 93 33 00-0155	EA		2' To 3' Cotoneaster divaricatus - Spreading Cotoneaster.....	34.95	
32 93 33 00-0156	EA		3' To 4' Cotoneaster divaricatus - Spreading Cotoneaster.....	47.19	
32 93 33 00-0157	EA		4' To 5' Cotoneaster divaricatus - Spreading Cotoneaster.....	79.90	
32 93 33 00-0158	EA		1 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster.....	8.64	
32 93 33 00-0159	EA		5 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster.....	21.37	
32 93 33 00-0160	EA		1 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster.....	11.30	
32 93 33 00-0161	EA		2 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster.....	22.24	
32 93 33 00-0162	EA		1 Gallon Cotoneaster lacteus - Red Clusterberry.....	8.64	
32 93 33 00-0163	EA		5 Gallon Cotoneaster lacteus - Red Clusterberry.....	21.37	
32 93 33 00-0164	EA		15 Gallon Cotoneaster lacteus - Red Clusterberry.....	84.83	
32 93 33 00-0165	EA		1 Gallon Dendromecon harfordii - Island Bush Poppy.....	19.89	
32 93 33 00-0166	EA		5 Gallon Dendromecon harfordii - Island Bush Poppy.....	49.72	
32 93 33 00-0167	EA		18" Balled and Burlapped, Deutzia gracilis - Slender Deutzia.....	27.93	
32 93 33 00-0168	EA		24" Balled and Burlapped, Deutzia gracilis - Slender Deutzia.....	30.67	
32 93 33 00-0169	EA		30" Balled and Burlapped, Deutzia gracilis - Slender Deutzia.....	39.43	
32 93 33 00-0170	EA		36" Balled and Burlapped, Deutzia gracilis - Slender Deutzia.....	46.01	
32 93 33 00-0171	EA		42" Balled and Burlapped, Deutzia gracilis - Slender Deutzia.....	52.58	
32 93 33 00-0172	EA		24" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle.....	43.82	
32 93 33 00-0173	EA		30" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle.....	52.58	
32 93 33 00-0174	EA		36" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle.....	61.34	
32 93 33 00-0175	EA		2 Gallon Diervilla splendens - Splendens Bush Honeysuckle.....	16.43	
32 93 33 00-0176	EA		36" Balled and Burlapped, Diervilla splendens - Splendens Bush Honeysuckle.....	39.43	
32 93 33 00-0177	EA		48" Balled and Burlapped, Diervilla splendens - Splendens Bush Honeysuckle.....	52.58	
32 93 33 00-0178	EA		5 Gallon Elaeagnus angustifolia - Russian Olive.....	21.37	
32 93 33 00-0179	EA		1 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry.....	8.64	
32 93 33 00-0180	EA		5 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry.....	21.37	
32 93 33 00-0181	EA		15 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry.....	84.83	
32 93 33 00-0182	EA		1 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry.....	8.64	
32 93 33 00-0183	EA		5 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry.....	21.37	
32 93 33 00-0184	EA		15 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry.....	84.83	
32 93 33 00-0185	EA		3' To 4' Elaeagnus umbellata - Autumn Olive.....	32.71	
32 93 33 00-0186	EA		4' To 5' Elaeagnus umbellata - Autumn Olive.....	44.95	
32 93 33 00-0187	EA		5' To 6' Elaeagnus umbellata - Autumn Olive.....	53.78	
32 93 33 00-0188	EA		3' To 4' Elaeagnus angustifolia - Russian Olive.....	52.37	
32 93 33 00-0189	EA		1 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia.....	8.64	
32 93 33 00-0190	EA		5 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia.....	21.37	
32 93 33 00-0191	EA		15 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia.....	84.83	
32 93 33 00-0192	EA		1 Gallon Euonymus - Gold Spot.....	9.42	
32 93 33 00-0193	EA		2 Gallon Euonymus - Gold Spot.....	19.77	
32 93 33 00-0194	EA		5 Gallon Euonymus - Gold Spot.....	27.18	
32 93 33 00-0195	EA		1 Gallon Euonymus alatus - Winged Euonymus.....	8.04	
32 93 33 00-0196	EA		3 Gallon Euonymus alatus - Winged Euonymus.....	23.18	
32 93 33 00-0197	EA		24" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	31.24	
32 93 33 00-0198	EA		30" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	39.05	
32 93 33 00-0199	EA		36" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	53.66	
32 93 33 00-0200	EA		42" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	66.26	
32 93 33 00-0201	EA		48" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	78.10	
32 93 33 00-0202	EA		54" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	100.78	
32 93 33 00-0203	EA		5 Gallon Euonymus alatus - Winged Euonymus.....	28.97	
32 93 33 00-0204	EA		60" Balled and Burlapped, Euonymus alatus - Winged Euonymus.....	125.97	
32 93 33 00-0205	EA		30" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus.....	49.29	
32 93 33 00-0206	EA		36" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus.....	58.60	
32 93 33 00-0207	EA		42" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus.....	76.68	
32 93 33 00-0208	EA		48" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus.....	92.01	
32 93 33 00-0209	EA		60" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus.....	113.92	
32 93 33 00-0210	EA		18" To 24" Euonymus alatus - Winged Burning Bush.....	34.95	
32 93 33 00-0211	EA		2' To 2-1/2' Euonymus alatus - Winged Burning Bush.....	41.19	
32 93 33 00-0212	EA		2-1/2' To 3' Euonymus alatus - Winged Burning Bush.....	56.25	
32 93 33 00-0213	EA		3' To 3-1/2' Euonymus alatus - Winged Burning Bush.....	67.43	
32 93 33 00-0214	EA		3-1/2' To 4' Euonymus alatus - Winged Burning Bush.....	84.84	
32 93 33 00-0215	EA		4' To 5' Euonymus alatus - Winged Burning Bush.....	119.79	
32 93 33 00-0216	EA		5' To 6' Euonymus alatus - Winged Burning Bush.....	149.80	
32 93 33 00-0217	EA		6' To 8' Euonymus alatus - Winged Burning Bush.....	174.75	
32 93 33 00-0218	EA		15" To 18" Euonymus alatus - Dwarf Winged Burning Bush.....	34.95	
32 93 33 00-0219	EA		18" To 24" Euonymus alatus - Dwarf Winged Burning Bush.....	39.89	
32 93 33 00-0220	EA		2' To 2-1/2' Euonymus alatus - Dwarf Winged Burning Bush.....	48.72	
32 93 33 00-0221	EA		2-1/2' To 3' Euonymus alatus - Dwarf Winged Burning Bush.....	68.72	
32 93 33 00-0222	EA		3' To 3-1/2' Euonymus alatus - Dwarf Winged Burning Bush.....	81.20	
32 93 33 00-0223	EA		3-1/2' To 4' Euonymus alatus - Dwarf Winged Burning Bush.....	97.32	
32 93 33 00-0224	EA		4' To 5' Euonymus alatus - Dwarf Winged Burning Bush.....	137.33	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0225	EA	5' To 6' Euonymus alatus - Dwarf Winged Burning Bush.....	162.27
32 93 33 00-0226	EA	36" Balled and Burlapped, Euonymus atropurpurea - Eastern Wahoo.....	29.58
32 93 33 00-0227	EA	1 Gallon Euonymus fortunei - Wintercreeper.....	11.30
32 93 33 00-0228	EA	2 Gallon Euonymus fortunei - Wintercreeper.....	22.24
32 93 33 00-0229	EA	3 Gallon Euonymus fortunei - Wintercreeper.....	27.18
32 93 33 00-0230	EA	5 Gallon Euonymus fortunei - Wintercreeper.....	32.24
32 93 33 00-0231	EA	1 Gallon Euonymus japonicus - Evergreen Spindle.....	8.64
32 93 33 00-0232	EA	5 Gallon Euonymus japonicus - Evergreen Spindle.....	21.37
32 93 33 00-0233	EA	15 Gallon Euonymus japonicus - Evergreen Spindle.....	84.83
32 93 33 00-0234	EA	2' To 3' Forsythia - Korean Forsythia.....	24.95
32 93 33 00-0235	EA	3' To 4' Forsythia - Korean Forsythia.....	31.54
32 93 33 00-0236	EA	4' To 5' Forsythia - Korean Forsythia.....	39.30
32 93 33 00-0237	EA	30" Balled and Burlapped, Forsythia cvs - Forsythia cultivars.....	25.19
32 93 33 00-0238	EA	36" Balled and Burlapped, Forsythia cvs - Forsythia cultivars.....	27.93
32 93 33 00-0239	EA	48" Balled and Burlapped, Forsythia cvs - Forsythia cultivars.....	30.12
32 93 33 00-0240	EA	18" Balled and Burlapped, Forsythia viridissima & cvs - Green Forsythia.....	26.29
32 93 33 00-0241	EA	24" Balled and Burlapped, Forsythia viridissima & cvs - Green Forsythia.....	35.05
32 93 33 00-0242	EA	24" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia.....	26.29
32 93 33 00-0243	EA	30" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia.....	30.67
32 93 33 00-0244	EA	36" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia.....	36.15
32 93 33 00-0245	EA	42" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia.....	41.62
32 93 33 00-0246	EA	48" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia.....	48.20
32 93 33 00-0247	EA	2 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla.....	37.24
32 93 33 00-0248	EA	3 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla.....	52.03
32 93 33 00-0249	EA	5 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla.....	54.77
32 93 33 00-0250	EA	15" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla.....	56.96
32 93 33 00-0251	EA	18" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla.....	61.34
32 93 33 00-0252	EA	24" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla.....	74.49
32 93 33 00-0253	EA	24" Balled and Burlapped, Fothergilla major - Large Fothergilla.....	96.39
32 93 33 00-0254	EA	30" Balled and Burlapped, Fothergilla major - Large Fothergilla.....	109.54
32 93 33 00-0255	EA	1 Gallon Gardenia jasminoides - Cape Jasmine.....	8.12
32 93 33 00-0256	EA	3 Gallon Gardenia jasminoides - Cape Jasmine.....	21.30
32 93 33 00-0257	EA	5 Gallon Gardenia jasminoides - Cape Jasmine.....	27.18
32 93 33 00-0258	EA	1 Gallon Grevillea 'Noellii' - Noel's Grevillea.....	8.64
32 93 33 00-0259	EA	5 Gallon Grevillea 'Noellii' - Noel's Grevillea.....	21.37
32 93 33 00-0260	EA	15 Gallon Grevillea 'Noellii' - Noel's Grevillea.....	84.83
32 93 33 00-0261	EA	36" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel.....	76.68
32 93 33 00-0262	EA	48" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel.....	124.87
32 93 33 00-0263	EA	60" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel.....	157.74
32 93 33 00-0264	EA	72" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel.....	240.99
32 93 33 00-0265	EA	84" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel.....	273.85
32 93 33 00-0266	EA	1 Gallon Hedychium gartdnerum - Variegated Ginger.....	4.66
32 93 33 00-0267	EA	3 Gallon Hedychium gartdnerum - Variegated Ginger.....	16.38
32 93 33 00-0268	EA	5 Gallon Hedychium gartdnerum - Variegated Ginger.....	31.49
32 93 33 00-0269	EA	1 Gallon Hibiscus rosa-sinensis - Hibiscus.....	11.94
32 93 33 00-0270	EA	3 Gallon Hibiscus rosa-sinensis - Hibiscus.....	20.16
32 93 33 00-0271	EA	5 Gallon Hibiscus rosa-sinensis - Hibiscus.....	30.48
32 93 33 00-0272	EA	5 Gallon Hibiscus syriacus - Rose Of Sharon.....	31.54
32 93 33 00-0273	EA	2' To 3' Hibiscus syriacus - Rose Of Sharon.....	26.83
32 93 33 00-0274	EA	3' To 4' Hibiscus syriacus - Rose Of Sharon.....	36.24
32 93 33 00-0275	EA	4' To 5' Hibiscus syriacus - Rose Of Sharon.....	52.37
32 93 33 00-0276	EA	5' To 6' Hibiscus syriacus - Rose Of Sharon.....	72.37
32 93 33 00-0277	EA	2 Gallon Hydrangea - Blue Hydrangea.....	22.24
32 93 33 00-0278	EA	5 Gallon Hydrangea - Blue Hydrangea.....	31.30
32 93 33 00-0279	EA	2' To 3' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea.....	34.95
32 93 33 00-0280	EA	3' To 4' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea.....	39.89
32 93 33 00-0281	EA	2 Gallon Hydrangea quercifolia - Oakleaf Hydrangea.....	22.24
32 93 33 00-0282	EA	5 Gallon Hydrangea arborescens & cvs - Smooth Hydrangea.....	38.34
32 93 33 00-0283	EA	30" Balled and Burlapped, Hydrangea arborescens & cvs - Smooth Hydrangea.....	41.62
32 93 33 00-0284	EA	36" Balled and Burlapped, Hydrangea arborescens & cvs - Smooth Hydrangea.....	48.20
32 93 33 00-0285	EA	4 Gallon Hydrangea macrophylla & cvs - Bigleaf Hydrangea.....	50.39
32 93 33 00-0286	EA	18" Balled and Burlapped, Hydrangea macrophylla & cvs - Bigleaf Hydrangea.....	39.43
32 93 33 00-0287	EA	24" Balled and Burlapped, Hydrangea macrophylla & cvs - Bigleaf Hydrangea.....	52.58
32 93 33 00-0288	EA	3 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea.....	23.00
32 93 33 00-0289	EA	5 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea.....	27.38
32 93 33 00-0290	EA	18" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea.....	23.55
32 93 33 00-0291	EA	24" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea.....	25.19
32 93 33 00-0292	EA	30" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea.....	28.48
32 93 33 00-0293	EA	36" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea.....	32.86
32 93 33 00-0294	EA	48" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea.....	43.82
32 93 33 00-0295	EA	18" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea.....	31.77
32 93 33 00-0296	EA	24" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea.....	36.15
32 93 33 00-0297	EA	30" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea.....	42.72
32 93 33 00-0298	EA	2 Gallon Hypericum kalmianum - St. John's Wort.....	22.24
32 93 33 00-0299	EA	3 Gallon Hypericum kalmianum - Kalm St. John's Wort.....	26.29
32 93 33 00-0300	EA	24" Balled and Burlapped, Hypericum kalmianum - Kalm St. John's Wort.....	28.48
32 93 33 00-0301	EA	1 Gallon Ilex "Carissa" - Holly.....	11.30
32 93 33 00-0302	EA	2 Gallon Ilex "Carissa" - Holly.....	22.24
32 93 33 00-0303	EA	5 Gallon Ilex "Carissa" - Holly.....	31.30
32 93 33 00-0304	EA	18" To 24" Ilex - Gulfside Sweet Holly.....	30.01
32 93 33 00-0305	EA	2' To 2-1/2' Ilex - Gulfside Sweet Holly.....	38.01



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0306	EA		2-1/2' To 3' Ilex - Gulfside Sweet Holly	49.31	
32 93 33 00-0307	EA		3' To 3-1/2' Ilex - Gulfside Sweet Holly	59.90	
32 93 33 00-0308	EA		3 Gallon Ilex cornuta - Dwarf Horned Holly	22.42	
32 93 33 00-0309	EA		1 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	11.30	
32 93 33 00-0310	EA		2 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	22.24	
32 93 33 00-0311	EA		5 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	32.24	
32 93 33 00-0312	EA		1 Gallon Ilex crenata - Hellers Japanese Holly	11.30	
32 93 33 00-0313	EA		2 Gallon Ilex crenata - Hellers Japanese Holly	24.71	
32 93 33 00-0314	EA		3 Gallon Ilex crenata - Hellers Japanese Holly	32.24	
32 93 33 00-0315	EA		2 Gallon Ilex crenata - Hetzi Japanese Holly	24.71	
32 93 33 00-0316	EA		3 Gallon Ilex crenata - Hetzi Japanese Holly	29.77	
32 93 33 00-0317	EA		2' To 3' Ilex crenata - Hetzi Japanese Holly	59.90	
32 93 33 00-0318	EA		3' To 4' Ilex crenata - Hetzi Japanese Holly	79.90	
32 93 33 00-0319	EA		2' To 3' Ilex opaca - American Holly	79.90	
32 93 33 00-0320	EA		3' To 4' Ilex opaca - American Holly	132.27	
32 93 33 00-0321	EA		4' To 5' Ilex opaca - American Holly	169.69	
32 93 33 00-0322	EA		5' To 6' Ilex opaca - American Holly	204.64	
32 93 33 00-0323	EA		6' To 7' Ilex opaca - American Holly	287.01	
32 93 33 00-0324	EA		7' To 8' Ilex opaca - American Holly	399.39	
32 93 33 00-0325	EA		8' To 10' Ilex opaca - American Holly	574.02	
32 93 33 00-0326	EA		10' To 12' Ilex opaca - American Holly	873.62	
32 93 33 00-0327	EA		12' To 14' Ilex opaca - American Holly	1,060.73	
32 93 33 00-0328	EA		14' To 16' Ilex opaca - American Holly	1,310.31	
32 93 33 00-0329	EA		2' To 3' Ilex verticillata - Winterberry (Female)	79.90	
32 93 33 00-0330	EA		3' To 4' Ilex verticillata - Winterberry (Female)	104.85	
32 93 33 00-0331	EA		2' To 3' Ilex verticillata - Winterberry (Male)	64.84	
32 93 33 00-0332	EA		3' To 4' Ilex verticillata - Winterberry (Male)	89.90	
32 93 33 00-0333	EA		4' To 5' Ilex verticillata - Winterberry (Male)	104.85	
32 93 33 00-0334	EA		1 Gallon Ilex vomitoria - Yaupon Holly	10.59	
32 93 33 00-0335	EA		3 Gallon Ilex vomitoria - Yaupon Holly	21.30	
32 93 33 00-0336	EA		10 Gallon Ilex vomitoria - Yaupon Holly	74.84	
32 93 33 00-0337	EA		18" Balled and Burlapped, Ilex glabra compacta & cvs - Compact Inkberry Holly	33.96	
32 93 33 00-0338	EA		24" Balled and Burlapped, Ilex glabra compacta & cvs - Compact Inkberry Holly	38.34	
32 93 33 00-0339	EA		3 Gallon Ilex meserveae & cvs - Blue Holly	43.82	
32 93 33 00-0340	EA		18" Balled and Burlapped, Ilex meserveae & cvs - Blue Holly	40.53	
32 93 33 00-0341	EA		24" Balled and Burlapped, Ilex meserveae & cvs - Blue Holly	49.29	
32 93 33 00-0342	EA		5 Gallon Ilex verticillata & cvs - Common Winterberry	36.15	
32 93 33 00-0343	EA		24" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	36.15	
32 93 33 00-0344	EA		30" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	38.34	
32 93 33 00-0345	EA		36" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	46.01	
32 93 33 00-0346	EA		42" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	51.48	
32 93 33 00-0347	EA		48" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	54.77	
32 93 33 00-0348	EA		60" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	70.11	
32 93 33 00-0349	EA		4' To 5' Ilex x attenuata "Foster" - Holly	129.80	
32 93 33 00-0350	EA		5' To 6' Ilex x attenuata "Foster" - Holly	172.16	
32 93 33 00-0351	EA		6' To 7' Ilex x attenuata "Foster" - Holly	154.04	
32 93 33 00-0352	EA		7' To 8' Ilex x attenuata "Foster" - Holly	299.48	
32 93 33 00-0353	EA		1 Gallon Jasminum - Jasmine	2.90	
32 93 33 00-0354	EA		3 Gallon Jasminum - Jasmine	11.34	
32 93 33 00-0355	EA		3 Gallon Jasminum - Orange Jasmine	8.82	
32 93 33 00-0356	EA		4' - 5' Jasminum - Orange Jasmine	100.78	
32 93 33 00-0357	EA		6' - 7' Jasminum - Orange Jasmine	201.55	
32 93 33 00-0358	EA		8' - 10' Jasminum - Orange Jasmine	272.10	
32 93 33 00-0359	EA		3 Gallon Juniperus chinensis cvs - Chinese Juniper	38.34	
32 93 33 00-0360	EA		5 Gallon Juniperus chinensis cvs - Chinese Juniper	42.72	
32 93 33 00-0361	EA		18" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper	56.96	
32 93 33 00-0362	EA		24" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper	74.49	
32 93 33 00-0363	EA		30" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper	87.63	
32 93 33 00-0364	EA		36" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper	118.30	
32 93 33 00-0365	EA		48" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper	162.12	
32 93 33 00-0366	EA		1 Gallon Juniperus horizontalis cvs - Creeping Juniper	18.27	
32 93 33 00-0367	EA		3 Gallon Juniperus horizontalis cvs - Creeping Juniper	38.34	
32 93 33 00-0368	EA		5 Gallon Juniperus horizontalis cvs - Creeping Juniper	42.72	
32 93 33 00-0369	EA		15" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper	46.01	
32 93 33 00-0370	EA		18" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper	50.39	
32 93 33 00-0371	EA		24" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper	61.34	
32 93 33 00-0372	EA		30" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper	74.49	
32 93 33 00-0373	EA		3 Gallon Juniperus procumbens cvs - Japanese Garden Juniper	29.58	
32 93 33 00-0374	EA		18" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper	35.05	
32 93 33 00-0375	EA		24" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper	48.20	
32 93 33 00-0376	EA		30" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper	61.34	
32 93 33 00-0377	EA		36" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper	74.49	
32 93 33 00-0378	EA		3 Gallon Juniperus sabina cvs - Savin Juniper	27.38	
32 93 33 00-0379	EA		5 Gallon Juniperus sabina cvs - Savin Juniper	32.86	
32 93 33 00-0380	EA		4 Gallon Juniperus virginiana cvs - Red Cedar Juniper	28.48	
32 93 33 00-0381	EA		36" Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper	54.77	
32 93 33 00-0382	EA		48" Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper	85.44	
32 93 33 00-0383	EA		60" Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper	107.35	
32 93 33 00-0384	EA		15" To 18" Kalmia latifolia - Mountain Laurel	44.95	
32 93 33 00-0385	EA		18" To 24" Kalmia latifolia - Mountain Laurel	59.90	
32 93 33 00-0386	EA		2' To 3' Kalmia latifolia - Mountain Laurel	87.31	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0387	EA	4' To 5' Kalmia latifolia - Mountain Laurel	159.68	
32 93 33 00-0388	EA	5' To 6' Kalmia latifolia - Mountain Laurel	244.65	
32 93 33 00-0389	EA	6' To 8' Kalmia latifolia - Mountain Laurel	374.44	
32 93 33 00-0390	EA	1 Gallon Kerria japonica - Kerria	10.00	
32 93 33 00-0391	EA	5 Gallon Kerria japonica - Kerria	31.30	
32 93 33 00-0392	EA	24" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	31.77	
32 93 33 00-0393	EA	30" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	36.15	
32 93 33 00-0394	EA	36" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	39.43	
32 93 33 00-0395	EA	42" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	46.01	
32 93 33 00-0396	EA	48" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	52.58	
32 93 33 00-0397	EA	60" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	65.72	
32 93 33 00-0398	EA	1 Gallon Lagerstroemia indica - Crape Myrtle	7.53	
32 93 33 00-0399	EA	5 Gallon Lagerstroemia indica - Crape Myrtle	26.83	
32 93 33 00-0400	EA	3' To 4' Lagerstroemia indica - Crape Myrtle	37.42	
32 93 33 00-0401	EA	4' To 5' Lagerstroemia indica - Crape Myrtle	54.96	
32 93 33 00-0402	EA	5' To 6' Lagerstroemia indica - Crape Myrtle	87.31	
32 93 33 00-0403	EA	7' To 8' Lagerstroemia indica - Crape Myrtle	113.37	
32 93 33 00-0404	EA	9' To 10' Lagerstroemia indica - Crape Myrtle	151.16	
32 93 33 00-0405	EA	11' To 12' Lagerstroemia indica - Crape Myrtle	314.92	
32 93 33 00-0406	EA	1 Gallon Leucothoe axillaris - Coast Leucothoe	11.30	
32 93 33 00-0407	EA	2 Gallon Leucothoe axillaris - Coast Leucothoe	24.71	
32 93 33 00-0408	EA	3 Gallon Leucothoe axillaris - Coast Leucothoe	29.77	
32 93 33 00-0409	EA	1 Gallon Ligustrum lucidum - Glossy Privet	6.94	
32 93 33 00-0410	EA	5 Gallon Ligustrum lucidum - Glossy Privet	21.30	
32 93 33 00-0411	EA	15 Gallon Ligustrum lucidum - Glossy Privet	99.79	
32 93 33 00-0412	EA	1 Gallon Ligustrum sinense - Variegated Chinese Privet	6.94	
32 93 33 00-0413	EA	2 Gallon Ligustrum sinense - Variegated Chinese Privet	14.95	
32 93 33 00-0414	EA	3 Gallon Ligustrum sinense - Variegated Chinese Privet	19.42	
32 93 33 00-0415	EA	36" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet	32.86	
32 93 33 00-0416	EA	48" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet	48.20	
32 93 33 00-0417	EA	60" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet	61.34	
32 93 33 00-0418	EA	72" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet	70.11	
32 93 33 00-0419	EA	5 Gallon Lindera benzoin - Spicebush	36.15	
32 93 33 00-0420	EA	36" Balled and Burlapped, Lindera benzoin - Spicebush	30.67	
32 93 33 00-0421	EA	48" Balled and Burlapped, Lindera benzoin - Spicebush	37.24	
32 93 33 00-0422	EA	2' To 3' Lonicera fragrantissima - Winter Honeysuckle	59.90	
32 93 33 00-0423	EA	3' To 4' Lonicera fragrantissima - Winter Honeysuckle	72.37	
32 93 33 00-0424	EA	30" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle	32.86	
32 93 33 00-0425	EA	36" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle	39.43	
32 93 33 00-0426	EA	42" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle	43.82	
32 93 33 00-0427	EA	48" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle	48.20	
32 93 33 00-0428	EA	1 Gallon Myrica cerifera - Wax Myrtle	6.30	
32 93 33 00-0429	EA	4 Gallon Myrica cerifera - Wax Myrtle	20.16	
32 93 33 00-0430	EA	7 Gallon Myrica cerifera - Wax Myrtle	44.09	
32 93 33 00-0431	EA	10 Gallon Myrica cerifera - Wax Myrtle	65.50	
32 93 33 00-0432	EA	15 Gallon Myrica cerifera - Wax Myrtle	100.78	
32 93 33 00-0433	EA	45 Gallon Myrica cerifera - Wax Myrtle	302.33	
32 93 33 00-0434	EA	1' - 2' Myrica cerifera - Wax Myrtle	8.82	
32 93 33 00-0435	EA	3' - 4' Myrica cerifera - Wax Myrtle	30.23	
32 93 33 00-0436	EA	5' - 6' Myrica cerifera - Wax Myrtle	55.43	
32 93 33 00-0437	EA	7' - 8' Myrica cerifera - Wax Myrtle	75.58	
32 93 33 00-0438	EA	9' - 10' Myrica cerifera - Wax Myrtle	100.78	
32 93 33 00-0439	EA	11' - 12' Myrica cerifera - Wax Myrtle	153.68	
32 93 33 00-0440	EA	3 Gallon Myrica pensylvanica - Northern Bayberry	32.86	
32 93 33 00-0441	EA	24" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry	53.67	
32 93 33 00-0442	EA	30" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry	78.87	
32 93 33 00-0443	EA	36" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry	94.20	
32 93 33 00-0444	EA	48" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry	98.59	
32 93 33 00-0445	EA	1 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum	8.64	
32 93 33 00-0446	EA	5 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum	21.37	
32 93 33 00-0447	EA	15 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum	84.83	
32 93 33 00-0448	EA	1 Gallon Nandina domestica - Heavenly Bamboo	11.30	
32 93 33 00-0449	EA	2 Gallon Nandina domestica - Heavenly Bamboo	24.71	
32 93 33 00-0450	EA	5 Gallon Nandina domestica - Heavenly Bamboo	37.42	
32 93 33 00-0451	EA	15 Gallon Nerium oleander - Oleander	92.82	
32 93 33 00-0452	EA	24" Box Nerium oleander - Oleander	333.56	
32 93 33 00-0453	EA	1 Gallon Osmanthus fragrans - Fragrant Tea Olive	6.94	
32 93 33 00-0454	EA	3 Gallon Osmanthus fragrans - Fragrant Tea Olive	18.83	
32 93 33 00-0455	EA	1 Gallon Philadelphus - Evergreen Mockorange	9.65	
32 93 33 00-0456	EA	5 Gallon Philadelphus - Evergreen Mockorange	31.30	
32 93 33 00-0457	EA	36" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange	32.86	
32 93 33 00-0458	EA	42" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange	38.34	
32 93 33 00-0459	EA	48" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange	43.82	
32 93 33 00-0460	EA	1 Gallon Photinia fraseri - Red-Tipped Photinia	8.64	
32 93 33 00-0461	EA	5 Gallon Photinia fraseri - Red-Tipped Photinia	21.37	
32 93 33 00-0462	EA	15 Gallon Photinia fraseri - Red-Tipped Photinia	84.83	
32 93 33 00-0463	EA	1 Gallon Phormium tenax - New Zealand Flax	9.11	
32 93 33 00-0464	EA	5 Gallon Phormium tenax - New Zealand Flax	21.84	
32 93 33 00-0465	EA	15 Gallon Phormium tenax - New Zealand Flax	92.82	
32 93 33 00-0466	EA	24" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark	32.86	
32 93 33 00-0467	EA	30" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark	38.34	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0468	EA		36" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	43.82	
32 93 33 00-0469	EA		42" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	54.77	
32 93 33 00-0470	EA		48" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	65.72	
32 93 33 00-0471	EA		12" To 15' Spread Pieris - Mountain Andromeda.....	30.24	
32 93 33 00-0472	EA		15" To 18" Spread Pieris - Mountain Andromeda.....	64.84	
32 93 33 00-0473	EA		12" To 15' Pieris japonica - Japanese Andromeda.....	39.30	
32 93 33 00-0474	EA		15" To 18" Pieris japonica - Japanese Andromeda.....	44.95	
32 93 33 00-0475	EA		18" To 24" Pieris japonica - Japanese Andromeda.....	56.25	
32 93 33 00-0476	EA		2' To 2-1/2' Pieris japonica - Japanese Andromeda.....	79.90	
32 93 33 00-0477	EA		2-1/2' To 3' Pieris japonica - Japanese Andromeda.....	94.85	
32 93 33 00-0478	EA		24" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	33.72	
32 93 33 00-0479	EA		30" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	43.16	
32 93 33 00-0480	EA		36" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	51.93	
32 93 33 00-0481	EA		48" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	66.77	
32 93 33 00-0482	EA		60" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	80.26	
32 93 33 00-0483	EA		72" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	117.35	
32 93 33 00-0484	EA		30" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine.....	72.84	
32 93 33 00-0485	EA		36" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine.....	87.68	
32 93 33 00-0486	EA		48" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine.....	116.68	
32 93 33 00-0487	EA		1 Gallon Pittosporum - Pittosporum.....	4.16	
32 93 33 00-0488	EA		3 Gallon Pittosporum - Pittosporum.....	10.71	
32 93 33 00-0489	EA		1 Gallon Pittosporum - Varigated Pittosporum.....	4.16	
32 93 33 00-0490	EA		3 Gallon Pittosporum - Varigated Pittosporum.....	10.71	
32 93 33 00-0491	EA		5 Gallon Pittosporum - Varigated Pittosporum.....	18.77	
32 93 33 00-0492	EA		1 Gallon Pittosporum eugenioides - Lemonwood.....	9.92	
32 93 33 00-0493	EA		5 Gallon Pittosporum eugenioides - Lemonwood.....	23.51	
32 93 33 00-0494	EA		1 Gallon Pittosporum tobira - Japanese Pittosporum.....	8.64	
32 93 33 00-0495	EA		5 Gallon Pittosporum tobira - Japanese Pittosporum.....	21.37	
32 93 33 00-0496	EA		15 Gallon Pittosporum tobira - Japanese Pittosporum.....	84.83	
32 93 33 00-0497	EA		2 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil.....	18.62	
32 93 33 00-0498	EA		5 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil.....	26.29	
32 93 33 00-0499	EA		18" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil.....	19.72	
32 93 33 00-0500	EA		24" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil.....	21.91	
32 93 33 00-0501	EA		30" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil.....	31.77	
32 93 33 00-0502	EA		36" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil.....	36.70	
32 93 33 00-0503	EA		1 Gallon Prunus caroliniana - Carolina Cherry Laurel.....	4.64	
32 93 33 00-0504	EA		5 Gallon Prunus caroliniana - Carolina Cherry Laurel.....	11.59	
32 93 33 00-0505	EA		15 Gallon Prunus caroliniana - Carolina Cherry Laurel.....	69.12	
32 93 33 00-0506	EA		15" To 18" Prunus laurocerasus - Cherry Laurel.....	17.68	
32 93 33 00-0507	EA		18" To 24" Prunus laurocerasus - Cherry Laurel.....	21.88	
32 93 33 00-0508	EA		24" To 30" Prunus laurocerasus - Cherry Laurel.....	28.47	
32 93 33 00-0509	EA		15" To 18" Prunus triloba - Double White Flowering Almond.....	15.79	
32 93 33 00-0510	EA		18" To 24" Prunus triloba - Double White Flowering Almond.....	20.21	
32 93 33 00-0511	EA		3' To 4' Prunus triloba - Double White Flowering Almond.....	32.24	
32 93 33 00-0512	EA		4' To 6' Prunus triloba - Double White Flowering Almond.....	64.56	
32 93 33 00-0513	EA		5 Gallon Prunus triloba - Pink Flowering Almond.....	19.42	
32 93 33 00-0514	EA		18" To 24" Prunus triloba - Pink Flowering Almond.....	21.81	
32 93 33 00-0515	EA		2' To 3' Prunus triloba - Pink Flowering Almond.....	25.36	
32 93 33 00-0516	EA		2' To 3' Prunus virginiana - Brilliant Chokeberry.....	17.24	
32 93 33 00-0517	EA		3' To 4' Prunus virginiana - Brilliant Chokeberry.....	21.16	
32 93 33 00-0518	EA		4' To 5' Prunus virginiana - Brilliant Chokeberry.....	25.36	
32 93 33 00-0519	EA		5' To 6' Prunus virginiana - Brilliant Chokeberry.....	29.05	
32 93 33 00-0520	EA		1 Gallon Punica granatum - Dwarf Pomegranate.....	7.41	
32 93 33 00-0521	EA		3 Gallon Punica granatum - Dwarf Pomegranate.....	21.89	
32 93 33 00-0522	EA		7 Gallon Punica granatum - Dwarf Pomegranate.....	44.95	
32 93 33 00-0523	EA		1 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha.....	9.41	
32 93 33 00-0524	EA		5 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha.....	31.30	
32 93 33 00-0525	EA		5 Gallon Espalier Pyracantha koidzumi "Santa Cruz" - Pyracantha.....	64.84	
32 93 33 00-0526	EA		1 Gallon Ralphialepis indica - Indian Hawthorne.....	7.53	
32 93 33 00-0527	EA		2 Gallon Ralphialepis indica - Indian Hawthorne.....	14.36	
32 93 33 00-0528	EA		5 Gallon Ralphialepis indica - Indian Hawthorne.....	25.54	
32 93 33 00-0529	EA		1 Gallon Rhamnus californica - Coffeeberry.....	11.45	
32 93 33 00-0530	EA		5 Gallon Rhamnus californica - Coffeeberry.....	32.74	
32 93 33 00-0531	EA		15 Gallon Rhamnus californica - Coffeeberry.....	98.24	
32 93 33 00-0532	EA		4' To 5' Rhamnus frangula "Columnaris" - Tallhedge.....	57.43	
32 93 33 00-0533	EA		5' To 6' Rhamnus frangula "Columnaris" - Tallhedge.....	78.72	
32 93 33 00-0534	EA		6' To 8' Rhamnus frangula "Columnaris" - Tallhedge.....	102.38	
32 93 33 00-0535	EA		10' To 12' Rhamnus frangula "Columnaris" - Tallhedge.....	187.22	
32 93 33 00-0536	EA		1 Gallon Rhalphialepis indica 'Ballerina' - Ballerina Indian Hawthorn.....	9.20	
32 93 33 00-0537	EA		5 Gallon Rhalphialepis indica 'Ballerina' - Ballerina Indian Hawthorn.....	21.84	
32 93 33 00-0538	EA		15 Gallon Rhalphialepis indica 'Ballerina' - Ballerina Indian Hawthorn.....	92.82	
32 93 33 00-0539	EA		1 Gallon Rhododendron - Azalea Evergreen Hybrids.....	12.24	
32 93 33 00-0540	EA		2 Gallon Rhododendron - Azalea Evergreen Hybrids.....	24.71	
32 93 33 00-0541	EA		3 Gallon Rhododendron - Azalea Evergreen Hybrids.....	32.24	
32 93 33 00-0542	EA		5 Gallon Rhododendron - Azalea Evergreen Hybrids.....	37.42	
32 93 33 00-0543	EA		15" To 18" Rhododendron - Azalea Evergreen Hybrids.....	43.78	
32 93 33 00-0544	EA		18" To 24" Rhododendron - Azalea Evergreen Hybrids.....	54.95	
32 93 33 00-0545	EA		2' To 2-1/2' Rhododendron - Azalea Evergreen Hybrids.....	79.90	
32 93 33 00-0546	EA		2-1/2' To 3' Rhododendron - Azalea Evergreen Hybrids.....	112.26	
32 93 33 00-0547	EA		1 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	13.77	
32 93 33 00-0548	EA		2 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	24.71	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0549	EA	15' To 18" Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	42.48	
32 93 33 00-0550	EA	18" To 24" Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	54.95	
32 93 33 00-0551	EA	2' To 3' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	79.90	
32 93 33 00-0552	EA	3' To 4' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	117.32	
32 93 33 00-0553	EA	4' To 5' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	157.21	
32 93 33 00-0554	EA	5 Gallon Rhododendron - Boxleaf Azara.....	31.30	
32 93 33 00-0555	EA	15 Gallon Rhododendron - Boxleaf Azara.....	112.26	
32 93 33 00-0556	EA	15' To 18" Rhododendron - Carolina Rhododendron.....	35.42	
32 93 33 00-0557	EA	18" To 24" Rhododendron - Carolina Rhododendron.....	62.37	
32 93 33 00-0558	EA	24" To 30" Rhododendron - Carolina Rhododendron.....	92.38	
32 93 33 00-0559	EA	2' To 3' Rhododendron - Five-leafed Azalea.....	42.01	
32 93 33 00-0560	EA	3' To 4' Rhododendron - Five-leafed Azalea.....	54.95	
32 93 33 00-0561	EA	4' To 5' Rhododendron - Five-leafed Azalea.....	72.37	
32 93 33 00-0562	EA	15" To 18" Rhododendron - Ghent Azalea.....	42.01	
32 93 33 00-0563	EA	18" To 24" Rhododendron - Ghent Azalea.....	52.37	
32 93 33 00-0564	EA	2' To 3' Rhododendron - Ghent Azalea.....	84.84	
32 93 33 00-0565	EA	3' To 4' Rhododendron - Ghent Azalea.....	117.32	
32 93 33 00-0566	EA	4' To 5' Rhododendron - Ghent Azalea.....	157.21	
32 93 33 00-0567	EA	5' To 6' Rhododendron - Ghent Azalea.....	209.70	
32 93 33 00-0568	EA	1 Gallon Rhododendron - Hybrid Rhododendron.....	13.77	
32 93 33 00-0569	EA	2 Gallon Rhododendron - Hybrid Rhododendron.....	29.77	
32 93 33 00-0570	EA	3 Gallon Rhododendron - Hybrid Rhododendron.....	42.25	
32 93 33 00-0571	EA	5 Gallon Rhododendron - Hybrid Rhododendron.....	47.19	
32 93 33 00-0572	EA	15' To 18" Rhododendron - Hybrid Rhododendron.....	39.89	
32 93 33 00-0573	EA	18" To 24" Rhododendron - Hybrid Rhododendron.....	54.95	
32 93 33 00-0574	EA	24" To 30" Rhododendron - Hybrid Rhododendron.....	74.84	
32 93 33 00-0575	EA	30" To 36" Rhododendron - Hybrid Rhododendron.....	87.32	
32 93 33 00-0576	EA	36" To 42" Rhododendron - Hybrid Rhododendron.....	124.85	
32 93 33 00-0577	EA	42" To 48" Rhododendron - Hybrid Rhododendron.....	154.74	
32 93 33 00-0578	EA	15" To 18" Rhododendron - Pjm Rhododendron.....	44.95	
32 93 33 00-0579	EA	18" To 24" Rhododendron - Pjm Rhododendron.....	54.95	
32 93 33 00-0580	EA	2' To 2-1/2' Rhododendron - Pjm Rhododendron.....	79.90	
32 93 33 00-0581	EA	2-1/2 To 3' Rhododendron - Pjm Rhododendron.....	102.38	
32 93 33 00-0582	EA	3' To 3-1/2' Rhododendron - Pjm Rhododendron.....	124.85	
32 93 33 00-0583	EA	12" To 15" Rhododendron - Torch Azalea.....	34.95	
32 93 33 00-0584	EA	15" To 18" Rhododendron - Torch Azalea.....	42.01	
32 93 33 00-0585	EA	18" To 24" Rhododendron - Torch Azalea.....	52.37	
32 93 33 00-0586	EA	2' To 3' Rhododendron - Torch Azalea.....	87.32	
32 93 33 00-0587	EA	3 Gallon Rhododendron cvs - Lepidote Rhododendron.....	39.43	
32 93 33 00-0588	EA	5 Gallon Rhododendron cvs - Lepidote Rhododendron.....	48.20	
32 93 33 00-0589	EA	18" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron.....	59.15	
32 93 33 00-0590	EA	24" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron.....	74.49	
32 93 33 00-0591	EA	30" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron.....	87.63	
32 93 33 00-0592	EA	36" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron.....	105.16	
32 93 33 00-0593	EA	1 Gallon Rhus glabra - Dwarf Smooth Sumac.....	11.30	
32 93 33 00-0594	EA	5 Gallon Rhus glabra - Dwarf Smooth Sumac.....	31.30	
32 93 33 00-0595	EA	2 Gallon Rhus aromatica & cvs - Fragrant Sumac.....	26.29	
32 93 33 00-0596	EA	5 Gallon Rhus aromatica & cvs - Fragrant Sumac.....	36.15	
32 93 33 00-0597	EA	18" Balled and Burlapped, Rhus aromatica & cvs - Fragrant Sumac.....	41.62	
32 93 33 00-0598	EA	24" Balled and Burlapped, Rhus aromatica & cvs - Fragrant Sumac.....	54.77	
32 93 33 00-0599	EA	36" Balled and Burlapped, Rhus glabra - Smooth Sumac.....	32.86	
32 93 33 00-0600	EA	48" Balled and Burlapped, Rhus typhina & cvs - Staghorn Sumac.....	54.77	
32 93 33 00-0601	EA	72" Balled and Burlapped, Rhus typhina & cvs - Staghorn Sumac.....	87.63	
32 93 33 00-0602	EA	15" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	29.58	
32 93 33 00-0603	EA	18" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	33.96	
32 93 33 00-0604	EA	24" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	49.29	
32 93 33 00-0605	EA	30" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	65.72	
32 93 33 00-0606	EA	1 Gallon Rosa hybrids & cvs - Shrub Rose.....	18.07	
32 93 33 00-0607	EA	2 Gallon Rosa hybrids & cvs - Shrub Rose.....	21.91	
32 93 33 00-0608	EA	3 Gallon Rosa hybrids & cvs - Shrub Rose.....	27.38	
32 93 33 00-0609	EA	2 Gallon Rosa rugosa & cvs - Rugosa Rose.....	19.72	
32 93 33 00-0610	EA	3 Gallon Rosa rugosa & cvs - Rugosa Rose.....	25.19	
32 93 33 00-0611	EA	5 Gallon Sambucus canadensis - American Elder.....	36.15	
32 93 33 00-0612	EA	1 Gallon Santolina chamaecyparissus - Lavender Cotton.....	8.64	
32 93 33 00-0613	EA	5 Gallon Santolina chamaecyparissus - Lavender Cotton.....	21.37	
32 93 33 00-0614	EA	1 Gallon Santolina rosmarinifolia - Green Lavender Cotton.....	8.64	
32 93 33 00-0615	EA	5 Gallon Santolina rosmarinifolia - Green Lavender Cotton.....	21.37	
32 93 33 00-0616	EA	2 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca.....	16.24	
32 93 33 00-0617	EA	3 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca.....	23.77	
32 93 33 00-0618	EA	1 Gallon Sarcococca humilis - Fragrant Sarcococca.....	8.83	
32 93 33 00-0619	EA	5 Gallon Sarcococca humilis - Fragrant Sarcococca.....	23.07	
32 93 33 00-0620	EA	5 Gallon Senna artemisioides - Feathery Cassia.....	23.87	
32 93 33 00-0621	EA	15 Gallon Senna artemisioides - Feathery Cassia.....	94.97	
32 93 33 00-0622	EA	24" Box Senna artemisioides - Feathery Cassia.....	298.35	
32 93 33 00-0623	EA	1 Gallon Skimmia japonica - Japanese Skimmia.....	11.30	
32 93 33 00-0624	EA	2 Gallon Skimmia japonica - Japanese Skimmia.....	22.48	
32 93 33 00-0625	EA	5 Gallon Skimmia japonica - Japanese Skimmia.....	36.24	
32 93 33 00-0626	EA	1 Gallon Sollya fusiformis - Bluebell Creeper.....	8.64	
32 93 33 00-0627	EA	5 Gallon Sollya fusiformis - Bluebell Creeper.....	21.37	
32 93 33 00-0628	EA	3' To 4' Spiraea - Garland Spiraea.....	52.37	
32 93 33 00-0629	EA	4' To 5' Spiraea - Garland Spiraea.....	79.90	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0630	EA		5 Gallon Spiraea - Snowmound Spirea.....	31.30	
32 93 33 00-0631	EA		18" To 24" Spiraea - Snowmound Spirea	25.65	
32 93 33 00-0632	EA		2' To 3' Spiraea - Snowmound Spirea	36.24	
32 93 33 00-0633	EA		3' To 4' Spiraea - Snowmound Spirea	42.01	
32 93 33 00-0634	EA		4' To 5' Spiraea - Snowmound Spirea	72.37	
32 93 33 00-0635	EA		1 Gallon Spiraea japonica & cvs - Japanese Spirea	11.30	
32 93 33 00-0636	EA		2 Gallon Spiraea japonica & cvs - Japanese Spirea	22.24	
32 93 33 00-0637	EA		3 Gallon Spiraea japonica & cvs - Japanese Spirea	25.74	
32 93 33 00-0638	EA		5 Gallon Spiraea japonica & cvs - Japanese Spirea	27.93	
32 93 33 00-0639	EA		18" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spirea	28.48	
32 93 33 00-0640	EA		24" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spirea	32.86	
32 93 33 00-0641	EA		30" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spirea	37.24	
32 93 33 00-0642	EA		36" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spirea	43.27	
32 93 33 00-0643	EA		2 Gallon Spiraea nipponica & cvs - Nippon Spiraea	17.53	
32 93 33 00-0644	EA		5 Gallon Spiraea nipponica & cvs - Nippon Spiraea	26.29	
32 93 33 00-0645	EA		18" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	24.10	
32 93 33 00-0646	EA		24" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	28.48	
32 93 33 00-0647	EA		30" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	32.86	
32 93 33 00-0648	EA		36" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	37.24	
32 93 33 00-0649	EA		48" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	48.20	
32 93 33 00-0650	EA		1 Gallon Spiraea x bumalda & cvs - Bumalda Spirea	11.30	
32 93 33 00-0651	EA		2 Gallon Spiraea x bumalda & cvs - Bumalda Spirea	20.26	
32 93 33 00-0652	EA		4 Gallon Spiraea x bumalda & cvs - Bumalda Spirea	26.29	
32 93 33 00-0653	EA		18" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spirea	23.00	
32 93 33 00-0654	EA		24" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spirea	27.93	
32 93 33 00-0655	EA		30" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spirea	32.86	
32 93 33 00-0656	EA		36" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spirea	37.24	
32 93 33 00-0657	EA		5 Gallon Spiraea x vanhouttei & cvs - Vanhoutte Spirea	26.29	
32 93 33 00-0658	EA		18" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea	26.29	
32 93 33 00-0659	EA		24" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea	30.67	
32 93 33 00-0660	EA		30" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea	41.62	
32 93 33 00-0661	EA		36" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea	48.20	
32 93 33 00-0662	EA		42" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea	56.96	
32 93 33 00-0663	EA		5 Gallon Staphylea trifolia - Bladdernut	36.98	
32 93 33 00-0664	EA		2 Gallon Stephanandra incisa & cvs - Cutleaf Stephanadra	26.29	
32 93 33 00-0665	EA		5 Gallon Stephanandra incisa & cvs - Cutleaf Stephanadra	28.48	
32 93 33 00-0666	EA		24" Balled and Burlapped, Stephanandra incisa & cvs - Cutleaf Stephanadra	32.86	
32 93 33 00-0667	EA		30" Balled and Burlapped, Stephanandra incisa & cvs - Cutleaf Stephanadra	39.43	
32 93 33 00-0668	EA		2 Gallon Symphoricarpos albus - Common Snowberry	27.38	
32 93 33 00-0669	EA		5 Gallon Symphoricarpos albus - Common Snowberry	29.03	
32 93 33 00-0670	EA		24" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	48.20	
32 93 33 00-0671	EA		30" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	60.25	
32 93 33 00-0672	EA		36" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	70.11	
32 93 33 00-0673	EA		42" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	81.06	
32 93 33 00-0674	EA		18" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	48.20	
32 93 33 00-0675	EA		24" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	52.58	
32 93 33 00-0676	EA		30" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	60.25	
32 93 33 00-0677	EA		36" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	70.11	
32 93 33 00-0678	EA		42" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	81.06	
32 93 33 00-0679	EA		60" Balled and Burlapped, Syringa villosa & cvs - Late Lilac.....	38.34	
32 93 33 00-0680	EA		72" Balled and Burlapped, Syringa villosa & cvs - Late Lilac	41.62	
32 93 33 00-0681	EA		36" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	32.86	
32 93 33 00-0682	EA		42" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	37.24	
32 93 33 00-0683	EA		48" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	41.62	
32 93 33 00-0684	EA		60" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	48.20	
32 93 33 00-0685	EA		72" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	59.15	
32 93 33 00-0686	EA		5 Gallon Syringa x chinensis & cvs - Chinese Lilac	27.38	
32 93 33 00-0687	EA		36" Balled and Burlapped, Syringa x hyacinthiflora & cvs - Hybrid Lilac.....	31.77	
32 93 33 00-0688	EA		48" Balled and Burlapped, Syringa x hyacinthiflora & cvs - Hybrid Lilac.....	41.62	
32 93 33 00-0689	EA		48" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew	174.17	
32 93 33 00-0690	EA		54" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew	194.98	
32 93 33 00-0691	EA		60" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew	214.70	
32 93 33 00-0692	EA		72" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew	258.51	
32 93 33 00-0693	EA		18" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	46.01	
32 93 33 00-0694	EA		24" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	60.25	
32 93 33 00-0695	EA		30" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	70.11	
32 93 33 00-0696	EA		36" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	76.68	
32 93 33 00-0697	EA		15" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	46.01	
32 93 33 00-0698	EA		18" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	60.25	
32 93 33 00-0699	EA		24" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	71.20	
32 93 33 00-0700	EA		30" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	84.35	
32 93 33 00-0701	EA		36" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	127.07	
32 93 33 00-0702	EA		36" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	70.11	
32 93 33 00-0703	EA		48" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	94.20	
32 93 33 00-0704	EA		60" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	142.40	
32 93 33 00-0705	EA		72" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	208.12	
32 93 33 00-0706	EA		84" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	238.80	
32 93 33 00-0707	EA		96" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	277.13	
32 93 33 00-0708	EA		15" Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae.....	30.67	
32 93 33 00-0709	EA		18" Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae.....	42.72	
32 93 33 00-0710	EA		24" Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae.....	60.25	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0711	EA	3' To 4' Viburnum dilatatum - Linden Viburnum	52.37	
32 93 33 00-0712	EA	4' To 5' Viburnum dilatatum - Linden Viburnum	79.90	
32 93 33 00-0713	EA	5' To 6' Viburnum dilatatum - Linden Viburnum	104.85	
32 93 33 00-0714	EA	1 Gallon Viburnum japonicum - Japanese Viburnum	6.35	
32 93 33 00-0715	EA	3 Gallon Viburnum japonicum - Japanese Viburnum	17.42	
32 93 33 00-0716	EA	5 Gallon Viburnum plicatum - Japanese Snowball	31.30	
32 93 33 00-0717	EA	5' To 6' Viburnum plicatum - Japanese Snowball	117.32	
32 93 33 00-0718	EA	2' To 3' Viburnum rhytidophyllum - Leatherleaf Viburnum	54.96	
32 93 33 00-0719	EA	3' To 4' Viburnum rhytidophyllum - Leatherleaf Viburnum	64.84	
32 93 33 00-0720	EA	4' To 5' Viburnum rhytidophyllum - Leatherleaf Viburnum	91.20	
32 93 33 00-0721	EA	30" Balled and Burlapped, Viburnum burkwoodii & cvs - Burkwood Viburnum	60.25	
32 93 33 00-0722	EA	36" Balled and Burlapped, Viburnum burkwoodii & cvs - Burkwood Viburnum	72.30	
32 93 33 00-0723	EA	24" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum	54.77	
32 93 33 00-0724	EA	30" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum	65.72	
32 93 33 00-0725	EA	36" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum	76.68	
32 93 33 00-0726	EA	42" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum	87.63	
32 93 33 00-0727	EA	1 Gallon Viburnum davidii - David Viburnum	8.64	
32 93 33 00-0728	EA	5 Gallon Viburnum davidii - David Viburnum	21.37	
32 93 33 00-0729	EA	36" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum	30.67	
32 93 33 00-0730	EA	42" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum	32.86	
32 93 33 00-0731	EA	48" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum	38.34	
32 93 33 00-0732	EA	60" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum	43.82	
32 93 33 00-0733	EA	72" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum	48.20	
32 93 33 00-0734	EA	30" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum	29.58	
32 93 33 00-0735	EA	36" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum	32.86	
32 93 33 00-0736	EA	42" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum	41.62	
32 93 33 00-0737	EA	48" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum	48.20	
32 93 33 00-0738	EA	60" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum	65.72	
32 93 33 00-0739	EA	72" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum	78.87	
32 93 33 00-0740	EA	36" Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum	32.86	
32 93 33 00-0741	EA	48" Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum	43.82	
32 93 33 00-0742	EA	5' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum	54.77	
32 93 33 00-0743	EA	6" Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum	76.68	
32 93 33 00-0744	EA	7' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum	109.54	
32 93 33 00-0745	EA	8' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum	153.35	
32 93 33 00-0746	EA	9' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum	197.17	
32 93 33 00-0747	EA	30" Balled and Burlapped, Viburnum plicatum tomentosum & cvs - Doublefile Viburnum	39.43	
32 93 33 00-0748	EA	36" Balled and Burlapped, Viburnum plicatum tomentosum & cvs - Doublefile Viburnum	43.82	
32 93 33 00-0749	EA	36" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	78.87	
32 93 33 00-0750	EA	48" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	120.49	
32 93 33 00-0751	EA	60" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	153.35	
32 93 33 00-0752	EA	72" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	186.22	
32 93 33 00-0753	EA	84" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	230.03	
32 93 33 00-0754	EA	96" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	273.85	
32 93 33 00-0755	EA	108" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	328.62	
32 93 33 00-0756	EA	120" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	383.39	
32 93 33 00-0757	EA	30" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum	33.41	
32 93 33 00-0758	EA	36" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum	36.70	
32 93 33 00-0759	EA	48" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum	41.62	
32 93 33 00-0760	EA	60" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum	48.20	
32 93 33 00-0761	EA	72" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum	55.32	
32 93 33 00-0762	EA	18" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	31.77	
32 93 33 00-0763	EA	24" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	38.34	
32 93 33 00-0764	EA	30" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	46.01	
32 93 33 00-0765	EA	36" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	52.58	
32 93 33 00-0766	EA	42" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	63.53	
32 93 33 00-0767	EA	48" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	70.11	
32 93 33 00-0768	EA	30" Balled and Burlapped, Viburnum x carlcephalum & cvs - Fragrant Viburnum	54.77	
32 93 33 00-0769	EA	36" Balled and Burlapped, Viburnum x carlcephalum & cvs - Fragrant Viburnum	65.72	
32 93 33 00-0770	EA	42" Balled and Burlapped, Viburnum x carlcephalum & cvs - Fragrant Viburnum	76.68	
32 93 33 00-0771	EA	48" Balled and Burlapped, Viburnum x carlcephalum & cvs - Fragrant Viburnum	87.63	
32 93 33 00-0772	EA	60" Balled and Burlapped, Viburnum x carlcephalum & cvs - Fragrant Viburnum	98.59	
32 93 33 00-0773	EA	30" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum	70.11	
32 93 33 00-0774	EA	36" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum	78.87	
32 93 33 00-0775	EA	42" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum	89.82	
32 93 33 00-0776	EA	48" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum	102.97	
32 93 33 00-0777	EA	2' To 3' Viburnum opulus "Roseum" - Fragrant Snowball	64.84	
32 93 33 00-0778	EA	3' To 4' Viburnum opulus "Roseum" - Fragrant Snowball	79.90	
32 93 33 00-0779	EA	4' To 5' Viburnum opulus "Roseum" - Fragrant Snowball	117.32	
32 93 33 00-0780	EA	5 Gallon Weigela florida & cvs - Old Fashioned Weigela	36.15	
32 93 33 00-0781	EA	24" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela	32.86	
32 93 33 00-0782	EA	30" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela	37.24	
32 93 33 00-0783	EA	36" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela	41.62	
32 93 33 00-0784	EA	42" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela	48.20	
32 93 33 00-0785	EA	48" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela	54.77	
32 93 33 00-0786	EA	1 Gallon Xylosma congestum - Shiny Xylosma	7.53	
32 93 33 00-0787	EA	5 Gallon Xylosma congestum - Shiny Xylosma	21.30	
32 93 33 00-0788	EA	15 Gallon Xylosma congestum - Shiny Xylosma	93.67	
32 93 33 00-0789	EA	1 Gallon Yucca aloifolia - Spanish Bayonet	6.35	
32 93 33 00-0790	EA	3 Gallon Yucca aloifolia - Spanish Bayonet	16.83	
32 93 33 00-0791	EA	1 Gallon Yucca filamentosa - Adams Needle	8.83	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0792	EA	3	Gallon Yucca filamentosa - Adams Needle.....	17.18	
32 93 33 00-0793	EA	5	Gallon Yucca filamentosa - Adams Needle.....	27.18	
32 93 33 00-0794	EA	5	Gallon Border Forsythia - Goldenbells.....	30.24	
32 93 33 00-0795	EA	2	To 3' Border Forsythia - Goldenbells.....	24.95	
32 93 33 00-0796	EA	3	To 4' Border Forsythia - Goldenbells.....	31.54	
32 93 33 00-0797	EA	4	To 5' Border Forsythia - Goldenbells.....	39.30	
32 93 33 00-0798	EA	5	To 6' Border Forsythia - Goldenbells.....	47.19	
32 93 33 00-0799	EA	6	To 8' Border Forsythia - Goldenbells.....	64.84	
32 93 33 00-0800	EA	3	Juniperus chinensis - Columnar Chinese Juniper.....	64.24	
32 93 33 00-0801	EA	4	Juniperus chinensis - Columnar Chinese Juniper.....	88.18	
32 93 33 00-0802	EA	5	Juniperus chinensis - Columnar Chinese Juniper.....	138.57	
32 93 33 00-0803	EA	6	Juniperus chinensis - Columnar Chinese Juniper.....	161.24	
32 93 33 00-0804	EA	7	Juniperus chinensis - Columnar Chinese Juniper.....	211.63	
32 93 33 00-0805	EA	2	Gallon Chrysobalanus icaco - Cocoplum Red Tip.....	12.60	
32 93 33 00-0806	EA	3	Gallon Chrysobalanus icaco - Cocoplum Red Tip.....	17.64	
32 93 33 00-0807	EA	5	Gallon Chrysobalanus icaco - Cocoplum Red Tip.....	42.70	
32 93 33 00-0808	EA	2	Gallon Chrysobalanus icaco - Cocoplum Green Tip.....	12.60	
32 93 33 00-0809	EA	3	Gallon Chrysobalanus icaco - Cocoplum Green Tip.....	17.64	

32 93 43 Trees (32 93)

Note: (cvs = cultivar) materials only. See CSI section 32 93 83 00-0001 for installation and planting of trees.

32 93 43 00-0001 Deciduous Ornamental Trees (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0002	EA	6'	Clump Form Acer ginnala & cvs - Amur Maple.....	410.25	
32 93 43 00-0003	EA	7'	Clump Form Acer ginnala & cvs - Amur Maple.....	501.42	
32 93 43 00-0004	EA	8'	Clump Form Acer ginnala & cvs - Amur Maple.....	569.79	
32 93 43 00-0005	EA	10'	Clump Form Acer ginnala & cvs - Amur Maple.....	660.96	
32 93 43 00-0006	EA	12'	Clump Form Acer ginnala & cvs - Amur Maple.....	752.13	
32 93 43 00-0007	EA	14'	Clump Form Acer ginnala & cvs - Amur Maple.....	888.88	
32 93 43 00-0008	EA	1-1/2" To 2"	Caliper Acer griseum - Paperbark Maple.....	215.93	
32 93 43 00-0009	EA	2"	To 2-1/2" Caliper Acer griseum - Paperbark Maple.....	1,458.67	
32 93 43 00-0010	EA	2-1/2" To 3"	Caliper Acer griseum - Paperbark Maple.....	1,823.34	
32 93 43 00-0011	EA	5'	Clump Form Acer griseum - Paperbark Maple.....	364.67	
32 93 43 00-0012	EA	1-1/2"	Caliper Aesculus californica - California Buckeye.....	911.67	
32 93 43 00-0013	EA	2"	Caliper Aesculus californica - California Buckeye.....	1,185.17	
32 93 43 00-0014	EA	2-1/2"	Caliper Aesculus californica - California Buckeye.....	1,367.50	
32 93 43 00-0015	EA	3"	Caliper Aesculus californica - California Buckeye.....	1,549.84	
32 93 43 00-0016	EA	3-1/2"	Caliper Aesculus californica - California Buckeye.....	1,823.34	
32 93 43 00-0017	EA	36"	Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry.....	87.63	
32 93 43 00-0018	EA	48"	Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry.....	109.54	
32 93 43 00-0019	EA	60"	Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry.....	135.83	
32 93 43 00-0020	EA	60"	Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry.....	109.54	
32 93 43 00-0021	EA	72"	Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry.....	131.45	
32 93 43 00-0022	EA	7'	Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry.....	153.35	
32 93 43 00-0023	EA	8'	Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry.....	175.26	
32 93 43 00-0024	EA	5'	Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry.....	197.17	
32 93 43 00-0025	EA	6'	Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry.....	219.08	
32 93 43 00-0026	EA	7'	Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry.....	251.94	
32 93 43 00-0027	EA	8'	Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry.....	284.80	
32 93 43 00-0028	EA	9'	Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry.....	328.62	
32 93 43 00-0029	EA	7'	Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry.....	251.94	
32 93 43 00-0030	EA	8'	Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry.....	295.76	
32 93 43 00-0031	EA	9'	Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry.....	339.57	
32 93 43 00-0032	EA	10'	Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry.....	372.43	
32 93 43 00-0033	EA	30"	Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry.....	87.63	
32 93 43 00-0034	EA	48"	Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry.....	186.22	
32 93 43 00-0035	EA	60"	Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry.....	240.99	
32 93 43 00-0036	EA	2'	To 4' Amelemchier - Juneberry.....	26.67	
32 93 43 00-0037	EA	4'	To 5' Amelemchier - Juneberry.....	27.98	
32 93 43 00-0038	EA	5'	To 6' Amelemchier - Juneberry.....	33.32	
32 93 43 00-0039	EA	6'	To 8' Amelemchier - Juneberry.....	39.75	
32 93 43 00-0040	EA	6'	Cercis occidentalis - Western Redbud.....	255.29	
32 93 43 00-0041	EA	8'	Cercis occidentalis - Western Redbud.....	351.22	
32 93 43 00-0042	EA	2-1/2"	Caliper Cercis occidentalis - Western Redbud.....	723.41	
32 93 43 00-0043	EA	3"	Caliper Cercis occidentalis - Western Redbud.....	880.67	
32 93 43 00-0044	EA	2'	To 3' Magnolia Virginiana - Sweetbay Magnolia.....	86.39	
32 93 43 00-0045	EA	3'	To 4' Magnolia Virginiana - Sweetbay Magnolia.....	129.58	
32 93 43 00-0046	EA	4'	To 5' Magnolia Virginiana - Sweetbay Magnolia.....	161.98	
32 93 43 00-0047	EA	5'	To 6' Magnolia Virginiana - Sweetbay Magnolia.....	201.74	
32 93 43 00-0048	EA	4'	Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	341.88	
32 93 43 00-0049	EA	5'	Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	455.83	
32 93 43 00-0050	EA	6'	Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	592.59	
32 93 43 00-0051	EA	7'	Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	660.96	
32 93 43 00-0052	EA	8'	Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	797.71	
32 93 43 00-0053	EA	9'	Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	888.88	
32 93 43 00-0054	EA	4'	Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia.....	341.88	
32 93 43 00-0055	EA	5'	Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia.....	455.83	
32 93 43 00-0056	EA	6'	Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia.....	592.59	
32 93 43 00-0057	EA	7'	Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia.....	660.96	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 43 00-0058	EA	8' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	797.71	
32 93 43 00-0059	EA	9' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	888.88	
32 93 43 00-0060	EA	1 Gallon Platanus racemosa, Multi Trunk - Western Sycamore	5.16	
32 93 43 00-0061	EA	5 Gallon Platanus racemosa, Multi Trunk - Western Sycamore	21.84	
32 93 43 00-0062	EA	20 Gallon Prunus subhirtella - Flowering Cherry	360.51	
32 93 43 00-0063	EA	1-1/2" To 2" Caliper Prunus subhirtella - Flowering Cherry	372.66	
32 93 43 00-0064	EA	2" To 2-1/2" Caliper Prunus subhirtella - Flowering Cherry	465.78	
32 93 43 00-0065	EA	3-1/2" To 4" Caliper Prunus subhirtella - Flowering Cherry	972.04	
32 93 43 00-0066	EA	3" To 3-1/2" Caliper Prunus subhirtella - Flowering Cherry	749.17	
32 93 43 00-0067	EA	4" To 5" Caliper Prunus subhirtella - Flowering Cherry	1,458.06	
32 93 43 00-0068	EA	5 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	93.12	
32 93 43 00-0069	EA	15 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	255.06	
32 93 43 00-0070	EA	20 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	332.18	
32 93 43 00-0071	EA	5' To 6' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	105.26	
32 93 43 00-0072	EA	6' To 8' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	202.43	
32 93 43 00-0073	EA	1-1/2" To 2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	372.66	
32 93 43 00-0074	EA	2" To 2-1/2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	445.53	
32 93 43 00-0075	EA	1-1/2" To 1-3/4" Caliper Prunus subhirtella - Weeping Cherry	291.69	
32 93 43 00-0076	EA	1-1/4" To 1-1/2" Caliper Prunus subhirtella - Weeping Cherry	242.91	
32 93 43 00-0077	EA	1-3/4" To 2" Caliper Prunus subhirtella - Weeping Cherry	356.27	
32 93 43 00-0078	EA	2" To 2-1/2" Caliper Prunus subhirtella - Weeping Cherry	425.29	
32 93 43 00-0079	EA	2-1/2" To 3" Caliper Prunus subhirtella - Weeping Cherry	546.75	
32 93 43 00-0080	EA	15 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear	281.47	
32 93 43 00-0081	EA	20 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear	351.84	
32 93 43 00-0082	EA	1-1/2" To 2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	365.91	
32 93 43 00-0083	EA	2" To 2-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	436.28	
32 93 43 00-0084	EA	2-1/2" To 3" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	591.09	
32 93 43 00-0085	EA	3" To 3-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	774.05	
32 93 43 00-0086	EA	3-1/2" To 4" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	985.15	
32 93 43 00-0087	EA	15 Gallon Pyrus Calleryana x "Bradford" - Flowering Pear	281.47	
32 93 43 00-0088	EA	20 Gallon Pyrus Calleryana x "Bradford" - Flowering Pear	351.84	
32 93 43 00-0089	EA	1-1/2" To 2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	239.25	
32 93 43 00-0090	EA	2" To 2-1/2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	365.91	
32 93 43 00-0091	EA	2-1/2" To 3" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	435.90	
32 93 43 00-0092	EA	3" To 3-1/2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	591.09	
32 93 43 00-0093	EA	3-1/2" To 4" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	774.05	
32 93 43 00-0094	EA	1-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	512.71	
32 93 43 00-0095	EA	2" Caliper Pyrus calleryana & cvs - Callery Pear	640.89	
32 93 43 00-0096	EA	2-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	794.71	
32 93 43 00-0097	EA	3" Caliper Pyrus calleryana & cvs - Callery Pear	897.25	
32 93 43 00-0098	EA	3-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	999.79	
32 93 43 00-0099	EA	4" Caliper Pyrus calleryana & cvs - Callery Pear	1,281.78	
32 93 43 00-0100	EA	1 Gallon Ribes aureum - Golden Currant	4.51	
32 93 43 00-0101	EA	5 Gallon Ribes aureum - Golden Currant	12.91	
32 93 43 00-0102	EA	1 Gallon Ribes sanguineum - Red Flowering Currant	4.51	
32 93 43 00-0103	EA	5 Gallon Ribes sanguineum - Red Flowering Currant	12.91	
32 93 43 00-0104	EA	1 Gallon Ribes viburnifolium - Evergreen Currant	4.51	
32 93 43 00-0105	EA	5 Gallon Ribes viburnifolium - Evergreen Currant	12.91	
32 93 43 00-0106	EA	8' Cassia leptophylla - Gold Medallion Tree	362.19	
32 93 43 00-0107	EA	10' Cassia leptophylla - Gold Medallion Tree	459.71	
32 93 43 00-0108	EA	12' Cassia leptophylla - Gold Medallion Tree	557.22	
32 93 43 00-0109	EA	6' Magnolia grandiflora 'St. Mary's'	417.92	
32 93 43 00-0110	EA	8' Magnolia grandiflora 'St. Mary's'	738.32	
32 93 43 00-0111	EA	10' Magnolia grandiflora 'St. Mary's'	927.77	
32 93 43 00-0112	EA	12' Magnolia grandiflora 'St. Mary's'	1,114.44	
32 93 43 00-0113	EA	14' Magnolia grandiflora 'St. Mary's'	1,295.54	
32 93 43 00-0114	EA	16' Magnolia grandiflora 'St. Mary's'	1,532.36	
32 93 43 00-0115	EA	24" Box Magnolia grandiflora 'St. Mary's'	459.71	
32 93 43 00-0116	EA	6' Prunus cerasifera - Purple Leaf Plum	217.32	
32 93 43 00-0117	EA	8' Prunus cerasifera - Purple Leaf Plum	250.75	
32 93 43 00-0118	EA	10' Prunus cerasifera - Purple Leaf Plum	323.19	
32 93 43 00-0119	EA	24" Box Prunus cerasifera - Purple Leaf Plum	344.08	
32 93 43 00-0120	EA	30" Box Prunus cerasifera - Purple Leaf Plum	696.52	
32 93 43 00-0121	EA	36" Box Prunus cerasifera - Purple Leaf Plum	1,068.47	
32 93 43 00-0122	EA	6' Pittosporum phillyraeoides - Willow Pittosporum	454.13	
32 93 43 00-0123	EA	8' Pittosporum phillyraeoides - Willow Pittosporum	649.16	
32 93 43 00-0124	EA	10' Pittosporum phillyraeoides - Willow Pittosporum	777.32	
32 93 43 00-0125	EA	12' Pittosporum phillyraeoides - Willow Pittosporum	1,003.00	
32 93 43 00-0126	EA	6' Stenocarpus sinuatus - Firewheel Tree	668.66	
32 93 43 00-0127	EA	8' Stenocarpus sinuatus - Firewheel Tree	891.55	
32 93 43 00-0128	EA	10' Stenocarpus sinuatus - Firewheel Tree	1,114.44	
32 93 43 00-0129	EA	12' Stenocarpus sinuatus - Firewheel Tree	1,337.33	
32 93 43 00-0130	EA	24" Box Handroanthus impetiginosus (Tabebuia avellanedae) - Pink Trumpet Tree	319.26	
32 93 43 00-0131	EA	36" Box Handroanthus impetiginosus (Tabebuia avellanedae) - Pink Trumpet Tree	924.16	
32 93 43 00-0132	EA	1-1/2" Caliper Arbutus menziesii - Madrona	484.54	
32 93 43 00-0133	EA	2" Caliper Arbutus menziesii - Madrona	629.90	
32 93 43 00-0134	EA	2-1/2" Caliper Arbutus menziesii - Madrona	726.81	
32 93 43 00-0135	EA	3" Caliper Arbutus menziesii - Madrona	823.72	
32 93 43 00-0136	EA	3-1/2" Caliper Arbutus menziesii - Madrona	969.08	
32 93 43 00-0137	EA	1-1/2" Caliper Koelreuteria bipinnata - Chinese Flame Tree	334.33	
32 93 43 00-0138	EA	2" Caliper Koelreuteria bipinnata - Chinese Flame Tree	543.29	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0139	EA		2-1/2" Caliper Koelreuteria bipinnata - Chinese Flame Tree.....	668.66	
32 93 43 00-0140	EA		3" Caliper Koelreuteria bipinnata - Chinese Flame Tree.....	738.32	
32 93 43 00-0141	EA		24" Box Koelreuteria bipinnata - Chinese Flame Tree.....	325.97	
32 93 43 00-0142	EA		30" Box Koelreuteria bipinnata - Chinese Flame Tree.....	752.25	
32 93 43 00-0143	EA		36" Box Koelreuteria bipinnata - Chinese Flame Tree.....	1,177.13	
32 93 43 00-0144	EA		1-1/2" Cliber Koelreuteria paniculata - Golden Rain Tree.....	303.68	
32 93 43 00-0145	EA		2" Cliber Koelreuteria paniculata - Golden Rain Tree.....	493.14	
32 93 43 00-0146	EA		2-1/2" Cliber Koelreuteria paniculata - Golden Rain Tree.....	604.58	
32 93 43 00-0147	EA		3" Cliber Koelreuteria paniculata - Golden Rain Tree.....	682.59	
32 93 43 00-0148	EA		6' Magnolia grandiflora - Southern Magnolia.....	206.17	
32 93 43 00-0149	EA		7' Magnolia grandiflora - Southern Magnolia.....	312.04	
32 93 43 00-0150	EA		8' Magnolia grandiflora - Southern Magnolia.....	437.42	
32 93 43 00-0151	EA		9' Magnolia grandiflora - Southern Magnolia.....	582.29	
32 93 43 00-0152	EA		10' Magnolia grandiflora - Southern Magnolia.....	885.98	
32 93 43 00-0153	EA		24" Box Magnolia grandiflora - Southern Magnolia.....	362.19	
32 93 43 00-0154	EA		1-1/2" Caliper Tipuana tipu - Tipu Tree.....	431.85	
32 93 43 00-0155	EA		2" Caliper Tipuana tipu - Tipu Tree.....	562.79	
32 93 43 00-0156	EA		2-1/2" Caliper Tipuana tipu - Tipu Tree.....	713.24	
32 93 43 00-0157	EA		3" Caliper Tipuana tipu - Tipu Tree.....	821.90	
32 93 43 00-0158	EA		3-1/2" Caliper Tipuana tipu - Tipu Tree.....	1,209.17	
32 93 43 00-0159	EA		4" Caliper Tipuana tipu - Tipu Tree.....	1,615.94	
32 93 43 00-0160	EA		24" Box Tipuana tipu - Tipu Tree.....	325.97	
32 93 43 00-0161	EA		6' Albizia julibrissin - Silk Tree.....	668.66	
32 93 43 00-0162	EA		8' Albizia julibrissin - Silk Tree.....	891.55	
32 93 43 00-0163	EA		10' Albizia julibrissin - Silk Tree.....	1,114.44	
32 93 43 00-0164	EA		12' Albizia julibrissin - Silk Tree.....	1,337.33	
32 93 43 00-0165	EA		6' Brachychiton acerifolius - Flame Tree.....	668.66	
32 93 43 00-0166	EA		8' Brachychiton acerifolius - Flame Tree.....	891.55	
32 93 43 00-0167	EA		10' Brachychiton acerifolius - Flame Tree.....	1,114.44	
32 93 43 00-0168	EA		12' Brachychiton acerifolius - Flame Tree.....	1,337.33	
32 93 43 00-0169	EA		1-1/2" Caliper Chilopsis linearis - Desert Willow.....	540.50	
32 93 43 00-0170	EA		2" Caliper Chilopsis linearis - Desert Willow.....	649.16	
32 93 43 00-0171	EA		2-1/2" Caliper Chilopsis linearis - Desert Willow.....	690.95	
32 93 43 00-0172	EA		3" Caliper Chilopsis linearis - Desert Willow.....	766.18	
32 93 43 00-0173	EA		5 Gallon Chionanthus retusus - Chinese Fringe Tree.....	27.86	
32 93 43 00-0174	EA		15 Gallon Chionanthus retusus - Chinese Fringe Tree.....	111.44	
32 93 43 00-0175	EA		24" Box Chionanthus retusus - Chinese Fringe Tree.....	557.22	
32 93 43 00-0176	EA		5 Gallon Calodendrum capense - Cape Chestnut.....	41.79	
32 93 43 00-0177	EA		15 Gallon Calodendrum capense - Cape Chestnut.....	167.17	
32 93 43 00-0178	EA		24" Box Calodendrum capense - Cape Chestnut.....	626.87	
32 93 43 00-0179	EA		6' Chionanthus virginicus - White Fringe Tree.....	334.33	
32 93 43 00-0180	EA		8' Chionanthus virginicus - White Fringe Tree.....	733.89	
32 93 43 00-0181	EA		10' Chionanthus virginicus - White Fringe Tree.....	1,022.21	
32 93 43 00-0182	EA		15 Gallon Geijera parvifolia - Australian Willow.....	314.53	
32 93 43 00-0183	EA		24" Box Geijera parvifolia - Australian Willow.....	647.40	
32 93 43 00-0184	EA		30" Box Geijera parvifolia - Australian Willow.....	1,205.68	
32 93 43 00-0185	EA		36" Box Geijera parvifolia - Australian Willow.....	1,729.89	
32 93 43 00-0186	EA		1-1/2" Caliper Ginko Biloba - Maidenhair Tree.....	933.09	
32 93 43 00-0187	EA		2" Caliper Ginko Biloba - Maidenhair Tree.....	1,300.04	
32 93 43 00-0188	EA		2-1/2" Caliper Ginko Biloba - Maidenhair Tree.....	1,567.39	
32 93 43 00-0189	EA		3" Caliper Ginko Biloba - Maidenhair Tree.....	1,829.49	
32 93 43 00-0190	EA		3-1/2" Caliper Ginko Biloba - Maidenhair Tree.....	2,395.64	
32 93 43 00-0191	EA		4" Caliper Ginko Biloba - Maidenhair Tree.....	2,558.14	
32 93 43 00-0192	EA		4-1/2" Caliper Ginko Biloba - Maidenhair Tree.....	2,725.89	
32 93 43 00-0193	EA		24" Box Ginko Biloba - Maidenhair Tree.....	851.84	
32 93 43 00-0194	EA		15 Gallon Sapium sebiferum - Chinese Tallow Tree.....	314.53	
32 93 43 00-0195	EA		24" Box Sapium sebiferum - Chinese Tallow Tree.....	1,153.26	
32 93 43 00-0196	EA		4' To 5' Lagerstroemia indica - Crape Myrtle.....	335.49	
32 93 43 00-0197	EA		6' Lagerstroemia indica - Crape Myrtle.....	623.81	
32 93 43 00-0198	EA		8' Lagerstroemia indica - Crape Myrtle.....	644.78	
32 93 43 00-0199	EA		10' Lagerstroemia indica - Crape Myrtle.....	781.07	
32 93 43 00-0200	EA		24" Box Lagerstroemia indica - Crape Myrtle.....	613.33	
32 93 43 00-0201	EA		5 Gallon Celtis Sinensis - Chinese Hackberry.....	40.88	
32 93 43 00-0202	EA		15 Gallon Celtis Sinensis - Chinese Hackberry.....	107.78	
32 93 43 00-0203	EA		24" Box Celtis Sinensis - Chinese Hackberry.....	353.08	
32 93 43 00-0204	EA		36" Box Celtis Sinensis - Chinese Hackberry.....	1,031.36	
32 93 43 00-0205	EA		5 Gallon Crataegus phaenopyrum - Washington Hawthorn.....	40.88	
32 93 43 00-0206	EA		15 Gallon Crataegus phaenopyrum - Washington Hawthorn.....	107.78	
32 93 43 00-0207	EA		24" Box Crataegus phaenopyrum - Washington Hawthorn.....	353.08	
32 93 43 00-0208	EA		36" Box Crataegus phaenopyrum - Washington Hawthorn.....	1,031.36	
32 93 43 00-0209	EA		1 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	12.08	
32 93 43 00-0210	EA		5 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	33.45	
32 93 43 00-0211	EA		15 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	146.81	
32 93 43 00-0212	EA		24" Box Eucalyptus ficifolia - Red-Flowering Gum.....	353.08	
32 93 43 00-0213	EA		36" Box Eucalyptus ficifolia - Red-Flowering Gum.....	929.15	
32 93 43 00-0214	EA		15 Gallon Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	91.06	
32 93 43 00-0215	EA		24" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	297.33	
32 93 43 00-0216	EA		36" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	789.78	
32 93 43 00-0217	EA		48" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	1,765.38	
32 93 43 00-0218	EA		5 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	26.02	
32 93 43 00-0219	EA		15 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	91.06	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 43 00-0220	EA	24" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	297.33	
32 93 43 00-0221	EA	36" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	789.78	
32 93 43 00-0222	EA	48" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	1,765.38	
32 93 43 00-0223	EA	5 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	26.02	
32 93 43 00-0224	EA	15 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	109.64	
32 93 43 00-0225	EA	24" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	297.33	
32 93 43 00-0226	EA	36" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	836.24	
32 93 43 00-0227	EA	48" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum.....	2,137.04	
32 93 43 00-0228	EA	5 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	26.02	
32 93 43 00-0229	EA	15 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	109.64	
32 93 43 00-0230	EA	24" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	297.33	
32 93 43 00-0231	EA	36" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	836.24	
32 93 43 00-0232	EA	48" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	2,137.04	
32 93 43 00-0233	EA	5 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	26.02	
32 93 43 00-0234	EA	15 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	109.64	
32 93 43 00-0235	EA	24" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	297.33	
32 93 43 00-0236	EA	36" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	836.24	
32 93 43 00-0237	EA	48" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	2,137.04	
32 93 43 00-0238	EA	1 Gallon Pittosporum undulatum - Victorian Box.....	10.92	
32 93 43 00-0239	EA	5 Gallon Pittosporum undulatum - Victorian Box.....	23.52	
32 93 43 00-0240	EA	15 Gallon Pittosporum undulatum - Victorian Box.....	132.74	
32 93 43 00-0241	EA	24" Box Pittosporum undulatum - Victorian Box.....	319.26	
32 93 43 00-0242	EA	36" Box Pittosporum undulatum - Victorian Box.....	924.16	
32 93 43 00-0243	EA	48" Box Pittosporum undulatum - Victorian Box.....	2,100.38	
32 93 43 00-0244	EA	15 Gallon Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum.....	92.82	
32 93 43 00-0245	EA	24" Box Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum.....	334.40	

32 93 43 00-0246**Deciduous Shade Trees** (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0247	EA	3-1/2" To 4" Caliper Acer palmatum - Bloodgood Japanese Maple.....	184.75	
32 93 43 00-0248	EA	4" To 4-1/2" Caliper Acer palmatum - Bloodgood Japanese Maple.....	226.47	
32 93 43 00-0249	EA	4-1/2" To 5" Caliper Acer palmatum - Bloodgood Japanese Maple.....	295.01	
32 93 43 00-0250	EA	5" To 6" Caliper Acer palmatum - Bloodgood Japanese Maple.....	382.42	
32 93 43 00-0251	EA	2" To 2-1/2" Acer palmatum - Japanese Maple.....	19.49	
32 93 43 00-0252	EA	4" To 5" Acer palmatum - Japanese Maple.....	40.92	
32 93 43 00-0253	EA	5" To 6" Acer palmatum - Japanese Maple.....	53.59	
32 93 43 00-0254	EA	6" To 7" Acer palmatum - Japanese Maple.....	97.43	
32 93 43 00-0255	EA	7" To 8" Acer palmatum - Japanese Maple.....	136.41	
32 93 43 00-0256	EA	8" To 10" Acer palmatum - Japanese Maple.....	175.38	
32 93 43 00-0257	EA	10" To 12" Acer palmatum - Japanese Maple.....	233.84	
32 93 43 00-0258	EA	2" Caliper Acer platanoides & cvs - Norway Maple.....	99.33	
32 93 43 00-0259	EA	2" Caliper Acer platanoides & cvs - Norway Maple.....	120.92	
32 93 43 00-0260	EA	3" Caliper Acer platanoides & cvs - Norway Maple.....	155.47	
32 93 43 00-0261	EA	3-1/2" Caliper Acer platanoides & cvs - Norway Maple.....	181.39	
32 93 43 00-0262	EA	4" Caliper Acer platanoides & cvs - Norway Maple.....	194.34	
32 93 43 00-0263	EA	4-1/2" Caliper Acer platanoides & cvs - Norway Maple.....	211.62	
32 93 43 00-0264	EA	5" Caliper Acer platanoides & cvs - Norway Maple.....	237.53	
32 93 43 00-0265	EA	2" Caliper Acer rubrum & cvs - Red Maple.....	95.01	
32 93 43 00-0266	EA	2-1/2" Caliper Acer rubrum & cvs - Red Maple.....	120.92	
32 93 43 00-0267	EA	3" Caliper Acer rubrum & cvs - Red Maple.....	155.47	
32 93 43 00-0268	EA	3-1/2" Caliper Acer rubrum & cvs - Red Maple.....	190.02	
32 93 43 00-0269	EA	4" Caliper Acer rubrum & cvs - Red Maple.....	215.93	
32 93 43 00-0270	EA	4-1/2" Caliper Acer rubrum & cvs - Red Maple.....	250.48	
32 93 43 00-0271	EA	5" Caliper Acer rubrum & cvs - Red Maple.....	280.72	
32 93 43 00-0272	EA	8' Clump Form Acer rubrum & cvs - Red Maple.....	116.60	
32 93 43 00-0273	EA	10' Clump Form Acer rubrum & cvs - Red Maple.....	155.47	
32 93 43 00-0274	EA	12' Clump Form Acer rubrum & cvs - Red Maple.....	181.39	
32 93 43 00-0275	EA	14' Clump Form Acer rubrum & cvs - Red Maple.....	207.30	
32 93 43 00-0276	EA	16' Clump Form Acer rubrum & cvs - Red Maple.....	233.21	
32 93 43 00-0277	EA	18' Clump Form Acer rubrum & cvs - Red Maple.....	259.12	
32 93 43 00-0278	EA	2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	151.15	
32 93 43 00-0279	EA	2-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	168.43	
32 93 43 00-0280	EA	3" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	190.02	
32 93 43 00-0281	EA	3-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	215.93	
32 93 43 00-0282	EA	4" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	259.12	
32 93 43 00-0283	EA	2" Caliper Betula nigra - River Birch.....	107.97	
32 93 43 00-0284	EA	2-1/2" Caliper Betula nigra - River Birch.....	122.26	
32 93 43 00-0285	EA	3" Caliper Betula nigra - River Birch.....	138.20	
32 93 43 00-0286	EA	3-1/2" Caliper Betula nigra - River Birch.....	172.75	
32 93 43 00-0287	EA	4" Caliper Betula nigra - River Birch.....	194.34	
32 93 43 00-0288	EA	4-1/2" Caliper Betula nigra - River Birch.....	215.93	
32 93 43 00-0289	EA	5" Caliper Betula nigra - River Birch.....	237.53	
32 93 43 00-0290	EA	8' Clump Form Betula nigra - River Birch.....	99.33	
32 93 43 00-0291	EA	10' Clump Form Betula nigra - River Birch.....	112.29	
32 93 43 00-0292	EA	12' Clump Form Betula nigra - River Birch.....	129.56	
32 93 43 00-0293	EA	14' Clump Form Betula nigra - River Birch.....	151.15	
32 93 43 00-0294	EA	16' Clump Form Betula nigra - River Birch.....	172.75	
32 93 43 00-0295	EA	12' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	129.56	
32 93 43 00-0296	EA	14' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	155.47	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0297	EA		16' Clump Form Betula platyphylla japonica & cvs - Asian White Birch	181.39	
32 93 43 00-0298	EA		18' Clump Form Betula platyphylla japonica & cvs - Asian White Birch	215.93	
32 93 43 00-0299	EA		20' Clump Form Betula platyphylla japonica & cvs - Asian White Birch	224.57	
32 93 43 00-0300	EA		2" Caliper Carpinus betulus & cvs - European Hornbeam	172.75	
32 93 43 00-0301	EA		2-1/2" Caliper Carpinus betulus & cvs - European Hornbeam	194.34	
32 93 43 00-0302	EA		3" Caliper Carpinus betulus & cvs - European Hornbeam	224.57	
32 93 43 00-0303	EA		3-1/2" Caliper Carpinus betulus & cvs - European Hornbeam	272.08	
32 93 43 00-0304	EA		6' Clump Form Carpinus betulus & cvs - European Hornbeam	77.74	
32 93 43 00-0305	EA		7' Clump Form Carpinus betulus & cvs - European Hornbeam	107.97	
32 93 43 00-0306	EA		8' Clump Form Carpinus betulus & cvs - European Hornbeam	133.88	
32 93 43 00-0307	EA		2" Caliper Catalpa speciosa - Western Catalpa	95.01	
32 93 43 00-0308	EA		2-1/2" Caliper Catalpa speciosa - Western Catalpa	129.56	
32 93 43 00-0309	EA		3" Caliper Catalpa speciosa - Western Catalpa	168.43	
32 93 43 00-0310	EA		3-1/2" Caliper Catalpa speciosa - Western Catalpa	202.98	
32 93 43 00-0311	EA		4" Caliper Catalpa speciosa - Western Catalpa	233.21	
32 93 43 00-0312	EA		8' Clump Form Corylus cornuta californica - Western Filbert	120.92	
32 93 43 00-0313	EA		10' Clump Form Corylus cornuta californica - Western Filbert	146.84	
32 93 43 00-0314	EA		12' Clump Form Corylus cornuta californica - Western Filbert	172.75	
32 93 43 00-0315	EA		1-1/2" Caliper Diospyros - Persimmon	77.74	
32 93 43 00-0316	EA		2" Caliper Diospyros - Persimmon	95.01	
32 93 43 00-0317	EA		2-1/2" Caliper Diospyros - Persimmon	120.92	
32 93 43 00-0318	EA		3" Caliper Diospyros - Persimmon	151.15	
32 93 43 00-0319	EA		3-1/2" Caliper Diospyros - Persimmon	181.39	
32 93 43 00-0320	EA		2" Caliper Fagus sylvatica & cvs - European Beech	194.34	
32 93 43 00-0321	EA		2-1/2" Caliper Fagus sylvatica & cvs - European Beech	233.21	
32 93 43 00-0322	EA		3" Caliper Fagus sylvatica & cvs - European Beech	280.72	
32 93 43 00-0323	EA		3-1/2" Caliper Fagus sylvatica & cvs - European Beech	310.95	
32 93 43 00-0324	EA		4" Caliper Fagus sylvatica & cvs - European Beech	367.09	
32 93 43 00-0325	EA		4-1/2" Caliper Fagus sylvatica & cvs - European Beech	475.06	
32 93 43 00-0326	EA		5" Caliper Fagus sylvatica & cvs - European Beech	561.43	
32 93 43 00-0327	EA		2" Caliper Fraxinus americana & cvs - White Ash	107.97	
32 93 43 00-0328	EA		2-1/2" Caliper Fraxinus americana & cvs - White Ash	129.56	
32 93 43 00-0329	EA		3" Caliper Fraxinus americana & cvs - White Ash	164.11	
32 93 43 00-0330	EA		3-1/2" Caliper Fraxinus americana & cvs - White Ash	198.66	
32 93 43 00-0331	EA		4" Caliper Fraxinus americana & cvs - White Ash	233.21	
32 93 43 00-0332	EA		4-1/2" Caliper Fraxinus americana & cvs - White Ash	259.12	
32 93 43 00-0333	EA		5" Caliper Fraxinus americana & cvs - White Ash	302.31	
32 93 43 00-0334	EA		1-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	151.15	
32 93 43 00-0335	EA		2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	168.43	
32 93 43 00-0336	EA		2-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	190.02	
32 93 43 00-0337	EA		3" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	211.62	
32 93 43 00-0338	EA		3-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	237.53	
32 93 43 00-0339	EA		4" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	259.12	
32 93 43 00-0340	EA		4-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	388.68	
32 93 43 00-0341	EA		5" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	431.87	
32 93 43 00-0342	EA		2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	103.65	
32 93 43 00-0343	EA		2-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	129.56	
32 93 43 00-0344	EA		3" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	155.47	
32 93 43 00-0345	EA		3-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	181.39	
32 93 43 00-0346	EA		4" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	207.30	
32 93 43 00-0347	EA		4-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	233.21	
32 93 43 00-0348	EA		5" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	276.40	
32 93 43 00-0349	EA		10' - 12' Bursera Simaruba - Gumbo Limbo	54.63	
32 93 43 00-0350	EA		12' - 14' Bursera Simaruba - Gumbo Limbo	64.56	
32 93 43 00-0351	EA		14' - 16' Bursera Simaruba - Gumbo Limbo	89.40	
32 93 43 00-0352	EA		17' - 18' Bursera Simaruba - Gumbo Limbo	116.22	
32 93 43 00-0353	EA		19' - 20' Bursera Simaruba - Gumbo Limbo	129.13	
32 93 43 00-0354	EA		21' - 22' Bursera Simaruba - Gumbo Limbo	152.97	
32 93 43 00-0355	EA		1-1/2" Caliper Juglans californica - California Walnut	103.65	
32 93 43 00-0356	EA		2" Caliper Juglans californica - California Walnut	120.92	
32 93 43 00-0357	EA		2-1/2" Caliper Juglans californica - California Walnut	151.15	
32 93 43 00-0358	EA		3" Caliper Juglans californica - California Walnut	190.02	
32 93 43 00-0359	EA		3-1/2" Caliper Juglans californica - California Walnut	233.21	
32 93 43 00-0360	EA		4" Caliper Juglans californica - California Walnut	280.72	
32 93 43 00-0361	EA		4-1/2" Caliper Juglans californica - California Walnut	323.90	
32 93 43 00-0362	EA		5" Caliper Juglans californica - California Walnut	367.09	
32 93 43 00-0363	EA		5 Gallon Koelreuteria Paniculata - Goldenrain Tree	11.69	
32 93 43 00-0364	EA		15 Gallon Koelreuteria Paniculata - Goldenrain Tree	29.23	
32 93 43 00-0365	EA		20 Gallon Koelreuteria Paniculata - Goldenrain Tree	58.46	
32 93 43 00-0366	EA		55 Gallon Koelreuteria Paniculata - Goldenrain Tree	76.00	
32 93 43 00-0367	EA		1-1/2" To 2" Caliper Koelreuteria Paniculata - Goldenrain Tree	55.54	
32 93 43 00-0368	EA		2" To 2-1/2" Caliper Koelreuteria Paniculata - Goldenrain Tree	67.23	
32 93 43 00-0369	EA		2-1/2" To 3" Caliper Koelreuteria Paniculata - Goldenrain Tree	93.54	
32 93 43 00-0370	EA		1-1/2" Caliper Liquidambar styraciflua - American Sweetgum	138.20	
32 93 43 00-0371	EA		2" Caliper Liquidambar styraciflua - American Sweetgum	172.75	
32 93 43 00-0372	EA		2-1/2" Caliper Liquidambar styraciflua - American Sweetgum	215.93	
32 93 43 00-0373	EA		3" Caliper Liquidambar styraciflua - American Sweetgum	259.12	
32 93 43 00-0374	EA		3-1/2" Caliper Liquidambar styraciflua - American Sweetgum	302.31	
32 93 43 00-0375	EA		1-1/2" Caliper Liriodendron tulipifera - Tulip Tree	138.20	
32 93 43 00-0376	EA		2" Caliper Liriodendron tulipifera - Tulip Tree	190.02	
32 93 43 00-0377	EA		2-1/2" Caliper Liriodendron tulipifera - Tulip Tree	224.57	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
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32 93 43 00-0378	EA	3" Caliper Liriodendron tulipifera - Tulip Tree.....	259.12	
32 93 43 00-0379	EA	3-1/2" Caliper Liriodendron tulipifera - Tulip Tree.....	293.67	
32 93 43 00-0380	EA	8' Clump Form Liriodendron tulipifera - Tulip Tree.....	103.65	
32 93 43 00-0381	EA	10' Clump Form Liriodendron tulipifera - Tulip Tree.....	185.70	
32 93 43 00-0382	EA	12' Clump Form Liriodendron tulipifera - Tulip Tree.....	224.57	
32 93 43 00-0383	EA	1-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum.....	138.20	
32 93 43 00-0384	EA	2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum.....	172.75	
32 93 43 00-0385	EA	2-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum.....	215.93	
32 93 43 00-0386	EA	3" Caliper Nyssa sylvatica - Black Tupelo Sour Gum.....	259.12	
32 93 43 00-0387	EA	3-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum.....	302.31	
32 93 43 00-0388	EA	4' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	60.46	
32 93 43 00-0389	EA	5' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	69.10	
32 93 43 00-0390	EA	6' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	82.06	
32 93 43 00-0391	EA	7' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	103.65	
32 93 43 00-0392	EA	8' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	129.56	
32 93 43 00-0393	EA	30" Box Platanus Occidentalis - Buttonwood Sycamore.....	187.63	
32 93 43 00-0394	EA	36" Box Platanus Occidentalis - Buttonwood Sycamore.....	272.91	
32 93 43 00-0395	EA	42" Box Platanus occidentalis - Buttonwood Sycamore.....	405.97	
32 93 43 00-0396	EA	1-1/2" To 2" Caliper Platanus occidentalis - Buttonwood Sycamore.....	62.78	
32 93 43 00-0397	EA	2" To 2-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore.....	75.06	
32 93 43 00-0398	EA	2-1/2" To 3" Caliper Platanus occidentalis - Buttonwood Sycamore.....	102.34	
32 93 43 00-0399	EA	3" To 3-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore.....	124.20	
32 93 43 00-0400	EA	8' To 10' Platanus occidentalis - Green Or Silver Buttonwood.....	51.65	
32 93 43 00-0401	EA	10' To 12' Platanus occidentalis - Green Or Silver Buttonwood.....	64.56	
32 93 43 00-0402	EA	12' To 14' Platanus occidentalis - Green Or Silver Buttonwood.....	114.23	
32 93 43 00-0403	EA	16' To 18' Platanus occidentalis - Green Or Silver Buttonwood.....	163.89	
32 93 43 00-0404	EA	2" Caliper Platanus x acerifolia & cvs - London Planetree.....	103.65	
32 93 43 00-0405	EA	2-1/2" Caliper Platanus x acerifolia & cvs - London Planetree.....	125.24	
32 93 43 00-0406	EA	3" Caliper Platanus x acerifolia & cvs - London Planetree.....	151.15	
32 93 43 00-0407	EA	3-1/2" Caliper Platanus x acerifolia & cvs - London Planetree.....	181.39	
32 93 43 00-0408	EA	4" Caliper Platanus x acerifolia & cvs - London Planetree.....	215.93	
32 93 43 00-0409	EA	2" Caliper Populus alba & cvs - White Poplar.....	103.65	
32 93 43 00-0410	EA	2-1/2" Caliper Populus alba & cvs - White Poplar.....	120.92	
32 93 43 00-0411	EA	3" Caliper Populus alba & cvs - White Poplar.....	138.20	
32 93 43 00-0412	EA	3-1/2" Caliper Populus alba & cvs - White Poplar.....	164.11	
32 93 43 00-0413	EA	4" Caliper Populus alba & cvs - White Poplar.....	181.39	
32 93 43 00-0414	EA	4-1/2" Caliper Populus alba & cvs - White Poplar.....	207.30	
32 93 43 00-0415	EA	2" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	95.01	
32 93 43 00-0416	EA	2-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	125.24	
32 93 43 00-0417	EA	3" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	151.15	
32 93 43 00-0418	EA	3-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	181.39	
32 93 43 00-0419	EA	4" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	215.93	
32 93 43 00-0420	EA	2" Caliper Quercus palustris - Pin Oak.....	95.01	
32 93 43 00-0421	EA	2-1/2" Caliper Quercus palustris - Pin Oak.....	129.56	
32 93 43 00-0422	EA	3" Caliper Quercus palustris - Pin Oak.....	168.43	
32 93 43 00-0423	EA	3-1/2" Caliper Quercus palustris - Pin Oak.....	194.34	
32 93 43 00-0424	EA	4" Caliper Quercus palustris - Pin Oak.....	224.57	
32 93 43 00-0425	EA	4-1/2" Caliper Quercus palustris - Pin Oak.....	254.80	
32 93 43 00-0426	EA	5" Caliper Quercus palustris - Pin Oak.....	280.72	
32 93 43 00-0427	EA	2" Caliper Quercus shumardii - Shumard Oak.....	146.84	
32 93 43 00-0428	EA	2-1/2" Caliper Quercus shumardii - Shumard Oak.....	185.70	
32 93 43 00-0429	EA	3" Caliper Quercus shumardii - Shumard Oak.....	215.93	
32 93 43 00-0430	EA	3-1/2" Caliper Quercus shumardii - Shumard Oak.....	259.12	
32 93 43 00-0431	EA	4" Caliper Quercus shumardii - Shumard Oak.....	302.31	
32 93 43 00-0432	EA	4-1/2" Caliper Quercus shumardii - Shumard Oak.....	345.50	
32 93 43 00-0433	EA	5" Caliper Quercus shumardii - Shumard Oak.....	388.68	
32 93 43 00-0434	EA	24" Box Salix babylonica - Weeping Willow.....	109.16	
32 93 43 00-0435	EA	36" Box Salix babylonica - Weeping Willow.....	272.91	
32 93 43 00-0436	EA	1-1/2" To 2" Caliper Salix babylonica - Weeping Willow.....	62.78	
32 93 43 00-0437	EA	2" To 2-1/2" Caliper Salix babylonica - Weeping Willow.....	75.06	
32 93 43 00-0438	EA	2-1/2" To 3" Caliper Salix babylonica - Weeping Willow.....	81.88	
32 93 43 00-0439	EA	2' Thuja occidentalis - American Arborvitae.....	14.80	
32 93 43 00-0440	EA	2-1/2' Thuja occidentalis - American Arborvitae.....	15.99	
32 93 43 00-0441	EA	3' Thuja occidentalis - American Arborvitae.....	22.85	
32 93 43 00-0442	EA	4' Thuja occidentalis - American Arborvitae.....	31.39	
32 93 43 00-0443	EA	5' Thuja occidentalis - American Arborvitae.....	43.71	
32 93 43 00-0444	EA	6' Thuja occidentalis - American Arborvitae.....	60.59	
32 93 43 00-0445	EA	7' Thuja occidentalis - American Arborvitae.....	73.50	
32 93 43 00-0446	EA	8' Thuja occidentalis - American Arborvitae.....	103.30	
32 93 43 00-0447	EA	2" Caliper Tilia cordata & cvs - Littleleaf Linden.....	108.62	
32 93 43 00-0448	EA	2-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden.....	131.20	
32 93 43 00-0449	EA	3" Caliper Tilia cordata & cvs - Littleleaf Linden.....	151.15	
32 93 43 00-0450	EA	3-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden.....	185.70	
32 93 43 00-0451	EA	4" Caliper Tilia cordata & cvs - Littleleaf Linden.....	211.62	
32 93 43 00-0452	EA	4-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden.....	237.53	
32 93 43 00-0453	EA	5" Caliper Tilia cordata & cvs - Littleleaf Linden.....	263.44	
32 93 43 00-0454	EA	2" Caliper Ulmus x `Homestead' - Homestead Hybrid Elm.....	120.92	
32 93 43 00-0455	EA	2-1/2" Caliper Ulmus x `Homestead' - Homestead Hybrid Elm.....	138.20	
32 93 43 00-0456	EA	3" Caliper Ulmus x `Homestead' - Homestead Hybrid Elm.....	151.15	
32 93 43 00-0457	EA	3-1/2" Caliper Ulmus x `Homestead' - Homestead Hybrid Elm.....	164.11	
32 93 43 00-0458	EA	4" Caliper Ulmus x `Homestead' - Homestead Hybrid Elm.....	181.39	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0459	EA		4-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm.....	215.93	
32 93 43 00-0460	EA		5" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm.....	254.80	
32 93 43 00-0461	EA		2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	138.20	
32 93 43 00-0462	EA		2-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	151.15	
32 93 43 00-0463	EA		3" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	164.11	
32 93 43 00-0464	EA		3-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	181.39	
32 93 43 00-0465	EA		4" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	215.93	
32 93 43 00-0466	EA		4-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	254.80	
32 93 43 00-0467	EA		5" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	293.67	
32 93 43 00-0468	EA		2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	138.20	
32 93 43 00-0469	EA		2-1/2" Mary-Louise Parker Ulmus x 'Regal' - Regal Hybrid Elm.....	151.15	
32 93 43 00-0470	EA		3" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	164.11	
32 93 43 00-0471	EA		3-1/2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	181.39	
32 93 43 00-0472	EA		4" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	215.93	
32 93 43 00-0473	EA		4-1/2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	254.80	
32 93 43 00-0474	EA		5" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	293.67	
32 93 43 00-0475	EA		1-1/2" To 2" Caliper Platanus acerifolia "Bloodgold" - London Plane.....	487.52	
32 93 43 00-0476	EA		2" To 2-1/2" Caliper Platanus acerifolia "Bloodgold" - London Plane.....	870.19	
32 93 43 00-0477	EA		2-1/2" To 3" Caliper Platanus acerifolia "Bloodgold" - London Plane.....	1,273.83	
32 93 43 00-0478	EA		3" To 3-1/2" Caliper Platanus acerifolia "Bloodgold" - London Plane.....	1,583.11	
32 93 43 00-0479	EA		3-1/2" To 4" Caliper Platanus acerifolia "Bloodgold" - London Plane.....	2,049.66	
32 93 43 00-0480	EA		4" To 5" Caliper Platanus acerifolia "Bloodgold" - London Plane.....	2,332.73	
32 93 43 00-0481	EA		24" Box Platanus acerifolia "Bloodgold" - London Plane.....	613.33	
32 93 43 00-0482	EA		1-1/2" Caliper Quercus suber - Cork Oak.....	733.89	
32 93 43 00-0483	EA		2" Caliper Quercus suber - Cork Oak.....	1,016.97	
32 93 43 00-0484	EA		2-1/2" Caliper Quercus suber - Cork Oak.....	1,300.04	
32 93 43 00-0485	EA		3" Caliper Quercus suber - Cork Oak.....	1,625.05	
32 93 43 00-0486	EA		3-1/2" Caliper Quercus suber - Cork Oak.....	2,437.58	
32 93 43 00-0487	EA		4" Caliper Quercus suber - Cork Oak.....	3,145.26	
32 93 43 00-0488	EA		4-1/2" Caliper Quercus suber - Cork Oak.....	4,088.84	
32 93 43 00-0489	EA		1-1/2" Caliper Quercus ilex - Holly Oak.....	812.53	
32 93 43 00-0490	EA		2" Caliper Quercus ilex - Holly Oak.....	1,095.60	
32 93 43 00-0491	EA		2-1/2" Caliper Quercus ilex - Holly Oak.....	1,341.98	
32 93 43 00-0492	EA		3" Caliper Quercus ilex - Holly Oak.....	1,625.05	
32 93 43 00-0493	EA		3-1/2" Caliper Quercus ilex - Holly Oak.....	2,437.58	
32 93 43 00-0494	EA		4" Caliper Quercus ilex - Holly Oak.....	3,145.26	

32 93 43 00-0495

Evergreen Trees (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0496	EA		2' To 3' Cedrus atlantica - Blue Atlas Cedar.....	17.58	
32 93 43 00-0497	EA		3' To 4' Cedrus atlantica - Blue Atlas Cedar.....	28.26	
32 93 43 00-0498	EA		4' To 5' Cedrus atlantica - Blue Atlas Cedar.....	41.99	
32 93 43 00-0499	EA		5' To 6' Cedrus atlantica - Blue Atlas Cedar.....	56.49	
32 93 43 00-0500	EA		7' To 8' Cedrus atlantica - Blue Atlas Cedar.....	80.20	
32 93 43 00-0501	EA		6' To 8' Cedrus deodara - Indian Cedar.....	72.57	
32 93 43 00-0502	EA		8' To 10' Cedrus deodara - Indian Cedar.....	84.02	
32 93 43 00-0503	EA		10' To 12' Cedrus deodara - Indian Cedar.....	114.56	
32 93 43 00-0504	EA		12' To 14' Cedrus deodara - Indian Cedar.....	148.92	
32 93 43 00-0505	EA		14' To 16' Cedrus deodara - Indian Cedar.....	190.94	
32 93 43 00-0506	EA		15" To 18" Chamaecyparis obtusa - Compact Hinoki Cypress.....	22.68	
32 93 43 00-0507	EA		18" To 24" Chamaecyparis obtusa - Compact Hinoki Cypress.....	34.03	
32 93 43 00-0508	EA		2' To 3' Chamaecyparis obtusa - Compact Hinoki Cypress.....	52.93	
32 93 43 00-0509	EA		3' To 4' Chamaecyparis obtusa - Compact Hinoki Cypress.....	90.74	
32 93 43 00-0510	EA		5 Gallon Cupressocyparis leylandii - Leyland Cypress.....	12.48	
32 93 43 00-0511	EA		15 Gallon Cupressocyparis leylandii - Leyland Cypress.....	49.92	
32 93 43 00-0512	EA		4' To 5' Cupressocyparis leylandii - Leyland Cypress.....	21.84	
32 93 43 00-0513	EA		5' To 6' Cupressocyparis leylandii - Leyland Cypress.....	28.08	
32 93 43 00-0514	EA		6' To 7' Cupressocyparis leylandii - Leyland Cypress.....	43.68	
32 93 43 00-0515	EA		24" Box Cupressocyparis leylandii - Leyland Cypress.....	106.08	
32 93 43 00-0516	EA		1 Gallon Cupressus macrocarpa - Monterey Cypress.....	2.28	
32 93 43 00-0517	EA		5 Gallon Cupressus macrocarpa - Monterey Cypress.....	10.24	
32 93 43 00-0518	EA		15 Gallon Cupressus macrocarpa - Monterey Cypress.....	34.14	
32 93 43 00-0519	EA		5 Gallon Cupressus sempervirens - Italian Cypress.....	11.75	
32 93 43 00-0520	EA		15 Gallon Cupressus sempervirens - Italian Cypress.....	32.30	
32 93 43 00-0521	EA		1 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper.....	3.45	
32 93 43 00-0522	EA		2 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper.....	6.75	
32 93 43 00-0523	EA		3 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper.....	8.37	
32 93 43 00-0524	EA		5 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper.....	9.84	
32 93 43 00-0525	EA		1 Gallon Juniperus - Blue Sargent Juniper.....	3.45	
32 93 43 00-0526	EA		2 Gallon Juniperus - Blue Sargent Juniper.....	6.75	
32 93 43 00-0527	EA		3 Gallon Juniperus - Blue Sargent Juniper.....	8.37	
32 93 43 00-0528	EA		5 Gallon Juniperus - Blue Sargent Juniper.....	9.84	
32 93 43 00-0529	EA		5 Gallon Juniperus - Compact Pfitzer Juniper.....	9.84	
32 93 43 00-0530	EA		15" To 18" Juniperus - Compact Pfitzer Juniper.....	10.64	
32 93 43 00-0531	EA		18" To 24" Juniperus - Compact Pfitzer Juniper.....	12.85	
32 93 43 00-0532	EA		2' To 2 1/2' Juniperus - Compact Pfitzer Juniper.....	19.09	
32 93 43 00-0533	EA		2-1/2' To 3' Juniperus - Compact Pfitzer Juniper.....	22.10	
32 93 43 00-0534	EA		5' To 6' Juniperus - Fairview Juniper.....	32.91	
32 93 43 00-0535	EA		1 Gallon Juniperus - Hollywood Juniper.....	4.40	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
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32 93 43 00-0536	EA	5 Gallon Juniperus - Hollywood Juniper.....	12.26	
32 93 43 00-0537	EA	15 Gallon Juniperus - Hollywood Juniper.....	51.98	
32 93 43 00-0538	EA	4' To 5' Juniperus - Hollywood Juniper.....	34.36	
32 93 43 00-0539	EA	5' To 6' Juniperus - Hollywood Juniper.....	44.27	
32 93 43 00-0540	EA	1 Gallon Juniperus - Parson's Juniper.....	3.45	
32 93 43 00-0541	EA	2 Gallon Juniperus - Parson's Juniper.....	6.83	
32 93 43 00-0542	EA	3 Gallon Juniperus - Parson's Juniper.....	8.44	
32 93 43 00-0543	EA	5 Gallon Juniperus - Parson's Juniper.....	9.98	
32 93 43 00-0544	EA	5 Gallon Juniperus - Skyrocket Juniper.....	12.33	
32 93 43 00-0545	EA	15 Gallon Juniperus - Skyrocket Juniper.....	52.49	
32 93 43 00-0546	EA	2' To 3' Juniperus - Skyrocket Juniper.....	18.50	
32 93 43 00-0547	EA	3' To 4' Juniperus - Skyrocket Juniper.....	26.21	
32 93 43 00-0548	EA	4' To 5' Juniperus - Skyrocket Juniper.....	34.72	
32 93 43 00-0549	EA	5' To 6' Juniperus - Skyrocket Juniper.....	44.78	
32 93 43 00-0550	EA	6' To 8' Juniperus - Skyrocket Juniper.....	57.85	
32 93 43 00-0551	EA	1 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper.....	3.45	
32 93 43 00-0552	EA	2 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper.....	6.79	
32 93 43 00-0553	EA	3 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper.....	8.33	
32 93 43 00-0554	EA	5 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper.....	9.87	
32 93 43 00-0555	EA	1 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper.....	3.45	
32 93 43 00-0556	EA	2 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper.....	6.79	
32 93 43 00-0557	EA	3 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper.....	8.33	
32 93 43 00-0558	EA	5 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper.....	9.87	
32 93 43 00-0559	EA	3' Pinus sylvestris - Scotch Pine.....	32.07	
32 93 43 00-0560	EA	4' Pinus sylvestris - Scotch Pine.....	44.51	
32 93 43 00-0561	EA	5' Pinus sylvestris - Scotch Pine.....	62.48	
32 93 43 00-0562	EA	6' Pinus sylvestris - Scotch Pine.....	86.68	
32 93 43 00-0563	EA	7' Pinus sylvestris - Scotch Pine.....	106.21	
32 93 43 00-0564	EA	8' Pinus sylvestris - Scotch Pine.....	149.94	
32 93 43 00-0565	EA	9' Pinus sylvestris - Scotch Pine.....	190.35	
32 93 43 00-0566	EA	10' Pinus sylvestris - Scotch Pine.....	219.64	
32 93 43 00-0567	EA	12' Pinus sylvestris - Scotch Pine.....	258.69	
32 93 43 00-0568	EA	14' Pinus sylvestris - Scotch Pine.....	292.85	
32 93 43 00-0569	EA	16' Pinus sylvestris - Scotch Pine.....	341.66	
32 93 43 00-0570	EA	1 Gallon Pinus thunbergiana - Japanese Black Pine.....	3.45	
32 93 43 00-0571	EA	5 Gallon Pinus thunbergiana - Japanese Black Pine.....	12.26	
32 93 43 00-0572	EA	15 Gallon Pinus thunbergiana - Japanese Black Pine.....	39.72	
32 93 43 00-0573	EA	2' To 3' Pinus thunbergiana - Japanese Black Pine.....	16.81	
32 93 43 00-0574	EA	3' To 4' Pinus thunbergiana - Japanese Black Pine.....	21.36	
32 93 43 00-0575	EA	4' To 5' Pinus thunbergiana - Japanese Black Pine.....	32.08	
32 93 43 00-0576	EA	5' To 6' Pinus thunbergiana - Japanese Black Pine.....	62.62	
32 93 43 00-0577	EA	6' To 7' Pinus Thunbergiana - Japanese Black Pine.....	70.25	
32 93 43 00-0578	EA	7' To 8' Pinus thunbergiana - Japanese Black Pine.....	87.80	
32 93 43 00-0579	EA	6' Pinus flexilis & cvs - Limber Pine.....	122.02	
32 93 43 00-0580	EA	7' Pinus flexilis & cvs - Limber Pine.....	141.55	
32 93 43 00-0581	EA	8' Pinus flexilis & cvs - Limber Pine.....	175.71	
32 93 43 00-0582	EA	9' Pinus flexilis & cvs - Limber Pine.....	214.76	
32 93 43 00-0583	EA	10' Pinus flexilis & cvs - Limber Pine.....	244.04	
32 93 43 00-0584	EA	1 Gallon Pinus mugo - Mugho Pine.....	4.55	
32 93 43 00-0585	EA	2 Gallon Pinus mugo - Mugho Pine.....	9.62	
32 93 43 00-0586	EA	3 Gallon Pinus mugo - Mugho Pine.....	12.04	
32 93 43 00-0587	EA	5 Gallon Pinus mugo - Mugho Pine.....	15.27	
32 93 43 00-0588	EA	12' To 15" Spread Pinus mugo - Mugho Pine.....	11.82	
32 93 43 00-0589	EA	15" To 18" Spread Pinus mugo - Mugho Pine.....	14.09	
32 93 43 00-0590	EA	18" To 24" Spread Pinus mugo - Mugho Pine.....	19.09	
32 93 43 00-0591	EA	2' To 2-1/2' Spread Pinus mugo - Mugho Pine.....	26.72	
32 93 43 00-0592	EA	2-1/2' To 3' Spread Pinus mugo - Mugho Pine.....	34.36	
32 93 43 00-0593	EA	3' To 3-1/2' Spread Pinus mugo - Mugho Pine.....	42.80	
32 93 43 00-0594	EA	3-1/2' To 4' Spread Pinus mugo - Mugho Pine.....	51.98	
32 93 43 00-0595	EA	6' Pinus nigra - Austrian Pine.....	122.02	
32 93 43 00-0596	EA	7' Pinus nigra - Austrian Pine.....	146.43	
32 93 43 00-0597	EA	8' Pinus nigra - Austrian Pine.....	190.35	
32 93 43 00-0598	EA	9' Pinus nigra - Austrian Pine.....	219.64	
32 93 43 00-0599	EA	10' Pinus nigra - Austrian Pine.....	258.69	
32 93 43 00-0600	EA	12' Pinus nigra - Austrian Pine.....	292.85	
32 93 43 00-0601	EA	14' Pinus nigra - Austrian Pine.....	327.02	
32 93 43 00-0602	EA	16' Pinus nigra - Austrian Pine.....	370.95	
32 93 43 00-0603	EA	1 Gallon Podocarpus - Chinese Podocarpus.....	2.28	
32 93 43 00-0604	EA	3 Gallon Podocarpus - Chinese Podocarpus.....	5.29	
32 93 43 00-0605	EA	7 Gallon Podocarpus - Chinese Podocarpus.....	15.27	
32 93 43 00-0606	EA	15 Gallon Podocarpus - Chinese Podocarpus.....	24.81	
32 93 43 00-0607	EA	4' To 5' Podocarpus - Chinese Podocarpus.....	38.17	
32 93 43 00-0608	EA	5' To 6' Sequoia sempervirens - Dawn Redwood.....	47.72	
32 93 43 00-0609	EA	6' To 8' Sequoia sempervirens - Dawn Redwood.....	64.42	
32 93 43 00-0610	EA	8' To 10' Sequoia sempervirens - Dawn Redwood.....	78.73	
32 93 43 00-0611	EA	3' To 4' Thuja occidentalis 'Wareana' - Siberian Arborvitae.....	9.20	
32 93 43 00-0612	EA	3' To 4' Thuja occidentalis 'Woodwardii' - Woodward Arborvitae.....	20.65	
32 93 43 00-0613	EA	6' Cedrus decurrens - Incese Cedar.....	81.95	
32 93 43 00-0614	EA	8' Cedrus decurrens - Incese Cedar.....	169.51	
32 93 43 00-0615	EA	10' Cedrus decurrens - Incese Cedar.....	224.52	
32 93 43 00-0616	EA	12' Cedrus decurrens - Incese Cedar.....	297.49	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0617	EA	6'	Melaleuca linariifolia - Flaxleaf Paperbark.....	235.75	
32 93 43 00-0618	EA	8'	Melaleuca linariifolia - Flaxleaf Paperbark.....	314.33	
32 93 43 00-0619	EA	10'	Melaleuca linariifolia - Flaxleaf Paperbark.....	392.91	
32 93 43 00-0620	EA	12'	Melaleuca linariifolia - Flaxleaf Paperbark.....	471.49	
32 93 43 00-0621	EA	24"	Box Melaleuca linariifolia - Flaxleaf Paperbark.....	233.50	
32 93 43 00-0622	EA	6'	Melaleuca quinquenervia - Cajeput Tree.....	235.75	
32 93 43 00-0623	EA	8'	Melaleuca quinquenervia - Cajeput Tree.....	314.33	
32 93 43 00-0624	EA	10'	Melaleuca quinquenervia - Cajeput Tree.....	392.91	
32 93 43 00-0625	EA	12'	Melaleuca quinquenervia - Cajeput Tree.....	471.49	
32 93 43 00-0626	EA	24"	Box Melaleuca quinquenervia - Cajeput Tree.....	131.34	
32 93 43 00-0627	EA	30"	Box Melaleuca quinquenervia - Cajeput Tree.....	331.17	
32 93 43 00-0628	EA	36"	Box Melaleuca quinquenervia - Cajeput Tree.....	522.01	
32 93 43 00-0629	EA	4'	Metrosideros excelsus - New Zealand Christmas Tree.....	69.60	
32 93 43 00-0630	EA	5'	Metrosideros excelsus - New Zealand Christmas Tree.....	94.30	
32 93 43 00-0631	EA	6'	Metrosideros excelsus - New Zealand Christmas Tree.....	160.53	
32 93 43 00-0632	EA	8'	Metrosideros excelsus - New Zealand Christmas Tree.....	198.70	
32 93 43 00-0633	EA	24"	Box Metrosideros excelsus - New Zealand Christmas Tree.....	143.04	
32 93 43 00-0634	EA	6'	Pinus canariensis - Canary Island Pine.....	269.42	
32 93 43 00-0635	EA	8'	Pinus canariensis - Canary Island Pine.....	359.23	
32 93 43 00-0636	EA	10'	Pinus canariensis - Canary Island Pine.....	449.04	
32 93 43 00-0637	EA	12'	Pinus canariensis - Canary Island Pine.....	538.85	
32 93 43 00-0638	EA	24"	Box Pinus canariensis - Canary Island Pine.....	277.28	
32 93 43 00-0639	EA	6'	Pinus pinea - Italian Stone Pine.....	269.42	
32 93 43 00-0640	EA	8'	Pinus pinea - Italian Stone Pine.....	359.23	
32 93 43 00-0641	EA	10'	Pinus pinea - Italian Stone Pine.....	449.04	
32 93 43 00-0642	EA	12'	Pinus pinea - Italian Stone Pine.....	538.85	
32 93 43 00-0643	EA	6'	Pittosporum undulatum - Victorian Box.....	148.18	
32 93 43 00-0644	EA	8'	Pittosporum undulatum - Victorian Box.....	234.62	
32 93 43 00-0645	EA	10'	Pittosporum undulatum - Victorian Box.....	308.72	
32 93 43 00-0646	EA	6'	Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	280.65	
32 93 43 00-0647	EA	8'	Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	370.46	
32 93 43 00-0648	EA	10'	Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	471.49	
32 93 43 00-0649	EA	12'	Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	561.30	
32 93 43 00-0650	EA	24"	Box Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	131.34	
32 93 43 00-0651	EA	1	Gallon Podocarpus macrophyllus - Yew Pine.....	5.22	
32 93 43 00-0652	EA	3	Gallon Podocarpus macrophyllus - Yew Pine.....	12.24	
32 93 43 00-0653	EA	5	Gallon Podocarpus macrophyllus - Yew Pine.....	16.05	
32 93 43 00-0654	EA	15	Gallon Podocarpus macrophyllus - Yew Pine.....	69.60	
32 93 43 00-0655	EA	24"	Box Podocarpus macrophyllus - Yew Pine.....	134.71	
32 93 43 00-0656	EA	24"	Box Rhus lancea - African Sumac.....	138.64	
32 93 43 00-0657	EA	30"	Box Rhus lancea - African Sumac.....	224.52	
32 93 43 00-0658	EA	8'	Rhus lancea - African Sumac.....	336.78	
32 93 43 00-0659	EA	10'	Rhus lancea - African Sumac.....	376.07	
32 93 43 00-0660	EA	12'	Rhus lancea - African Sumac.....	449.04	

32 93 43 00-0661 Palm And Subtropical Trees (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0662	EA	4' To 5'	Archontophoenix cunninghamiana - King Palm.....	90.16	
32 93 43 00-0663	EA	6' To 8'	Archontophoenix cunninghamiana - King Palm.....	140.25	
32 93 43 00-0664	EA	8' To 10'	Archontophoenix cunninghamiana - King Palm.....	180.32	
32 93 43 00-0665	EA	10' To 12'	Archontophoenix cunninghamiana - King Palm.....	240.42	
32 93 43 00-0666	EA	4' To 5'	Arecastrum romanzoffianum - Queen Palm.....	68.30	
32 93 43 00-0667	EA	6' To 8'	Arecastrum romanzoffianum - Queen Palm.....	95.62	
32 93 43 00-0668	EA	8' To 10'	Arecastrum romanzoffianum - Queen Palm.....	122.94	
32 93 43 00-0669	EA	10' To 12'	Arecastrum romanzoffianum - Queen Palm.....	150.27	
32 93 43 00-0670	EA	12' To 14'	Arecastrum romanzoffianum - Queen Palm.....	182.14	
32 93 43 00-0671	EA	14' To 16'	Arecastrum romanzoffianum - Queen Palm.....	227.68	
32 93 43 00-0672	EA	3' To 4'	Chamaedorea radicalis - Dwarf Bamboo Palm.....	191.25	
32 93 43 00-0673	EA	5' To 6'	Chamaedorea radicalis - Dwarf Bamboo Palm.....	300.53	
32 93 43 00-0674	EA	3' To 4'	Chamaerops humilis - European Fan Palm.....	163.93	
32 93 43 00-0675	EA	5' To 6'	Chamaerops humilis - European Fan Palm.....	218.57	
32 93 43 00-0676	EA	7' To 8'	Chamaerops humilis - European Fan Palm.....	509.99	
32 93 43 00-0677	EA	9' To 10'	Chamaerops humilis - European Fan Palm.....	874.27	
32 93 43 00-0678	EA	12' To 16'	Cocos nucifera - Coconut Palm.....	384.08	
32 93 43 00-0679	EA	6' To 7'	Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	127.50	
32 93 43 00-0680	EA	8' To 10'	Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	255.00	
32 93 43 00-0681	EA	10' To 12'	Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	327.85	
32 93 43 00-0682	EA	12' To 14'	Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	455.35	
32 93 43 00-0683	EA	4' To 5'	Rhapis excelsa - Lady Palm.....	346.07	
32 93 43 00-0684	EA	6' To 7'	Rhapis excelsa - Lady Palm.....	491.78	
32 93 43 00-0685	EA	8' To 9'	Roystonea regia - Royal Palm.....	278.67	
32 93 43 00-0686	EA	10' To 11'	Roystonea regia - Royal Palm.....	340.60	
32 93 43 00-0687	EA	12' To 13'	Roystonea regia - Royal Palm.....	402.53	
32 93 43 00-0688	EA	14' To 15'	Roystonea regia - Royal Palm.....	464.46	
32 93 43 00-0689	EA	16' To 17'	Roystonea regia - Royal Palm.....	526.38	
32 93 43 00-0690	EA	18' To 19'	Roystonea regia - Royal Palm.....	588.31	
32 93 43 00-0691	EA	20' To 21'	Roystonea regia - Royal Palm.....	650.24	
32 93 43 00-0692	EA	10' To 16'	Sabal palmetto - Cabbage Palm.....	140.83	
32 93 43 00-0693	EA	6' To 7'	Thrinax morrisii - Key Thatch Palm.....	382.49	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 43 00-0694	EA	8' To 9' <i>Thrinax morrisii</i> - Key Thatch Palm	491.78	
32 93 43 00-0695	EA	10' To 11' <i>Thrinax morrisii</i> - Key Thatch Palm.....	601.06	
32 93 43 00-0696	EA	9' <i>Ptychosperma elegans</i> - Alexander Palm, Solitaire Palm	136.60	
32 93 43 00-0697	EA	11' <i>Ptychosperma elegans</i> - Alexander Palm, Solitaire Palm	227.68	
32 93 43 00-0698	EA	15' <i>Ptychosperma elegans</i> - Alexander Palm, Solitaire Palm	346.07	
32 93 43 00-0699	EA	17' <i>Ptychosperma elegans</i> - Alexander Palm, Solitaire Palm	391.60	
32 93 43 00-0700	EA	20' <i>Ptychosperma elegans</i> - Alexander Palm, Solitaire Palm	455.35	
32 93 43 00-0701	EA	4' To 5' <i>Bauhinia blakeana</i> - Hong Kong Orchid	391.60	
32 93 43 00-0702	EA	6' <i>Bauhinia blakeana</i> - Hong Kong Orchid.....	464.46	
32 93 43 00-0703	EA	8' <i>Bauhinia blakeana</i> - Hong Kong Orchid	619.28	
32 93 43 00-0704	EA	10' <i>Bauhinia blakeana</i> - Hong Kong Orchid.....	774.10	
32 93 43 00-0705	EA	4' To 5' <i>Acacia baileyana</i> - Bailey Acacia.....	198.66	
32 93 43 00-0706	EA	6' <i>Acacia baileyana</i> - Bailey Acacia	238.39	
32 93 43 00-0707	EA	8' <i>Acacia baileyana</i> - Bailey Acacia	278.12	
32 93 43 00-0708	EA	10' <i>Acacia baileyana</i> - Bailey Acacia	347.66	
32 93 43 00-0709	EA	6' <i>Agonis flexuosa</i> - Peppermint Tree.....	119.20	
32 93 43 00-0710	EA	8' <i>Agonis flexuosa</i> - Peppermint Tree.....	149.00	
32 93 43 00-0711	EA	10' <i>Agonis flexuosa</i> - Peppermint Tree	178.79	
32 93 43 00-0712	EA	24" Box <i>Agonis flexuosa</i> - Peppermint Tree	148.50	
32 93 43 00-0713	EA	6' <i>Bauhinia purpurea</i> - Purple Orchid Tree.....	491.78	
32 93 43 00-0714	EA	8' <i>Bauhinia purpurea</i> - Purple Orchid Tree.....	655.70	
32 93 43 00-0715	EA	10' <i>Bauhinia purpurea</i> - Purple Orchid Tree.....	819.63	
32 93 43 00-0716	EA	24" Box <i>Bauhinia purpurea</i> - Purple Orchid Tree	213.10	
32 93 43 00-0717	EA	6' <i>Bauhinia variegata candida</i> - White Orchid Tree.....	546.42	
32 93 43 00-0718	EA	8' <i>Bauhinia variegata candida</i> - White Orchid Tree.....	728.56	
32 93 43 00-0719	EA	10' <i>Bauhinia variegata candida</i> - White Orchid Tree.....	910.70	
32 93 43 00-0720	EA	6' <i>Callistemon citrinus</i> - Crimson or Lemon Bottle Brush	268.19	
32 93 43 00-0721	EA	8' <i>Callistemon citrinus</i> - Crimson or Lemon Bottle Brush	357.59	
32 93 43 00-0722	EA	10' <i>Callistemon citrinus</i> - Crimson or Lemon Bottle Brush	446.98	
32 93 43 00-0723	EA	6' <i>Eriobotrya deflexa</i> - Bronze Loquat.....	491.78	
32 93 43 00-0724	EA	8' <i>Eriobotrya deflexa</i> - Bronze Loquat.....	655.70	
32 93 43 00-0725	EA	10' <i>Eriobotrya deflexa</i> - Bronze Loquat.....	819.63	
32 93 43 00-0726	EA	6' <i>Eucalyptus erythrocorys</i> - Red Cap Gum.....	491.78	
32 93 43 00-0727	EA	8' <i>Eucalyptus erythrocorys</i> - Red Cap Gum.....	655.70	
32 93 43 00-0728	EA	10' <i>Eucalyptus erythrocorys</i> - Red Cap Gum.....	819.63	
32 93 43 00-0729	EA	6' <i>Eucalyptus torquata</i> - Coral Gum	491.78	
32 93 43 00-0730	EA	8' <i>Eucalyptus torquata</i> - Coral Gum	655.70	
32 93 43 00-0731	EA	10' <i>Eucalyptus torquata</i> - Coral Gum	819.63	
32 93 43 00-0732	EA	8' <i>Fraxinus oxycarpa</i> "Raywood" - Raywood Ash	278.12	
32 93 43 00-0733	EA	10' <i>Fraxinus oxycarpa</i> "Raywood" - Raywood Ash	377.45	
32 93 43 00-0734	EA	12' <i>Fraxinus oxycarpa</i> "Raywood" - Raywood Ash	466.85	
32 93 43 00-0735	EA	1 Gallon <i>Washingtonia robusta</i> - Mexican Fan Palm	8.36	
32 93 43 00-0736	EA	5 Gallon <i>Washingtonia robusta</i> - Mexican Fan Palm	26.02	
32 93 43 00-0737	EA	15 Gallon <i>Washingtonia robusta</i> - Mexican Fan Palm	91.06	
32 93 43 00-0738	EA	24" Box <i>Washingtonia robusta</i> - Mexican Fan Palm	297.33	
32 93 43 00-0739	EA	36" Box <i>Washingtonia robusta</i> - Mexican Fan Palm	789.78	
32 93 43 00-0740	EA	6' <i>Washingtonia robusta</i> - Mexican Fan Palm.....	491.78	
32 93 43 00-0741	EA	8' <i>Washingtonia robusta</i> - Mexican Fan Palm.....	655.70	
32 93 43 00-0742	EA	10' <i>Washingtonia robusta</i> - Mexican Fan Palm.....	819.63	
32 93 43 00-0743	EA	12' <i>Washingtonia robusta</i> - Mexican Fan Palm.....	983.56	
32 93 43 00-0744	EA	6' <i>Olea europaea</i> - Olive "Fruitless"	303.10	
32 93 43 00-0745	EA	8' <i>Olea europaea</i> - Olive "Fruitless"	404.14	
32 93 43 00-0746	EA	10' <i>Olea europaea</i> - Olive "Fruitless"	505.17	
32 93 43 00-0747	EA	12' <i>Olea europaea</i> - Olive "Fruitless"	606.20	
32 93 43 00-0748	EA	24" Box <i>Olea europaea</i> - Olive "Fruitless"	372.70	
32 93 43 00-0749	EA	6' <i>Eucalyptus polyanthemos</i> - Silver Dollar Gum	491.78	
32 93 43 00-0750	EA	8' <i>Eucalyptus polyanthemos</i> - Silver Dollar Gum	655.70	
32 93 43 00-0751	EA	10' <i>Eucalyptus polyanthemos</i> - Silver Dollar Gum	819.63	
32 93 43 00-0752	EA	6' <i>Eucalyptus leucoxydon</i> - White Ironbark	491.78	
32 93 43 00-0753	EA	8' <i>Eucalyptus leucoxydon</i> - White Ironbark	655.70	
32 93 43 00-0754	EA	10' <i>Eucalyptus leucoxydon</i> - White Ironbark	819.63	
32 93 43 00-0755	EA	12' <i>Eucalyptus leucoxydon</i> - White Ironbark	983.56	
32 93 43 00-0756	EA	6' <i>Callistemon viminalis</i> - Weeping Bottle Brush	268.19	
32 93 43 00-0757	EA	8' <i>Callistemon viminalis</i> - Weeping Bottle Brush	357.59	
32 93 43 00-0758	EA	10' <i>Callistemon viminalis</i> - Weeping Bottle Brush	446.98	
32 93 43 00-0759	EA	12' <i>Callistemon viminalis</i> - Weeping Bottle Brush	536.38	
32 93 43 00-0760	EA	6' <i>Eucalyptus gunnii</i> - Cider Gum.....	491.78	
32 93 43 00-0761	EA	8' <i>Eucalyptus gunnii</i> - Cider Gum.....	655.70	
32 93 43 00-0762	EA	10' <i>Eucalyptus gunnii</i> - Cider Gum.....	819.63	
32 93 43 00-0763	EA	6' <i>Jacarandra acutifolia</i> - Jacaranda	491.78	
32 93 43 00-0764	EA	8' <i>Jacarandra acutifolia</i> - Jacaranda	655.70	
32 93 43 00-0765	EA	10' <i>Jacarandra acutifolia</i> - Jacaranda	819.63	
32 93 43 00-0766	EA	24" Box <i>Jacarandra acutifolia</i> - Jacaranda.....	213.10	
32 93 43 00-0767	EA	5 Gallon <i>Phoenix roebelenii</i> - Pygmy Date Palm	31.82	
32 93 43 00-0768	EA	7 Gallon <i>Phoenix roebelenii</i> - Pygmy Date Palm	77.57	
32 93 43 00-0769	EA	15 Gallon <i>Phoenix roebelenii</i> - Pygmy Date Palm	117.35	
32 93 43 00-0770	EA	24" Box <i>Phoenix roebelenii</i> - Pygmy Date Palm	348.08	
32 93 43 00-0771	EA	5 Gallon <i>Pistacia chinensis</i> - Chinese Pistache.....	32.79	
32 93 43 00-0772	EA	15 Gallon <i>Pistacia chinensis</i> - Chinese Pistache	109.28	
32 93 43 00-0773	EA	24" Box <i>Pistacia chinensis</i> - Chinese Pistache.....	424.39	
32 93 43 00-0774	EA	36" Box <i>Pistacia chinensis</i> - Chinese Pistache.....	1,129.27	



Exterior Improvements		32
Planting		32 90
Plants		32 93

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0775	EA		48" Box Pistacia chinensis - Chinese Pistache.....	2,404.25	
32 93 43 00-0776	EA		5 Gallon Pyrus kawakamii - Evergreen Pear, Single	18.48	
32 93 43 00-0777	EA		15 Gallon Pyrus kawakamii - Evergreen Pear, Single	61.58	
32 93 43 00-0778	EA		24" Box Pyrus kawakamii - Evergreen Pear, Single	231.44	
32 93 43 00-0779	EA		30" Box Pyrus kawakamii - Evergreen Pear, Single	423.15	
32 93 43 00-0780	EA		36" Box Pyrus kawakamii - Evergreen Pear, Single	615.85	
32 93 43 00-0781	EA		5 Gallon Pyrus kawakamii - Evergreen Pear, Multi.....	18.48	
32 93 43 00-0782	EA		15 Gallon Pyrus kawakamii - Evergreen Pear, Multi.....	65.56	
32 93 43 00-0783	EA		24" Box Pyrus kawakamii - Evergreen Pear, Multi.....	238.39	
32 93 43 00-0784	EA		30" Box Pyrus kawakamii - Evergreen Pear, Multi.....	423.15	
32 93 43 00-0785	EA		36" Box Pyrus kawakamii - Evergreen Pear, Multi.....	615.85	

32 93 83 Planting of Trees, Shrubs and Ground Cover (32 93)

Note: Includes moving plant(s) from truck or staging site to planting site, excavation of hole, placing plant in hole, backfill and compaction. Use appropriate gallon, height or caliper size to match with description from plant section.

32 93 83 00-0001 Planting Trees (32 93 83)

Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.

32 93 83 00-0002	EA		3" To 5" Bare Root Seedlings Tree Planting.....	1.23	
32 93 83 00-0003	EA		6" To 10" Bare Root Seedlings Tree Planting.....	1.99	
32 93 83 00-0004	EA		11" To 16" Bare Root Seedlings Tree Planting.....	2.48	
32 93 83 00-0005	EA		17" To 24" Bare Root Seedlings Tree Planting.....	3.97	
32 93 83 00-0006	EA		1 Gallon Container Tree Planting.....	19.84	
			For >10 To 25, Deduct	-0.99	
			For >25 To 50, Deduct	-2.48	
			For >50 To 100, Deduct	-3.97	
			For >100, Deduct	-5.95	
32 93 83 00-0007	EA		2 Gallon Container Tree Planting.....	27.77	
			For >10 To 25, Deduct	-1.39	
			For >25 To 50, Deduct	-3.47	
			For >50 To 100, Deduct	-5.55	
			For >100, Deduct	-8.33	
32 93 83 00-0008	EA		3 Gallon Container Tree Planting.....	35.70	
			For >10 To 25, Deduct	-1.79	
			For >25 To 50, Deduct	-4.46	
			For >50 To 100, Deduct	-7.14	
			For >100, Deduct	-10.71	
32 93 83 00-0009	EA		5 Gallon Container Tree Planting.....	59.51	
			For >10 To 25, Deduct	-2.98	
			For >25 To 50, Deduct	-7.44	
			For >50 To 100, Deduct	-11.90	
			For >100, Deduct	-17.85	
32 93 83 00-0010	EA		7 Gallon Container Tree Planting.....	79.34	
			For >10 To 25, Deduct	-3.97	
			For >25 To 50, Deduct	-9.92	
			For >50 To 100, Deduct	-15.87	
			For >100, Deduct	-23.80	
32 93 83 00-0011	EA		10 Gallon Container Tree Planting.....	103.15	
			For >10 To 25, Deduct	-5.16	
			For >25 To 50, Deduct	-12.89	
			For >50 To 100, Deduct	-20.63	
			For >100, Deduct	-30.95	
32 93 83 00-0012	EA		15 Gallon Container Tree Planting.....	146.79	
			For >10 To 25, Deduct	-7.34	
			For >25 To 50, Deduct	-18.35	
			For >50 To 100, Deduct	-29.36	
			For >100, Deduct	-44.04	
32 93 83 00-0013	EA		20 Gallon Container Tree Planting.....	242.01	
			For >10 To 25, Deduct	-12.10	
			For >25 To 50, Deduct	-30.25	
			For >50 To 100, Deduct	-48.40	
			For >100, Deduct	-72.60	
32 93 83 00-0014	EA		25 Gallon Container Tree Planting.....	313.42	
			For >10 To 25, Deduct	-15.67	
			For >25 To 50, Deduct	-39.18	
			For >50 To 100, Deduct	-62.68	
			For >100, Deduct	-94.03	
32 93 83 00-0015	EA		30 Gallon Container Tree Planting.....	376.90	
			For >10 To 25, Deduct	-18.85	
			For >25 To 50, Deduct	-47.11	
			For >50 To 100, Deduct	-75.38	
			For >100, Deduct	-113.07	
32 93 83 00-0016	EA		45 Gallon Container Tree Planting.....	468.15	
			For >10 To 25, Deduct	-23.41	
			For >25 To 50, Deduct	-58.52	
			For >50 To 100, Deduct	-93.63	
			For >100, Deduct	-140.45	
32 93 83 00-0017	EA		65 Gallon Container Tree Planting.....	555.43	
			For >10 To 25, Deduct	-27.77	
			For >25 To 50, Deduct	-69.43	
			For >50 To 100, Deduct	-111.09	
			For >100, Deduct	-166.63	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0018 EA 6' Balled And Burlapped Tree Planting	198.37	
For >10 To 25, Deduct	-9.92	
For >25 To 50, Deduct	-24.80	
For >50 To 100, Deduct	-39.67	
For >100, Deduct	-59.51	
32 93 83 00-0019 EA 7' Balled And Burlapped Tree Planting	264.23	
For >10 To 25, Deduct	-13.21	
For >25 To 50, Deduct	-33.03	
For >50 To 100, Deduct	-52.85	
For >100, Deduct	-79.27	
32 93 83 00-0020 EA 8' Balled And Burlapped Tree Planting	297.55	
For >10 To 25, Deduct	-14.88	
For >25 To 50, Deduct	-37.19	
For >50 To 100, Deduct	-59.51	
For >100, Deduct	-89.27	
32 93 83 00-0021 EA 10' Balled And Burlapped Tree Planting	347.15	
For >10 To 25, Deduct	-17.36	
For >25 To 50, Deduct	-43.39	
For >50 To 100, Deduct	-69.43	
For >100, Deduct	-104.15	
32 93 83 00-0022 EA 12' Balled And Burlapped Tree Planting	464.18	
For >10 To 25, Deduct	-23.21	
For >25 To 50, Deduct	-58.02	
For >50 To 100, Deduct	-92.84	
For >100, Deduct	-139.25	
32 93 83 00-0023 EA 14' Balled And Burlapped Tree Planting	531.63	
For >10 To 25, Deduct	-26.58	
For >25 To 50, Deduct	-66.45	
For >50 To 100, Deduct	-106.33	
For >100, Deduct	-159.49	
32 93 83 00-0024 EA 16' Balled And Burlapped Tree Planting	644.70	
For >10 To 25, Deduct	-32.24	
For >25 To 50, Deduct	-80.59	
For >50 To 100, Deduct	-128.94	
For >100, Deduct	-193.41	
32 93 83 00-0025 EA 18' Balled And Burlapped Tree Planting	773.64	
For >10 To 25, Deduct	-38.68	
For >25 To 50, Deduct	-96.71	
For >50 To 100, Deduct	-154.73	
For >100, Deduct	-232.09	
32 93 83 00-0026 EA 20' Balled And Burlapped Tree Planting	892.66	
For >10 To 25, Deduct	-44.63	
For >25 To 50, Deduct	-111.58	
For >50 To 100, Deduct	-178.53	
For >100, Deduct	-267.80	
32 93 83 00-0027 EA 1-1/2" Caliper Balled And Burlapped Tree Planting	297.55	
For >10 To 25, Deduct	-14.88	
For >25 To 50, Deduct	-37.19	
For >50 To 100, Deduct	-59.51	
For >100, Deduct	-89.27	
32 93 83 00-0028 EA 2" Caliper Balled And Burlapped Tree Planting	347.15	
For >10 To 25, Deduct	-17.36	
For >25 To 50, Deduct	-43.39	
For >50 To 100, Deduct	-69.43	
For >100, Deduct	-104.15	
32 93 83 00-0029 EA 2-1/2" Caliper Balled And Burlapped Tree Planting	466.17	
For >10 To 25, Deduct	-23.31	
For >25 To 50, Deduct	-58.27	
For >50 To 100, Deduct	-93.23	
For >100, Deduct	-139.85	
32 93 83 00-0030 EA 3" Caliper Balled And Burlapped Tree Planting	535.59	
For >10 To 25, Deduct	-26.78	
For >25 To 50, Deduct	-66.95	
For >50 To 100, Deduct	-107.12	
For >100, Deduct	-160.68	
32 93 83 00-0031 EA 3-1/2" Caliper Balled And Burlapped Tree Planting	595.11	
For >10 To 25, Deduct	-29.76	
For >25 To 50, Deduct	-74.39	
For >50 To 100, Deduct	-119.02	
For >100, Deduct	-178.53	
32 93 83 00-0032 EA 4" Caliper Balled And Burlapped Tree Planting	682.38	
For >10 To 25, Deduct	-34.12	
For >25 To 50, Deduct	-85.30	
For >50 To 100, Deduct	-136.48	
For >100, Deduct	-204.71	
32 93 83 00-0033 Planting Shrubs <small>(32 93 83)</small>		
Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.		
32 93 83 00-0034 EA 1 Gallon Container Shrub Planting.....	16.87	
For >10 To 25, Deduct	-0.84	
For >25 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-3.37	
For >100, Deduct	-5.06	



Exterior Improvements		32
Planting		32 90
Plants		32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0035 EA 2 Gallon Container Shrub Planting	23.80	
For >10 To 25, Deduct	-1.19	
For >25 To 50, Deduct	-2.98	
For >50 To 100, Deduct	-4.76	
For >100, Deduct	-7.14	
32 93 83 00-0036 EA 3 Gallon Container Shrub Planting	29.76	
For >10 To 25, Deduct	-1.49	
For >25 To 50, Deduct	-3.72	
For >50 To 100, Deduct	-5.95	
For >100, Deduct	-8.93	
32 93 83 00-0037 EA 4 Gallon Container Shrub Planting	39.68	
For >10 To 25, Deduct	-1.98	
For >25 To 50, Deduct	-4.96	
For >50 To 100, Deduct	-7.94	
For >100, Deduct	-11.90	
32 93 83 00-0038 EA 5 Gallon Container Shrub Planting	49.60	
For >10 To 25, Deduct	-2.48	
For >25 To 50, Deduct	-6.20	
For >50 To 100, Deduct	-9.92	
For >100, Deduct	-14.88	
32 93 83 00-0039 EA 7 Gallon Container Shrub Planting	67.45	
For >10 To 25, Deduct	-3.37	
For >25 To 50, Deduct	-8.43	
For >50 To 100, Deduct	-13.49	
For >100, Deduct	-20.24	
32 93 83 00-0040 EA 10 Gallon Container Shrub Planting	89.26	
For >10 To 25, Deduct	-4.46	
For >25 To 50, Deduct	-11.16	
For >50 To 100, Deduct	-17.85	
For >100, Deduct	-26.78	
32 93 83 00-0041 EA 15 Gallon Container Shrub Planting	122.99	
For >10 To 25, Deduct	-6.15	
For >25 To 50, Deduct	-15.37	
For >50 To 100, Deduct	-24.60	
For >100, Deduct	-36.90	
32 93 83 00-0042 EA 20 Gallon Container Shrub Planting	206.31	
For >10 To 25, Deduct	-10.32	
For >25 To 50, Deduct	-25.79	
For >50 To 100, Deduct	-41.26	
For >100, Deduct	-61.89	
32 93 83 00-0043 EA 25 Gallon Container Shrub Planting	264.23	
For >10 To 25, Deduct	-13.21	
For >25 To 50, Deduct	-33.03	
For >50 To 100, Deduct	-52.85	
For >100, Deduct	-79.27	
32 93 83 00-0044 EA 15" Balled And Burlapped Shrub Planting	55.54	
For >10 To 25, Deduct	-2.78	
For >25 To 50, Deduct	-6.94	
For >50 To 100, Deduct	-11.11	
For >100, Deduct	-16.66	
32 93 83 00-0045 EA 18" Balled And Burlapped Shrub Planting	57.53	
For >10 To 25, Deduct	-2.88	
For >25 To 50, Deduct	-7.19	
For >50 To 100, Deduct	-11.51	
For >100, Deduct	-17.26	
32 93 83 00-0046 EA 24" Balled And Burlapped Shrub Planting	63.48	
For >10 To 25, Deduct	-3.17	
For >25 To 50, Deduct	-7.94	
For >50 To 100, Deduct	-12.70	
For >100, Deduct	-19.04	
32 93 83 00-0047 EA 30" Balled And Burlapped Shrub Planting	63.48	
For >10 To 25, Deduct	-3.17	
For >25 To 50, Deduct	-7.94	
For >50 To 100, Deduct	-12.70	
For >100, Deduct	-19.04	
32 93 83 00-0048 EA 36" Balled And Burlapped Shrub Planting	69.43	
For >10 To 25, Deduct	-3.47	
For >25 To 50, Deduct	-8.68	
For >50 To 100, Deduct	-13.89	
For >100, Deduct	-20.83	
32 93 83 00-0049 EA 42" Balled And Burlapped Shrub Planting	73.40	
For >10 To 25, Deduct	-3.67	
For >25 To 50, Deduct	-9.18	
For >50 To 100, Deduct	-14.68	
For >100, Deduct	-22.02	
32 93 83 00-0050 EA 48" Balled And Burlapped Shrub Planting	79.34	
For >10 To 25, Deduct	-3.97	
For >25 To 50, Deduct	-9.92	
For >50 To 100, Deduct	-15.87	
For >100, Deduct	-23.80	
32 93 83 00-0051 EA 5' Balled And Burlapped Shrub Planting	119.02	
For >10 To 25, Deduct	-5.95	
For >25 To 50, Deduct	-14.88	
For >50 To 100, Deduct	-23.80	
For >100, Deduct	-35.71	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0052	EA		6' Balled And Burlapped Shrub Planting	168.62	
			<i>For >10 To 25, Deduct</i>	-8.43	
			<i>For >25 To 50, Deduct</i>	-21.08	
			<i>For >50 To 100, Deduct</i>	-33.72	
			<i>For >100, Deduct</i>	-50.59	
32 93 83 00-0053	EA		7' Balled And Burlapped Shrub Planting	224.16	
			<i>For >10 To 25, Deduct</i>	-11.21	
			<i>For >25 To 50, Deduct</i>	-28.02	
			<i>For >50 To 100, Deduct</i>	-44.83	
			<i>For >100, Deduct</i>	-67.25	
32 93 83 00-0054	EA		8' Balled And Burlapped Shrub Planting	253.92	
			<i>For >10 To 25, Deduct</i>	-12.70	
			<i>For >25 To 50, Deduct</i>	-31.74	
			<i>For >50 To 100, Deduct</i>	-50.78	
			<i>For >100, Deduct</i>	-76.18	
32 93 83 00-0055	EA		9' Balled And Burlapped Shrub Planting	273.75	
			<i>For >10 To 25, Deduct</i>	-13.69	
			<i>For >25 To 50, Deduct</i>	-34.22	
			<i>For >50 To 100, Deduct</i>	-54.75	
			<i>For >100, Deduct</i>	-82.13	
32 93 83 00-0056	EA		10' Balled And Burlapped Shrub Planting	297.55	
			<i>For >10 To 25, Deduct</i>	-14.88	
			<i>For >25 To 50, Deduct</i>	-37.19	
			<i>For >50 To 100, Deduct</i>	-59.51	
			<i>For >100, Deduct</i>	-89.27	
32 93 83 00-0057			Planting Groundcover, Vines, Perennials, Annuals And Bulbs <small>(32 93 83)</small>		
			See CSI section 32 91 13 16-0001 for mulch.		
32 93 83 00-0058	EA		2-1/4" Diameter Potted Groundcover And Flower Planting	1.66	
			<i>For >10 To 25, Deduct</i>	-0.08	
			<i>For >25 To 50, Deduct</i>	-0.21	
			<i>For >50 To 100, Deduct</i>	-0.33	
			<i>For >100, Deduct</i>	-0.50	
32 93 83 00-0059	EA		3" Diameter Potted Groundcover And Flower Planting	1.89	
			<i>For >10 To 25, Deduct</i>	-0.09	
			<i>For >25 To 50, Deduct</i>	-0.24	
			<i>For >50 To 100, Deduct</i>	-0.38	
			<i>For >100, Deduct</i>	-0.57	
32 93 83 00-0060	EA		4" Diameter Potted Groundcover And Flower Planting	2.21	
			<i>For >10 To 25, Deduct</i>	-0.11	
			<i>For >25 To 50, Deduct</i>	-0.28	
			<i>For >50 To 100, Deduct</i>	-0.44	
			<i>For >100, Deduct</i>	-0.66	
32 93 83 00-0061	EA		5-1/2" Diameter Potted Groundcover And Flower Planting	2.64	
			<i>For >10 To 25, Deduct</i>	-0.13	
			<i>For >25 To 50, Deduct</i>	-0.33	
			<i>For >50 To 100, Deduct</i>	-0.53	
			<i>For >100, Deduct</i>	-0.79	
32 93 83 00-0062	EA		6" Diameter Potted Groundcover And Flower Planting	3.30	
			<i>For >10 To 25, Deduct</i>	-0.17	
			<i>For >25 To 50, Deduct</i>	-0.41	
			<i>For >50 To 100, Deduct</i>	-0.66	
			<i>For >100, Deduct</i>	-0.99	
32 93 83 00-0063	EA		8" Diameter Potted Groundcover And Flower Planting	4.96	
			<i>For >10 To 25, Deduct</i>	-0.25	
			<i>For >25 To 50, Deduct</i>	-0.62	
			<i>For >50 To 100, Deduct</i>	-0.99	
			<i>For >100, Deduct</i>	-1.49	
32 93 83 00-0064	EA		1 Gallon Container Groundcover And Flower Planting	15.87	
			<i>For >10 To 25, Deduct</i>	-0.79	
			<i>For >25 To 50, Deduct</i>	-1.98	
			<i>For >50 To 100, Deduct</i>	-3.17	
			<i>For >100, Deduct</i>	-4.76	
32 93 83 00-0065	EA		2 Gallon Container Groundcover And Flower Planting	21.82	
			<i>For >10 To 25, Deduct</i>	-1.09	
			<i>For >25 To 50, Deduct</i>	-2.73	
			<i>For >50 To 100, Deduct</i>	-4.36	
			<i>For >100, Deduct</i>	-6.55	
32 93 83 00-0066	EA		3 Gallon Container Groundcover And Flower Planting	27.77	
			<i>For >10 To 25, Deduct</i>	-1.39	
			<i>For >25 To 50, Deduct</i>	-3.47	
			<i>For >50 To 100, Deduct</i>	-5.55	
			<i>For >100, Deduct</i>	-8.33	
32 93 83 00-0067	EA		4 Gallon Container Groundcover And Flower Planting	35.70	
			<i>For >10 To 25, Deduct</i>	-1.79	
			<i>For >25 To 50, Deduct</i>	-4.46	
			<i>For >50 To 100, Deduct</i>	-7.14	
			<i>For >100, Deduct</i>	-10.71	
32 93 83 00-0068	EA		5 Gallon Container Groundcover And Flower Planting	43.64	
			<i>For >10 To 25, Deduct</i>	-2.18	
			<i>For >25 To 50, Deduct</i>	-5.46	
			<i>For >50 To 100, Deduct</i>	-8.73	
			<i>For >100, Deduct</i>	-13.09	



		Exterior Improvements	32
		Planting	32 90
		Plants	32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0069 EA 7 Gallon Container Groundcover And Flower Planting	59.51	
For >10 To 25, Deduct	-2.98	
For >25 To 50, Deduct	-7.44	
For >50 To 100, Deduct	-11.90	
For >100, Deduct	-17.85	
32 93 83 00-0070 EA Bulb Planting.....	0.99	
For >10 To 25, Deduct	-0.05	
For >25 To 50, Deduct	-0.12	
For >50 To 100, Deduct	-0.20	
For >100, Deduct	-0.30	
32 93 83 00-0071 EA Flats Of 24 Groundcover And Flower Planting.....	27.77	
For >10 To 25, Deduct	-1.39	
For >25, Deduct	-3.47	
32 93 83 00-0072 EA Flats Of 36 Groundcover And Flower Planting.....	39.39	
For >10 To 25, Deduct	-1.97	
For >25, Deduct	-4.92	
32 93 83 00-0073 EA Flats Of 48 Groundcover And Flower Planting.....	52.44	
For >10 To 25, Deduct	-2.62	
For >25, Deduct	-6.56	

32 93 83 00-0074

Tree Pits (32 93 83)

Note: Costs given show the tree pit size accommodates the soil ball and the type of soil excavated includes excavation, bank run sand and gravel fill for drainage, imported mix planting soil, hand backfill, perforated drainage pipe for watering, and drainage fabric. Includes one layer of woven fabric to be applied before mulch is spread. Excludes additional soil conditioners or mulch. See CSI section 32 91 13 16-0000 for appropriate mulch or decorative topping, 32 91 13 16-0001 for appropriate mulch or decorative topping.

32 93 83 00-0075 EA 2' x 1-1/4' Deep Tree Pit	135.47	
32 93 83 00-0076 EA 2' x 2-1/2' Deep Tree Pit	203.16	
32 93 83 00-0077 EA 2-1/2' x 1-1/2' Deep Tree Pit	260.31	
32 93 83 00-0078 EA 2-1/2' x 3' Deep Tree Pit	390.39	
32 93 83 00-0079 EA 3' x 1-3/4' Deep Tree Pit	405.70	
32 93 83 00-0080 EA 3' x 3-1/2' Deep Tree Pit	605.91	
32 93 83 00-0081 EA 3-1/2' x 1-3/4' Deep Tree Pit	499.44	
32 93 83 00-0082 EA 3-1/2' x 3-1/2' Deep Tree Pit	748.31	
32 93 83 00-0083 EA 4' x 2' Deep Tree Pit	597.92	
32 93 83 00-0084 EA 4' x 4' Deep Tree Pit	896.47	
32 93 83 00-0085 EA 4-1/2' x 2' Deep Tree Pit	864.74	
32 93 83 00-0086 EA 4-1/2' x 4' Deep Tree Pit	1,299.22	
32 93 83 00-0087 EA 5' x 2-1/4' Deep Tree Pit	1,150.11	
32 93 83 00-0088 EA 5' x 4-1/2' Deep Tree Pit	1,715.20	
32 93 83 00-0089 EA 6' x 2-1/2' Deep Tree Pit	1,630.93	
32 93 83 00-0090 EA 6' x 5' Deep Tree Pit	2,443.38	
32 93 83 00-0091 EA 7' x 3' Deep Tree Pit	2,749.96	
32 93 83 00-0092 EA 7' x 6' Deep Tree Pit	4,143.10	
32 93 83 00-0093 EA 8' x 3-1/4' Deep Tree Pit	3,790.69	
32 93 83 00-0094 EA 8' x 6-1/2' Deep Tree Pit	5,684.04	

32 94 Planting Accessories (32 90)

32 94 13 Landscape Edging (32 94)

Note: Including stakes.

32 94 13 00-0001 Landscape Edging (32 94 13)

Note: Includes stakes.

32 94 13 00-0002 LF 6" Poly/Vinyl Landscape Edging With Non-Round Top.....	5.39	1.02
For >2,000 To 5,000 LF, Deduct	-0.34	
For >5,000 LF, Deduct	-0.67	
32 94 13 00-0003 LF 5" Polyethylene Landscape Edging With Round Top.....	3.09	1.02
For >2,000 To 5,000 LF, Deduct	-0.11	
For >5,000 LF, Deduct	-0.21	
32 94 13 00-0004 LF 5-1/2" Polyethylene Landscape Edging With Round Top	3.15	1.02
For >2,000 To 5,000 LF, Deduct	-0.11	
For >5,000 LF, Deduct	-0.22	
32 94 13 00-0005 LF 5" Polyethylene Landscape Edging With Corrugated Sides And Round Top	3.18	1.02
For >2,000 To 5,000 LF, Deduct	-0.11	
For >5,000 LF, Deduct	-0.23	
32 94 13 00-0006 LF 1/8" x 4", Mill Finish, Aluminum Alloy Landscape Edging	9.08	2.41
For >1,000 LF, Deduct	-1.07	
32 94 13 00-0007 LF 1/8" x 4", Black Paint, Aluminum Alloy Landscape Edging	9.96	2.41
For >1,000 LF, Deduct	-1.29	
32 94 13 00-0008 LF 1/8" x 4", Black Anodized, Aluminum Alloy Landscape Edging.....	10.02	2.41
For >1,000 LF, Deduct	-1.30	
32 94 13 00-0009 LF 3/16" x 4", Mill Finish, Aluminum Alloy Landscape Edging	11.55	2.49
For >1,000 LF, Deduct	-1.65	
32 94 13 00-0010 LF 3/16" x 4", Black Paint, Aluminum Alloy Landscape Edging	12.64	2.49
For >1,000 LF, Deduct	-1.93	
32 94 13 00-0011 LF 3/16" x 4", Black Anodized, Aluminum Alloy Landscape Edging.....	12.61	2.49
For >1,000 LF, Deduct	-1.92	
32 94 13 00-0012 LF 1/8" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	10.22	2.57
For >1,000 LF, Deduct	-1.29	
32 94 13 00-0013 LF 1/8" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging	11.43	2.57
For >1,000 LF, Deduct	-1.59	

32 Exterior Improvements**32 90 Planting****32 94 Planting Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94	13 00-0014	LF	1/8" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging..... <i>For >1,000 LF, Deduct</i>	11.55 -1.62	2.57
32 94	13 00-0015	LF	3/16" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging <i>For >1,000 LF, Deduct</i>	13.05 -1.96	2.65
32 94	13 00-0016	LF	3/16" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging <i>For >1,000 LF, Deduct</i>	14.26 -2.26	2.65
32 94	13 00-0017	LF	3/16" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging..... <i>For >1,000 LF, Deduct</i>	14.36 -2.29	2.65
32 94	13 00-0018	LF	1/8" x 4" Powder Coated Steel Landscape Edging <i>For >1,000 LF, Deduct</i>	9.68 -1.17	2.49
32 94	13 00-0019	LF	3/16" x 4" Powder Coated Steel Landscape Edging <i>For >1,000 LF, Deduct</i>	11.46 -1.62	2.49
32 94	13 00-0020	LF	1/4" x 5" Powder Coated Steel Landscape Edging <i>For >1,000 LF, Deduct</i>	16.24 -2.81	2.49
32 94	13 00-0021	LF	1/2" x 4", Recycled Plastic Landscape Edging (Bend-A-Board)..... <i>For >1,000 LF, Deduct</i>	7.15 -0.59	2.41
32 94	13 00-0022	LF	1" x 4", Recycled Plastic Landscape Edging (Bend-A-Board)..... <i>For >1,000 LF, Deduct</i>	8.21 -0.85	2.41
32 94	13 00-0023	LF	1" x 6", Recycled Plastic Landscape Edging (Bend-A-Board)..... <i>For >1,000 LF, Deduct</i>	9.15 -1.09	2.41
32 94	13 00-0024	LF	2" x 4", Recycled Plastic Landscape Edging (Bend-A-Board)..... <i>For >1,000 LF, Deduct</i>	9.34 -1.13	2.41

32 94 16 Landscape Timbers (32 94)

32 94	16 00-0001	LF	1" x 4" Redwood Edging	4.95	1.64
32 94	16 00-0002	LF	2" x 4" Redwood Edging.....	6.78	2.46
32 94	16 00-0003	LF	4" x 6" Pressure Treated Hardwood.....	11.59	3.27
32 94	16 00-0004	LF	6" x 6" Pressure Treated Hardwood.....	15.37	4.10
32 94	16 00-0005	LF	6" x 8" Pressure Treated Hardwood.....	17.84	4.81
32 94	16 00-0006	LF	1" x 4" Pressure Treated Pine.....	4.13	1.64
32 94	16 00-0007	LF	2" x 4" Pressure Treated Pine.....	6.30	2.46
32 94	16 00-0008	LF	4" x 6" Pressure Treated Pine.....	10.97	3.18
32 94	16 00-0009	LF	6" x 6" Pressure Treated Pine.....	15.21	4.10
32 94	16 00-0010	LF	6" x 8" Pressure Treated Pine.....	18.84	4.81
32 94	16 00-0011	LF	6" x 8" Railroad Ties	14.18	4.60
32 94	16 00-0012	LF	7" x 9" Railroad Ties	17.06	5.77

32 94 23 Plant Protection (32 94)

32 94	23 00-0001	SF	Tree Trunk Protection - Hardware Cloth 1/4" Mesh, 23 Gauge.....	2.30	
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32 94 43 Tree Grates (32 94)**32 94 43 00-0001 Tree Grates With Frames (32 94 43)****32 94 43 00-0002 Round Cast Iron Tree Grates With Frames (32 94 43 00-0001)**

32 94	43 00-0003	EA	32" Diameter, 100 To 150 LB Cast Iron Tree Grate With Frame	981.02	60.48
32 94	43 00-0004	EA	36" Diameter, 125 To 175 LB Cast Iron Tree Grate With Frame	1,137.38	60.48
32 94	43 00-0005	EA	42" Diameter, 150 To 200 LB Cast Iron Tree Grate With Frame	1,373.17	80.64
32 94	43 00-0006	EA	48" Diameter, 200 To 250 LB Cast Iron Tree Grate With Frame	1,713.51	80.64
32 94	43 00-0007	EA	54" Diameter, 300 To 350 LB Cast Iron Tree Grate With Frame	2,197.65	100.80
32 94	43 00-0008	EA	60" Diameter, Up To 350 LB Cast Iron Tree Grate With Frame.....	2,302.35	120.96
32 94	43 00-0009	EA	60" Diameter, >350 LB Cast Iron Tree Grate With Frame	2,539.21	120.96
32 94	43 00-0010	EA	72" Diameter, Up To 550 LB Cast Iron Tree Grate With Frame.....	3,378.18	171.36
32 94	43 00-0011	EA	72" Diameter, >500 To 550 LB Cast Iron Tree Grate With Frame	3,516.16	171.36
32 94	43 00-0012	EA	72" Diameter, >600 To 650 LB Cast Iron Tree Grate With Frame	3,631.14	171.36
32 94	43 00-0013	EA	72" Diameter, >650 To 700 LB Cast Iron Tree Grate With Frame	3,723.12	171.36
32 94	43 00-0014	EA	72" Diameter, >700 LB Cast Iron Tree Grate With Frame	3,792.11	171.36
32 94	43 00-0015	EA	93" Diameter, 950 To 1,000 LB Cast Iron Tree Grate With Frame	4,156.15	201.60

32 94 43 00-0016 Square Cast Iron Tree Grates With Frames (32 94 43 00-0001)

32 94	43 00-0017	EA	30" x 30", 75 To 125 LB Cast Iron Tree Grate With Frame	902.82	60.48
32 94	43 00-0018	EA	36" x 36", 100 To 150 LB Cast Iron Tree Grate With Frame	1,098.29	60.48
32 94	43 00-0019	EA	48" x 48", Up To 200 LB Cast Iron Tree Grate With Frame	1,627.35	100.80
32 94	43 00-0020	EA	48" x 48", >200 To 250 LB Cast Iron Tree Grate With Frame	1,926.30	100.80
32 94	43 00-0021	EA	48" x 48", >250 To 300 LB Cast Iron Tree Grate With Frame.....	2,202.25	100.80
32 94	43 00-0022	EA	48" x 48", >300 To 350 LB Cast Iron Tree Grate With Frame	2,455.21	100.80
32 94	43 00-0023	EA	48" x 48", >350 To 400 LB Cast Iron Tree Grate With Frame.....	2,685.17	100.80
32 94	43 00-0024	EA	48" x 48", >400 LB Cast Iron Tree Grate With Frame.....	2,892.13	100.80
32 94	43 00-0025	EA	60" x 60", Up To 400 LB Cast Iron Tree Grate With Frame	2,765.81	141.12
32 94	43 00-0026	EA	60" x 60", >400 To 450 LB Cast Iron Tree Grate With Frame.....	2,972.77	141.12
32 94	43 00-0027	EA	60" x 60", >450 To 500 LB Cast Iron Tree Grate With Frame.....	3,156.74	141.12
32 94	43 00-0028	EA	60" x 60", >500 To 550 LB Cast Iron Tree Grate With Frame.....	3,317.71	141.12
32 94	43 00-0029	EA	60" x 60", >550 To 600 LB Cast Iron Tree Grate With Frame.....	3,455.69	141.12
32 94	43 00-0030	EA	60" x 60", >600 LB Cast Iron Tree Grate With Frame	3,570.67	141.12
32 94	43 00-0031	EA	72" x 72", Up To 550 LB Cast Iron Tree Grate With Frame	3,378.18	171.36
32 94	43 00-0032	EA	72" x 72", >550 To 600 LB Cast Iron Tree Grate With Frame.....	3,516.16	171.36
32 94	43 00-0033	EA	72" x 72", >600 To 650 LB Cast Iron Tree Grate With Frame.....	3,631.14	171.36
32 94	43 00-0034	EA	72" x 72", >650 To 700 LB Cast Iron Tree Grate With Frame.....	3,723.12	171.36



		Exterior Improvements	32
		Planting	32 90
		Planting Accessories	32 94

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	32 94 43 00-0035	EA	72" x 72", >700 To 750 LB Cast Iron Tree Grate With Frame.....	3,792.11	171.36
	32 94 43 00-0036	EA	72" x 72", >750 To 800 LB Cast Iron Tree Grate With Frame.....	3,838.10	171.36
	32 94 43 00-0037	EA	72" x 72", >800 To 850 LB Cast Iron Tree Grate With Frame.....	3,861.10	171.36
	32 94 43 00-0038	EA	72" x 72", >850 LB Cast Iron Tree Grate With Frame.....	3,884.09	171.36
32 94 43 00-0039 Rectangular Cast Iron Tree Grates With Frames (32 94 43 00-0001)					
	32 94 43 00-0040	EA	36" x 48", 200 To 250 LB Cast Iron Tree Grate With Frame.....	1,713.51	80.64
	32 94 43 00-0041	EA	36" x 60", 200 To 250 LB Cast Iron Tree Grate With Frame.....	1,748.00	80.64
	32 94 43 00-0042	EA	36" x 72", 275 To 325 LB Cast Iron Tree Grate With Frame.....	2,135.56	100.80
	32 94 43 00-0043	EA	48" x 72", Up To 350 LB Cast Iron Tree Grate With Frame.....	2,519.60	100.80
	32 94 43 00-0044	EA	48" x 72", >350 LB Cast Iron Tree Grate With Frame.....	2,685.17	100.80
	32 94 43 00-0045	EA	60" x 84", 700 To 750 LB Cast Iron Tree Grate With Frame.....	3,585.15	171.36
32 94 49 Plant and Tree Accessories (32 94)					
32 94 49 00-0001 Tree Guying (32 94 49)					
32 94 49 00-0002 Tree Guying, Stakes (32 94 49 00-0001)					
Note: Includes stakes, cross brace, double #12 gauge twisted wire and reinforced rubber hose tree wrap.					
	32 94 49 00-0003	EA	Tree Guying Up To 2" Caliper, 2 Stakes, Guy Wire And Wrap.....	27.62	
	32 94 49 00-0004	EA	Tree Guying 2" To 3" Caliper, 2 Stakes, Guy Wire And Wrap.....	45.00	
	32 94 49 00-0005	EA	Tree Guying 3" To 4" Caliper, 3 Stakes, Guy Wire And Wrap.....	77.57	
32 94 49 00-0006 Tree Guying, Anchors (32 94 49 00-0001)					
Note: Includes arrowhead anchor, cable, turnbuckles and wrap or reinforced rubber hose.					
	32 94 49 00-0007	EA	Tree Guying Up To 3" Caliper, 3" Anchors And Polypropylene Flat Rope.....	122.93	
	32 94 49 00-0008	EA	Tree Guying 3" To 6" Caliper, 4" Anchors And Polypropylene Flat Rope.....	166.66	
	32 94 49 00-0009	EA	Tree Guying 6" To 8" Caliper, 6" Anchors And Polypropylene Flat Rope.....	217.00	
	32 94 49 00-0010	EA	Tree Guying 8" And Up Caliper, 8" Anchors And Polypropylene Flat Rope.....	274.96	
32 94 49 00-0011 Tree Wrap (32 94 49)					
	32 94 49 00-0012	EA	Tree Wrap, Up To 1" Caliper Applied Ground Level To First Branches Of Tree.....	6.08	
	32 94 49 00-0013	EA	Tree Wrap, 1" To 2" Caliper Applied Ground Level To First Branches Of Tree.....	10.16	
	32 94 49 00-0014	EA	Tree Wrap, >2" To 4" Caliper Applied Ground Level To First Branches Of Tree.....	20.25	
	32 94 49 00-0015	EA	Tree Wrap, >4" To 6" Caliper Applied Ground Level To First Branches Of Tree.....	31.62	
32 94 49 00-0016 Tree Guards (32 94 49)					
	32 94 49 00-0017	EA	3' Preformed Plastic Tree Guard.....	9.91	
	32 94 49 00-0018	EA	2' Preformed Plastic Tree Guard.....	9.12	
32 94 49 00-0019 Stake Out Tree And Shrub Locations (32 94 49)					
Note: When no design available.					
	32 94 49 00-0020	EA	Stake Out Trees Or Shrubs.....	6.05	
32 94 49 00-0021 Root Barriers (32 94 49)					
	32 94 49 00-0022	EA	12" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	11.46	
	32 94 49 00-0023	EA	18" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	16.43	
	32 94 49 00-0024	EA	24" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	19.46	
	32 94 49 00-0025	EA	36" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	36.87	
	32 94 49 00-0026	EA	48" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	51.09	
32 96 Transplanting (32 96)					
See CSI section 32 94 49 00-0001 for guying.					
32 96 33 Shrub Transplanting (32 96)					
Note: Includes digging up, moving on site, digging new hole and replanting.					
32 96 33 00-0001 Moving Shrubs On Site, Relocate (32 96 33)					
Note: Includes digging up, moving on site, digging new hole and replanting. See CSI section 32 94 49 00-0001 for guying.					
	32 96 33 00-0002	EA	Up To 18" Root Ball, Move Shrubs On Site.....	67.82	
			For >25 To 50, Deduct	-6.78	
			For >50, Deduct	-10.17	
	32 96 33 00-0003	EA	>18" To 24" Root Ball, Move Shrubs On Site.....	91.75	
			For >25 To 50, Deduct	-9.18	
			For >50, Deduct	-13.76	
	32 96 33 00-0004	EA	>24" To 30" Root Ball, Move Shrubs On Site.....	155.57	
			For >25 To 50, Deduct	-15.56	
			For >50, Deduct	-23.34	
	32 96 33 00-0005	EA	>30" To 36" Root Ball, Move Shrubs On Site.....	239.34	
			For >25 To 50, Deduct	-23.93	
			For >50, Deduct	-35.90	

32 Exterior Improvements**32 90 Planting****32 96 Transplanting**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 96 43 Tree Transplanting (32 96)

Note: Includes digging up, moving on site, digging new hole and replanting.

32 96 43 00-0001 Moving Trees On Site, Relocate (32 96 43)

Note: Includes digging up, moving on site, digging new hole and replanting. Excludes crane where necessary for trees over 20' tall. See CSI section 01 22 23 00-0858 for crane lifting equipment, 32 94 49 00-0001 for guying.

32 96 43 00-0002	EA	Up To 24" Root Ball, Move Trees On Site.....	268.52
		<i>For >5 To 10, Deduct</i>	-13.43
		<i>For >10 To 20, Deduct</i>	-26.85
		<i>For >20, Deduct</i>	-40.28
32 96 43 00-0003	EA	>24" To 30" Root Ball, Move Trees On Site.....	368.25
		<i>For >5 To 10, Deduct</i>	-18.41
		<i>For >10 To 20, Deduct</i>	-36.83
		<i>For >20, Deduct</i>	-55.24
32 96 43 00-0004	EA	>30" To 36" Root Ball, Move Trees On Site.....	596.70
		<i>For >5 To 10, Deduct</i>	-29.84
		<i>For >10 To 20, Deduct</i>	-59.67
		<i>For >20, Deduct</i>	-89.51
32 96 43 00-0005	EA	>36" To 48" Root Ball, Move Trees On Site.....	991.43
		<i>For >5 To 10, Deduct</i>	-49.57
		<i>For >10 To 20, Deduct</i>	-99.14
		<i>For >20, Deduct</i>	-148.71
32 96 43 00-0006	EA	>48" To 60" Root Ball, Move Trees On Site.....	1,611.08
		<i>For >5 To 10, Deduct</i>	-80.55
		<i>For >10 To 20, Deduct</i>	-161.11
		<i>For >20, Deduct</i>	-241.66
32 96 43 00-0007	EA	>60" To 72" Root Ball, Move Trees On Site.....	2,078.82
		<i>For >5 To 10, Deduct</i>	-103.94
		<i>For >10 To 20, Deduct</i>	-207.88
		<i>For >20, Deduct</i>	-311.82
32 96 43 00-0008	EA	>72" To 84" Root Ball, Move Trees On Site.....	2,685.14
		<i>For >5 To 10, Deduct</i>	-134.26
		<i>For >10 To 20, Deduct</i>	-268.51
		<i>For >20, Deduct</i>	-402.77
32 96 43 00-0009	EA	>84" To 96" Root Ball, Move Trees On Site.....	3,222.16
		<i>For >5 To 10, Deduct</i>	-161.11
		<i>For >10 To 20, Deduct</i>	-322.22
		<i>For >20, Deduct</i>	-483.32
32 96 43 00-0010	EA	>96" To 120" Root Ball, Move Trees On Site.....	3,661.54
		<i>For >5 To 10, Deduct</i>	-183.08
		<i>For >10 To 20, Deduct</i>	-366.15
		<i>For >20, Deduct</i>	-549.23

END OF SECTION 32



MINOR	UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 Utilities

Note: Buried plastic pipe and conduit includes detectable tracer wire

33 01 Operation and Maintenance of Utilities ⁽³³⁾

33 01 10 Operation and Maintenance of Water Utilities ^(33 01)

33 01 10 54 **Cleaning of Water Utility Piping** ^(33 01 10)

See CSI section 33 01 30 41-0006 for cleaning of water lines.

33 01 10 58 **Disinfection of Water Utility Piping Systems** ^(33 01 10)

33 01 10 58-0001 **Water Main Disinfection/Sterilization** ^(33 01 10 58)

Note: Gas chlorination. Continuous or plug method.

33 01 10 58-0002	EA Setting Up And Removing Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	943.26	
33 01 10 58-0003	EA Re-Set Up/Move Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	471.63	
33 01 10 58-0004	LF Up To 4" Diameter Pipe Water Main Disinfection/Sterilization	0.35	
	For >250 To 500, Deduct	-0.02	
	For >500 To 1,000, Deduct	-0.04	
	For >1,000 To 2,000, Deduct	-0.05	
	For >2,000 To 5,000, Deduct	-0.07	
	For >5,000, Deduct	-0.09	
33 01 10 58-0005	LF 6" Diameter Pipe Water Main Disinfection/Sterilization	0.54	
	For >250 To 500, Deduct	-0.03	
	For >500 To 1,000, Deduct	-0.05	
	For >1,000 To 2,000, Deduct	-0.08	
	For >2,000 To 5,000, Deduct	-0.11	
	For >5,000, Deduct	-0.14	
33 01 10 58-0006	LF 8" Diameter Pipe Water Main Disinfection/Sterilization	0.71	
	For >250 To 500, Deduct	-0.04	
	For >500 To 1,000, Deduct	-0.07	
	For >1,000 To 2,000, Deduct	-0.11	
	For >2,000 To 5,000, Deduct	-0.14	
	For >5,000, Deduct	-0.18	
33 01 10 58-0007	LF 10" Diameter Pipe Water Main Disinfection/Sterilization	0.84	
	For >250 To 500, Deduct	-0.04	
	For >500 To 1,000, Deduct	-0.08	
	For >1,000 To 2,000, Deduct	-0.13	
	For >2,000 To 5,000, Deduct	-0.17	
	For >5,000, Deduct	-0.21	
33 01 10 58-0008	LF 12" Diameter Pipe Water Main Disinfection/Sterilization	1.08	
	For >250 To 500, Deduct	-0.05	
	For >500 To 1,000, Deduct	-0.11	
	For >1,000 To 2,000, Deduct	-0.16	
	For >2,000 To 5,000, Deduct	-0.22	
	For >5,000, Deduct	-0.27	
33 01 10 58-0009	LF >12" To 16" Diameter Pipe Water Main Disinfection/Sterilization	1.23	
	For >250 To 500, Deduct	-0.06	
	For >500 To 1,000, Deduct	-0.12	
	For >1,000 To 2,000, Deduct	-0.18	
	For >2,000 To 5,000, Deduct	-0.25	
	For >5,000, Deduct	-0.31	
33 01 10 58-0010	LF >16" To 24" Diameter Pipe Water Main Disinfection/Sterilization	1.41	
	For >250 To 500, Deduct	-0.07	
	For >500 To 1,000, Deduct	-0.14	
	For >1,000 To 2,000, Deduct	-0.21	
	For >2,000 To 5,000, Deduct	-0.28	
	For >5,000, Deduct	-0.35	
33 01 10 58-0011	LF >24" To 30" Diameter Pipe Water Main Disinfection/Sterilization	1.66	
	For >250 To 500, Deduct	-0.08	
	For >500 To 1,000, Deduct	-0.17	
	For >1,000 To 2,000, Deduct	-0.25	
	For >2,000 To 5,000, Deduct	-0.33	
	For >5,000, Deduct	-0.42	
33 01 10 58-0012	LF >30" To 42" Diameter Pipe Water Main Disinfection/Sterilization	2.14	
	For >250 To 500, Deduct	-0.11	
	For >500 To 1,000, Deduct	-0.21	
	For >1,000 To 2,000, Deduct	-0.32	
	For >2,000 To 5,000, Deduct	-0.43	
	For >5,000, Deduct	-0.54	
33 01 10 58-0013	LF >42" To 60" Diameter Pipe Water Main Disinfection/Sterilization	3.15	
	For >250 To 500, Deduct	-0.16	
	For >500 To 1,000, Deduct	-0.32	
	For >1,000 To 2,000, Deduct	-0.47	
	For >2,000 To 5,000, Deduct	-0.63	
	For >5,000, Deduct	-0.79	
33 01 10 58-0014	LF >60" Diameter Pipe Water Main Disinfection/Sterilization	4.36	
	For >250 To 500, Deduct	-0.22	
	For >500 To 1,000, Deduct	-0.44	
	For >1,000 To 2,000, Deduct	-0.65	
	For >2,000 To 5,000, Deduct	-0.87	
	For >5,000, Deduct	-1.09	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 10 Operation and Maintenance of Water Utilities**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 10 71 Relining Water Utilities Pipelines (33 01 10)

See CSI section 33 01 30 71-0000 for relining water pipelines.

33 01 10 71-0001	Relining Underground Water Pipelines	<small>(33 01 10 71)</small>	
	Note: Excludes costs for CCTV inspection, pipe cleaning, pavement; temporary and permanent, emergency after hours response for homeowners backups.		
33 01 10 71-0002	Relining Underground Water Pipelines Set-Up And Reinsertion	<small>(33 01 10 71-0001)</small>	
33 01 10 71-0003	EA Initial Set Up And Final Equipment Removal For Relining Underground Water Pipelines		5,144.61
33 01 10 71-0004	EA Move And Reset Up At Different Access/Location.....		2,057.84
33 01 10 71-0005	Lining Pipe With Cement	<small>(33 01 10 71-0001)</small>	
33 01 10 71-0006	LF Up To 500', 4" Pipe, 1/8" Pipe Lining With Cement.....		59.13
	For 3/16" Thickness, Add		1.24
	For 1/4" Thickness, Add		2.47
33 01 10 71-0007	LF >500' To 1,000', 4" Pipe, 1/8" Pipe Lining With Cement		52.73
	For 3/16" Thickness, Add		1.24
	For 1/4" Thickness, Add		2.47
33 01 10 71-0008	LF >1,000' To 5,000', 4" Pipe, 1/8" Pipe Lining With Cement		44.16
	For 3/16" Thickness, Add		1.24
	For 1/4" Thickness, Add		2.47
33 01 10 71-0009	LF >5,000', 4" Pipe, 1/8" Pipe Lining With Cement.....		33.40
	For 3/16" Thickness, Add		1.24
	For 1/4" Thickness, Add		2.47
33 01 10 71-0010	LF Up To 500', 6" Pipe, 1/8" Pipe Lining With Cement.....		61.83
	For 3/16" Thickness, Add		1.85
	For 1/4" Thickness, Add		3.70
33 01 10 71-0011	LF >500' To 1,000', 6" Pipe, 1/8" Pipe Lining With Cement		55.19
	For 3/16" Thickness, Add		1.85
	For 1/4" Thickness, Add		3.70
33 01 10 71-0012	LF >1,000' To 5,000', 6" Pipe, 1/8" Pipe Lining With Cement		46.33
	For 3/16" Thickness, Add		1.85
	For 1/4" Thickness, Add		3.70
33 01 10 71-0013	LF >5,000', 6" Pipe, 1/8" Pipe Lining With Cement.....		35.40
	For 3/16" Thickness, Add		1.85
	For 1/4" Thickness, Add		3.70
33 01 10 71-0014	LF Up To 500', 8" Pipe, 1/8" Pipe Lining With Cement.....		64.43
	For 3/16" Thickness, Add		2.46
	For 1/4" Thickness, Add		4.92
33 01 10 71-0015	LF >500' To 1,000', 8" Pipe, 1/8" Pipe Lining With Cement		57.64
	For 3/16" Thickness, Add		2.46
	For 1/4" Thickness, Add		4.92
33 01 10 71-0016	LF >1,000' To 5,000', 8" Pipe, 1/8" Pipe Lining With Cement		48.47
	For 3/16" Thickness, Add		2.46
	For 1/4" Thickness, Add		4.92
33 01 10 71-0017	LF >5,000', 8" Pipe, 1/8" Pipe Lining With Cement		37.41
	For 3/16" Thickness, Add		2.46
	For 1/4" Thickness, Add		4.92
33 01 10 71-0018	LF Up To 500', 10" Pipe, 1/8" Pipe Lining With Cement.....		66.51
	For 3/16" Thickness, Add		3.09
	For 1/4" Thickness, Add		6.17
33 01 10 71-0019	LF >500' To 1,000', 10" Pipe, 1/8" Pipe Lining With Cement		59.60
	For 3/16" Thickness, Add		3.09
	For 1/4" Thickness, Add		6.17
33 01 10 71-0020	LF >1,000' To 5,000', 10" Pipe, 1/8" Pipe Lining With Cement		50.31
	For 3/16" Thickness, Add		3.09
	For 1/4" Thickness, Add		6.17
33 01 10 71-0021	LF >5,000', 10" Pipe, 1/8" Pipe Lining With Cement.....		39.45
	For 3/16" Thickness, Add		3.09
	For 1/4" Thickness, Add		6.17
33 01 10 71-0022	LF Up To 500', 12" Pipe, 1/8" Pipe Lining With Cement.....		72.08
	For 3/16" Thickness, Add		3.70
	For 1/4" Thickness, Add		7.39
33 01 10 71-0023	LF >500' To 1,000', 12" Pipe, 1/8" Pipe Lining With Cement		64.75
	For 3/16" Thickness, Add		3.70
	For 1/4" Thickness, Add		7.39
33 01 10 71-0024	LF >1,000' To 5,000', 12" Pipe, 1/8" Pipe Lining With Cement		54.85
	For 3/16" Thickness, Add		3.70
	For 1/4" Thickness, Add		7.39
33 01 10 71-0025	LF >5,000', 12" Pipe, 1/8" Pipe Lining With Cement.....		43.11
	For 3/16" Thickness, Add		3.70
	For 1/4" Thickness, Add		7.39
33 01 10 71-0026	LF Up To 500', >12" To 16" Pipe, 3/16" Pipe Lining With Cement.....		78.99
	For 1/4" Thickness, Add		4.11
	For 5/16" Thickness, Add		8.23
33 01 10 71-0027	LF >500' To 1,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement.....		71.38
	For 1/4" Thickness, Add		4.11
	For 5/16" Thickness, Add		8.23
33 01 10 71-0028	LF >1,000' To 5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement.....		61.08
	For 1/4" Thickness, Add		4.11
	For 5/16" Thickness, Add		8.23
33 01 10 71-0029	LF >5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement.....		49.83
	For 1/4" Thickness, Add		4.11
	For 5/16" Thickness, Add		8.23



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0030 LF Up To 500', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	83.38	
<i>For 1/4" Thickness, Add</i>	4.93	
<i>For 5/16" Thickness, Add</i>	9.85	
33 01 10 71-0031 LF >500' To 1,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	75.55	
<i>For 1/4" Thickness, Add</i>	4.93	
<i>For 5/16" Thickness, Add</i>	9.85	
33 01 10 71-0032 LF >1,000' To 5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	64.89	
<i>For 1/4" Thickness, Add</i>	4.93	
<i>For 5/16" Thickness, Add</i>	9.85	
33 01 10 71-0033 LF >5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	54.22	
<i>For 1/4" Thickness, Add</i>	4.93	
<i>For 5/16" Thickness, Add</i>	9.85	
33 01 10 71-0034 LF Up To 500', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	88.71	
<i>For 1/4" Thickness, Add</i>	5.75	
<i>For 5/16" Thickness, Add</i>	11.51	
33 01 10 71-0035 LF >500' To 1,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	80.59	
<i>For 1/4" Thickness, Add</i>	5.75	
<i>For 5/16" Thickness, Add</i>	11.51	
33 01 10 71-0036 LF >1,000' To 5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	69.42	
<i>For 1/4" Thickness, Add</i>	5.75	
<i>For 5/16" Thickness, Add</i>	11.51	
33 01 10 71-0037 LF >5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	59.45	
<i>For 1/4" Thickness, Add</i>	5.75	
<i>For 5/16" Thickness, Add</i>	11.51	
33 01 10 71-0038 LF Up To 500', 24" Pipe, 3/16" Pipe Lining With Cement	94.11	
<i>For 1/4" Thickness, Add</i>	6.58	
<i>For 5/16" Thickness, Add</i>	13.15	
33 01 10 71-0039 LF >500' To 1,000', 24" Pipe, 3/16" Pipe Lining With Cement	85.66	
<i>For 1/4" Thickness, Add</i>	6.58	
<i>For 5/16" Thickness, Add</i>	13.15	
33 01 10 71-0040 LF >1,000' To 5,000', 24" Pipe, 3/16" Pipe Lining With Cement	74.15	
<i>For 1/4" Thickness, Add</i>	6.58	
<i>For 5/16" Thickness, Add</i>	13.15	
33 01 10 71-0041 LF >5,000', 24" Pipe, 3/16" Pipe Lining With Cement	64.84	
<i>For 1/4" Thickness, Add</i>	6.58	
<i>For 5/16" Thickness, Add</i>	13.15	
33 01 10 71-0042 LF Up To 500', 30" Pipe, 3/16" Pipe Lining With Cement	101.87	
<i>For 1/4" Thickness, Add</i>	8.22	
<i>For 5/16" Thickness, Add</i>	16.43	
33 01 10 71-0043 LF >500' To 1,000', 30" Pipe, 3/16" Pipe Lining With Cement	92.93	
<i>For 1/4" Thickness, Add</i>	8.22	
<i>For 5/16" Thickness, Add</i>	16.43	
33 01 10 71-0044 LF >1,000' To 5,000', 30" Pipe, 3/16" Pipe Lining With Cement	80.73	
<i>For 1/4" Thickness, Add</i>	8.22	
<i>For 5/16" Thickness, Add</i>	16.43	
33 01 10 71-0045 LF >5,000', 30" Pipe, 3/16" Pipe Lining With Cement	71.34	
<i>For 1/4" Thickness, Add</i>	8.22	
<i>For 5/16" Thickness, Add</i>	16.43	
33 01 10 71-0046 LF Up To 500', 36" Pipe, 3/16" Pipe Lining With Cement	109.54	
<i>For 1/4" Thickness, Add</i>	9.86	
<i>For 5/16" Thickness, Add</i>	19.73	
33 01 10 71-0047 LF 500' To 1,000', 36" Pipe, 3/16" Pipe Lining With Cement	100.22	
<i>For 1/4" Thickness, Add</i>	9.86	
<i>For 5/16" Thickness, Add</i>	19.73	
33 01 10 71-0048 LF >1,000' To 5,000', 36" Pipe, 3/16" Pipe Lining With Cement	87.33	
<i>For 1/4" Thickness, Add</i>	9.86	
<i>For 5/16" Thickness, Add</i>	19.73	
33 01 10 71-0049 LF >5,000', 36" Pipe, 3/16" Pipe Lining With Cement	77.84	
<i>For 1/4" Thickness, Add</i>	9.86	
<i>For 5/16" Thickness, Add</i>	19.73	
33 01 10 71-0050 LF Up To 500', 42" Pipe, 1/4" Pipe Lining With Cement	139.16	
<i>For 3/8" Thickness, Add</i>	25.89	
<i>For 7/16" Thickness, Add</i>	38.83	
33 01 10 71-0051 LF >500' To 1,000', 42" Pipe, 1/4" Pipe Lining With Cement	129.00	
<i>For 3/8" Thickness, Add</i>	25.89	
<i>For 7/16" Thickness, Add</i>	38.83	
33 01 10 71-0052 LF >1,000' To 5,000', 42" Pipe, 1/4" Pipe Lining With Cement	114.99	
<i>For 3/8" Thickness, Add</i>	25.89	
<i>For 7/16" Thickness, Add</i>	38.83	
33 01 10 71-0053 LF >5,000', 42" Pipe, 1/4" Pipe Lining With Cement	105.20	
<i>For 3/8" Thickness, Add</i>	25.89	
<i>For 7/16" Thickness, Add</i>	38.83	
33 01 10 71-0054 LF Up To 500', 48" Pipe, 1/4" Pipe Lining With Cement	153.90	
<i>For 3/8" Thickness, Add</i>	29.58	
<i>For 7/16" Thickness, Add</i>	44.37	
33 01 10 71-0055 LF >500' To 1,000', 48" Pipe, 1/4" Pipe Lining With Cement	143.02	
<i>For 3/8" Thickness, Add</i>	29.58	
<i>For 7/16" Thickness, Add</i>	44.37	
33 01 10 71-0056 LF >1,000' To 5,000', 48" Pipe, 1/4" Pipe Lining With Cement	127.96	
<i>For 3/8" Thickness, Add</i>	29.58	
<i>For 7/16" Thickness, Add</i>	44.37	
33 01 10 71-0057 LF >5,000', 48" Pipe, 1/4" Pipe Lining With Cement	117.97	
<i>For 3/8" Thickness, Add</i>	29.58	
<i>For 7/16" Thickness, Add</i>	44.37	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 10 Operation and Maintenance of Water Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0058 LF Up To 500', 54" Pipe, 1/4" Pipe Lining With Cement.....	163.05	
For 3/8" Thickness, Add	33.28	
For 7/16" Thickness, Add	49.91	
33 01 10 71-0059 LF >500' To 1,000', 54" Pipe, 1/4" Pipe Lining With Cement	151.94	
For 3/8" Thickness, Add	33.28	
For 7/16" Thickness, Add	49.91	
33 01 10 71-0060 LF >1,000' To 5,000', 54" Pipe, 1/4" Pipe Lining With Cement	136.53	
For 3/8" Thickness, Add	33.28	
For 7/16" Thickness, Add	49.91	
33 01 10 71-0061 LF >5,000', 54" Pipe, 1/4" Pipe Lining With Cement	126.94	
For 3/8" Thickness, Add	33.28	
For 7/16" Thickness, Add	49.91	
33 01 10 71-0062 LF Up To 500', 60" Pipe, 1/4" Pipe Lining With Cement.....	172.22	
For 3/8" Thickness, Add	36.98	
For 7/16" Thickness, Add	55.47	
33 01 10 71-0063 LF >500' To 1,000', 60" Pipe, 1/4" Pipe Lining With Cement	160.91	
For 3/8" Thickness, Add	36.98	
For 7/16" Thickness, Add	55.47	
33 01 10 71-0064 LF >1,000' To 5,000', 60" Pipe, 1/4" Pipe Lining With Cement	145.21	
For 3/8" Thickness, Add	36.98	
For 7/16" Thickness, Add	55.47	
33 01 10 71-0065 LF >5,000', 60" Pipe, 1/4" Pipe Lining With Cement	135.91	
For 3/8" Thickness, Add	36.98	
For 7/16" Thickness, Add	55.47	
33 01 10 71-0066 LF Up To 500', 66" Pipe, 1/4" Pipe Lining With Cement.....	181.68	
For 3/8" Thickness, Add	40.68	
For 7/16" Thickness, Add	61.02	
33 01 10 71-0067 LF >500' To 1,000', 66" Pipe, 1/4" Pipe Lining With Cement	170.13	
For 3/8" Thickness, Add	40.68	
For 7/16" Thickness, Add	61.02	
33 01 10 71-0068 LF >1,000' To 5,000', 66" Pipe, 1/4" Pipe Lining With Cement	154.17	
For 3/8" Thickness, Add	40.68	
For 7/16" Thickness, Add	61.02	
33 01 10 71-0069 LF >5,000', 66" Pipe, 1/4" Pipe Lining With Cement	145.56	
For 3/8" Thickness, Add	40.68	
For 7/16" Thickness, Add	61.02	
33 01 10 71-0070 LF Up To 500', 72" Pipe, 1/4" Pipe Lining With Cement.....	191.51	
For 3/8" Thickness, Add	44.38	
For 7/16" Thickness, Add	66.56	
33 01 10 71-0071 LF >500' To 1,000', 72" Pipe, 1/4" Pipe Lining With Cement	179.76	
For 3/8" Thickness, Add	44.38	
For 7/16" Thickness, Add	66.56	
33 01 10 71-0072 LF >1,000' To 5,000', 72" Pipe, 1/4" Pipe Lining With Cement	163.43	
For 3/8" Thickness, Add	44.38	
For 7/16" Thickness, Add	66.56	
33 01 10 71-0073 LF >5,000', 72" Pipe, 1/4" Pipe Lining With Cement	155.30	
For 3/8" Thickness, Add	44.38	
For 7/16" Thickness, Add	66.56	

33 01 30 Operation and Maintenance of Sewer Utilities (33 01)**33 01 30 11 Television Inspection Of Pipelines** (33 01 30)

Note: Rotating head color camera. Includes all log records and color video tape, DVD or CD.

33 01 30 11-0001 Remote Visual Inspection (RVI) Of Pipe Interior And Culverts (33 01 30 11)**33 01 30 11-0002 Video Camera Set-up** (33 01 30 11-0001)

33 01 30 11-0003 EA Initial Set Up For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert	889.17	
Note: A "push camera" is a straight view camera at the end of a rigid push rod for 1"-12" diameter pipes for distances up to 300 feet.		
33 01 30 11-0004 EA Initial Set Up For "Crawler" Video Camera Inspection, 4" To 30" Diameter Pipe Or Culvert.....	1,778.33	
Note: Crawlers are generally remotely operated vehicles (ROVs) for longer distances (over 300') and for larger diameters (4" and larger).		
33 01 30 11-0005 EA Initial Set Up For "Crawler" Video Camera Inspection, >30" Diameter Pipe Or Culvert	2,667.49	
33 01 30 11-0006 EA Re-Set Up/Move For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert.....	444.58	
33 01 30 11-0007 EA Re-Set Up/Move For "Crawler" Video Camera Inspection, 4" And Larger Diameter Pipe Or Culvert	889.17	

33 01 30 11-0008 Video Camera Planning And Analysis Inspection (33 01 30 11-0001)

Note: For pipe interior and culverts.

33 01 30 11-0009 LF 4" To 6" Diameter Pipe Inspection, Planning/Analysis Phase	2.26	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.23	
For >1,000 To 5,000, Deduct	-0.57	
For >5,000, Deduct	-0.79	
33 01 30 11-0010 LF >6" To 12" Diameter Pipe Inspection, Planning/Analysis Phase	3.01	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.30	
For >1,000 To 5,000, Deduct	-0.75	
For >5,000, Deduct	-1.05	
33 01 30 11-0011 LF >12" To 21" Diameter Pipe Inspection, Planning/Analysis Phase	3.76	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.38	
For >1,000 To 5,000, Deduct	-0.94	
For >5,000, Deduct	-1.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0012 LF >21" To 30" Diameter Pipe Inspection, Planning/Analysis Phase.....	5.01	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.50	
For >1,000 To 5,000, Deduct	-1.25	
For >5,000, Deduct	-1.75	
33 01 30 11-0013 LF >30" To 42" Diameter Pipe Inspection, Planning/Analysis Phase.....	7.05	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.71	
For >1,000 To 5,000, Deduct	-1.76	
For >5,000, Deduct	-2.47	
33 01 30 11-0014 LF >42" To 60" Diameter Pipe Inspection, Planning/Analysis Phase.....	9.39	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.94	
For >1,000 To 5,000, Deduct	-2.35	
For >5,000, Deduct	-3.29	
33 01 30 11-0015 LF >60" To 72" Diameter Pipe Inspection, Planning/Analysis Phase.....	13.26	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.33	
For >1,000 To 5,000, Deduct	-3.32	
For >5,000, Deduct	-4.64	
33 01 30 11-0016 LF >72" To 84" Diameter Pipe Inspection, Planning/Analysis Phase.....	18.79	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.88	
For >1,000 To 5,000, Deduct	-4.70	
For >5,000, Deduct	-6.58	
33 01 30 11-0017 Video Camera Pre-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)		
33 01 30 11-0018 LF 4" To 6" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	3.33	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.33	
For >1,000 To 5,000, Deduct	-0.83	
For >5,000, Deduct	-1.17	
33 01 30 11-0019 LF >6" To 12" Diameter Pipe Inspection, Pre-Rehabilitation Phase	4.45	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.45	
For >1,000 To 5,000, Deduct	-1.11	
For >5,000, Deduct	-1.56	
33 01 30 11-0020 LF >12" To 21" Diameter Pipe Inspection, Pre-Rehabilitation Phase	5.55	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.56	
For >1,000 To 5,000, Deduct	-1.39	
For >5,000, Deduct	-1.94	
33 01 30 11-0021 LF >21" To 30" Diameter Pipe Inspection, Pre-Rehabilitation Phase	7.41	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.74	
For >1,000 To 5,000, Deduct	-1.85	
For >5,000, Deduct	-2.59	
33 01 30 11-0022 LF >30" To 42" Diameter Pipe Inspection, Pre-Rehabilitation Phase	10.42	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.04	
For >1,000 To 5,000, Deduct	-2.61	
For >5,000, Deduct	-3.65	
33 01 30 11-0023 LF >42" To 60" Diameter Pipe Inspection, Pre-Rehabilitation Phase	13.90	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.39	
For >1,000 To 5,000, Deduct	-3.48	
For >5,000, Deduct	-4.87	
33 01 30 11-0024 LF >60" To 72" Diameter Pipe Inspection, Pre-Rehabilitation Phase	19.62	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.96	
For >1,000 To 5,000, Deduct	-4.91	
For >5,000, Deduct	-6.87	
33 01 30 11-0025 LF >72" To 84" Diameter Pipe Inspection, Pre-Rehabilitation Phase	27.78	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-2.78	
For >1,000 To 5,000, Deduct	-6.95	
For >5,000, Deduct	-9.72	
33 01 30 11-0026 Video Camera Post-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)		
33 01 30 11-0027 LF 4" To 6" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	2.39	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.24	
For >1,000 To 5,000, Deduct	-0.60	
For >5,000, Deduct	-0.84	
33 01 30 11-0028 LF >6" To 12" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	3.18	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.32	
For >1,000 To 5,000, Deduct	-0.80	
For >5,000, Deduct	-1.11	
33 01 30 11-0029 LF >12" To 21" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	3.97	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.40	
For >1,000 To 5,000, Deduct	-0.99	
For >5,000, Deduct	-1.39	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0030 LF >21" To 30" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	5.30	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.53	
For >1,000 To 5,000, Deduct	-1.33	
For >5,000, Deduct	-1.86	
33 01 30 11-0031 LF >30" To 42" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	7.44	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.74	
For >1,000 To 5,000, Deduct	-1.86	
For >5,000, Deduct	-2.60	
33 01 30 11-0032 LF >42" To 60" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	9.93	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.99	
For >1,000 To 5,000, Deduct	-2.48	
For >5,000, Deduct	-3.48	
33 01 30 11-0033 LF >60" To 72" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	14.01	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.40	
For >1,000 To 5,000, Deduct	-3.50	
For >5,000, Deduct	-4.90	
33 01 30 11-0034 LF >72" To 84" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	19.85	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.99	
For >1,000 To 5,000, Deduct	-4.96	
For >5,000, Deduct	-6.95	
33 01 30 41 Cleaning of Sewers <small>(33 01 30)</small>		
33 01 30 41-0001 Pipe Line Cleaning And Flushing <small>(33 01 30 41)</small>		
Note: Includes flushing. Owner provided water.		
33 01 30 41-0002 Pipe Line Cleaning <small>(33 01 30 41-0001)</small>		
Note: Includes removal of all debris/waste. Excludes disposal.		
33 01 30 41-0003 Hydro Jet Set-up And Reinsertion <small>(33 01 30 41-0002)</small>		
33 01 30 41-0004 EA Initial Set Up And Final Equipment Removal For Jet Cleaning.....	2,602.29	
33 01 30 41-0005 EA Move And Reset Up At Different Access/Location For Jet Cleaning.....	650.58	
33 01 30 41-0006 Hydro Jet Cleaning Of Sewer And Water Pipelines <small>(33 01 30 41-0002)</small>		
33 01 30 41-0007 LF Up To 4" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	3.50	
For >250 To 500, Deduct	-0.18	
For >500 To 1,000, Deduct	-0.35	
For >1,000 To 2,000, Deduct	-0.53	
For >2,000 To 5,000, Deduct	-0.70	
For >5,000, Deduct	-0.88	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	2.63	
33 01 30 41-0008 LF 6" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	4.02	
For >250 To 500, Deduct	-0.20	
For >500 To 1,000, Deduct	-0.40	
For >1,000 To 2,000, Deduct	-0.60	
For >2,000 To 5,000, Deduct	-0.80	
For >5,000, Deduct	-1.01	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	3.02	
33 01 30 41-0009 LF 8" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	4.72	
For >250 To 500, Deduct	-0.24	
For >500 To 1,000, Deduct	-0.47	
For >1,000 To 2,000, Deduct	-0.71	
For >2,000 To 5,000, Deduct	-0.94	
For >5,000, Deduct	-1.18	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	3.54	
33 01 30 41-0010 LF 10" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	5.83	
For >250 To 500, Deduct	-0.29	
For >500 To 1,000, Deduct	-0.58	
For >1,000 To 2,000, Deduct	-0.87	
For >2,000 To 5,000, Deduct	-1.17	
For >5,000, Deduct	-1.46	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	4.37	
33 01 30 41-0011 LF 12" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	6.61	
For >250 To 500, Deduct	-0.33	
For >500 To 1,000, Deduct	-0.66	
For >1,000 To 2,000, Deduct	-0.99	
For >2,000 To 5,000, Deduct	-1.32	
For >5,000, Deduct	-1.65	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	4.96	
33 01 30 41-0012 LF >12" To 16" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	7.63	
For >250 To 500, Deduct	-0.38	
For >500 To 1,000, Deduct	-0.76	
For >1,000 To 2,000, Deduct	-1.14	
For >2,000 To 5,000, Deduct	-1.53	
For >5,000, Deduct	-1.91	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	5.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0013 LF >16" To 24" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	9.19	
<i>For >250 To 500, Deduct</i>	-0.46	
<i>For >500 To 1,000, Deduct</i>	-0.92	
<i>For >1,000 To 2,000, Deduct</i>	-1.38	
<i>For >2,000 To 5,000, Deduct</i>	-1.84	
<i>For >5,000, Deduct</i>	-2.30	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	6.89	
33 01 30 41-0014 LF >24" To 30" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	10.43	
<i>For >250 To 500, Deduct</i>	-0.52	
<i>For >500 To 1,000, Deduct</i>	-1.04	
<i>For >1,000 To 2,000, Deduct</i>	-1.56	
<i>For >2,000 To 5,000, Deduct</i>	-2.09	
<i>For >5,000, Deduct</i>	-2.61	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	7.82	
33 01 30 41-0015 LF >30" To 42" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	12.32	
<i>For >250 To 500, Deduct</i>	-0.62	
<i>For >500 To 1,000, Deduct</i>	-1.23	
<i>For >1,000 To 2,000, Deduct</i>	-1.85	
<i>For >2,000 To 5,000, Deduct</i>	-2.46	
<i>For >5,000, Deduct</i>	-3.08	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	9.24	
33 01 30 41-0016 LF >42" To 60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	15.49	
<i>For >250 To 500, Deduct</i>	-0.77	
<i>For >500 To 1,000, Deduct</i>	-1.55	
<i>For >1,000 To 2,000, Deduct</i>	-2.32	
<i>For >2,000 To 5,000, Deduct</i>	-3.10	
<i>For >5,000, Deduct</i>	-3.87	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	11.62	
33 01 30 41-0017 LF >60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	18.07	
<i>For >250 To 500, Deduct</i>	-0.90	
<i>For >500 To 1,000, Deduct</i>	-1.81	
<i>For >1,000 To 2,000, Deduct</i>	-2.71	
<i>For >2,000 To 5,000, Deduct</i>	-3.61	
<i>For >5,000, Deduct</i>	-4.52	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	13.55	
33 01 30 41-0018 Flushing Of Storm Water Pipelines (33 01 30 41-0002)		
Note: To remove silt and small debris from storm drainage pipes. Excludes disposal.		
33 01 30 41-0019 LF 12" To 16" Diameter Pipe Line Flushing.....	1.28	
<i>For >250 To 500, Deduct</i>	-0.06	
<i>For >500 To 1,000, Deduct</i>	-0.13	
<i>For >1,000 To 2,000, Deduct</i>	-0.19	
<i>For >2,000 To 5,000, Deduct</i>	-0.26	
<i>For >5,000, Deduct</i>	-0.32	
33 01 30 41-0020 LF >16" To 24" Diameter Pipe Line Flushing.....	1.47	
<i>For >250 To 500, Deduct</i>	-0.07	
<i>For >500 To 1,000, Deduct</i>	-0.15	
<i>For >1,000 To 2,000, Deduct</i>	-0.22	
<i>For >2,000 To 5,000, Deduct</i>	-0.29	
<i>For >5,000, Deduct</i>	-0.37	
33 01 30 41-0021 LF >24" To 30" Diameter Pipe Line Flushing.....	1.73	
<i>For >250 To 500, Deduct</i>	-0.09	
<i>For >500 To 1,000, Deduct</i>	-0.17	
<i>For >1,000 To 2,000, Deduct</i>	-0.26	
<i>For >2,000 To 5,000, Deduct</i>	-0.35	
<i>For >5,000, Deduct</i>	-0.43	
33 01 30 41-0022 LF >30" To 42" Diameter Pipe Line Flushing.....	1.99	
<i>For >250 To 500, Deduct</i>	-0.10	
<i>For >500 To 1,000, Deduct</i>	-0.20	
<i>For >1,000 To 2,000, Deduct</i>	-0.30	
<i>For >2,000 To 5,000, Deduct</i>	-0.40	
<i>For >5,000, Deduct</i>	-0.50	
33 01 30 41-0023 LF >42" To 60" Diameter Pipe Line Flushing.....	2.64	
<i>For >250 To 500, Deduct</i>	-0.13	
<i>For >500 To 1,000, Deduct</i>	-0.26	
<i>For >1,000 To 2,000, Deduct</i>	-0.40	
<i>For >2,000 To 5,000, Deduct</i>	-0.53	
<i>For >5,000, Deduct</i>	-0.66	
33 01 30 41-0024 Hydro Jet Cleaning Of Culverts (33 01 30 41-0002)		
33 01 30 41-0025 LF Jet Cleaning Of Culvert, 0-250 LF.....	16.19	
<i>For >250 To 500, Deduct</i>	-0.81	
<i>For >500 To 1,000, Deduct</i>	-1.62	
<i>For >1,000 To 2,000, Deduct</i>	-2.43	
<i>For >2,000 To 5,000, Deduct</i>	-3.24	
<i>For >5,000, Deduct</i>	-4.05	
33 01 30 41-0026 Pipe Line Cleaning, Mechanical Method (33 01 30 41-0001)		
Note: Power winching buckets, scrapers, scooters, porcupines, brushes and other debris removing equipment. Includes removal of all debris/waste. Excludes disposal.		
33 01 30 41-0027 EA Initial Set Up And Final Equipment Removal For Mechanical Cleaning.....	1,131.91	
33 01 30 41-0028 EA Move And Reset Up At Different Access/Location.....	377.30	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0029 LF Up To 4" Diameter Pipe Line Cleaning, Mechanical Method	6.57	
For >250 To 500, Deduct	-0.31	
For >500 To 1,000, Deduct	-0.63	
For >1,000 To 2,000, Deduct	-0.94	
For >2,000 To 5,000, Deduct	-1.26	
For >5,000, Deduct	-1.57	
33 01 30 41-0030 LF 6" Diameter Pipe Line Cleaning, Mechanical Method	8.64	
For >250 To 500, Deduct	-0.40	
For >500 To 1,000, Deduct	-0.81	
For >1,000 To 2,000, Deduct	-1.21	
For >2,000 To 5,000, Deduct	-1.62	
For >5,000, Deduct	-2.02	
33 01 30 41-0031 LF 8" Diameter Pipe Line Cleaning, Mechanical Method	10.14	
For >250 To 500, Deduct	-0.47	
For >500 To 1,000, Deduct	-0.94	
For >1,000 To 2,000, Deduct	-1.42	
For >2,000 To 5,000, Deduct	-1.89	
For >5,000, Deduct	-2.36	
33 01 30 41-0032 LF 10" Diameter Pipe Line Cleaning, Mechanical Method	11.72	
For >250 To 500, Deduct	-0.54	
For >500 To 1,000, Deduct	-1.09	
For >1,000 To 2,000, Deduct	-1.63	
For >2,000 To 5,000, Deduct	-2.18	
For >5,000, Deduct	-2.72	
33 01 30 41-0033 LF 12" Diameter Pipe Line Cleaning, Mechanical Method	12.77	
For >250 To 500, Deduct	-0.59	
For >500 To 1,000, Deduct	-1.18	
For >1,000 To 2,000, Deduct	-1.77	
For >2,000 To 5,000, Deduct	-2.36	
For >5,000, Deduct	-2.95	
33 01 30 41-0034 LF >12" To 16" Diameter Pipe Line Cleaning, Mechanical Method	14.73	
For >250 To 500, Deduct	-0.67	
For >500 To 1,000, Deduct	-1.35	
For >1,000 To 2,000, Deduct	-2.02	
For >2,000 To 5,000, Deduct	-2.70	
For >5,000, Deduct	-3.37	
33 01 30 41-0035 LF >16" To 24" Diameter Pipe Line Cleaning, Mechanical Method	18.59	
For >250 To 500, Deduct	-0.83	
For >500 To 1,000, Deduct	-1.66	
For >1,000 To 2,000, Deduct	-2.50	
For >2,000 To 5,000, Deduct	-3.33	
For >5,000, Deduct	-4.16	
33 01 30 41-0036 LF >24" To 30" Diameter Pipe Line Cleaning, Mechanical Method	21.35	
For >250 To 500, Deduct	-0.93	
For >500 To 1,000, Deduct	-1.86	
For >1,000 To 2,000, Deduct	-2.78	
For >2,000 To 5,000, Deduct	-3.71	
For >5,000, Deduct	-4.64	
33 01 30 41-0037 LF >30" To 42" Diameter Pipe Line Cleaning, Mechanical Method	24.84	
For >250 To 500, Deduct	-1.07	
For >500 To 1,000, Deduct	-2.14	
For >1,000 To 2,000, Deduct	-3.20	
For >2,000 To 5,000, Deduct	-4.27	
For >5,000, Deduct	-5.34	
33 01 30 41-0038 LF >42 To 60" Diameter Pipe Line Cleaning, Mechanical Method	32.48	
For >250 To 500, Deduct	-1.42	
For >500 To 1,000, Deduct	-2.83	
For >1,000 To 2,000, Deduct	-4.25	
For >2,000 To 5,000, Deduct	-5.66	
For >5,000, Deduct	-7.08	
33 01 30 41-0039 LF >60" Diameter Pipe Line Cleaning, Mechanical Method	37.01	
For >250 To 500, Deduct	-1.57	
For >500 To 1,000, Deduct	-3.14	
For >1,000 To 2,000, Deduct	-4.72	
For >2,000 To 5,000, Deduct	-6.29	
For >5,000, Deduct	-7.86	
33 01 30 41-0040 Pipe Line Auguring/Rod Out Pipe <small>(33 01 30 41-0001)</small>		
33 01 30 41-0041 EA Initial Set Up And Final Equipment Removal For Auguring	1,131.91	
33 01 30 41-0042 EA Move And Reset Up At Different Location	377.30	
33 01 30 41-0043 LF Up To 4" Diameter Pipe Line Auguring/Rod Out	3.77	
For >250 To 500, Deduct	-0.19	
For >500 To 1,000, Deduct	-0.38	
For >1,000 To 2,000, Deduct	-0.57	
For >2,000 To 5,000, Deduct	-0.75	
For >5,000, Deduct	-0.94	
33 01 30 41-0044 LF 6" Diameter Pipe Line Auguring/Rod Out	4.88	
For >250 To 500, Deduct	-0.24	
For >500 To 1,000, Deduct	-0.49	
For >1,000 To 2,000, Deduct	-0.73	
For >2,000 To 5,000, Deduct	-0.98	
For >5,000, Deduct	-1.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0045 LF 8" Diameter Pipe Line Auguring/Rod Out	5.66	
<i>For >250 To 500, Deduct</i>	-0.28	
<i>For >500 To 1,000, Deduct</i>	-0.57	
<i>For >1,000 To 2,000, Deduct</i>	-0.85	
<i>For >2,000 To 5,000, Deduct</i>	-1.13	
<i>For >5,000, Deduct</i>	-1.42	
33 01 30 41-0046 LF 10" Diameter Pipe Line Auguring/Rod Out	6.58	
<i>For >250 To 500, Deduct</i>	-0.33	
<i>For >500 To 1,000, Deduct</i>	-0.66	
<i>For >1,000 To 2,000, Deduct</i>	-0.99	
<i>For >2,000 To 5,000, Deduct</i>	-1.32	
<i>For >5,000, Deduct</i>	-1.65	
33 01 30 41-0047 LF 12" Diameter Pipe Line Auguring/Rod Out	7.08	
<i>For >250 To 500, Deduct</i>	-0.35	
<i>For >500 To 1,000, Deduct</i>	-0.71	
<i>For >1,000 To 2,000, Deduct</i>	-1.06	
<i>For >2,000 To 5,000, Deduct</i>	-1.42	
<i>For >5,000, Deduct</i>	-1.77	
33 01 30 41-0048 LF >12" To 16" Diameter Pipe Line Auguring/Rod Out	8.08	
<i>For >250 To 500, Deduct</i>	-0.40	
<i>For >500 To 1,000, Deduct</i>	-0.81	
<i>For >1,000 To 2,000, Deduct</i>	-1.21	
<i>For >2,000 To 5,000, Deduct</i>	-1.62	
<i>For >5,000, Deduct</i>	-2.02	
33 01 30 41-0049 LF >16" To 24" Diameter Pipe Line Auguring/Rod Out	9.93	
<i>For >250 To 500, Deduct</i>	-0.50	
<i>For >500 To 1,000, Deduct</i>	-0.99	
<i>For >1,000 To 2,000, Deduct</i>	-1.49	
<i>For >2,000 To 5,000, Deduct</i>	-1.99	
<i>For >5,000, Deduct</i>	-2.48	
33 01 30 41-0050 LF >24" To 30" Diameter Pipe Line Auguring/Rod Out	11.10	
<i>For >250 To 500, Deduct</i>	-0.56	
<i>For >500 To 1,000, Deduct</i>	-1.11	
<i>For >1,000 To 2,000, Deduct</i>	-1.67	
<i>For >2,000 To 5,000, Deduct</i>	-2.22	
<i>For >5,000, Deduct</i>	-2.78	
33 01 30 41-0051 LF >30" To 42" Diameter Pipe Line Auguring/Rod Out	12.86	
<i>For >250 To 500, Deduct</i>	-0.64	
<i>For >500 To 1,000, Deduct</i>	-1.29	
<i>For >1,000 To 2,000, Deduct</i>	-1.93	
<i>For >2,000 To 5,000, Deduct</i>	-2.57	
<i>For >5,000, Deduct</i>	-3.22	
33 01 30 41-0052 LF >42 To 60" Diameter Pipe Line Auguring/Rod Out	17.69	
<i>For >250 To 500, Deduct</i>	-0.88	
<i>For >500 To 1,000, Deduct</i>	-1.77	
<i>For >1,000 To 2,000, Deduct</i>	-2.65	
<i>For >2,000 To 5,000, Deduct</i>	-3.54	
<i>For >5,000, Deduct</i>	-4.42	
33 01 30 41-0053 LF >60" Diameter Pipe Line Auguring/Rod Out	18.86	
<i>For >250 To 500, Deduct</i>	-0.94	
<i>For >500 To 1,000, Deduct</i>	-1.89	
<i>For >1,000 To 2,000, Deduct</i>	-2.83	
<i>For >2,000 To 5,000, Deduct</i>	-3.77	
<i>For >5,000, Deduct</i>	-4.72	

33 01 30 42 Cleaning of Manholes (33 01 30)

33 01 30 42-0001 Structure Cleaning And Flushing (33 01 30 42)

Note: Includes flushing. Owner provided water.

33 01 30 42-0002 Rod Out Structures And Other Hand Operations (33 01 30 42-0001)

33 01 30 42-0003 EA Rod Out Waste Water Drain	48.93	
33 01 30 42-0004 EA Rod Out Sewer Catch Basin	97.86	
33 01 30 42-0005 EA Up To 6" Diameter Pipe, Rod Out Blockage	19.58	
33 01 30 42-0006 EA 8" Diameter Pipe, Rod Out Blockage	21.53	
33 01 30 42-0007 EA 10" Diameter Pipe, Rod Out Blockage	24.47	
33 01 30 42-0008 EA 12" Diameter Pipe, Rod Out Blockage	28.38	
33 01 30 42-0009 EA >12" To 16" Diameter Pipe, Rod Out Blockage	33.28	
33 01 30 42-0010 EA >16" To 24" Diameter Pipe, Rod Out Blockage	39.14	
33 01 30 42-0011 EA >24" To 30" Diameter Pipe, Rod Out Blockage	45.99	
33 01 30 42-0012 EA >30" To 42" Diameter Pipe, Rod Out Blockage	52.84	
33 01 30 42-0013 EA >42" To 60" Diameter Pipe, Rod Out Blockage	61.66	
33 01 30 42-0014 EA >60" Diameter Pipe, Rod Out Blockage	73.40	
33 01 30 42-0015 EA Clean Out Debris From Entrance To Inlet Structure	244.67	
33 01 30 42-0016 EA 3' To 4' Diameter, Clean Out Blocked Manhole By Hand	793.48	
<i>For >10 To 100, Deduct</i>	-119.02	
<i>For >100 To 250, Deduct</i>	-178.53	
<i>For >250, Deduct</i>	-238.04	
33 01 30 42-0017 EA 5' To 6' Diameter, Clean Out Blocked Manhole By Hand	952.17	
<i>For >10 To 100, Deduct</i>	-142.83	
<i>For >100 To 250, Deduct</i>	-214.24	
<i>For >250, Deduct</i>	-285.65	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 42-0018 EA Clean Out Blocked Catch Basin By Hand.....	476.09	
For >10 To 100, Deduct	-71.41	
For >100 To 250, Deduct	-107.12	
For >250, Deduct	-142.83	
33 01 30 42-0019 Cleaning Manholes And Drainage Structures With Jet/Vacuum (33 01 30 42-0001)		
Note: Includes the removal of debris with high pressure water jetting and vacuum equipment and cleaning of grate. Excludes hardened concrete debris and disposal of material.		
33 01 30 42-0020 EA Jet/Vacuum Clean 1 To 2 Catch Basins Or Manholes.....	294.46	
33 01 30 42-0021 EA Jet/Vacuum Clean 3 To 10 Catch Basins Or Manholes.....	273.35	
33 01 30 42-0022 EA Jet/Vacuum Clean 11 To 25 Catch Basins Or Manholes.....	252.24	
33 01 30 42-0023 EA Jet/Vacuum Clean 26 To 100 Catch Basins Or Manholes.....	231.14	
33 01 30 42-0024 EA Jet/Vacuum Clean 101 To 250 Catch Basins Or Manholes.....	210.04	
33 01 30 42-0025 EA Jet/Vacuum Clean >250 Catch Basins Or Manholes.....	188.93	
33 01 30 51 Maintenance of Utilities (33 01 30)		
33 01 30 51-0001 Pipe Repair (33 01 30 51)		
33 01 30 51-0002 Pipe Repair Clamp, Full Circle, Single Band (33 01 30 51-0001)		
Note: Repair clamps for asbestos cement pipe, cast iron soil pipe, non-reinforced concrete pipe, PVC pipe, vitrified clay pipe, gray iron pipe and ductile iron pipe.		
33 01 30 51-0003 EA 2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	126.45	
For Stainless Steel Nuts And Bolts, Add	20.64	
33 01 30 51-0004 EA 2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	179.73	
For Stainless Steel Nuts And Bolts, Add	31.10	
33 01 30 51-0005 EA 2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	207.67	
For Stainless Steel Nuts And Bolts, Add	36.63	
33 01 30 51-0006 EA 2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	236.61	
For Stainless Steel Nuts And Bolts, Add	42.14	
33 01 30 51-0007 EA 2-1/2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	136.40	
For Stainless Steel Nuts And Bolts, Add	22.41	
33 01 30 51-0008 EA 2-1/2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	191.04	
For Stainless Steel Nuts And Bolts, Add	33.19	
33 01 30 51-0009 EA 2-1/2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	218.96	
For Stainless Steel Nuts And Bolts, Add	38.59	
33 01 30 51-0010 EA 2-1/2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	253.06	
For Stainless Steel Nuts And Bolts, Add	45.15	
33 01 30 51-0011 EA 3" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	146.67	
For Stainless Steel Nuts And Bolts, Add	24.52	
33 01 30 51-0012 EA 3" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	198.72	
For Stainless Steel Nuts And Bolts, Add	34.70	
33 01 30 51-0013 EA 3" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	229.75	
For Stainless Steel Nuts And Bolts, Add	40.68	
33 01 30 51-0014 EA 3" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	267.86	
For Stainless Steel Nuts And Bolts, Add	48.30	
33 01 30 51-0015 EA 4" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	165.27	
For Stainless Steel Nuts And Bolts, Add	27.88	
33 01 30 51-0016 EA 4" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	218.29	
For Stainless Steel Nuts And Bolts, Add	37.53	
33 01 30 51-0017 EA 4" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	264.72	
For Stainless Steel Nuts And Bolts, Add	45.68	
33 01 30 51-0018 EA 4" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	318.92	
For Stainless Steel Nuts And Bolts, Add	55.11	
33 01 30 51-0019 EA 4" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	417.01	
For Stainless Steel Nuts And Bolts, Add	74.02	
33 01 30 51-0020 EA 4" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	518.81	
For Stainless Steel Nuts And Bolts, Add	92.93	
33 01 30 51-0021 EA 4" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	632.95	
For Stainless Steel Nuts And Bolts, Add	113.99	
33 01 30 51-0022 EA 6" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	194.28	
For Stainless Steel Nuts And Bolts, Add	32.90	
33 01 30 51-0023 EA 6" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	258.08	
For Stainless Steel Nuts And Bolts, Add	44.63	
33 01 30 51-0024 EA 6" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	305.66	
For Stainless Steel Nuts And Bolts, Add	52.62	
33 01 30 51-0025 EA 6" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	358.10	
For Stainless Steel Nuts And Bolts, Add	61.15	
33 01 30 51-0026 EA 6" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	495.94	
For Stainless Steel Nuts And Bolts, Add	88.61	
33 01 30 51-0027 EA 6" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	603.02	
For Stainless Steel Nuts And Bolts, Add	108.06	
33 01 30 51-0028 EA 6" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	720.24	
For Stainless Steel Nuts And Bolts, Add	129.12	
33 01 30 51-0029 EA 8" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	253.10	
For Stainless Steel Nuts And Bolts, Add	39.36	
33 01 30 51-0030 EA 8" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	328.91	
For Stainless Steel Nuts And Bolts, Add	52.08	
33 01 30 51-0031 EA 8" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	396.99	
For Stainless Steel Nuts And Bolts, Add	63.02	
33 01 30 51-0032 EA 8" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226).....	474.09	
For Stainless Steel Nuts And Bolts, Add	75.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0033 EA 8" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	629.64 104.04	
33 01 30 51-0034 EA 8" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	753.06 124.41	
33 01 30 51-0035 EA 8" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	891.83 146.43	
33 01 30 51-0036 EA 10" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	296.40 47.90	
33 01 30 51-0037 EA 10" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	398.25 66.26	
33 01 30 51-0038 EA 10" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	469.03 77.47	
33 01 30 51-0039 EA 10" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	575.46 95.82	
33 01 30 51-0040 EA 10" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	755.70 129.97	
33 01 30 51-0041 EA 10" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	860.11 145.27	
33 01 30 51-0042 EA 10" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,106.88 191.65	
33 01 30 51-0043 EA 12" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	337.39 54.03	
33 01 30 51-0044 EA 12" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	440.54 71.86	
33 01 30 51-0045 EA 12" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	531.79 86.96	
33 01 30 51-0046 EA 12" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	654.25 108.06	
33 01 30 51-0047 EA 12" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,106.88 142.72	
33 01 30 51-0048 EA 12" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	990.06 166.67	
33 01 30 51-0049 EA 12" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,258.29 216.11	
33 01 30 51-0050 Pipe Repair Clamp, Full Circle, Double Bands <small>(33 01 30 51-0001)</small>		
Note: Repair clamps for reinforced concrete pipe, gray iron pipe and ductile iron pipe.		
33 01 30 51-0051 EA 14.38"-15.13" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	750.81 207.89	
33 01 30 51-0052 EA 14.38"-15.13" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,064.39 300.12	
33 01 30 51-0053 EA 14.38"-15.13" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,433.25 407.00	
33 01 30 51-0054 EA 14.38"-15.13" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	2,111.12 613.43	
33 01 30 51-0055 EA 15.07"-15.82" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	788.08 218.12	
33 01 30 51-0056 EA 15.07"-15.82" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,114.22 314.03	
33 01 30 51-0057 EA 15.07"-15.82" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,496.69 424.56	
33 01 30 51-0058 EA 15.07"-15.82" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	2,213.07 642.70	
33 01 30 51-0059 EA 15.92"-16.67" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	808.20 222.53	
33 01 30 51-0060 EA 15.92"-16.67" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,140.68 319.90	
33 01 30 51-0061 EA 15.92"-16.67" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,535.97 434.08	
33 01 30 51-0062 EA 15.92"-16.67" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	2,269.32 656.60	
33 01 30 51-0063 EA 16.56"-17.31" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	829.31 226.92	
33 01 30 51-0064 EA 16.56"-17.31" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,170.82 326.48	
33 01 30 51-0065 EA 16.56"-17.31" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,573.99 442.13	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0066 EA 16.56"-17.31" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,325.52	
For Stainless Steel Nuts And Bolts, Add	669.79	
33 01 30 51-0067 EA 17.15"-17.90" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	848.30	
For Stainless Steel Nuts And Bolts, Add	230.58	
33 01 30 51-0068 EA 17.15"-17.90" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,196.63	
For Stainless Steel Nuts And Bolts, Add	331.60	
33 01 30 51-0069 EA 17.15"-17.90" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,612.00	
For Stainless Steel Nuts And Bolts, Add	450.18	
33 01 30 51-0070 EA 17.15"-17.90" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,376.28	
For Stainless Steel Nuts And Bolts, Add	680.76	
33 01 30 51-0071 EA 17.82"-18.57" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	866.25	
For Stainless Steel Nuts And Bolts, Add	234.25	
33 01 30 51-0072 EA 17.82"-18.57" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,223.08	
For Stainless Steel Nuts And Bolts, Add	337.45	
33 01 30 51-0073 EA 17.82"-18.57" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,645.85	
For Stainless Steel Nuts And Bolts, Add	457.50	
33 01 30 51-0074 EA 17.82"-18.57" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,408.78	
For Stainless Steel Nuts And Bolts, Add	686.25	
33 01 30 51-0075 EA 18.46"-19.21" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	886.82	
For Stainless Steel Nuts And Bolts, Add	238.81	
33 01 30 51-0076 EA 18.46"-19.21" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,254.34	
For Stainless Steel Nuts And Bolts, Add	344.77	
33 01 30 51-0077 EA 18.46"-19.21" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,681.80	
For Stainless Steel Nuts And Bolts, Add	465.55	
33 01 30 51-0078 EA 18.46"-19.21" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,481.24	
For Stainless Steel Nuts And Bolts, Add	705.65	
33 01 30 51-0079 Repair Couplings and Fittings (33 01 30 51-0001)		
33 01 30 51-0080 Couplings And Fittings For Copper Pipe, Compression (33 01 30 51-0079)		
Note: Includes gaskets. Dresser style 88.		
33 01 30 51-0081 Copper Compression Repair Couplings (33 01 30 51-0080)		
33 01 30 51-0082 EA 1/2" Copper Compression Repair Coupling	97.95	
33 01 30 51-0083 EA 3/4" Copper Compression Repair Coupling	113.58	
33 01 30 51-0084 EA 1" Copper Compression Repair Coupling	133.63	
33 01 30 51-0085 EA 1-1/4" Copper Compression Repair Coupling	150.06	
33 01 30 51-0086 EA 1-1/2" Copper Compression Repair Coupling	236.70	
33 01 30 51-0087 Copper Compression Repair Fitting, 90 Degree Elbows (33 01 30 51-0080)		
33 01 30 51-0088 EA 1/2" Copper Compression Repair 90 Degree Elbow	119.76	
33 01 30 51-0089 EA 1" Copper Compression Repair 90 Degree Elbow	136.75	
33 01 30 51-0090 EA 1-1/2" Copper Compression Repair 90 Degree Elbow	286.27	
33 01 30 51-0091 EA 1" IPS x 1" CTS 90 Degree Plain End Street Elbow	107.55	
33 01 30 51-0092 EA 3/4" IPS x 3/4" CTS 90 Degree Threaded End Street Elbow	97.24	
33 01 30 51-0093 EA 1" IPS x 1" CTS 90 Degree Threaded End Street Elbow	113.86	
33 01 30 51-0094 EA 1-1/4" IPS x 1" CTS 90 Degree Threaded End Street Elbow	142.18	
33 01 30 51-0095 Copper Compression Repair Fitting, Tees (33 01 30 51-0080)		
33 01 30 51-0096 EA 1/2" Copper Compression Repair Tee	223.09	
33 01 30 51-0097 EA 3/4" Copper Compression Repair Tee	166.48	
33 01 30 51-0098 EA 1" Copper Compression Repair Tee	198.17	
33 01 30 51-0099 EA 1" F x 1" M x 1" CTS Street Tee	159.52	
33 01 30 51-0100 Copper Compression Repair Fitting, Male Adapters (33 01 30 51-0080)		
33 01 30 51-0101 EA 3/4" M x 1/2" CTS Male Adapter	104.28	
33 01 30 51-0102 EA 3/4" M x 3/4" CTS Male Adapter	81.78	
33 01 30 51-0103 EA 1" M x 1" CTS Male Adapter	91.97	
33 01 30 51-0104 EA 1-1/4" M x 1" CTS Male Adapter	110.25	
33 01 30 51-0105 EA 1-1/4" M x 1-1/4" CTS Male Adapter	134.77	
33 01 30 51-0106 EA 1-1/2" M x 1" CTS Male Adapter	146.03	
33 01 30 51-0107 Copper Compression Repair Fitting, Female Adapters (33 01 30 51-0080)		
33 01 30 51-0108 EA 3/4" M x 3/4" CTS Female Adapter	123.20	
33 01 30 51-0109 EA 1" M x 1" CTS Female Adapter	128.68	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0110	Couplings And Fittings For Steel Pipe, Cast Body, Compression (33 01 30 51-0079)	Note: Includes gaskets. Dresser style 90.		
33 01 30 51-0111	Couplings For Steel Pipe, Cast Body (Compression) (33 01 30 51-0110)	Note: Includes gaskets.		
33 01 30 51-0112	EA 1/2" Coupling, Cast Body (Compression), 5" Middle Ring		69.14	
33 01 30 51-0113	EA 3/4" Coupling, Cast Body (Compression), 5" Middle Ring		68.95	
33 01 30 51-0114	EA 1" Coupling, Cast Body (Compression), 5" Middle Ring		77.37	
33 01 30 51-0115	EA 1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring		85.88	
33 01 30 51-0116	EA 1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring		106.02	
33 01 30 51-0117	EA 2" Coupling, Cast Body (Compression), 5" Middle Ring		129.18	
33 01 30 51-0118	EA 1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket		71.22	
33 01 30 51-0119	EA 3/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket		71.25	
33 01 30 51-0120	EA 1" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket		77.71	
33 01 30 51-0121	EA 1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket		86.95	
33 01 30 51-0122	EA 1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket		109.52	
33 01 30 51-0123	EA 2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket		130.72	
33 01 30 51-0124	EA 3/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket		140.45	
33 01 30 51-0125	EA 1" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket		164.33	
33 01 30 51-0126	EA 1-1/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket		170.13	
33 01 30 51-0127	EA 1-1/2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket		190.09	
33 01 30 51-0128	EA 2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket		231.52	
33 01 30 51-0129	Reducing Couplings For Steel Pipe (Compression) (33 01 30 51-0110)	Note: Includes armored gaskets.		
33 01 30 51-0130	EA 3/4" x 1/2" Reducing Coupling (Compression)		75.91	
33 01 30 51-0131	EA 1" x 3/4" Reducing Coupling (Compression)		79.63	
33 01 30 51-0132	EA 1-1/4" x 3/4" Reducing Coupling (Compression)		89.69	
33 01 30 51-0133	EA 1-1/4" x 1" Reducing Coupling (Compression)		93.53	
33 01 30 51-0134	EA 1-1/2" x 3/4" Reducing Coupling (Compression)		186.25	
33 01 30 51-0135	EA 1-1/2" x 1" Reducing Coupling (Compression)		111.98	
33 01 30 51-0136	EA 1-1/2" x 1-1/4" Reducing Coupling (Compression)		112.52	
33 01 30 51-0137	EA 2" x 3/4" Reducing Coupling (Compression)		222.38	
33 01 30 51-0138	EA 2" x 1" Reducing Coupling (Compression)		201.04	
33 01 30 51-0139	EA 2" x 1-1/4" Reducing Coupling (Compression)		150.28	
33 01 30 51-0140	EA 2" x 1-1/2" Reducing Coupling (Compression)		149.72	
33 01 30 51-0141	Steel Compression Repair Fittings, Elbows (33 01 30 51-0110)	Note: Includes armored gaskets.		
33 01 30 51-0142	EA 1" 45 Degree Elbow (Compression)		128.60	
33 01 30 51-0143	EA 1-1/4" 45 Degree Elbow (Compression)		133.20	
33 01 30 51-0144	EA 1-1/2" 45 Degree Elbow (Compression)		172.45	
33 01 30 51-0145	EA 2" 45 Degree Elbow (Compression)		218.39	
33 01 30 51-0146	EA 3/4" 90 Degree Elbow (Compression)		84.76	
33 01 30 51-0147	EA 1" 90 Degree Elbow (Compression)		87.04	
33 01 30 51-0148	EA 1-1/4" 90 Degree Elbow (Compression)		102.16	
33 01 30 51-0149	EA 1-1/2" 90 Degree Elbow (Compression)		147.28	
33 01 30 51-0150	EA 2" 90 Degree Elbow (Compression)		160.19	
33 01 30 51-0151	EA 3/4" Plain End 90 Degree Street Elbow (Compression)		85.05	
33 01 30 51-0152	EA 1" Plain End 90 Degree Street Elbow (Compression)		73.20	
33 01 30 51-0153	EA 1-1/4" Plain End 90 Degree Street Elbow (Compression)		82.59	
33 01 30 51-0154	EA 1-1/2" Plain End 90 Degree Street Elbow (Compression)		104.59	
33 01 30 51-0155	EA 2" Plain End 90 Degree Street Elbow (Compression)		136.05	
33 01 30 51-0156	EA 3/4" Threaded End 90 Degree Street Elbow (Compression)		88.06	
33 01 30 51-0157	EA 1" Threaded End 90 Degree Street Elbow (Compression)		78.83	
33 01 30 51-0158	EA 1-1/4" Threaded End 90 Degree Street Elbow (Compression)		103.50	
33 01 30 51-0159	EA 1-1/2" Threaded End 90 Degree Street Elbow (Compression)		124.55	
33 01 30 51-0160	EA 2" Threaded End 90 Degree Street Elbow (Compression)		178.73	
33 01 30 51-0161	Steel Compression Repair Fittings, Tees (33 01 30 51-0110)	Note: Includes armored gaskets.		
33 01 30 51-0162	EA 3/4" Street Tee (Compression)		90.84	
33 01 30 51-0163	EA 1" Street Tee (Compression)		107.02	
33 01 30 51-0164	EA 1-1/4" Street Tee (Compression)		106.78	
33 01 30 51-0165	EA 1-1/2" Street Tee (Compression)		122.15	
33 01 30 51-0166	EA 2" Street Tee (Compression)		189.47	
33 01 30 51-0167	EA 1-1/4" x 1-1/4" x 1" Reducing Street Tee (Compression)		105.70	
33 01 30 51-0168	EA 1-1/4" x 1" x 1-1/4" Reducing Street Tee (Compression)		111.15	
33 01 30 51-0169	EA 1-1/2" x 1-1/2" x 1" Reducing Street Tee (Compression)		139.23	
33 01 30 51-0170	EA 1-1/2" x 1-1/2" x 1-1/4" Reducing Street Tee (Compression)		163.86	
33 01 30 51-0171	EA 1-1/2" x 1" x 1-1/2" Reducing Street Tee (Compression)		164.95	
33 01 30 51-0172	EA 1-1/2" x 1-1/4" x 1-1/2" Reducing Street Tee (Compression)		136.91	
33 01 30 51-0173	EA 2" x 1-1/4" x 2" Reducing Street Tee (Compression)		184.14	
33 01 30 51-0174	EA 2" x 1-1/2" x 2" Reducing Street Tee (Compression)		211.51	
33 01 30 51-0175	EA 3/4" Welding Street Tee (Compression)		172.93	
33 01 30 51-0176	EA 1" Welding Street Tee (Compression)		172.00	
33 01 30 51-0177	EA 1-1/4" Welding Street Tee (Compression)		183.78	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 30 51-0178	EA	1-1/2" Welding Street Tee (Compression)	220.65	
33 01 30 51-0179	EA	2" Welding Street Tee (Compression).....	299.34	
33 01 30 51-0180	EA	3/4" Regular Tee (Compression)	125.18	
33 01 30 51-0181	EA	1" Regular Tee (Compression)	224.10	
33 01 30 51-0182	EA	1-1/4" Regular Tee (Compression)	235.78	
33 01 30 51-0183	EA	1-1/2" Regular Tee (Compression)	251.15	
33 01 30 51-0184	EA	2" Regular Tee (Compression)	277.17	
33 01 30 51-0185	EA	2" x 2" x 1-1/4" Regular Reducing Tee (Compression).....	272.79	

33 01 30 51-0186 Steel Compression Repair Fittings, Male Adapters (33 01 30 51-0110)

Note: Includes armored gaskets.

33 01 30 51-0187	EA	3/4" Male Adapter (Compression).....	84.51	
33 01 30 51-0188	EA	1" Male Adapter (Compression).....	93.87	
33 01 30 51-0189	EA	1-1/4" Male Adapter (Compression).....	123.50	
33 01 30 51-0190	EA	1-1/2" Male Adapter (Compression).....	138.53	
33 01 30 51-0191	EA	2" Male Adapter (Compression).....	155.61	
33 01 30 51-0192	EA	1" x 1-1/4" Male Adapter (Compression).....	122.79	

33 01 30 51-0193 Steel Compression Repair Fittings, Line Caps (33 01 30 51-0110)

Note: Includes armored gaskets.

33 01 30 51-0194	EA	3/4" Line Caps (Compression)	45.61	
33 01 30 51-0195	EA	1" Line Caps (Compression)	53.11	
33 01 30 51-0196	EA	1-1/4" Line Caps (Compression).....	60.72	
33 01 30 51-0197	EA	1-1/2" Line Caps (Compression).....	71.17	
33 01 30 51-0198	EA	2" Line Caps (Compression)	88.06	

33 01 30 51-0199 Couplings For Steel Pipe (33 01 30 51-0079)

Note: Includes Buna S gasket. Dresser style 38

33 01 30 51-0200	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket.....	67.05	
33 01 30 51-0201	EA	3/4" Coupling, 5" Middle Ring With Buna S Gasket	82.53	
33 01 30 51-0202	EA	1" Coupling, 5" Middle Ring With Buna S Gasket	94.25	
33 01 30 51-0203	EA	1-1/2" Coupling, 5" Middle Ring With Buna S Gasket	111.67	
33 01 30 51-0204	EA	2" Coupling, 4" Middle Ring With Buna S Gasket	138.11	
33 01 30 51-0205	EA	2" Coupling, 5" Middle Ring With Buna S Gasket	186.21	
33 01 30 51-0206	EA	2" Coupling, 7" Middle Ring With Buna S Gasket	174.24	
33 01 30 51-0207	EA	3" Coupling, 4" Middle Ring With Buna S Gasket	226.51	
33 01 30 51-0208	EA	3" Coupling, 5" Middle Ring With Buna S Gasket	233.75	
33 01 30 51-0209	EA	3" Coupling, 7" Middle Ring With Buna S Gasket	241.00	
33 01 30 51-0210	EA	4" Coupling, 4" Middle Ring With Buna S Gasket	260.86	
33 01 30 51-0211	EA	4" Coupling, 5" Middle Ring With Buna S Gasket	273.16	
33 01 30 51-0212	EA	4" Coupling, 7" Middle Ring With Buna S Gasket	288.57	
33 01 30 51-0213	EA	5" Coupling, 4" Middle Ring With Buna S Gasket	339.33	
33 01 30 51-0214	EA	5" Coupling, 5" Middle Ring With Buna S Gasket	344.18	
33 01 30 51-0215	EA	5" Coupling, 7" Middle Ring With Buna S Gasket	361.86	
33 01 30 51-0216	EA	6" Coupling, 4" Middle Ring With Buna S Gasket	360.27	
33 01 30 51-0217	EA	6" Coupling, 5" Middle Ring With Buna S Gasket	373.40	
33 01 30 51-0218	EA	6" Coupling, 7" Middle Ring With Buna S Gasket	390.17	
33 01 30 51-0219	EA	8" Coupling, 4" Middle Ring With Buna S Gasket	420.02	
33 01 30 51-0220	EA	8" Coupling, 5" Middle Ring With Buna S Gasket	439.44	
33 01 30 51-0221	EA	8" Coupling, 7" Middle Ring With Buna S Gasket	455.37	
33 01 30 51-0222	EA	10" Coupling, 5" Middle Ring With Buna S Gasket	520.38	
33 01 30 51-0223	EA	10" Coupling, 7" Middle Ring With Buna S Gasket	612.01	
33 01 30 51-0224	EA	12" Coupling, 5" Middle Ring With Buna S Gasket	591.67	
33 01 30 51-0225	EA	12" Coupling, 7" Middle Ring With Buna S Gasket	785.91	
33 01 30 51-0226	EA	14" Coupling, 7" Middle Ring With Buna S Gasket	910.93	
33 01 30 51-0227	EA	16" Coupling, 7" Middle Ring With Buna S Gasket	1,093.29	
33 01 30 51-0228	EA	18" Coupling, 7" Middle Ring With Buna S Gasket	1,203.71	
33 01 30 51-0229	EA	20" Coupling, 7" Middle Ring With Buna S Gasket	1,299.65	
33 01 30 51-0230	EA	22" Coupling, 7" Middle Ring With Buna S Gasket	1,638.25	
33 01 30 51-0231	EA	24" Coupling, 7" Middle Ring With Buna S Gasket	1,723.33	

33 01 30 51-0232 Couplings For Steel Pipe (33 01 30 51-0079)

Note: Includes Buna S gasket, protected. Dresser style 38.

33 01 30 51-0233	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket, Protected.....	69.13	
33 01 30 51-0234	EA	3/4" Coupling, 5" Middle Ring With Buna S Gasket, Protected	82.24	
33 01 30 51-0235	EA	1" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	94.12	
33 01 30 51-0236	EA	1-1/2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	110.71	
33 01 30 51-0237	EA	2" Coupling, 4" Middle Ring With Buna S Gasket, Protected	165.75	
33 01 30 51-0238	EA	2" Coupling, 5" Middle Ring With Buna S Gasket, Protected	161.94	
33 01 30 51-0239	EA	2" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	163.84	
33 01 30 51-0240	EA	3" Coupling, 4" Middle Ring With Buna S Gasket, Protected	241.00	
33 01 30 51-0241	EA	3" Coupling, 5" Middle Ring With Buna S Gasket, Protected	248.24	
33 01 30 51-0242	EA	3" Coupling, 7" Middle Ring With Buna S Gasket, Protected	255.48	
33 01 30 51-0243	EA	4" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	280.60	
33 01 30 51-0244	EA	4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	267.83	
33 01 30 51-0245	EA	4" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	274.55	
33 01 30 51-0246	EA	5" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	364.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0247 EA 5" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	368.30	
33 01 30 51-0248 EA 5" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	532.62	
33 01 30 51-0249 EA 6" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	368.04	
33 01 30 51-0250 EA 6" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	386.89	
33 01 30 51-0251 EA 6" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	394.17	
33 01 30 51-0252 EA 8" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	462.16	
33 01 30 51-0253 EA 8" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	469.32	
33 01 30 51-0254 EA 8" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	480.85	
33 01 30 51-0255 EA 10" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	537.76	
33 01 30 51-0256 EA 10" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	630.12	
33 01 30 51-0257 EA 12" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	609.78	
33 01 30 51-0258 EA 12" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	803.62	
33 01 30 51-0259 EA 14" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	929.04	
33 01 30 51-0260 EA 16" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,120.45	
33 01 30 51-0261 EA 18" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,239.93	
33 01 30 51-0262 EA 20" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,335.87	
33 01 30 51-0263 EA 22" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,674.47	
33 01 30 51-0264 EA 24" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,759.55	

33 01 30 51-0265

Couplings For Steel Pipe (33 01 30 51-0079)

Note: Includes Buna N gasket, protected, Dresser style 38.

33 01 30 51-0266 EA 1/2" Coupling, 3-1/2" Middle Ring With Buna N Gasket, Protected	82.01	
33 01 30 51-0267 EA 3/4" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	95.36	
33 01 30 51-0268 EA 1" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	109.50	
33 01 30 51-0269 EA 1-1/2" Coupling, 5" Middle Ring With Buna N Gasket, Protected	130.68	
33 01 30 51-0270 EA 2" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	165.75	
33 01 30 51-0271 EA 2" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	198.09	
33 01 30 51-0272 EA 2" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	208.85	
33 01 30 51-0273 EA 3" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	241.00	
33 01 30 51-0274 EA 3" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	248.24	
33 01 30 51-0275 EA 3" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	255.48	
33 01 30 51-0276 EA 4" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	280.60	
33 01 30 51-0277 EA 4" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	306.42	
33 01 30 51-0278 EA 4" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	316.24	
33 01 30 51-0279 EA 5" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	364.75	
33 01 30 51-0280 EA 5" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	368.30	
33 01 30 51-0281 EA 5" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	409.78	
33 01 30 51-0282 EA 6" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	368.04	
33 01 30 51-0283 EA 6" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	386.89	
33 01 30 51-0284 EA 6" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	394.17	
33 01 30 51-0285 EA 8" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	462.16	
33 01 30 51-0286 EA 8" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	469.32	
33 01 30 51-0287 EA 8" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	480.85	
33 01 30 51-0288 EA 10" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	537.76	
33 01 30 51-0289 EA 10" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	630.12	
33 01 30 51-0290 EA 12" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	609.78	
33 01 30 51-0291 EA 12" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	803.62	
33 01 30 51-0292 EA 14" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	929.04	
33 01 30 51-0293 EA 16" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	1,093.29	
33 01 30 51-0294 EA 18" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	1,239.93	
33 01 30 51-0295 EA 20" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	1,335.87	
33 01 30 51-0296 EA 22" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	1,674.47	
33 01 30 51-0297 EA 24" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	1,759.55	

33 01 30 51-0298

Couplings For Steel Pipe (33 01 30 51-0079)

Note: Includes high temperature carded glass gasket, protected, Dresser style 38.

33 01 30 51-0299 EA 3/4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	140.79	
33 01 30 51-0300 EA 1" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	151.04	
33 01 30 51-0301 EA 1-1/2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	156.02	
33 01 30 51-0302 EA 2" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket	242.35	
33 01 30 51-0303 EA 2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	262.16	
33 01 30 51-0304 EA 2" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	272.25	
33 01 30 51-0305 EA 3" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	310.81	
33 01 30 51-0306 EA 3" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	308.53	
33 01 30 51-0307 EA 4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	342.64	
33 01 30 51-0308 EA 4" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	352.46	
33 01 30 51-0309 EA 5" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	480.77	
33 01 30 51-0310 EA 5" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	493.79	
33 01 30 51-0311 EA 6" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	509.78	
33 01 30 51-0312 EA 6" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	518.42	
33 01 30 51-0313 EA 8" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket	524.30	
33 01 30 51-0314 EA 8" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	653.91	
33 01 30 51-0315 EA 8" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	706.77	
33 01 30 51-0316 EA 10" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	718.12	
33 01 30 51-0317 EA 10" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	717.93	
33 01 30 51-0318 EA 12" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	918.26	
33 01 30 51-0319 EA 12" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	958.06	
33 01 30 51-0320 EA 14" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,110.94	
33 01 30 51-0321 EA 16" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,400.82	

33 Utilities
33 01 Operation and Maintenance of Utilities
33 01 30 Operation and Maintenance of Sewer Utilities



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01	30 51-0322	EA	18" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	1,363.07	
33 01	30 51-0323	EA	20" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	1,522.40	
33 01	30 51-0324	EA	22" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	1,650.92	
33 01	30 51-0325	EA	24" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	1,795.76	
33 01 30 51-0326 Pipe Plugging (33 01 30 51-0001)					
33 01 30 51-0327 Gravity Bladder Type, Temporary Pipe Plugging (33 01 30 51-0326)					
Note: Includes insertion of expandable bladder device into pipe, expanding to block flow and removal.					
33 01	30 51-0328	EA	3/4" Bladder Type, Temporary Pipe Plug.....	71.32	
33 01	30 51-0329	EA	1" Bladder Type, Temporary Pipe Plug.....	76.31	
33 01	30 51-0330	EA	1-1/4" Bladder Type, Temporary Pipe Plug.....	82.40	
33 01	30 51-0331	EA	1-1/2" Bladder Type, Temporary Pipe Plug.....	88.06	
33 01	30 51-0332	EA	2" Bladder Type, Temporary Pipe Plug.....	93.49	
33 01	30 51-0333	EA	2-1/2" Bladder Type, Temporary Pipe Plug.....	99.57	
33 01	30 51-0334	EA	3" Bladder Type, Temporary Pipe Plug.....	107.29	
33 01	30 51-0335	EA	4" Bladder Type, Temporary Pipe Plug.....	118.04	
33 01	30 51-0336	EA	5" Bladder Type, Temporary Pipe Plug.....	127.90	
33 01	30 51-0337	EA	6" Bladder Type, Temporary Pipe Plug.....	142.66	
33 01	30 51-0338	EA	8" Bladder Type, Temporary Pipe Plug.....	158.39	
33 01	30 51-0339	EA	10" Bladder Type, Temporary Pipe Plug.....	183.58	
33 01	30 51-0340	EA	12" Bladder Type, Temporary Pipe Plug.....	214.95	
33 01	30 51-0341	EA	14" Bladder Type, Temporary Pipe Plug.....	255.79	
33 01	30 51-0342	EA	16" Bladder Type, Temporary Pipe Plug.....	308.14	
33 01	30 51-0343	EA	18" Bladder Type, Temporary Pipe Plug.....	371.03	
33 01	30 51-0344	EA	20" Bladder Type, Temporary Pipe Plug.....	442.16	
33 01	30 51-0345	EA	24" Bladder Type, Temporary Pipe Plug.....	510.55	
33 01 30 51-0346 Hydra Stop, Hot Tapping Of Pressure Pipe (33 01 30 51-0326)					
Note: Includes flanged or threaded lateral outlet, cutting and tapping pipe, insertion of expandable bladder device into pipe, expanding to block flow, and removal of bladder/cutting device.					
33 01	30 51-0347	EA	2" Hydra Stop, Line Stopper.....	2,536.05	
33 01	30 51-0348	EA	2-1/2" Hydra Stop, Line Stopper.....	3,182.46	
33 01	30 51-0349	EA	3" Hydra Stop, Line Stopper.....	3,903.27	
33 01	30 51-0350	EA	4" Hydra Stop, Line Stopper.....	4,700.09	
33 01	30 51-0351	EA	5" Hydra Stop, Line Stopper.....	5,286.12	
33 01	30 51-0352	EA	6" Hydra Stop, Line Stopper.....	6,210.17	
33 01	30 51-0353	EA	8" Hydra Stop, Line Stopper.....	6,796.19	
33 01	30 51-0354	EA	10" Hydra Stop, Line Stopper.....	7,720.22	
33 01	30 51-0355	EA	12" Hydra Stop, Line Stopper.....	8,644.27	
33 01	30 51-0356	EA	14" Hydra Stop, Line Stopper.....	9,630.30	
33 01	30 51-0357	EA	16" Hydra Stop, Line Stopper.....	10,988.40	
33 01	30 51-0358	EA	18" Hydra Stop, Line Stopper.....	12,532.46	
33 01	30 51-0359	EA	20" Hydra Stop, Line Stopper.....	14,944.44	
33 01 30 51-0360 Aluminum Expansion Plugs (33 01 30 51-0326)					
Note: For use with PVC, clay Or cast iron drainage pipe.					
33 01	30 51-0361	EA	3" Pipe Aluminum Expansion Plug.....	71.61	
33 01	30 51-0362	EA	4" Pipe Aluminum Expansion Plug.....	103.60	
33 01	30 51-0363	EA	5" Pipe Aluminum Expansion Plug.....	116.82	
33 01	30 51-0364	EA	6" Pipe Aluminum Expansion Plug.....	178.16	
33 01	30 51-0365	EA	8" Pipe Aluminum Expansion Plug.....	183.00	
33 01	30 51-0366	EA	10" Pipe Aluminum Expansion Plug.....	229.25	
33 01	30 51-0367	EA	12" Pipe Aluminum Expansion Plug.....	310.66	
33 01	30 51-0368	EA	14" Pipe Aluminum Expansion Plug.....	502.91	
33 01	30 51-0369	EA	15" Pipe Aluminum Expansion Plug.....	544.79	
33 01 30 51-0370 Pipe Repair Clamp, Stainless Steel, 3" Long (33 01 30 51-0001)					
33 01	30 51-0371	EA	1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	144.87	
33 01	30 51-0372	EA	3/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	145.05	
33 01	30 51-0373	EA	1" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	145.49	
33 01	30 51-0374	EA	1-1/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	145.93	
33 01	30 51-0375	EA	1-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	146.15	
33 01	30 51-0376	EA	2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	146.81	
33 01	30 51-0377	EA	2-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	147.47	
33 01	30 51-0378	EA	3" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	148.35	
33 01	30 51-0379	EA	4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	266.55	
33 01	30 51-0380	EA	6" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	269.41	
33 01	30 51-0381	EA	8" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	271.40	
33 01	30 51-0382	EA	10" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	292.35	
33 01	30 51-0383	EA	12" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	295.00	
33 01	30 51-0384	EA	14" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	296.77	
33 01	30 51-0385	EA	16" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	299.41	
33 01	30 51-0386	EA	18" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	302.06	
33 01	30 51-0387	EA	20" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	305.59	
33 01	30 51-0388	EA	24" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	311.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0389 Polyseal Pipe Coupler <small>(33 01 30 51-0001)</small>		
33 01 30 51-0390 EA 18" Diameter Pipe, PolySeal Repair Couplers (MarMac).....	320.12	
33 01 30 51-0391 EA 24" Diameter Pipe, PolySeal Repair Couplers (MarMac).....	361.40	
33 01 30 63 Sewer and Pipe Joint Sealing <small>(33 01 30)</small>		
33 01 30 63-0001 Joint Air Test <small>(33 01 30 63)</small>		
33 01 30 63-0002 EA 4" To 8", Joint Air Test.....	98.90	
33 01 30 63-0003 EA 10" To 15", Joint Air Test.....	115.38	
33 01 30 63-0004 EA >15" To 21", Joint Air Test.....	131.87	
33 01 30 63-0005 EA >21" To 24", Joint Air Test.....	164.84	
33 01 30 63-0006 EA >24" To 27", Joint Air Test.....	197.80	
33 01 30 63-0007 EA >27" To 36", Joint Air Test.....	230.77	
33 01 30 63-0008 Joint Seal And Joint Air Retest <small>(33 01 30 63)</small>		
<i>Note: Includes grout.</i>		
33 01 30 63-0009 EA 4" Joint Seal And Joint Air Retest.....	297.17	
<i>Note: Includes up to 1 gallon of grout.</i>		
33 01 30 63-0010 EA 6" Joint Seal And Joint Air Retest.....	330.13	
<i>Note: Includes 1 gallon of grout.</i>		
33 01 30 63-0011 EA 8" Joint Seal And Joint Air Retest.....	396.54	
<i>Note: Includes 2 gallons of grout.</i>		
33 01 30 63-0012 EA 10" Joint Seal And Joint Air Retest.....	446.22	
<i>Note: Includes 2.5 gallons of grout.</i>		
33 01 30 63-0013 EA 12" Joint Seal And Joint Air Retest.....	495.91	
<i>Note: Includes 3 gallons of grout.</i>		
33 01 30 63-0014 EA 15" Joint Seal And Joint Air Retest.....	586.91	
<i>Note: Includes 3.75 gallons of grout.</i>		
33 01 30 63-0015 EA 18" Joint Seal And Joint Air Retest.....	677.92	
<i>Note: Includes 4.5 gallons of grout.</i>		
33 01 30 63-0016 EA 21" Joint Seal And Joint Air Retest.....	768.93	
<i>Note: Includes 5.25 gallons of grout.</i>		
33 01 30 63-0017 EA 24" Joint Seal And Joint Air Retest.....	892.91	
<i>Note: Includes 6 gallons of grout.</i>		
33 01 30 63-0018 EA 27" Joint Seal And Joint Air Retest.....	1,016.88	
<i>Note: Includes 6.75 gallons of grout.</i>		
33 01 30 63-0019 EA 30" Joint Seal And Joint Air Retest.....	1,173.83	
<i>Note: Includes 7.5 gallons of grout.</i>		
33 01 30 63-0020 EA 36" Joint Seal And Joint Air Retest.....	1,355.84	
<i>Note: Includes 9 gallons of grout.</i>		
33 01 30 63-0021 GAL Extra Grout Per Joint.....	165.30	
<i>Note: For extra grout per joint required over listed amount.</i>		
33 01 30 70 Rehabilitation of Sewer Utilities <small>(33 01 30)</small>		
33 01 30 70-0001 Cementitious Pipe Coatings By Hand <small>(33 01 30 70)</small>		
<i>Note: To be used on repair areas to install the coating on the exposed portion of the pipe.</i>		
33 01 30 70-0002 SF Up To 1" Thick Cementitious Coating On Pipe, Troweled On.....	9.05	
33 01 30 70-0003 SF >1" To 2" Thick Cementitious Coating On Pipe, Troweled On.....	13.79	
33 01 30 71 Relining Sewer Utilities Pipelines <small>(33 01 30)</small>		
33 01 30 71-0001 Relining Underground Pipelines <small>(33 01 30 71)</small>		
<i>Note: Excludes CCTV inspection, sewer cleaning, pavement both temporary and permanent, emergency after hours response for homeowners backups. See CSI section 01 22 20 00-0000 for hourly rates for after hours response for homeowners backups, 32 01 17 63-0000 for temporary pavement, 32 12 16 00-0000 for permanent pavement, 33 01 30 11-0000 for CCTV Inspection, 33 01 30 41-0002 for sewer cleaning.</i>		
33 01 30 71-0002 Lining Pipe, Spray Applied With Structural Polyurethane <small>(33 01 30 71-0001)</small>		
<i>Note: Two part structural polyurethane.</i>		
33 01 30 71-0003 Mobilization And Setup For Spray Applied Structural Polyurethane Lining <small>(33 01 30 71-0002)</small>		
33 01 30 71-0004 EA Initial Set Up And Final Equipment Removal For Spray Applied Structural Polyurethane Lining.....	1,664.71	
33 01 30 71-0005 Lining Pipe, Spray Applied With 100 mil Structural Polyurethane <small>(33 01 30 71-0002)</small>		
<i>Note: Two part structural polyurethane.</i>		
33 01 30 71-0006 LF 36" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane.....	54.39	
<i>For Up To 75, Add</i>		11.78
<i>For >75 To 150, Add</i>		5.44
<i>For >150 To 1,000, Deduct</i>		-1.45
<i>For >1,000 To 2,000, Deduct</i>		-2.80
<i>For >2,000 To 5,000, Deduct</i>		-4.34
<i>For >5,000, Deduct</i>		-6.34

33 Utilities
33 01 Operation and Maintenance of Utilities
33 01 30 Operation and Maintenance of Sewer Utilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0007 LF 42" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	63.45	
For Up To 75, Add	13.74	
For >75 To 150, Add	6.35	
For >500 To 1,000, Deduct	-1.69	
For >1,000 To 2,000, Deduct	-3.27	
For >2,000 To 5,000, Deduct	-5.06	
For >5,000, Deduct	-7.39	
33 01 30 71-0008 LF 48" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	72.52	
For Up To 75, Add	15.70	
For >75 To 150, Add	7.25	
For >500 To 1,000, Deduct	-1.93	
For >1,000 To 2,000, Deduct	-3.74	
For >2,000 To 5,000, Deduct	-5.79	
For >5,000, Deduct	-8.45	
33 01 30 71-0009 LF 54" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	81.58	
For Up To 75, Add	17.66	
For >75 To 150, Add	8.16	
For >500 To 1,000, Deduct	-2.17	
For >1,000 To 2,000, Deduct	-4.21	
For >2,000 To 5,000, Deduct	-6.51	
For >5,000, Deduct	-9.51	
33 01 30 71-0010 LF 60" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	90.64	
For Up To 75, Add	19.62	
For >75 To 150, Add	9.06	
For >500 To 1,000, Deduct	-2.41	
For >1,000 To 2,000, Deduct	-4.67	
For >2,000 To 5,000, Deduct	-7.23	
For >5,000, Deduct	-10.56	
33 01 30 71-0011 LF 66" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	99.70	
For Up To 75, Add	21.59	
For >75 To 150, Add	9.97	
For >500 To 1,000, Deduct	-2.65	
For >1,000 To 2,000, Deduct	-5.14	
For >2,000 To 5,000, Deduct	-7.96	
For >5,000, Deduct	-11.62	
33 01 30 71-0012 LF 72" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	108.78	
For Up To 75, Add	23.55	
For >75 To 150, Add	10.88	
For >500 To 1,000, Deduct	-2.89	
For >1,000 To 2,000, Deduct	-5.61	
For >2,000 To 5,000, Deduct	-8.68	
For >5,000, Deduct	-12.67	
33 01 30 71-0013 LF 78" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	117.83	
For Up To 75, Add	25.51	
For >75 To 150, Add	11.78	
For >500 To 1,000, Deduct	-3.13	
For >1,000 To 2,000, Deduct	-6.07	
For >2,000 To 5,000, Deduct	-9.40	
For >5,000, Deduct	-13.73	
33 01 30 71-0014 LF 84" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	126.90	
For Up To 75, Add	27.48	
For >75 To 150, Add	12.69	
For >500 To 1,000, Deduct	-3.38	
For >1,000 To 2,000, Deduct	-6.54	
For >2,000 To 5,000, Deduct	-10.13	
For >5,000, Deduct	-14.79	
33 01 30 71-0015 LF 90" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	135.96	
For Up To 75, Add	29.44	
For >75 To 150, Add	13.60	
For >500 To 1,000, Deduct	-3.62	
For >1,000 To 2,000, Deduct	-7.01	
For >2,000 To 5,000, Deduct	-10.85	
For >5,000, Deduct	-15.84	
33 01 30 71-0016 LF 96" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	145.02	
For Up To 75, Add	31.40	
For >75 To 150, Add	14.50	
For >500 To 1,000, Deduct	-3.86	
For >1,000 To 2,000, Deduct	-7.48	
For >2,000 To 5,000, Deduct	-11.57	
For >5,000, Deduct	-16.90	
33 01 30 71-0017 LF 102" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	154.09	
For Up To 75, Add	33.36	
For >75 To 150, Add	15.41	
For >500 To 1,000, Deduct	-4.10	
For >1,000 To 2,000, Deduct	-7.94	
For >2,000 To 5,000, Deduct	-12.30	
For >5,000, Deduct	-17.95	
33 01 30 71-0018 LF 108" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	163.15	
For Up To 75, Add	35.32	
For >75 To 150, Add	16.32	
For >500 To 1,000, Deduct	-4.34	
For >1,000 To 2,000, Deduct	-8.41	
For >2,000 To 5,000, Deduct	-13.02	
For >5,000, Deduct	-19.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0019 LF 114" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	172.22	
<i>For Up To 75, Add</i>	37.29	
<i>For >75 To 150, Add</i>	17.22	
<i>For >500 To 1,000, Deduct</i>	-4.58	
<i>For >1,000 To 2,000, Deduct</i>	-8.88	
<i>For >2,000 To 5,000, Deduct</i>	-13.74	
<i>For >5,000, Deduct</i>	-20.07	
33 01 30 71-0020 LF 120" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	181.29	
<i>For Up To 75, Add</i>	39.25	
<i>For >75 To 150, Add</i>	18.13	
<i>For >500 To 1,000, Deduct</i>	-4.82	
<i>For >1,000 To 2,000, Deduct</i>	-9.35	
<i>For >2,000 To 5,000, Deduct</i>	-14.47	
<i>For >5,000, Deduct</i>	-21.12	
33 01 30 71-0021 SF Structure Lining, Spray Applied With 100 mil Structural Polyurethane	5.78	
33 01 30 71-0022 Lining Pipe, Spray Applied With 150 mil Structural Polyurethane <small>(33 01 30 71-0002)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0023 LF 36" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	73.58	
<i>For Up To 75, Add</i>	15.66	
<i>For >75 To 150, Add</i>	7.36	
<i>For >500 To 1,000, Deduct</i>	-1.85	
<i>For >1,000 To 2,000, Deduct</i>	-3.60	
<i>For >2,000 To 5,000, Deduct</i>	-5.55	
<i>For >5,000, Deduct</i>	-8.30	
33 01 30 71-0024 LF 42" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	85.84	
<i>For Up To 75, Add</i>	18.27	
<i>For >75 To 150, Add</i>	8.58	
<i>For >500 To 1,000, Deduct</i>	-2.16	
<i>For >1,000 To 2,000, Deduct</i>	-4.21	
<i>For >2,000 To 5,000, Deduct</i>	-6.47	
<i>For >5,000, Deduct</i>	-9.69	
33 01 30 71-0025 LF 48" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	98.11	
<i>For Up To 75, Add</i>	20.88	
<i>For >75 To 150, Add</i>	9.81	
<i>For >500 To 1,000, Deduct</i>	-2.47	
<i>For >1,000 To 2,000, Deduct</i>	-4.81	
<i>For >2,000 To 5,000, Deduct</i>	-7.40	
<i>For >5,000, Deduct</i>	-11.07	
33 01 30 71-0026 LF 54" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	110.36	
<i>For Up To 75, Add</i>	23.49	
<i>For >75 To 150, Add</i>	11.04	
<i>For >500 To 1,000, Deduct</i>	-2.77	
<i>For >1,000 To 2,000, Deduct</i>	-5.41	
<i>For >2,000 To 5,000, Deduct</i>	-8.32	
<i>For >5,000, Deduct</i>	-12.45	
33 01 30 71-0027 LF 60" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	122.64	
<i>For Up To 75, Add</i>	26.10	
<i>For >75 To 150, Add</i>	12.26	
<i>For >500 To 1,000, Deduct</i>	-3.08	
<i>For >1,000 To 2,000, Deduct</i>	-6.01	
<i>For >2,000 To 5,000, Deduct</i>	-9.25	
<i>For >5,000, Deduct</i>	-13.84	
33 01 30 71-0028 LF 66" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	134.89	
<i>For Up To 75, Add</i>	28.71	
<i>For >75 To 150, Add</i>	13.49	
<i>For >500 To 1,000, Deduct</i>	-3.39	
<i>For >1,000 To 2,000, Deduct</i>	-6.61	
<i>For >2,000 To 5,000, Deduct</i>	-10.17	
<i>For >5,000, Deduct</i>	-15.22	
33 01 30 71-0029 LF 72" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	147.16	
<i>For Up To 75, Add</i>	31.32	
<i>For >75 To 150, Add</i>	14.72	
<i>For >500 To 1,000, Deduct</i>	-3.70	
<i>For >1,000 To 2,000, Deduct</i>	-7.21	
<i>For >2,000 To 5,000, Deduct</i>	-11.10	
<i>For >5,000, Deduct</i>	-16.61	
33 01 30 71-0030 LF 78" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	159.41	
<i>For Up To 75, Add</i>	33.93	
<i>For >75 To 150, Add</i>	15.94	
<i>For >500 To 1,000, Deduct</i>	-4.01	
<i>For >1,000 To 2,000, Deduct</i>	-7.81	
<i>For >2,000 To 5,000, Deduct</i>	-12.02	
<i>For >5,000, Deduct</i>	-17.99	
33 01 30 71-0031 LF 84" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	171.68	
<i>For Up To 75, Add</i>	36.54	
<i>For >75 To 150, Add</i>	17.17	
<i>For >500 To 1,000, Deduct</i>	-4.32	
<i>For >1,000 To 2,000, Deduct</i>	-8.41	
<i>For >2,000 To 5,000, Deduct</i>	-12.95	
<i>For >5,000, Deduct</i>	-19.37	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0032 LF 90" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	183.94	
For Up To 75, Add	39.15	
For >75 To 150, Add	18.39	
For >500 To 1,000, Deduct	-4.62	
For >1,000 To 2,000, Deduct	-9.01	
For >2,000 To 5,000, Deduct	-13.87	
For >5,000, Deduct	-20.76	
33 01 30 71-0033 LF 96" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	196.20	
For Up To 75, Add	41.76	
For >75 To 150, Add	19.62	
For >500 To 1,000, Deduct	-4.93	
For >1,000 To 2,000, Deduct	-9.61	
For >2,000 To 5,000, Deduct	-14.80	
For >5,000, Deduct	-22.14	
33 01 30 71-0034 LF 102" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	208.48	
For Up To 75, Add	44.37	
For >75 To 150, Add	20.85	
For >500 To 1,000, Deduct	-5.24	
For >1,000 To 2,000, Deduct	-10.21	
For >2,000 To 5,000, Deduct	-15.72	
For >5,000, Deduct	-23.53	
33 01 30 71-0035 LF 108" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	220.73	
For Up To 75, Add	46.98	
For >75 To 150, Add	22.07	
For >500 To 1,000, Deduct	-5.55	
For >1,000 To 2,000, Deduct	-10.81	
For >2,000 To 5,000, Deduct	-16.65	
For >5,000, Deduct	-24.91	
33 01 30 71-0036 LF 114" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	233.00	
For Up To 75, Add	49.59	
For >75 To 150, Add	23.30	
For >500 To 1,000, Deduct	-5.86	
For >1,000 To 2,000, Deduct	-11.42	
For >2,000 To 5,000, Deduct	-17.57	
For >5,000, Deduct	-26.29	
33 01 30 71-0037 LF 120" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	245.26	
For Up To 75, Add	52.20	
For >75 To 150, Add	24.53	
For >500 To 1,000, Deduct	-6.17	
For >1,000 To 2,000, Deduct	-12.02	
For >2,000 To 5,000, Deduct	-18.50	
For >5,000, Deduct	-27.68	
33 01 30 71-0038 SF Structure Lining, Spray Applied With 150 mil Structural Polyurethane.....	7.80	
33 01 30 71-0039 Lining Pipe, Spray Applied With 200 mil Structural Polyurethane <small>(33 01 30 71-0002)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0040 LF 36" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	92.75	
For Up To 75, Add	19.54	
For >75 To 150, Add	9.28	
For >500 To 1,000, Deduct	-2.25	
For >1,000 To 2,000, Deduct	-4.41	
For >2,000 To 5,000, Deduct	-6.76	
For >5,000, Deduct	-10.27	
33 01 30 71-0041 LF 42" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	108.21	
For Up To 75, Add	22.80	
For >75 To 150, Add	10.82	
For >500 To 1,000, Deduct	-2.63	
For >1,000 To 2,000, Deduct	-5.14	
For >2,000 To 5,000, Deduct	-7.89	
For >5,000, Deduct	-11.98	
33 01 30 71-0042 LF 48" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	123.67	
For Up To 75, Add	26.06	
For >75 To 150, Add	12.37	
For >500 To 1,000, Deduct	-3.00	
For >1,000 To 2,000, Deduct	-5.88	
For >2,000 To 5,000, Deduct	-9.01	
For >5,000, Deduct	-13.69	
33 01 30 71-0043 LF 54" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	139.13	
For Up To 75, Add	29.32	
For >75 To 150, Add	13.91	
For >500 To 1,000, Deduct	-3.38	
For >1,000 To 2,000, Deduct	-6.61	
For >2,000 To 5,000, Deduct	-10.14	
For >5,000, Deduct	-15.41	
33 01 30 71-0044 LF 60" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	154.59	
For Up To 75, Add	32.58	
For >75 To 150, Add	15.46	
For >500 To 1,000, Deduct	-3.76	
For >1,000 To 2,000, Deduct	-7.34	
For >2,000 To 5,000, Deduct	-11.27	
For >5,000, Deduct	-17.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0045 LF 66" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	170.05	
<i>For Up To 75, Add</i>	35.83	
<i>For >75 To 150, Add</i>	17.01	
<i>For >500 To 1,000, Deduct</i>	-4.13	
<i>For >1,000 To 2,000, Deduct</i>	-8.08	
<i>For >2,000 To 5,000, Deduct</i>	-12.39	
<i>For >5,000, Deduct</i>	-18.83	
33 01 30 71-0046 LF 72" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	185.51	
<i>For Up To 75, Add</i>	39.09	
<i>For >75 To 150, Add</i>	18.55	
<i>For >500 To 1,000, Deduct</i>	-4.51	
<i>For >1,000 To 2,000, Deduct</i>	-8.81	
<i>For >2,000 To 5,000, Deduct</i>	-13.52	
<i>For >5,000, Deduct</i>	-20.54	
33 01 30 71-0047 LF 78" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	200.95	
<i>For Up To 75, Add</i>	42.35	
<i>For >75 To 150, Add</i>	20.10	
<i>For >500 To 1,000, Deduct</i>	-4.88	
<i>For >1,000 To 2,000, Deduct</i>	-9.55	
<i>For >2,000 To 5,000, Deduct</i>	-14.64	
<i>For >5,000, Deduct</i>	-22.25	
33 01 30 71-0048 LF 84" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	216.43	
<i>For Up To 75, Add</i>	45.61	
<i>For >75 To 150, Add</i>	21.64	
<i>For >500 To 1,000, Deduct</i>	-5.26	
<i>For >1,000 To 2,000, Deduct</i>	-10.28	
<i>For >2,000 To 5,000, Deduct</i>	-15.77	
<i>For >5,000, Deduct</i>	-23.96	
33 01 30 71-0049 LF 90" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	231.88	
<i>For Up To 75, Add</i>	48.86	
<i>For >75 To 150, Add</i>	23.19	
<i>For >500 To 1,000, Deduct</i>	-5.63	
<i>For >1,000 To 2,000, Deduct</i>	-11.02	
<i>For >2,000 To 5,000, Deduct</i>	-16.90	
<i>For >5,000, Deduct</i>	-25.68	
33 01 30 71-0050 LF 96" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	247.34	
<i>For Up To 75, Add</i>	52.12	
<i>For >75 To 150, Add</i>	24.73	
<i>For >500 To 1,000, Deduct</i>	-6.01	
<i>For >1,000 To 2,000, Deduct</i>	-11.75	
<i>For >2,000 To 5,000, Deduct</i>	-18.02	
<i>For >5,000, Deduct</i>	-27.39	
33 01 30 71-0051 LF 102" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	262.80	
<i>For Up To 75, Add</i>	55.38	
<i>For >75 To 150, Add</i>	26.28	
<i>For >500 To 1,000, Deduct</i>	-6.38	
<i>For >1,000 To 2,000, Deduct</i>	-12.49	
<i>For >2,000 To 5,000, Deduct</i>	-19.15	
<i>For >5,000, Deduct</i>	-29.10	
33 01 30 71-0052 LF 108" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	278.26	
<i>For Up To 75, Add</i>	58.64	
<i>For >75 To 150, Add</i>	27.83	
<i>For >500 To 1,000, Deduct</i>	-6.76	
<i>For >1,000 To 2,000, Deduct</i>	-13.22	
<i>For >2,000 To 5,000, Deduct</i>	-20.28	
<i>For >5,000, Deduct</i>	-30.81	
33 01 30 71-0053 LF 114" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	293.72	
<i>For Up To 75, Add</i>	61.89	
<i>For >75 To 150, Add</i>	29.37	
<i>For >500 To 1,000, Deduct</i>	-7.13	
<i>For >1,000 To 2,000, Deduct</i>	-13.95	
<i>For >2,000 To 5,000, Deduct</i>	-21.40	
<i>For >5,000, Deduct</i>	-32.52	
33 01 30 71-0054 LF 120" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	309.18	
<i>For Up To 75, Add</i>	65.15	
<i>For >75 To 150, Add</i>	30.92	
<i>For >500 To 1,000, Deduct</i>	-7.51	
<i>For >1,000 To 2,000, Deduct</i>	-14.69	
<i>For >2,000 To 5,000, Deduct</i>	-22.53	
<i>For >5,000, Deduct</i>	-34.23	
33 01 30 71-0055 SF Structure Lining, Spray Applied With 200 mil Structural Polyurethane	9.84	
33 01 30 71-0056 Lining Pipe, Spray Applied With 250 mil Structural Polyurethane <small>(33 01 30 71-0002)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0057 LF 36" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	112.01	
<i>For Up To 75, Add</i>	23.45	
<i>For >75 To 150, Add</i>	11.20	
<i>For >500 To 1,000, Deduct</i>	-2.66	
<i>For >1,000 To 2,000, Deduct</i>	-5.21	
<i>For >2,000 To 5,000, Deduct</i>	-7.98	
<i>For >5,000, Deduct</i>	-12.25	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0058 LF 42" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	130.69	
For Up To 75, Add	27.36	
For >75 To 150, Add	13.07	
For >500 To 1,000, Deduct	-3.10	
For >1,000 To 2,000, Deduct	-6.08	
For >2,000 To 5,000, Deduct	-9.31	
For >5,000, Deduct	-14.29	
33 01 30 71-0059 LF 48" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	149.36	
For Up To 75, Add	31.27	
For >75 To 150, Add	14.94	
For >500 To 1,000, Deduct	-3.55	
For >1,000 To 2,000, Deduct	-6.95	
For >2,000 To 5,000, Deduct	-10.64	
For >5,000, Deduct	-16.33	
33 01 30 71-0060 LF 54" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	168.01	
For Up To 75, Add	35.17	
For >75 To 150, Add	16.80	
For >500 To 1,000, Deduct	-3.99	
For >1,000 To 2,000, Deduct	-7.82	
For >2,000 To 5,000, Deduct	-11.97	
For >5,000, Deduct	-18.37	
33 01 30 71-0061 LF 60" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	186.68	
For Up To 75, Add	39.08	
For >75 To 150, Add	18.67	
For >500 To 1,000, Deduct	-4.43	
For >1,000 To 2,000, Deduct	-8.69	
For >2,000 To 5,000, Deduct	-13.29	
For >5,000, Deduct	-20.41	
33 01 30 71-0062 LF 66" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	205.36	
For Up To 75, Add	42.99	
For >75 To 150, Add	20.54	
For >500 To 1,000, Deduct	-4.88	
For >1,000 To 2,000, Deduct	-9.56	
For >2,000 To 5,000, Deduct	-14.63	
For >5,000, Deduct	-22.46	
33 01 30 71-0063 LF 72" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	224.03	
For Up To 75, Add	46.90	
For >75 To 150, Add	22.40	
For >500 To 1,000, Deduct	-5.32	
For >1,000 To 2,000, Deduct	-10.43	
For >2,000 To 5,000, Deduct	-15.96	
For >5,000, Deduct	-24.50	
33 01 30 71-0064 LF 78" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	242.70	
For Up To 75, Add	50.81	
For >75 To 150, Add	24.27	
For >500 To 1,000, Deduct	-5.76	
For >1,000 To 2,000, Deduct	-11.30	
For >2,000 To 5,000, Deduct	-17.28	
For >5,000, Deduct	-26.54	
33 01 30 71-0065 LF 84" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	261.36	
For Up To 75, Add	54.72	
For >75 To 150, Add	26.14	
For >500 To 1,000, Deduct	-6.20	
For >1,000 To 2,000, Deduct	-12.16	
For >2,000 To 5,000, Deduct	-18.61	
For >5,000, Deduct	-28.58	
33 01 30 71-0066 LF 90" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	280.04	
For Up To 75, Add	58.63	
For >75 To 150, Add	28.00	
For >500 To 1,000, Deduct	-6.65	
For >1,000 To 2,000, Deduct	-13.03	
For >2,000 To 5,000, Deduct	-19.94	
For >5,000, Deduct	-30.62	
33 01 30 71-0067 LF 96" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	298.70	
For Up To 75, Add	62.53	
For >75 To 150, Add	29.87	
For >500 To 1,000, Deduct	-7.09	
For >1,000 To 2,000, Deduct	-13.90	
For >2,000 To 5,000, Deduct	-21.27	
For >5,000, Deduct	-32.66	
33 01 30 71-0068 LF 102" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	317.37	
For Up To 75, Add	66.44	
For >75 To 150, Add	31.74	
For >500 To 1,000, Deduct	-7.53	
For >1,000 To 2,000, Deduct	-14.77	
For >2,000 To 5,000, Deduct	-22.60	
For >5,000, Deduct	-34.70	
33 01 30 71-0069 LF 108" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	336.04	
For Up To 75, Add	70.35	
For >75 To 150, Add	33.60	
For >500 To 1,000, Deduct	-7.98	
For >1,000 To 2,000, Deduct	-15.64	
For >2,000 To 5,000, Deduct	-23.93	
For >5,000, Deduct	-36.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0070 LF 114" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	354.72	
<i>For Up To 75, Add</i>	74.26	
<i>For >75 To 150, Add</i>	35.47	
<i>For >500 To 1,000, Deduct</i>	-8.42	
<i>For >1,000 To 2,000, Deduct</i>	-16.51	
<i>For >2,000 To 5,000, Deduct</i>	-25.26	
<i>For >5,000, Deduct</i>	-38.79	
33 01 30 71-0071 LF 120" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	373.39	
<i>For Up To 75, Add</i>	78.17	
<i>For >75 To 150, Add</i>	37.34	
<i>For >500 To 1,000, Deduct</i>	-8.86	
<i>For >1,000 To 2,000, Deduct</i>	-17.38	
<i>For >2,000 To 5,000, Deduct</i>	-26.59	
<i>For >5,000, Deduct</i>	-40.83	
33 01 30 71-0072 SF Structure Lining, Spray Applied With 250 mil Structural Polyurethane	11.89	
33 01 30 71-0073 Lining Pipe, Spray Applied With 300 mil Structural Polyurethane <small>(33 01 30 71-0002)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0074 LF 36" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	131.40	
<i>For Up To 75, Add</i>	27.38	
<i>For >75 To 150, Add</i>	13.14	
<i>For >500 To 1,000, Deduct</i>	-3.07	
<i>For >1,000 To 2,000, Deduct</i>	-6.03	
<i>For >2,000 To 5,000, Deduct</i>	-9.21	
<i>For >5,000, Deduct</i>	-14.24	
33 01 30 71-0075 LF 42" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	153.30	
<i>For Up To 75, Add</i>	31.95	
<i>For >75 To 150, Add</i>	15.33	
<i>For >500 To 1,000, Deduct</i>	-3.58	
<i>For >1,000 To 2,000, Deduct</i>	-7.03	
<i>For >2,000 To 5,000, Deduct</i>	-10.74	
<i>For >5,000, Deduct</i>	-16.62	
33 01 30 71-0076 LF 48" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	175.20	
<i>For Up To 75, Add</i>	36.51	
<i>For >75 To 150, Add</i>	17.52	
<i>For >500 To 1,000, Deduct</i>	-4.09	
<i>For >1,000 To 2,000, Deduct</i>	-8.04	
<i>For >2,000 To 5,000, Deduct</i>	-12.28	
<i>For >5,000, Deduct</i>	-18.99	
33 01 30 71-0077 LF 54" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	197.10	
<i>For Up To 75, Add</i>	41.07	
<i>For >75 To 150, Add</i>	19.71	
<i>For >500 To 1,000, Deduct</i>	-4.60	
<i>For >1,000 To 2,000, Deduct</i>	-9.04	
<i>For >2,000 To 5,000, Deduct</i>	-13.81	
<i>For >5,000, Deduct</i>	-21.36	
33 01 30 71-0078 LF 60" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	219.00	
<i>For Up To 75, Add</i>	45.64	
<i>For >75 To 150, Add</i>	21.90	
<i>For >500 To 1,000, Deduct</i>	-5.12	
<i>For >1,000 To 2,000, Deduct</i>	-10.05	
<i>For >2,000 To 5,000, Deduct</i>	-15.35	
<i>For >5,000, Deduct</i>	-23.74	
33 01 30 71-0079 LF 66" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	240.90	
<i>For Up To 75, Add</i>	50.20	
<i>For >75 To 150, Add</i>	24.09	
<i>For >500 To 1,000, Deduct</i>	-5.63	
<i>For >1,000 To 2,000, Deduct</i>	-11.05	
<i>For >2,000 To 5,000, Deduct</i>	-16.88	
<i>For >5,000, Deduct</i>	-26.11	
33 01 30 71-0080 LF 72" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	262.79	
<i>For Up To 75, Add</i>	54.76	
<i>For >75 To 150, Add</i>	26.28	
<i>For >500 To 1,000, Deduct</i>	-6.14	
<i>For >1,000 To 2,000, Deduct</i>	-12.05	
<i>For >2,000 To 5,000, Deduct</i>	-18.41	
<i>For >5,000, Deduct</i>	-28.48	
33 01 30 71-0081 LF 78" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	306.70	
<i>For Up To 75, Add</i>	59.33	
<i>For >75 To 150, Add</i>	28.47	
<i>For >500 To 1,000, Deduct</i>	-6.65	
<i>For >1,000 To 2,000, Deduct</i>	-13.06	
<i>For >2,000 To 5,000, Deduct</i>	-19.95	
<i>For >5,000, Deduct</i>	-30.86	
33 01 30 71-0082 LF 84" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	306.59	
<i>For Up To 75, Add</i>	63.89	
<i>For >75 To 150, Add</i>	30.66	
<i>For >500 To 1,000, Deduct</i>	-7.16	
<i>For >1,000 To 2,000, Deduct</i>	-14.06	
<i>For >2,000 To 5,000, Deduct</i>	-21.48	
<i>For >5,000, Deduct</i>	-33.23	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0083 LF 90" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	328.50	
For Up To 75, Add	68.46	
For >75 To 150, Add	32.85	
For >500 To 1,000, Deduct	-7.67	
For >1,000 To 2,000, Deduct	-15.07	
For >2,000 To 5,000, Deduct	-23.02	
For >5,000, Deduct	-35.61	
33 01 30 71-0084 LF 96" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	350.40	
For Up To 75, Add	73.02	
For >75 To 150, Add	35.04	
For >500 To 1,000, Deduct	-8.18	
For >1,000 To 2,000, Deduct	-16.07	
For >2,000 To 5,000, Deduct	-24.55	
For >5,000, Deduct	-37.98	
33 01 30 71-0085 LF 102" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	372.29	
For Up To 75, Add	77.58	
For >75 To 150, Add	37.23	
For >500 To 1,000, Deduct	-8.70	
For >1,000 To 2,000, Deduct	-17.08	
For >2,000 To 5,000, Deduct	-26.09	
For >5,000, Deduct	-40.35	
33 01 30 71-0086 LF 108" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	394.20	
For Up To 75, Add	82.15	
For >75 To 150, Add	39.42	
For >500 To 1,000, Deduct	-9.21	
For >1,000 To 2,000, Deduct	-18.08	
For >2,000 To 5,000, Deduct	-27.62	
For >5,000, Deduct	-42.73	
33 01 30 71-0087 LF 114" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	416.10	
For Up To 75, Add	86.71	
For >75 To 150, Add	41.61	
For >500 To 1,000, Deduct	-9.72	
For >1,000 To 2,000, Deduct	-19.09	
For >2,000 To 5,000, Deduct	-29.16	
For >5,000, Deduct	-45.10	
33 01 30 71-0088 LF 120" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	438.00	
For Up To 75, Add	91.27	
For >75 To 150, Add	43.80	
For >500 To 1,000, Deduct	-10.23	
For >1,000 To 2,000, Deduct	-20.09	
For >2,000 To 5,000, Deduct	-30.69	
For >5,000, Deduct	-47.47	
33 01 30 71-0089 SF Structure Lining, Spray Applied With 300 mil Structural Polyurethane.....	13.94	
33 01 30 71-0090 Lining Pipe, Spray Applied With 400 mil Structural Polyurethane (33 01 30 71-0002)		
Note: Two part structural polyurethane.		
33 01 30 71-0091 LF 36" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	170.21	
For Up To 75, Add	35.27	
For >75 To 150, Add	17.02	
For >500 To 1,000, Deduct	-3.89	
For >1,000 To 2,000, Deduct	-7.67	
For >2,000 To 5,000, Deduct	-11.68	
For >5,000, Deduct	-18.25	
33 01 30 71-0092 LF 42" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	198.58	
For Up To 75, Add	41.15	
For >75 To 150, Add	19.86	
For >500 To 1,000, Deduct	-4.54	
For >1,000 To 2,000, Deduct	-8.94	
For >2,000 To 5,000, Deduct	-13.63	
For >5,000, Deduct	-21.29	
33 01 30 71-0093 LF 48" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	226.94	
For Up To 75, Add	47.02	
For >75 To 150, Add	22.69	
For >500 To 1,000, Deduct	-5.19	
For >1,000 To 2,000, Deduct	-10.22	
For >2,000 To 5,000, Deduct	-15.58	
For >5,000, Deduct	-24.33	
33 01 30 71-0094 LF 54" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	255.32	
For Up To 75, Add	52.90	
For >75 To 150, Add	25.53	
For >500 To 1,000, Deduct	-5.84	
For >1,000 To 2,000, Deduct	-11.50	
For >2,000 To 5,000, Deduct	-17.52	
For >5,000, Deduct	-27.37	
33 01 30 71-0095 LF 60" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	283.67	
For Up To 75, Add	58.78	
For >75 To 150, Add	28.37	
For >500 To 1,000, Deduct	-6.49	
For >1,000 To 2,000, Deduct	-12.78	
For >2,000 To 5,000, Deduct	-19.47	
For >5,000, Deduct	-30.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0096 LF 66" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	312.06	
<i>For Up To 75, Add</i>	64.66	
<i>For >75 To 150, Add</i>	31.21	
<i>For >500 To 1,000, Deduct</i>	-7.14	
<i>For >1,000 To 2,000, Deduct</i>	-14.05	
<i>For >2,000 To 5,000, Deduct</i>	-21.42	
<i>For >5,000, Deduct</i>	-33.45	
33 01 30 71-0097 LF 72" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	340.41	
<i>For Up To 75, Add</i>	70.53	
<i>For >75 To 150, Add</i>	34.04	
<i>For >500 To 1,000, Deduct</i>	-7.79	
<i>For >1,000 To 2,000, Deduct</i>	-15.33	
<i>For >2,000 To 5,000, Deduct</i>	-23.36	
<i>For >5,000, Deduct</i>	-36.49	
33 01 30 71-0098 LF 78" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	368.79	
<i>For Up To 75, Add</i>	76.41	
<i>For >75 To 150, Add</i>	36.88	
<i>For >500 To 1,000, Deduct</i>	-8.44	
<i>For >1,000 To 2,000, Deduct</i>	-16.61	
<i>For >2,000 To 5,000, Deduct</i>	-25.31	
<i>For >5,000, Deduct</i>	-39.53	
33 01 30 71-0099 LF 84" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	397.15	
<i>For Up To 75, Add</i>	82.29	
<i>For >75 To 150, Add</i>	39.72	
<i>For >500 To 1,000, Deduct</i>	-9.09	
<i>For >1,000 To 2,000, Deduct</i>	-17.89	
<i>For >2,000 To 5,000, Deduct</i>	-27.26	
<i>For >5,000, Deduct</i>	-42.57	
33 01 30 71-0100 LF 90" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	425.52	
<i>For Up To 75, Add</i>	88.17	
<i>For >75 To 150, Add</i>	42.55	
<i>For >500 To 1,000, Deduct</i>	-9.74	
<i>For >1,000 To 2,000, Deduct</i>	-19.16	
<i>For >2,000 To 5,000, Deduct</i>	-29.21	
<i>For >5,000, Deduct</i>	-45.61	
33 01 30 71-0101 LF 96" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	453.88	
<i>For Up To 75, Add</i>	94.04	
<i>For >75 To 150, Add</i>	45.39	
<i>For >500 To 1,000, Deduct</i>	-10.38	
<i>For >1,000 To 2,000, Deduct</i>	-20.44	
<i>For >2,000 To 5,000, Deduct</i>	-31.15	
<i>For >5,000, Deduct</i>	-48.65	
33 01 30 71-0102 LF 102" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	482.26	
<i>For Up To 75, Add</i>	99.92	
<i>For >75 To 150, Add</i>	48.23	
<i>For >500 To 1,000, Deduct</i>	-11.03	
<i>For >1,000 To 2,000, Deduct</i>	-21.72	
<i>For >2,000 To 5,000, Deduct</i>	-33.10	
<i>For >5,000, Deduct</i>	-51.70	
33 01 30 71-0103 LF 108" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	510.63	
<i>For Up To 75, Add</i>	105.80	
<i>For >75 To 150, Add</i>	51.06	
<i>For >500 To 1,000, Deduct</i>	-11.68	
<i>For >1,000 To 2,000, Deduct</i>	-23.00	
<i>For >2,000 To 5,000, Deduct</i>	-35.05	
<i>For >5,000, Deduct</i>	-54.74	
33 01 30 71-0104 LF 114" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	538.99	
<i>For Up To 75, Add</i>	111.68	
<i>For >75 To 150, Add</i>	53.90	
<i>For >500 To 1,000, Deduct</i>	-12.33	
<i>For >1,000 To 2,000, Deduct</i>	-24.27	
<i>For >2,000 To 5,000, Deduct</i>	-36.99	
<i>For >5,000, Deduct</i>	-57.78	
33 01 30 71-0105 LF 120" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	567.37	
<i>For Up To 75, Add</i>	117.56	
<i>For >75 To 150, Add</i>	56.74	
<i>For >500 To 1,000, Deduct</i>	-12.98	
<i>For >1,000 To 2,000, Deduct</i>	-25.55	
<i>For >2,000 To 5,000, Deduct</i>	-38.94	
<i>For >5,000, Deduct</i>	-60.82	
33 01 30 71-0106 SF Structure Lining, Spray Applied With 400 mil Structural Polyurethane	18.06	
33 01 30 71-0107 Lining Pipe, Spray Applied With 500 mil Structural Polyurethane <small>(33 01 30 71-0002)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0108 LF 36" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	209.36	
<i>For Up To 75, Add</i>	43.23	
<i>For >75 To 150, Add</i>	20.94	
<i>For >500 To 1,000, Deduct</i>	-4.73	
<i>For >1,000 To 2,000, Deduct</i>	-9.33	
<i>For >2,000 To 5,000, Deduct</i>	-14.19	
<i>For >5,000, Deduct</i>	-22.30	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0109 LF 42" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	244.25	
For Up To 75, Add	50.44	
For >75 To 150, Add	24.43	
For >500 To 1,000, Deduct	-5.52	
For >1,000 To 2,000, Deduct	-10.88	
For >2,000 To 5,000, Deduct	-16.56	
For >5,000, Deduct	-26.01	
33 01 30 71-0110 LF 48" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	279.14	
For Up To 75, Add	57.64	
For >75 To 150, Add	27.91	
For >500 To 1,000, Deduct	-6.31	
For >1,000 To 2,000, Deduct	-12.44	
For >2,000 To 5,000, Deduct	-18.93	
For >5,000, Deduct	-29.73	
33 01 30 71-0111 LF 54" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	314.03	
For Up To 75, Add	64.85	
For >75 To 150, Add	31.40	
For >500 To 1,000, Deduct	-7.10	
For >1,000 To 2,000, Deduct	-13.99	
For >2,000 To 5,000, Deduct	-21.29	
For >5,000, Deduct	-33.44	
33 01 30 71-0112 LF 60" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	348.93	
For Up To 75, Add	72.05	
For >75 To 150, Add	34.89	
For >500 To 1,000, Deduct	-7.89	
For >1,000 To 2,000, Deduct	-15.54	
For >2,000 To 5,000, Deduct	-23.66	
For >5,000, Deduct	-37.16	
33 01 30 71-0113 LF 66" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	383.82	
For Up To 75, Add	79.26	
For >75 To 150, Add	38.38	
For >500 To 1,000, Deduct	-8.67	
For >1,000 To 2,000, Deduct	-17.10	
For >2,000 To 5,000, Deduct	-26.02	
For >5,000, Deduct	-40.88	
33 01 30 71-0114 LF 72" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	418.71	
For Up To 75, Add	86.46	
For >75 To 150, Add	41.87	
For >500 To 1,000, Deduct	-9.46	
For >1,000 To 2,000, Deduct	-18.65	
For >2,000 To 5,000, Deduct	-28.39	
For >5,000, Deduct	-44.59	
33 01 30 71-0115 LF 78" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	453.61	
For Up To 75, Add	93.67	
For >75 To 150, Add	45.36	
For >500 To 1,000, Deduct	-10.25	
For >1,000 To 2,000, Deduct	-20.21	
For >2,000 To 5,000, Deduct	-30.75	
For >5,000, Deduct	-48.31	
33 01 30 71-0116 LF 84" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	488.50	
For Up To 75, Add	100.88	
For >75 To 150, Add	48.85	
For >500 To 1,000, Deduct	-11.04	
For >1,000 To 2,000, Deduct	-21.76	
For >2,000 To 5,000, Deduct	-33.12	
For >5,000, Deduct	-52.03	
33 01 30 71-0117 LF 90" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	523.40	
For Up To 75, Add	108.08	
For >75 To 150, Add	52.34	
For >500 To 1,000, Deduct	-11.83	
For >1,000 To 2,000, Deduct	-23.32	
For >2,000 To 5,000, Deduct	-35.49	
For >5,000, Deduct	-55.74	
33 01 30 71-0118 LF 96" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	558.29	
For Up To 75, Add	115.29	
For >75 To 150, Add	55.83	
For >500 To 1,000, Deduct	-12.62	
For >1,000 To 2,000, Deduct	-24.87	
For >2,000 To 5,000, Deduct	-37.85	
For >5,000, Deduct	-59.46	
33 01 30 71-0119 LF 102" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	593.18	
For Up To 75, Add	122.49	
For >75 To 150, Add	59.32	
For >500 To 1,000, Deduct	-13.41	
For >1,000 To 2,000, Deduct	-26.43	
For >2,000 To 5,000, Deduct	-40.22	
For >5,000, Deduct	-63.17	
33 01 30 71-0120 LF 108" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	628.08	
For Up To 75, Add	129.70	
For >75 To 150, Add	62.81	
For >500 To 1,000, Deduct	-14.19	
For >1,000 To 2,000, Deduct	-27.98	
For >2,000 To 5,000, Deduct	-42.58	
For >5,000, Deduct	-66.89	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0121 LF 114" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	662.97	
<i>For Up To 75, Add</i>	136.90	
<i>For >75 To 150, Add</i>	66.30	
<i>For >500 To 1,000, Deduct</i>	-14.98	
<i>For >1,000 To 2,000, Deduct</i>	-29.54	
<i>For >2,000 To 5,000, Deduct</i>	-44.95	
<i>For >5,000, Deduct</i>	-70.61	
33 01 30 71-0122 LF 120" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	697.86	
<i>For Up To 75, Add</i>	144.11	
<i>For >75 To 150, Add</i>	69.79	
<i>For >500 To 1,000, Deduct</i>	-15.77	
<i>For >1,000 To 2,000, Deduct</i>	-31.09	
<i>For >2,000 To 5,000, Deduct</i>	-47.32	
<i>For >5,000, Deduct</i>	-74.32	
33 01 30 71-0123 SF Structure Lining, Spray Applied With 500 mil Structural Polyurethane	22.22	
 33 01 30 72 Cured-in-Place Pipe Lining (33 01 30)		
33 01 30 72-0001 Cured-In-Place Pipe (CIPP) Relining Underground Pipelines (33 01 30 72)		
Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.		
33 01 30 72-0002 Cured In-Place Pipe (CIPP) Lining Set-Up And Reinsertion (33 01 30 72-0001)		
33 01 30 72-0003 EA Initial Set Up And Final Equipment Removal For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP)	1,543.38	
33 01 30 72-0004 EA Initial Set Up And Final Equipment Removal For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP)	2,572.30	
33 01 30 72-0005 EA Initial Set Up And Final Equipment Removal For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP)	3,858.46	
33 01 30 72-0006 EA Initial Set Up And Final Equipment Removal For Relining > 48" Underground Pipelines Cured In-Place Pipe (CIPP)	5,144.61	
33 01 30 72-0007 EA Move And Reset Up At Different Access/Location For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP)	771.69	
33 01 30 72-0008 EA Move And Reset Up At Different Access/Location For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP)	1,286.16	
33 01 30 72-0009 EA Move And Reset Up At Different Access/Location For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP)	1,607.69	
33 01 30 72-0010 EA Move And Reset Up At Different Access/Location For Relining > 48" Underground Pipelines Cured In-Place Pipe (CIPP)	2,057.84	
33 01 30 72-0011 EA Mixing Truck And Refrigeration For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP)	1,286.16	
Note: Need to mix wet material in bag prior to installation.		
33 01 30 72-0012 EA Mixing Truck And Refrigeration For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP)	3,086.77	
Note: Need to mix wet material in bag prior to installation.		
33 01 30 72-0013 EA Mixing Truck And Refrigeration For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP)	5,144.61	
Note: Need to mix wet material in bag prior to installation.		
33 01 30 72-0014 EA Mixing Truck And Refrigeration For Relining >48" Underground Pipelines Cured In-Place Pipe (CIPP)	7,716.91	
Note: Need to mix wet material in bag prior to installation.		
33 01 30 72-0015 Lining Pipe With Polyester Resin Impregnated Cured In-Place Pipe (CIPP) (33 01 30 72-0001)		
Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection, culvert cleaning and grouting. Use round equivalent pipe sizes for elliptical, oval or arched pipe.		
33 01 30 72-0016 4.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0017 LF 4.5mm Lining 2" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	19.90	
<i>For Vinylster Resin, Add</i>	4.47	
<i>For Epoxy Resin, Add</i>	0.53	
<i>For Up To >10, Add</i>	43.73	
<i>For >10 To 25, Add</i>	35.37	
<i>For >25 To 50, Add</i>	21.54	
<i>For >50 To 100, Add</i>	10.77	
<i>For >500 To 1,000, Deduct</i>	-1.33	
<i>For >1,000 To 2,000, Deduct</i>	-2.17	
<i>For >2,000 To 5,000, Deduct</i>	-4.14	
<i>For >5,000, Deduct</i>	-6.68	
33 01 30 72-0018 LF 4.5mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	23.41	
<i>For Vinylster Resin, Add</i>	6.93	
<i>For Epoxy Resin, Add</i>	0.82	
<i>For Up To >10, Add</i>	45.48	
<i>For >10 To 25, Add</i>	36.25	
<i>For >25 To 50, Add</i>	22.25	
<i>For >50 To 100, Add</i>	11.12	
<i>For >500 To 1,000, Deduct</i>	-1.51	
<i>For >1,000 To 2,000, Deduct</i>	-2.43	
<i>For >2,000 To 5,000, Deduct</i>	-4.57	
<i>For >5,000, Deduct</i>	-7.38	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0019	LF		4.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	26.91	
			For Vinylster Resin, Add	9.38	
			For Epoxy Resin, Add	1.11	
			For Up To >10, Add	47.23	
			For >10 To 25, Add	37.13	
			For >25 To 50, Add	22.95	
			For >50 To 100, Add	11.47	
			For >500 To 1,000, Deduct	-1.68	
			For >1,000 To 2,000, Deduct	-2.69	
			For >2,000 To 5,000, Deduct	-4.99	
			For >5,000, Deduct	-8.08	
33 01 30 72-0020	LF		4.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	35.21	
			For Vinylster Resin, Add	14.29	
			For Epoxy Resin, Add	1.68	
			For Up To >10, Add	54.58	
			For >10 To 25, Add	42.08	
			For >25 To 50, Add	26.27	
			For >50 To 100, Add	13.13	
			For >500 To 1,000, Deduct	-2.13	
			For >1,000 To 2,000, Deduct	-3.38	
			For >2,000 To 5,000, Deduct	-6.15	
			For >5,000, Deduct	-10.00	
33 01 30 72-0021	LF		4.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	43.51	
			For Vinylster Resin, Add	19.20	
			For Epoxy Resin, Add	2.26	
			For Up To >10, Add	61.96	
			For >10 To 25, Add	47.06	
			For >25 To 50, Add	29.61	
			For >50 To 100, Add	14.80	
			For >500 To 1,000, Deduct	-2.58	
			For >1,000 To 2,000, Deduct	-4.07	
			For >2,000 To 5,000, Deduct	-7.31	
			For >5,000, Deduct	-11.92	
33 01 30 72-0022			6mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0023	LF		6mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	26.43	
			For Vinylster Resin, Add	9.04	
			For Epoxy Resin, Add	1.07	
			For Up To >10, Add	46.99	
			For >10 To 25, Add	37.01	
			For >25 To 50, Add	22.85	
			For >50 To 100, Add	11.42	
			For >500 To 1,000, Deduct	-1.66	
			For >1,000 To 2,000, Deduct	-2.66	
			For >2,000 To 5,000, Deduct	-4.93	
			For >5,000, Deduct	-7.99	
33 01 30 72-0024	LF		6mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	31.11	
			For Vinylster Resin, Add	12.32	
			For Epoxy Resin, Add	1.45	
			For Up To >10, Add	49.33	
			For >10 To 25, Add	38.18	
			For >25 To 50, Add	23.79	
			For >50 To 100, Add	11.89	
			For >500 To 1,000, Deduct	-1.89	
			For >1,000 To 2,000, Deduct	-3.01	
			For >2,000 To 5,000, Deduct	-5.49	
			For >5,000, Deduct	-8.92	
33 01 30 72-0025	LF		6mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	41.74	
			For Vinylster Resin, Add	18.87	
			For Epoxy Resin, Add	2.22	
			For Up To >10, Add	57.85	
			For >10 To 25, Add	43.71	
			For >25 To 50, Add	27.58	
			For >50 To 100, Add	13.79	
			For >500 To 1,000, Deduct	-2.46	
			For >1,000 To 2,000, Deduct	-3.87	
			For >2,000 To 5,000, Deduct	-6.93	
			For >5,000, Deduct	-11.31	
33 01 30 72-0026	LF		6mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	52.38	
			For Vinylster Resin, Add	25.41	
			For Epoxy Resin, Add	2.99	
			For Up To >10, Add	66.39	
			For >10 To 25, Add	49.28	
			For >25 To 50, Add	31.38	
			For >50 To 100, Add	15.69	
			For >500 To 1,000, Deduct	-3.02	
			For >1,000 To 2,000, Deduct	-4.73	
			For >2,000 To 5,000, Deduct	-8.38	
			For >5,000, Deduct	-13.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0027 LF 6mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	63.14	
For Vinylster Resin, Add	31.96	
For Epoxy Resin, Add	3.77	
For Up To >10, Add	75.30	
For >10 To 25, Add	55.14	
For >25 To 50, Add	35.37	
For >50 To 100, Add	17.68	
For >500 To 1,000, Deduct	-3.59	
For >1,000 To 2,000, Deduct	-5.61	
For >2,000 To 5,000, Deduct	-9.85	
For >5,000, Deduct	-16.13	
33 01 30 72-0028 LF 6mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	74.29	
For Vinylster Resin, Add	38.50	
For Epoxy Resin, Add	4.54	
For Up To >10, Add	85.37	
For >10 To 25, Add	61.98	
For >25 To 50, Add	39.94	
For >50 To 100, Add	19.97	
For >500 To 1,000, Deduct	-4.20	
For >1,000 To 2,000, Deduct	-6.54	
For >2,000 To 5,000, Deduct	-11.42	
For >5,000, Deduct	-18.72	
33 01 30 72-0029 7.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0030 LF 7.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	35.16	
For Vinylster Resin, Add	15.16	
For Epoxy Resin, Add	1.79	
For Up To >10, Add	51.36	
For >10 To 25, Add	39.19	
For >25 To 50, Add	24.60	
For >50 To 100, Add	12.30	
For >500 To 1,000, Deduct	-2.10	
For >1,000 To 2,000, Deduct	-3.31	
For >2,000 To 5,000, Deduct	-5.98	
For >5,000, Deduct	-9.73	
33 01 30 72-0031 LF 7.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	48.13	
For Vinylster Resin, Add	23.34	
For Epoxy Resin, Add	2.75	
For Up To >10, Add	61.04	
For >10 To 25, Add	45.31	
For >25 To 50, Add	28.85	
For >50 To 100, Add	14.43	
For >500 To 1,000, Deduct	-2.78	
For >1,000 To 2,000, Deduct	-4.35	
For >2,000 To 5,000, Deduct	-7.70	
For >5,000, Deduct	-12.58	
33 01 30 72-0032 LF 7.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	61.11	
For Vinylster Resin, Add	31.52	
For Epoxy Resin, Add	3.71	
For Up To >10, Add	70.76	
For >10 To 25, Add	51.46	
For >25 To 50, Add	33.13	
For >50 To 100, Add	16.56	
For >500 To 1,000, Deduct	-3.46	
For >1,000 To 2,000, Deduct	-5.39	
For >2,000 To 5,000, Deduct	-9.42	
For >5,000, Deduct	-15.44	
33 01 30 72-0033 LF 7.5mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	74.21	
For Vinylster Resin, Add	39.70	
For Epoxy Resin, Add	4.68	
For Up To >10, Add	80.83	
For >10 To 25, Add	57.91	
For >25 To 50, Add	37.58	
For >50 To 100, Add	18.79	
For >500 To 1,000, Deduct	-4.15	
For >1,000 To 2,000, Deduct	-6.44	
For >2,000 To 5,000, Deduct	-11.18	
For >5,000, Deduct	-18.34	
33 01 30 72-0034 LF 7.5mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	87.69	
For Vinylster Resin, Add	47.88	
For Epoxy Resin, Add	5.64	
For Up To >10, Add	92.07	
For >10 To 25, Add	65.33	
For >25 To 50, Add	42.62	
For >50 To 100, Add	21.31	
For >500 To 1,000, Deduct	-4.87	
For >1,000 To 2,000, Deduct	-7.54	
For >2,000 To 5,000, Deduct	-13.03	
For >5,000, Deduct	-21.40	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0035 LF 7.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	107.81	
For Vinylster Resin, Add	60.16	
For Epoxy Resin, Add	7.09	
For Up To >10, Add	108.58	
For >10 To 25, Add	76.16	
For >25 To 50, Add	49.99	
For >50 To 100, Add	25.00	
For >500 To 1,000, Deduct	-5.94	
For >1,000 To 2,000, Deduct	-9.18	
For >2,000 To 5,000, Deduct	-15.78	
For >5,000, Deduct	-25.94	
33 01 30 72-0036 LF 7.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	128.16	
For Vinylster Resin, Add	72.43	
For Epoxy Resin, Add	8.54	
For Up To >10, Add	125.81	
For >10 To 25, Add	87.59	
For >25 To 50, Add	57.73	
For >50 To 100, Add	28.86	
For >500 To 1,000, Deduct	-7.03	
For >1,000 To 2,000, Deduct	-10.85	
For >2,000 To 5,000, Deduct	-18.59	
For >5,000, Deduct	-30.57	
33 01 30 72-0037 9mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0038 LF 9mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	54.38	
For Vinylster Resin, Add	27.71	
For Epoxy Resin, Add	3.27	
For Up To >10, Add	64.17	
For >10 To 25, Add	46.87	
For >25 To 50, Add	30.10	
For >50 To 100, Add	15.05	
For >500 To 1,000, Deduct	-3.09	
For >1,000 To 2,000, Deduct	-4.82	
For >2,000 To 5,000, Deduct	-8.45	
For >5,000, Deduct	-13.83	
33 01 30 72-0039 LF 9mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	69.70	
For Vinylster Resin, Add	37.53	
For Epoxy Resin, Add	4.42	
For Up To >10, Add	75.05	
For >10 To 25, Add	53.61	
For >25 To 50, Add	34.84	
For >50 To 100, Add	17.42	
For >500 To 1,000, Deduct	-3.89	
For >1,000 To 2,000, Deduct	-6.03	
For >2,000 To 5,000, Deduct	-10.45	
For >5,000, Deduct	-17.16	
33 01 30 72-0040 LF 9mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	85.14	
For Vinylster Resin, Add	47.36	
For Epoxy Resin, Add	5.58	
For Up To >10, Add	86.30	
For >10 To 25, Add	60.64	
For >25 To 50, Add	39.77	
For >50 To 100, Add	19.88	
For >500 To 1,000, Deduct	-4.69	
For >1,000 To 2,000, Deduct	-7.26	
For >2,000 To 5,000, Deduct	-12.49	
For >5,000, Deduct	-20.53	
33 01 30 72-0041 LF 9mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	100.96	
For Vinylster Resin, Add	57.17	
For Epoxy Resin, Add	6.74	
For Up To >10, Add	98.71	
For >10 To 25, Add	68.64	
For >25 To 50, Add	45.27	
For >50 To 100, Add	22.63	
For >500 To 1,000, Deduct	-5.53	
For >1,000 To 2,000, Deduct	-8.54	
For >2,000 To 5,000, Deduct	-14.62	
For >5,000, Deduct	-24.05	
33 01 30 72-0042 LF 9mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	124.58	
For Vinylster Resin, Add	71.90	
For Epoxy Resin, Add	8.47	
For Up To >10, Add	116.97	
For >10 To 25, Add	80.35	
For >25 To 50, Add	53.35	
For >50 To 100, Add	26.67	
For >500 To 1,000, Deduct	-6.78	
For >1,000 To 2,000, Deduct	-10.44	
For >2,000 To 5,000, Deduct	-17.79	
For >5,000, Deduct	-29.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0043 LF 9mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	148.44	
For Vinylster Resin, Add	86.63	
For Epoxy Resin, Add	10.21	
For Up To >10, Add	135.95	
For >10 To 25, Add	92.66	
For >25 To 50, Add	61.79	
For >50 To 100, Add	30.89	
For >500 To 1,000, Deduct	-8.04	
For >1,000 To 2,000, Deduct	-12.37	
For >2,000 To 5,000, Deduct	-21.02	
For >5,000, Deduct	-34.63	
33 01 30 72-0044 LF 9mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	171.53	
For Vinylster Resin, Add	101.35	
For Epoxy Resin, Add	11.94	
For Up To >10, Add	152.64	
For >10 To 25, Add	103.07	
For >25 To 50, Add	69.08	
For >50 To 100, Add	34.54	
For >500 To 1,000, Deduct	-9.25	
For >1,000 To 2,000, Deduct	-14.20	
For >2,000 To 5,000, Deduct	-24.06	
For >5,000, Deduct	-39.66	
33 01 30 72-0045 LF 9mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	195.02	
For Vinylster Resin, Add	116.07	
For Epoxy Resin, Add	13.68	
For Up To >10, Add	170.51	
For >10 To 25, Add	114.46	
For >25 To 50, Add	76.96	
For >50 To 100, Add	38.48	
For >500 To 1,000, Deduct	-10.48	
For >1,000 To 2,000, Deduct	-16.09	
For >2,000 To 5,000, Deduct	-27.20	
For >5,000, Deduct	-44.84	
33 01 30 72-0046 10.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0047 LF 10.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	141.21	
For Vinylster Resin, Add	83.54	
For Epoxy Resin, Add	9.85	
For Up To >10, Add	125.28	
For >10 To 25, Add	84.51	
For >25 To 50, Add	56.67	
For >50 To 100, Add	28.34	
For >500 To 1,000, Deduct	-7.61	
For >1,000 To 2,000, Deduct	-11.68	
For >2,000 To 5,000, Deduct	-19.79	
For >5,000, Deduct	-32.62	
33 01 30 72-0048 LF 10.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	168.58	
For Vinylster Resin, Add	100.72	
For Epoxy Resin, Add	11.87	
For Up To >10, Add	146.02	
For >10 To 25, Add	97.70	
For >25 To 50, Add	65.81	
For >50 To 100, Add	32.91	
For >500 To 1,000, Deduct	-9.05	
For >1,000 To 2,000, Deduct	-13.88	
For >2,000 To 5,000, Deduct	-23.44	
For >5,000, Deduct	-38.65	
33 01 30 72-0049 LF 10.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	195.18	
For Vinylster Resin, Add	117.90	
For Epoxy Resin, Add	13.90	
For Up To >10, Add	164.47	
For >10 To 25, Add	108.98	
For >25 To 50, Add	73.81	
For >50 To 100, Add	36.91	
For >500 To 1,000, Deduct	-10.43	
For >1,000 To 2,000, Deduct	-15.98	
For >2,000 To 5,000, Deduct	-26.90	
For >5,000, Deduct	-44.39	
33 01 30 72-0050 LF 10.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	222.18	
For Vinylster Resin, Add	135.09	
For Epoxy Resin, Add	15.92	
For Up To >10, Add	184.09	
For >10 To 25, Add	121.25	
For >25 To 50, Add	82.40	
For >50 To 100, Add	41.20	
For >500 To 1,000, Deduct	-11.84	
For >1,000 To 2,000, Deduct	-18.12	
For >2,000 To 5,000, Deduct	-30.46	
For >5,000, Deduct	-50.28	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0051 LF 10.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	249.67	
For Vinylster Resin, Add	152.26	
For Epoxy Resin, Add	17.95	
For Up To >10, Add	205.21	
For >10 To 25, Add	134.76	
For >25 To 50, Add	91.73	
For >50 To 100, Add	45.86	
For >500 To 1,000, Deduct	-13.29	
For >1,000 To 2,000, Deduct	-20.33	
For >2,000 To 5,000, Deduct	-34.14	
For >5,000, Deduct	-56.36	
33 01 30 72-0052 LF 10.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	277.82	
For Vinylster Resin, Add	169.45	
For Epoxy Resin, Add	19.97	
For Up To >10, Add	228.29	
For >10 To 25, Add	149.89	
For >25 To 50, Add	102.04	
For >50 To 100, Add	51.02	
For >500 To 1,000, Deduct	-14.78	
For >1,000 To 2,000, Deduct	-22.62	
For >2,000 To 5,000, Deduct	-37.99	
For >5,000, Deduct	-62.71	
33 01 30 72-0053 LF 10.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	331.42	
For Vinylster Resin, Add	203.81	
For Epoxy Resin, Add	24.02	
For Up To >10, Add	266.36	
For >10 To 25, Add	173.44	
For >25 To 50, Add	118.62	
For >50 To 100, Add	59.31	
For >500 To 1,000, Deduct	-17.58	
For >1,000 To 2,000, Deduct	-26.87	
For >2,000 To 5,000, Deduct	-45.00	
For >5,000, Deduct	-74.34	
33 01 30 72-0054 12mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0055 LF 12mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	157.71	
For Vinylster Resin, Add	95.09	
For Epoxy Resin, Add	11.21	
For Up To >10, Add	133.53	
For >10 To 25, Add	88.64	
For >25 To 50, Add	59.97	
For >50 To 100, Add	29.99	
For >500 To 1,000, Deduct	-8.43	
For >1,000 To 2,000, Deduct	-12.92	
For >2,000 To 5,000, Deduct	-21.77	
For >5,000, Deduct	-35.92	
33 01 30 72-0056 LF 12mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	188.58	
For Vinylster Resin, Add	114.72	
For Epoxy Resin, Add	13.52	
For Up To >10, Add	156.02	
For >10 To 25, Add	102.70	
For >25 To 50, Add	69.81	
For >50 To 100, Add	34.91	
For >500 To 1,000, Deduct	-10.05	
For >1,000 To 2,000, Deduct	-15.38	
For >2,000 To 5,000, Deduct	-25.84	
For >5,000, Deduct	-42.65	
33 01 30 72-0057 LF 12mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	218.69	
For Vinylster Resin, Add	134.36	
For Epoxy Resin, Add	15.84	
For Up To >10, Add	176.22	
For >10 To 25, Add	114.86	
For >25 To 50, Add	78.51	
For >50 To 100, Add	39.26	
For >500 To 1,000, Deduct	-11.60	
For >1,000 To 2,000, Deduct	-17.74	
For >2,000 To 5,000, Deduct	-29.72	
For >5,000, Deduct	-49.09	
33 01 30 72-0058 LF 12mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	249.19	
For Vinylster Resin, Add	153.99	
For Epoxy Resin, Add	18.15	
For Up To >10, Add	197.60	
For >10 To 25, Add	128.00	
For >25 To 50, Add	87.80	
For >50 To 100, Add	43.90	
For >500 To 1,000, Deduct	-13.19	
For >1,000 To 2,000, Deduct	-20.15	
For >2,000 To 5,000, Deduct	-33.70	
For >5,000, Deduct	-55.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0059 LF 12mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	280.19	
For Vinylster Resin, Add	173.63	
For Epoxy Resin, Add	20.46	
For Up To >10, Add	220.47	
For >10 To 25, Add	142.39	
For >25 To 50, Add	97.83	
For >50 To 100, Add	48.92	
For >500 To 1,000, Deduct	-14.81	
For >1,000 To 2,000, Deduct	-22.62	
For >2,000 To 5,000, Deduct	-37.80	
For >5,000, Deduct	-62.47	
33 01 30 72-0060 LF 12mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	311.84	
For Vinylster Resin, Add	193.26	
For Epoxy Resin, Add	22.78	
For Up To >10, Add	245.30	
For >10 To 25, Add	158.40	
For >25 To 50, Add	108.84	
For >50 To 100, Add	54.42	
For >500 To 1,000, Deduct	-16.49	
For >1,000 To 2,000, Deduct	-25.18	
For >2,000 To 5,000, Deduct	-42.07	
For >5,000, Deduct	-69.52	
33 01 30 72-0061 LF 12mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	372.46	
For Vinylster Resin, Add	232.54	
For Epoxy Resin, Add	27.41	
For Up To >10, Add	286.88	
For >10 To 25, Add	183.70	
For >25 To 50, Add	126.83	
For >50 To 100, Add	63.42	
For >500 To 1,000, Deduct	-19.63	
For >1,000 To 2,000, Deduct	-29.95	
For >2,000 To 5,000, Deduct	-49.93	
For >5,000, Deduct	-82.54	
33 01 30 72-0062 LF 12mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	434.21	
For Vinylster Resin, Add	271.81	
For Epoxy Resin, Add	32.03	
For Up To >10, Add	331.88	
For >10 To 25, Add	211.85	
For >25 To 50, Add	146.53	
For >50 To 100, Add	73.26	
For >500 To 1,000, Deduct	-22.86	
For >1,000 To 2,000, Deduct	-34.86	
For >2,000 To 5,000, Deduct	-58.07	
For >5,000, Deduct	-96.02	
33 01 30 72-0063 LF 12mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	498.03	
For Vinylster Resin, Add	311.08	
For Epoxy Resin, Add	36.66	
For Up To >10, Add	383.09	
For >10 To 25, Add	245.18	
For >25 To 50, Add	169.33	
For >50 To 100, Add	84.66	
For >500 To 1,000, Deduct	-26.24	
For >1,000 To 2,000, Deduct	-40.03	
For >2,000 To 5,000, Deduct	-66.74	
For >5,000, Deduct	-110.33	
33 01 30 72-0064 13.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0065 LF 13.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	174.07	
For Vinylster Resin, Add	106.54	
For Epoxy Resin, Add	12.56	
For Up To >10, Add	141.71	
For >10 To 25, Add	92.73	
For >25 To 50, Add	63.25	
For >50 To 100, Add	31.62	
For >500 To 1,000, Deduct	-9.25	
For >1,000 To 2,000, Deduct	-14.15	
For >2,000 To 5,000, Deduct	-23.73	
For >5,000, Deduct	-39.19	
33 01 30 72-0066 LF 13.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	208.45	
For Vinylster Resin, Add	128.63	
For Epoxy Resin, Add	15.16	
For Up To >10, Add	165.95	
For >10 To 25, Add	107.67	
For >25 To 50, Add	73.79	
For >50 To 100, Add	36.89	
For >500 To 1,000, Deduct	-11.04	
For >1,000 To 2,000, Deduct	-16.87	
For >2,000 To 5,000, Deduct	-28.22	
For >5,000, Deduct	-46.63	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0067 LF 13.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	242.07	
For Vinlyester Resin, Add	150.72	
For Epoxy Resin, Add	17.76	
For Up To >10, Add	187.91	
For >10 To 25, Add	120.71	
For >25 To 50, Add	83.19	
For >50 To 100, Add	41.59	
For >500 To 1,000, Deduct	-12.77	
For >1,000 To 2,000, Deduct	-19.49	
For >2,000 To 5,000, Deduct	-32.53	
For >5,000, Deduct	-53.76	
33 01 30 72-0068 LF 13.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	276.07	
For Vinlyester Resin, Add	172.81	
For Epoxy Resin, Add	20.37	
For Up To >10, Add	211.04	
For >10 To 25, Add	134.72	
For >25 To 50, Add	93.17	
For >50 To 100, Add	46.59	
For >500 To 1,000, Deduct	-14.53	
For >1,000 To 2,000, Deduct	-22.17	
For >2,000 To 5,000, Deduct	-36.92	
For >5,000, Deduct	-61.05	
33 01 30 72-0069 LF 13.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	310.58	
For Vinlyester Resin, Add	194.90	
For Epoxy Resin, Add	22.97	
For Up To >10, Add	235.67	
For >10 To 25, Add	149.98	
For >25 To 50, Add	103.91	
For >50 To 100, Add	51.96	
For >500 To 1,000, Deduct	-16.33	
For >1,000 To 2,000, Deduct	-24.90	
For >2,000 To 5,000, Deduct	-41.45	
For >5,000, Deduct	-68.55	
33 01 30 72-0070 LF 13.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	345.74	
For Vinlyester Resin, Add	216.99	
For Epoxy Resin, Add	25.57	
For Up To >10, Add	262.25	
For >10 To 25, Add	166.87	
For >25 To 50, Add	115.62	
For >50 To 100, Add	57.81	
For >500 To 1,000, Deduct	-18.18	
For >1,000 To 2,000, Deduct	-27.72	
For >2,000 To 5,000, Deduct	-46.14	
For >5,000, Deduct	-76.30	
33 01 30 72-0071 LF 13.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	413.36	
For Vinlyester Resin, Add	261.17	
For Epoxy Resin, Add	30.78	
For Up To >10, Add	307.33	
For >10 To 25, Add	193.93	
For >25 To 50, Add	135.01	
For >50 To 100, Add	67.51	
For >500 To 1,000, Deduct	-21.67	
For >1,000 To 2,000, Deduct	-33.02	
For >2,000 To 5,000, Deduct	-54.84	
For >5,000, Deduct	-90.72	
33 01 30 72-0072 LF 13.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	482.13	
For Vinlyester Resin, Add	305.35	
For Epoxy Resin, Add	35.99	
For Up To >10, Add	355.84	
For >10 To 25, Add	223.83	
For >25 To 50, Add	156.11	
For >50 To 100, Add	78.05	
For >500 To 1,000, Deduct	-25.25	
For >1,000 To 2,000, Deduct	-38.46	
For >2,000 To 5,000, Deduct	-63.82	
For >5,000, Deduct	-105.61	
33 01 30 72-0073 LF 13.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	552.96	
For Vinlyester Resin, Add	349.53	
For Epoxy Resin, Add	41.19	
For Up To >10, Add	410.56	
For >10 To 25, Add	258.91	
For >25 To 50, Add	180.31	
For >50 To 100, Add	90.16	
For >500 To 1,000, Deduct	-28.99	
For >1,000 To 2,000, Deduct	-44.15	
For >2,000 To 5,000, Deduct	-73.33	
For >5,000, Deduct	-121.32	

33 01 30 72-0074 15mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0075 LF 15mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	190.29	
For Vinyl ester Resin, Add	117.89	
For Epoxy Resin, Add	13.89	
For Up To >10, Add	149.82	
For >10 To 25, Add	96.78	
For >25 To 50, Add	66.49	
For >50 To 100, Add	33.24	
For >500 To 1,000, Deduct	-10.06	
For >1,000 To 2,000, Deduct	-15.37	
For >2,000 To 5,000, Deduct	-25.68	
For >5,000, Deduct	-42.43	
33 01 30 72-0076 LF 15mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	228.17	
For Vinyl ester Resin, Add	142.44	
For Epoxy Resin, Add	16.79	
For Up To >10, Add	175.81	
For >10 To 25, Add	112.60	
For >25 To 50, Add	77.73	
For >50 To 100, Add	38.87	
For >500 To 1,000, Deduct	-12.03	
For >1,000 To 2,000, Deduct	-18.35	
For >2,000 To 5,000, Deduct	-30.59	
For >5,000, Deduct	-50.57	
33 01 30 72-0077 LF 15mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	265.30	
For Vinyl ester Resin, Add	166.99	
For Epoxy Resin, Add	19.68	
For Up To >10, Add	199.53	
For >10 To 25, Add	126.51	
For >25 To 50, Add	87.84	
For >50 To 100, Add	43.92	
For >500 To 1,000, Deduct	-13.93	
For >1,000 To 2,000, Deduct	-21.24	
For >2,000 To 5,000, Deduct	-35.31	
For >5,000, Deduct	-58.41	
33 01 30 72-0078 LF 15mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	302.81	
For Vinyl ester Resin, Add	191.53	
For Epoxy Resin, Add	22.57	
For Up To >10, Add	224.41	
For >10 To 25, Add	141.40	
For >25 To 50, Add	98.52	
For >50 To 100, Add	49.26	
For >500 To 1,000, Deduct	-15.87	
For >1,000 To 2,000, Deduct	-24.17	
For >2,000 To 5,000, Deduct	-40.13	
For >5,000, Deduct	-66.40	
33 01 30 72-0079 LF 15mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	340.83	
For Vinyl ester Resin, Add	216.08	
For Epoxy Resin, Add	25.47	
For Up To >10, Add	250.79	
For >10 To 25, Add	157.55	
For >25 To 50, Add	109.96	
For >50 To 100, Add	54.98	
For >500 To 1,000, Deduct	-17.85	
For >1,000 To 2,000, Deduct	-27.17	
For >2,000 To 5,000, Deduct	-45.08	
For >5,000, Deduct	-74.60	
33 01 30 72-0080 LF 15mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	379.49	
For Vinyl ester Resin, Add	240.62	
For Epoxy Resin, Add	28.36	
For Up To >10, Add	279.12	
For >10 To 25, Add	175.31	
For >25 To 50, Add	122.37	
For >50 To 100, Add	61.19	
For >500 To 1,000, Deduct	-19.87	
For >1,000 To 2,000, Deduct	-30.25	
For >2,000 To 5,000, Deduct	-50.19	
For >5,000, Deduct	-83.05	
33 01 30 72-0081 LF 15mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	454.13	
For Vinyl ester Resin, Add	289.71	
For Epoxy Resin, Add	34.14	
For Up To >10, Add	327.72	
For >10 To 25, Add	204.12	
For >25 To 50, Add	143.16	
For >50 To 100, Add	71.58	
For >500 To 1,000, Deduct	-23.71	
For >1,000 To 2,000, Deduct	-36.07	
For >2,000 To 5,000, Deduct	-59.73	
For >5,000, Deduct	-98.88	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0082	LF		15mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	529.91	
			For Vinlyester Resin, Add	338.80	
			For Epoxy Resin, Add	39.93	
			For Up To >10, Add	379.73	
			For >10 To 25, Add	235.78	
			For >25 To 50, Add	165.67	
			For >50 To 100, Add	82.83	
			For >500 To 1,000, Deduct	-27.64	
			For >1,000 To 2,000, Deduct	-42.04	
			For >2,000 To 5,000, Deduct	-69.56	
			For >5,000, Deduct	-115.16	
33 01 30 72-0083	LF		15mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	607.76	
			For Vinlyester Resin, Add	387.89	
			For Epoxy Resin, Add	45.72	
			For Up To >10, Add	437.96	
			For >10 To 25, Add	272.61	
			For >25 To 50, Add	191.27	
			For >50 To 100, Add	95.64	
			For >500 To 1,000, Deduct	-31.73	
			For >1,000 To 2,000, Deduct	-48.26	
			For >2,000 To 5,000, Deduct	-79.90	
			For >5,000, Deduct	-132.28	
33 01 30 72-0084			16.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0085	LF		16.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	247.76	
			For Vinlyester Resin, Add	156.15	
			For Epoxy Resin, Add	18.40	
			For Up To >10, Add	185.61	
			For >10 To 25, Add	117.49	
			For >25 To 50, Add	81.65	
			For >50 To 100, Add	40.82	
			For >500 To 1,000, Deduct	-13.01	
			For >1,000 To 2,000, Deduct	-19.82	
			For >2,000 To 5,000, Deduct	-32.94	
			For >5,000, Deduct	-54.49	
33 01 30 72-0086	LF		16.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	288.39	
			For Vinlyester Resin, Add	183.15	
			For Epoxy Resin, Add	21.59	
			For Up To >10, Add	211.07	
			For >10 To 25, Add	132.29	
			For >25 To 50, Add	92.45	
			For >50 To 100, Add	46.23	
			For >500 To 1,000, Deduct	-15.09	
			For >1,000 To 2,000, Deduct	-22.97	
			For >2,000 To 5,000, Deduct	-38.08	
			For >5,000, Deduct	-63.03	
33 01 30 72-0087	LF		16.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	329.41	
			For Vinlyester Resin, Add	210.15	
			For Epoxy Resin, Add	24.77	
			For Up To >10, Add	237.71	
			For >10 To 25, Add	148.05	
			For >25 To 50, Add	103.84	
			For >50 To 100, Add	51.92	
			For >500 To 1,000, Deduct	-17.20	
			For >1,000 To 2,000, Deduct	-26.17	
			For >2,000 To 5,000, Deduct	-43.33	
			For >5,000, Deduct	-71.72	
33 01 30 72-0088	LF		16.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	370.93	
			For Vinlyester Resin, Add	237.15	
			For Epoxy Resin, Add	27.95	
			For Up To >10, Add	265.84	
			For >10 To 25, Add	165.07	
			For >25 To 50, Add	115.98	
			For >50 To 100, Add	57.99	
			For >500 To 1,000, Deduct	-19.35	
			For >1,000 To 2,000, Deduct	-29.43	
			For >2,000 To 5,000, Deduct	-48.69	
			For >5,000, Deduct	-80.62	
33 01 30 72-0089	LF		16.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	413.11	
			For Vinlyester Resin, Add	264.15	
			For Epoxy Resin, Add	31.13	
			For Up To >10, Add	295.93	
			For >10 To 25, Add	183.72	
			For >25 To 50, Add	129.10	
			For >50 To 100, Add	64.55	
			For >500 To 1,000, Deduct	-21.55	
			For >1,000 To 2,000, Deduct	-32.77	
			For >2,000 To 5,000, Deduct	-54.22	
			For >5,000, Deduct	-89.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0090 LF 16.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	494.76	
<i>For Vinlyester Resin, Add</i>	318.15	
<i>For Epoxy Resin, Add</i>	37.50	
<i>For Up To >10, Add</i>	348.03	
<i>For >10 To 25, Add</i>	214.28	
<i>For >25 To 50, Add</i>	151.29	
<i>For >50 To 100, Add</i>	75.65	
<i>For >500 To 1,000, Deduct</i>	-25.74	
<i>For >1,000 To 2,000, Deduct</i>	-39.12	
<i>For >2,000 To 5,000, Deduct</i>	-64.61	
<i>For >5,000, Deduct</i>	-107.00	
33 01 30 72-0091 LF 16.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	577.55	
<i>For Vinlyester Resin, Add</i>	372.15	
<i>For Epoxy Resin, Add</i>	43.86	
<i>For Up To >10, Add</i>	403.55	
<i>For >10 To 25, Add</i>	247.69	
<i>For >25 To 50, Add</i>	175.19	
<i>For >50 To 100, Add</i>	87.60	
<i>For >500 To 1,000, Deduct</i>	-30.03	
<i>For >1,000 To 2,000, Deduct</i>	-45.61	
<i>For >2,000 To 5,000, Deduct</i>	-75.27	
<i>For >5,000, Deduct</i>	-124.69	
33 01 30 72-0092 LF 16.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	662.41	
<i>For Vinlyester Resin, Add</i>	426.15	
<i>For Epoxy Resin, Add</i>	50.22	
<i>For Up To >10, Add</i>	465.28	
<i>For >10 To 25, Add</i>	286.27	
<i>For >25 To 50, Add</i>	202.20	
<i>For >50 To 100, Add</i>	101.10	
<i>For >500 To 1,000, Deduct</i>	-34.46	
<i>For >1,000 To 2,000, Deduct</i>	-52.36	
<i>For >2,000 To 5,000, Deduct</i>	-86.46	
<i>For >5,000, Deduct</i>	-143.21	
33 01 30 72-0093 LF 16.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	746.37	
<i>For Vinlyester Resin, Add</i>	480.14	
<i>For Epoxy Resin, Add</i>	56.59	
<i>For Up To >10, Add</i>	524.31	
<i>For >10 To 25, Add</i>	322.61	
<i>For >25 To 50, Add</i>	227.86	
<i>For >50 To 100, Add</i>	113.93	
<i>For >500 To 1,000, Deduct</i>	-38.83	
<i>For >1,000 To 2,000, Deduct</i>	-59.00	
<i>For >2,000 To 5,000, Deduct</i>	-97.42	
<i>For >5,000, Deduct</i>	-161.36	
33 01 30 72-0094 18mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0095 LF 18mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	267.86	
<i>For Vinlyester Resin, Add</i>	169.76	
<i>For Epoxy Resin, Add</i>	20.01	
<i>For Up To >10, Add</i>	197.28	
<i>For >10 To 25, Add</i>	123.98	
<i>For >25 To 50, Add</i>	86.51	
<i>For >50 To 100, Add</i>	43.26	
<i>For >500 To 1,000, Deduct</i>	-14.03	
<i>For >1,000 To 2,000, Deduct</i>	-21.36	
<i>For >2,000 To 5,000, Deduct</i>	-35.44	
<i>For >5,000, Deduct</i>	-58.64	
33 01 30 72-0096 LF 18mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	312.12	
<i>For Vinlyester Resin, Add</i>	199.22	
<i>For Epoxy Resin, Add</i>	23.48	
<i>For Up To >10, Add</i>	224.86	
<i>For >10 To 25, Add</i>	139.95	
<i>For >25 To 50, Add</i>	98.20	
<i>For >50 To 100, Add</i>	49.10	
<i>For >500 To 1,000, Deduct</i>	-16.29	
<i>For >1,000 To 2,000, Deduct</i>	-24.79	
<i>For >2,000 To 5,000, Deduct</i>	-41.03	
<i>For >5,000, Deduct</i>	-67.93	
33 01 30 72-0097 LF 18mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	356.65	
<i>For Vinlyester Resin, Add</i>	228.68	
<i>For Epoxy Resin, Add</i>	26.95	
<i>For Up To >10, Add</i>	253.25	
<i>For >10 To 25, Add</i>	156.60	
<i>For >25 To 50, Add</i>	110.29	
<i>For >50 To 100, Add</i>	55.15	
<i>For >500 To 1,000, Deduct</i>	-18.58	
<i>For >1,000 To 2,000, Deduct</i>	-28.25	
<i>For >2,000 To 5,000, Deduct</i>	-46.69	
<i>For >5,000, Deduct</i>	-77.32	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0098 LF 18mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	401.82	
For Vinlyester Resin, Add	258.13	
For Epoxy Resin, Add	30.42	
For Up To >10, Add	283.56	
For >10 To 25, Add	174.84	
For >25 To 50, Add	123.34	
For >50 To 100, Add	61.67	
For >500 To 1,000, Deduct	-20.92	
For >1,000 To 2,000, Deduct	-31.79	
For >2,000 To 5,000, Deduct	-52.52	
For >5,000, Deduct	-86.98	
33 01 30 72-0099 LF 18mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	447.49	
For Vinlyester Resin, Add	287.58	
For Epoxy Resin, Add	33.89	
For Up To >10, Add	315.40	
For >10 To 25, Add	194.36	
For >25 To 50, Add	137.16	
For >50 To 100, Add	68.58	
For >500 To 1,000, Deduct	-23.29	
For >1,000 To 2,000, Deduct	-35.39	
For >2,000 To 5,000, Deduct	-58.46	
For >5,000, Deduct	-96.83	
33 01 30 72-0100 LF 18mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	537.18	
For Vinlyester Resin, Add	346.49	
For Epoxy Resin, Add	40.84	
For Up To >10, Add	374.07	
For >10 To 25, Add	229.22	
For >25 To 50, Add	162.28	
For >50 To 100, Add	81.14	
For >500 To 1,000, Deduct	-27.91	
For >1,000 To 2,000, Deduct	-42.40	
For >2,000 To 5,000, Deduct	-69.95	
For >5,000, Deduct	-115.87	
33 01 30 72-0101 LF 18mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	627.37	
For Vinlyester Resin, Add	405.40	
For Epoxy Resin, Add	47.78	
For Up To >10, Add	434.26	
For >10 To 25, Add	265.36	
For >25 To 50, Add	188.17	
For >50 To 100, Add	94.09	
For >500 To 1,000, Deduct	-32.57	
For >1,000 To 2,000, Deduct	-49.46	
For >2,000 To 5,000, Deduct	-81.55	
For >5,000, Deduct	-135.12	
33 01 30 72-0102 LF 18mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	719.62	
For Vinlyester Resin, Add	464.30	
For Epoxy Resin, Add	54.72	
For Up To >10, Add	500.64	
For >10 To 25, Add	306.65	
For >25 To 50, Add	217.15	
For >50 To 100, Add	108.58	
For >500 To 1,000, Deduct	-37.39	
For >1,000 To 2,000, Deduct	-56.79	
For >2,000 To 5,000, Deduct	-93.68	
For >5,000, Deduct	-155.19	
33 01 30 72-0103 LF 18mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	810.98	
For Vinlyester Resin, Add	523.22	
For Epoxy Resin, Add	61.66	
For Up To >10, Add	564.32	
For >10 To 25, Add	345.69	
For >25 To 50, Add	244.79	
For >50 To 100, Add	122.39	
For >500 To 1,000, Deduct	-42.14	
For >1,000 To 2,000, Deduct	-64.00	
For >2,000 To 5,000, Deduct	-105.58	
For >5,000, Deduct	-174.90	
33 01 30 72-0104 LF 18mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	902.21	
For Vinlyester Resin, Add	582.12	
For Epoxy Resin, Add	68.61	
For Up To >10, Add	627.63	
For >10 To 25, Add	384.43	
For >25 To 50, Add	272.24	
For >50 To 100, Add	136.12	
For >500 To 1,000, Deduct	-46.88	
For >1,000 To 2,000, Deduct	-71.20	
For >2,000 To 5,000, Deduct	-117.44	
For >5,000, Deduct	-194.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0105 LF 18mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	993.96	
For Vinlyester Resin, Add	641.03	
For Epoxy Resin, Add	75.55	
For Up To >10, Add	692.48	
For >10 To 25, Add	424.44	
For >25 To 50, Add	300.45	
For >50 To 100, Add	150.23	
For >500 To 1,000, Deduct	-51.65	
For >1,000 To 2,000, Deduct	-78.46	
For >2,000 To 5,000, Deduct	-129.44	
For >5,000, Deduct	-214.43	
33 01 30 72-0106 LF 18mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,085.31	
For Vinlyester Resin, Add	699.94	
For Epoxy Resin, Add	82.49	
For Up To >10, Add	756.16	
For >10 To 25, Add	463.48	
For >25 To 50, Add	328.08	
For >50 To 100, Add	164.04	
For >500 To 1,000, Deduct	-56.40	
For >1,000 To 2,000, Deduct	-85.67	
For >2,000 To 5,000, Deduct	-141.34	
For >5,000, Deduct	-234.14	
33 01 30 72-0107 19.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0108 LF 19.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	288.20	
For Vinlyester Resin, Add	183.29	
For Epoxy Resin, Add	21.60	
For Up To >10, Add	210.00	
For >10 To 25, Add	131.36	
For >25 To 50, Add	91.91	
For >50 To 100, Add	45.95	
For >500 To 1,000, Deduct	-15.07	
For >1,000 To 2,000, Deduct	-22.93	
For >2,000 To 5,000, Deduct	-38.01	
For >5,000, Deduct	-62.91	
33 01 30 72-0109 LF 19.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	335.97	
For Vinlyester Resin, Add	215.19	
For Epoxy Resin, Add	25.36	
For Up To >10, Add	239.36	
For >10 To 25, Add	148.23	
For >25 To 50, Add	104.31	
For >50 To 100, Add	52.15	
For >500 To 1,000, Deduct	-17.51	
For >1,000 To 2,000, Deduct	-26.63	
For >2,000 To 5,000, Deduct	-44.03	
For >5,000, Deduct	-72.90	
33 01 30 72-0110 LF 19.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	384.13	
For Vinlyester Resin, Add	247.10	
For Epoxy Resin, Add	29.12	
For Up To >10, Add	269.89	
For >10 To 25, Add	166.08	
For >25 To 50, Add	117.30	
For >50 To 100, Add	58.65	
For >500 To 1,000, Deduct	-19.98	
For >1,000 To 2,000, Deduct	-30.37	
For >2,000 To 5,000, Deduct	-50.14	
For >5,000, Deduct	-83.05	
33 01 30 72-0111 LF 19.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	432.55	
For Vinlyester Resin, Add	279.01	
For Epoxy Resin, Add	32.88	
For Up To >10, Add	301.18	
For >10 To 25, Add	184.55	
For >25 To 50, Add	130.66	
For >50 To 100, Add	65.33	
For >500 To 1,000, Deduct	-22.48	
For >1,000 To 2,000, Deduct	-34.14	
For >2,000 To 5,000, Deduct	-56.32	
For >5,000, Deduct	-93.30	
33 01 30 72-0112 LF 19.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	481.99	
For Vinlyester Resin, Add	310.92	
For Epoxy Resin, Add	36.64	
For Up To >10, Add	335.55	
For >10 To 25, Add	205.59	
For >25 To 50, Add	145.56	
For >50 To 100, Add	72.78	
For >500 To 1,000, Deduct	-25.05	
For >1,000 To 2,000, Deduct	-38.04	
For >2,000 To 5,000, Deduct	-62.76	
For >5,000, Deduct	-103.96	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0113 LF 19.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	579.84	
For Vinlyester Resin, Add	374.74	
For Epoxy Resin, Add	44.17	
For Up To >10, Add	401.17	
For >10 To 25, Add	245.09	
For >25 To 50, Add	173.82	
For >50 To 100, Add	86.91	
For >500 To 1,000, Deduct	-30.10	
For >1,000 To 2,000, Deduct	-45.71	
For >2,000 To 5,000, Deduct	-75.37	
For >5,000, Deduct	-124.87	
33 01 30 72-0114 LF 19.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	678.08	
For Vinlyester Resin, Add	438.55	
For Epoxy Resin, Add	51.69	
For Up To >10, Add	467.99	
For >10 To 25, Add	285.58	
For >25 To 50, Add	202.67	
For >50 To 100, Add	101.34	
For >500 To 1,000, Deduct	-35.19	
For >1,000 To 2,000, Deduct	-53.44	
For >2,000 To 5,000, Deduct	-88.08	
For >5,000, Deduct	-145.93	
33 01 30 72-0115 LF 19.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	777.22	
For Vinlyester Resin, Add	502.37	
For Epoxy Resin, Add	59.21	
For Up To >10, Add	537.49	
For >10 To 25, Add	328.29	
For >25 To 50, Add	232.86	
For >50 To 100, Add	116.43	
For >500 To 1,000, Deduct	-40.35	
For >1,000 To 2,000, Deduct	-61.27	
For >2,000 To 5,000, Deduct	-101.01	
For >5,000, Deduct	-167.35	
33 01 30 72-0116 LF 19.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	875.98	
For Vinlyester Resin, Add	566.19	
For Epoxy Resin, Add	66.73	
For Up To >10, Add	605.84	
For >10 To 25, Add	370.06	
For >25 To 50, Add	262.48	
For >50 To 100, Add	131.24	
For >500 To 1,000, Deduct	-45.48	
For >1,000 To 2,000, Deduct	-69.06	
For >2,000 To 5,000, Deduct	-113.85	
For >5,000, Deduct	-188.62	
33 01 30 72-0117 LF 19.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	974.72	
For Vinlyester Resin, Add	630.00	
For Epoxy Resin, Add	74.25	
For Up To >10, Add	674.16	
For >10 To 25, Add	411.80	
For >25 To 50, Add	292.08	
For >50 To 100, Add	146.04	
For >500 To 1,000, Deduct	-50.60	
For >1,000 To 2,000, Deduct	-76.84	
For >2,000 To 5,000, Deduct	-126.68	
For >5,000, Deduct	-209.89	
33 01 30 72-0118 LF 19.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,075.02	
For Vinlyester Resin, Add	693.82	
For Epoxy Resin, Add	81.77	
For Up To >10, Add	747.14	
For >10 To 25, Add	457.42	
For >25 To 50, Add	324.01	
For >50 To 100, Add	162.00	
For >500 To 1,000, Deduct	-55.85	
For >1,000 To 2,000, Deduct	-84.82	
For >2,000 To 5,000, Deduct	-139.90	
For >5,000, Deduct	-231.77	
33 01 30 72-0119 LF 19.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,173.90	
For Vinlyester Resin, Add	757.63	
For Epoxy Resin, Add	89.29	
For Up To >10, Add	815.88	
For >10 To 25, Add	499.51	
For >25 To 50, Add	353.82	
For >50 To 100, Add	176.91	
For >500 To 1,000, Deduct	-60.98	
For >1,000 To 2,000, Deduct	-92.62	
For >2,000 To 5,000, Deduct	-152.77	
For >5,000, Deduct	-253.09	

33 01 30 72-0120 21mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0121 LF 21mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	308.28	
For Vinylster Resin, Add	196.71	
For Epoxy Resin, Add	23.18	
For Up To >10, Add	222.32	
For >10 To 25, Add	138.43	
For >25 To 50, Add	97.11	
For >50 To 100, Add	48.55	
For >500 To 1,000, Deduct	-16.10	
For >1,000 To 2,000, Deduct	-24.48	
For >2,000 To 5,000, Deduct	-40.54	
For >5,000, Deduct	-67.11	
33 01 30 72-0122 LF 21mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	359.68	
For Vinylster Resin, Add	231.07	
For Epoxy Resin, Add	27.23	
For Up To >10, Add	253.79	
For >10 To 25, Add	156.48	
For >25 To 50, Add	110.39	
For >50 To 100, Add	55.20	
For >500 To 1,000, Deduct	-18.72	
For >1,000 To 2,000, Deduct	-28.46	
For >2,000 To 5,000, Deduct	-47.01	
For >5,000, Deduct	-77.85	
33 01 30 72-0123 LF 21mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	411.48	
For Vinylster Resin, Add	265.43	
For Epoxy Resin, Add	31.28	
For Up To >10, Add	286.47	
For >10 To 25, Add	175.52	
For >25 To 50, Add	124.27	
For >50 To 100, Add	62.14	
For >500 To 1,000, Deduct	-21.38	
For >1,000 To 2,000, Deduct	-32.48	
For >2,000 To 5,000, Deduct	-53.58	
For >5,000, Deduct	-88.75	
33 01 30 72-0124 LF 21mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	463.13	
For Vinylster Resin, Add	299.80	
For Epoxy Resin, Add	35.33	
For Up To >10, Add	318.69	
For >10 To 25, Add	194.20	
For >25 To 50, Add	137.93	
For >50 To 100, Add	68.97	
For >500 To 1,000, Deduct	-24.03	
For >1,000 To 2,000, Deduct	-36.48	
For >2,000 To 5,000, Deduct	-60.11	
For >5,000, Deduct	-99.60	
33 01 30 72-0125 LF 21mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	516.21	
For Vinylster Resin, Add	334.16	
For Epoxy Resin, Add	39.38	
For Up To >10, Add	355.21	
For >10 To 25, Add	216.44	
For >25 To 50, Add	153.73	
For >50 To 100, Add	76.87	
For >500 To 1,000, Deduct	-26.78	
For >1,000 To 2,000, Deduct	-40.66	
For >2,000 To 5,000, Deduct	-66.99	
For >5,000, Deduct	-111.01	
33 01 30 72-0126 LF 21mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	622.37	
For Vinylster Resin, Add	402.89	
For Epoxy Resin, Add	47.48	
For Up To >10, Add	428.24	
For >10 To 25, Add	260.94	
For >25 To 50, Add	185.34	
For >50 To 100, Add	92.67	
For >500 To 1,000, Deduct	-32.29	
For >1,000 To 2,000, Deduct	-49.02	
For >2,000 To 5,000, Deduct	-80.77	
For >5,000, Deduct	-133.84	
33 01 30 72-0127 LF 21mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	728.52	
For Vinylster Resin, Add	471.61	
For Epoxy Resin, Add	55.58	
For Up To >10, Add	501.24	
For >10 To 25, Add	305.41	
For >25 To 50, Add	216.93	
For >50 To 100, Add	108.47	
For >500 To 1,000, Deduct	-37.80	
For >1,000 To 2,000, Deduct	-57.38	
For >2,000 To 5,000, Deduct	-94.55	
For >5,000, Deduct	-156.66	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 01 30 72-0128	LF		21mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	834.68	
			For Vinylster Resin, Add	540.34	
			For Epoxy Resin, Add	63.68	
			For Up To >10, Add	574.27	
			For >10 To 25, Add	349.90	
			For >25 To 50, Add	248.54	
			For >50 To 100, Add	124.27	
			For >500 To 1,000, Deduct	-43.30	
			For >1,000 To 2,000, Deduct	-65.74	
			For >2,000 To 5,000, Deduct	-108.32	
			For >5,000, Deduct	-179.49	
33 01 30 72-0129	LF		21mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	940.83	
			For Vinylster Resin, Add	609.06	
			For Epoxy Resin, Add	71.78	
			For Up To >10, Add	647.27	
			For >10 To 25, Add	394.37	
			For >25 To 50, Add	280.13	
			For >50 To 100, Add	140.06	
			For >500 To 1,000, Deduct	-48.81	
			For >1,000 To 2,000, Deduct	-74.10	
			For >2,000 To 5,000, Deduct	-122.10	
			For >5,000, Deduct	-202.31	
33 01 30 72-0130	LF		21mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,046.98	
			For Vinylster Resin, Add	677.79	
			For Epoxy Resin, Add	79.88	
			For Up To >10, Add	720.27	
			For >10 To 25, Add	438.84	
			For >25 To 50, Add	311.72	
			For >50 To 100, Add	155.86	
			For >500 To 1,000, Deduct	-54.32	
			For >1,000 To 2,000, Deduct	-82.46	
			For >2,000 To 5,000, Deduct	-135.87	
			For >5,000, Deduct	-225.14	
33 01 30 72-0131	LF		21mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,155.97	
			For Vinylster Resin, Add	746.52	
			For Epoxy Resin, Add	87.98	
			For Up To >10, Add	801.79	
			For >10 To 25, Add	490.41	
			For >25 To 50, Add	347.57	
			For >50 To 100, Add	173.79	
			For >500 To 1,000, Deduct	-60.04	
			For >1,000 To 2,000, Deduct	-91.17	
			For >2,000 To 5,000, Deduct	-150.35	
			For >5,000, Deduct	-249.10	
33 01 30 72-0132	LF		21mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,262.38	
			For Vinylster Resin, Add	815.24	
			For Epoxy Resin, Add	96.08	
			For Up To >10, Add	875.57	
			For >10 To 25, Add	535.53	
			For >25 To 50, Add	379.55	
			For >50 To 100, Add	189.78	
			For >500 To 1,000, Deduct	-65.56	
			For >1,000 To 2,000, Deduct	-99.57	
			For >2,000 To 5,000, Deduct	-164.19	
			For >5,000, Deduct	-272.03	

33 01 30 72-0133 22.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)

33 01 30 72-0134	LF		22.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	328.09	
			For Vinylster Resin, Add	210.04	
			For Epoxy Resin, Add	24.75	
			For Up To >10, Add	234.15	
			For >10 To 25, Add	145.11	
			For >25 To 50, Add	102.07	
			For >50 To 100, Add	51.04	
			For >500 To 1,000, Deduct	-17.11	
			For >1,000 To 2,000, Deduct	-26.01	
			For >2,000 To 5,000, Deduct	-43.02	
			For >5,000, Deduct	-71.23	
33 01 30 72-0135	LF		22.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	383.00	
			For Vinylster Resin, Add	246.85	
			For Epoxy Resin, Add	29.09	
			For Up To >10, Add	267.40	
			For >10 To 25, Add	164.06	
			For >25 To 50, Add	116.07	
			For >50 To 100, Add	58.03	
			For >500 To 1,000, Deduct	-19.91	
			For >1,000 To 2,000, Deduct	-30.24	
			For >2,000 To 5,000, Deduct	-49.91	
			For >5,000, Deduct	-82.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0136 LF 22.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	438.68	
For Vinylster Resin, Add	283.67	
For Epoxy Resin, Add	33.43	
For Up To >10, Add	302.94	
For >10 To 25, Add	184.91	
For >25 To 50, Add	131.21	
For >50 To 100, Add	65.60	
For >500 To 1,000, Deduct	-22.77	
For >1,000 To 2,000, Deduct	-34.57	
For >2,000 To 5,000, Deduct	-56.99	
For >5,000, Deduct	-94.42	
33 01 30 72-0137 LF 22.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	494.75	
For Vinylster Resin, Add	320.49	
For Epoxy Resin, Add	37.77	
For Up To >10, Add	339.65	
For >10 To 25, Add	206.74	
For >25 To 50, Add	146.93	
For >50 To 100, Add	73.47	
For >500 To 1,000, Deduct	-25.66	
For >1,000 To 2,000, Deduct	-38.95	
For >2,000 To 5,000, Deduct	-64.17	
For >5,000, Deduct	-106.33	
33 01 30 72-0138 LF 22.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	551.58	
For Vinylster Resin, Add	357.30	
For Epoxy Resin, Add	42.11	
For Up To >10, Add	378.67	
For >10 To 25, Add	230.48	
For >25 To 50, Add	163.81	
For >50 To 100, Add	81.91	
For >500 To 1,000, Deduct	-28.61	
For >1,000 To 2,000, Deduct	-43.43	
For >2,000 To 5,000, Deduct	-71.54	
For >5,000, Deduct	-118.55	
33 01 30 72-0139 LF 22.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	665.27	
For Vinylster Resin, Add	430.93	
For Epoxy Resin, Add	50.79	
For Up To >10, Add	456.76	
For >10 To 25, Add	278.03	
For >25 To 50, Add	197.60	
For >50 To 100, Add	98.80	
For >500 To 1,000, Deduct	-34.50	
For >1,000 To 2,000, Deduct	-52.38	
For >2,000 To 5,000, Deduct	-86.29	
For >5,000, Deduct	-142.98	
33 01 30 72-0140 LF 22.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	778.96	
For Vinylster Resin, Add	504.57	
For Epoxy Resin, Add	59.47	
For Up To >10, Add	534.83	
For >10 To 25, Add	325.56	
For >25 To 50, Add	231.37	
For >50 To 100, Add	115.69	
For >500 To 1,000, Deduct	-40.40	
For >1,000 To 2,000, Deduct	-61.33	
For >2,000 To 5,000, Deduct	-101.03	
For >5,000, Deduct	-167.42	
33 01 30 72-0141 LF 22.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	892.63	
For Vinylster Resin, Add	578.21	
For Epoxy Resin, Add	68.15	
For Up To >10, Add	612.87	
For >10 To 25, Add	373.05	
For >25 To 50, Add	265.13	
For >50 To 100, Add	132.57	
For >500 To 1,000, Deduct	-46.30	
For >1,000 To 2,000, Deduct	-70.28	
For >2,000 To 5,000, Deduct	-115.78	
For >5,000, Deduct	-191.85	
33 01 30 72-0142 LF 22.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,006.31	
For Vinylster Resin, Add	651.84	
For Epoxy Resin, Add	76.82	
For Up To >10, Add	690.93	
For >10 To 25, Add	420.58	
For >25 To 50, Add	298.91	
For >50 To 100, Add	149.45	
For >500 To 1,000, Deduct	-52.19	
For >1,000 To 2,000, Deduct	-79.23	
For >2,000 To 5,000, Deduct	-130.52	
For >5,000, Deduct	-216.28	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01	30	72-0143	LF 22.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,120.00	
			For Vinylster Resin, Add	725.48	
			For Epoxy Resin, Add	85.50	
			For Up To >10, Add	769.00	
			For >10 To 25, Add	468.10	
			For >25 To 50, Add	332.68	
			For >50 To 100, Add	166.34	
			For >500 To 1,000, Deduct	-58.09	
			For >1,000 To 2,000, Deduct	-88.18	
			For >2,000 To 5,000, Deduct	-145.27	
			For >5,000, Deduct	-240.72	
33 01	30	72-0144	LF 22.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,236.64	
			For Vinylster Resin, Add	799.11	
			For Epoxy Resin, Add	94.18	
			For Up To >10, Add	855.95	
			For >10 To 25, Add	523.02	
			For >25 To 50, Add	370.89	
			For >50 To 100, Add	185.45	
			For >500 To 1,000, Deduct	-64.21	
			For >1,000 To 2,000, Deduct	-97.50	
			For >2,000 To 5,000, Deduct	-160.75	
			For >5,000, Deduct	-266.34	
33 01	30	72-0145	LF 22.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,350.57	
			For Vinylster Resin, Add	872.75	
			For Epoxy Resin, Add	102.86	
			For Up To >10, Add	934.76	
			For >10 To 25, Add	571.17	
			For >25 To 50, Add	405.04	
			For >50 To 100, Add	202.52	
			For >500 To 1,000, Deduct	-70.12	
			For >1,000 To 2,000, Deduct	-106.48	
			For >2,000 To 5,000, Deduct	-175.56	
			For >5,000, Deduct	-290.87	
33 01 30	72-0146		24mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01	30	72-0147	LF 24mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	347.62	
			For Vinylster Resin, Add	223.26	
			For Epoxy Resin, Add	26.31	
			For Up To >10, Add	245.51	
			For >10 To 25, Add	151.44	
			For >25 To 50, Add	106.81	
			For >50 To 100, Add	53.40	
			For >500 To 1,000, Deduct	-18.10	
			For >1,000 To 2,000, Deduct	-27.51	
			For >2,000 To 5,000, Deduct	-45.44	
			For >5,000, Deduct	-75.26	
33 01	30	72-0148	LF 24mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	406.04	
			For Vinylster Resin, Add	262.54	
			For Epoxy Resin, Add	30.94	
			For Up To >10, Add	280.50	
			For >10 To 25, Add	171.24	
			For >25 To 50, Add	121.50	
			For >50 To 100, Add	60.75	
			For >500 To 1,000, Deduct	-21.08	
			For >1,000 To 2,000, Deduct	-32.00	
			For >2,000 To 5,000, Deduct	-52.75	
			For >5,000, Deduct	-87.41	
33 01	30	72-0149	LF 24mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	465.62	
			For Vinylster Resin, Add	301.81	
			For Epoxy Resin, Add	35.57	
			For Up To >10, Add	318.99	
			For >10 To 25, Add	193.96	
			For >25 To 50, Add	137.94	
			For >50 To 100, Add	68.97	
			For >500 To 1,000, Deduct	-24.14	
			For >1,000 To 2,000, Deduct	-36.65	
			For >2,000 To 5,000, Deduct	-60.36	
			For >5,000, Deduct	-100.02	
33 01	30	72-0150	LF 24mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	526.22	
			For Vinylster Resin, Add	341.08	
			For Epoxy Resin, Add	40.20	
			For Up To >10, Add	360.54	
			For >10 To 25, Add	219.24	
			For >25 To 50, Add	155.91	
			For >50 To 100, Add	77.95	
			For >500 To 1,000, Deduct	-27.29	
			For >1,000 To 2,000, Deduct	-41.42	
			For >2,000 To 5,000, Deduct	-68.21	
			For >5,000, Deduct	-113.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0151 LF 24mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	586.83	
For Vinylster Resin, Add	380.35	
For Epoxy Resin, Add	44.83	
For Up To >10, Add	402.09	
For >10 To 25, Add	244.52	
For >25 To 50, Add	173.88	
For >50 To 100, Add	86.94	
For >500 To 1,000, Deduct	-30.43	
For >1,000 To 2,000, Deduct	-46.19	
For >2,000 To 5,000, Deduct	-76.07	
For >5,000, Deduct	-126.06	
33 01 30 72-0152 LF 24mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	708.04	
For Vinylster Resin, Add	458.90	
For Epoxy Resin, Add	54.08	
For Up To >10, Add	485.20	
For >10 To 25, Add	295.07	
For >25 To 50, Add	209.82	
For >50 To 100, Add	104.91	
For >500 To 1,000, Deduct	-36.71	
For >1,000 To 2,000, Deduct	-55.73	
For >2,000 To 5,000, Deduct	-91.79	
For >5,000, Deduct	-152.10	
33 01 30 72-0153 LF 24mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	859.03	
For Vinylster Resin, Add	558.38	
For Epoxy Resin, Add	65.81	
For Up To >10, Add	582.89	
For >10 To 25, Add	352.80	
For >25 To 50, Add	251.56	
For >50 To 100, Add	125.78	
For >500 To 1,000, Deduct	-44.49	
For >1,000 To 2,000, Deduct	-67.49	
For >2,000 To 5,000, Deduct	-111.06	
For >5,000, Deduct	-184.08	
33 01 30 72-0154 LF 24mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	950.32	
For Vinylster Resin, Add	615.98	
For Epoxy Resin, Add	72.60	
For Up To >10, Add	651.04	
For >10 To 25, Add	395.87	
For >25 To 50, Add	281.52	
For >50 To 100, Add	140.76	
For >500 To 1,000, Deduct	-49.27	
For >1,000 To 2,000, Deduct	-74.79	
For >2,000 To 5,000, Deduct	-123.18	
For >5,000, Deduct	-204.13	
33 01 30 72-0155 LF 24mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,071.54	
For Vinylster Resin, Add	694.53	
For Epoxy Resin, Add	81.85	
For Up To >10, Add	734.17	
For >10 To 25, Add	446.45	
For >25 To 50, Add	317.48	
For >50 To 100, Add	158.74	
For >500 To 1,000, Deduct	-55.56	
For >1,000 To 2,000, Deduct	-84.33	
For >2,000 To 5,000, Deduct	-138.90	
For >5,000, Deduct	-230.18	
33 01 30 72-0156 LF 24mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,192.74	
For Vinylster Resin, Add	773.07	
For Epoxy Resin, Add	91.11	
For Up To >10, Add	817.27	
For >10 To 25, Add	497.00	
For >25 To 50, Add	353.42	
For >50 To 100, Add	176.71	
For >500 To 1,000, Deduct	-61.85	
For >1,000 To 2,000, Deduct	-93.87	
For >2,000 To 5,000, Deduct	-154.62	
For >5,000, Deduct	-256.22	
33 01 30 72-0157 LF 24mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,317.04	
For Vinylster Resin, Add	851.61	
For Epoxy Resin, Add	100.37	
For Up To >10, Add	909.65	
For >10 To 25, Add	555.27	
For >25 To 50, Add	393.99	
For >50 To 100, Add	197.00	
For >500 To 1,000, Deduct	-68.36	
For >1,000 To 2,000, Deduct	-103.80	
For >2,000 To 5,000, Deduct	-171.10	
For >5,000, Deduct	-283.50	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0158 LF 24mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,438.51	
For Vinylster Resin, Add	930.16	
For Epoxy Resin, Add	109.63	
For Up To >10, Add	993.53	
For >10 To 25, Add	606.48	
For >25 To 50, Add	430.33	
For >50 To 100, Add	215.16	
For >500 To 1,000, Deduct	-74.67	
For >1,000 To 2,000, Deduct	-113.37	
For >2,000 To 5,000, Deduct	-186.88	
For >5,000, Deduct	-309.64	
33 01 30 72-0159 LF 24mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,559.97	
For Vinylster Resin, Add	1,008.70	
For Epoxy Resin, Add	118.88	
For Up To >10, Add	1,077.41	
For >10 To 25, Add	657.68	
For >25 To 50, Add	466.66	
For >50 To 100, Add	233.33	
For >500 To 1,000, Deduct	-80.97	
For >1,000 To 2,000, Deduct	-122.95	
For >2,000 To 5,000, Deduct	-202.66	
For >5,000, Deduct	-335.79	
33 01 30 72-0160 LF 24mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,681.44	
For Vinylster Resin, Add	1,087.25	
For Epoxy Resin, Add	128.14	
For Up To >10, Add	1,161.30	
For >10 To 25, Add	708.88	
For >25 To 50, Add	502.99	
For >50 To 100, Add	251.49	
For >500 To 1,000, Deduct	-87.28	
For >1,000 To 2,000, Deduct	-132.52	
For >2,000 To 5,000, Deduct	-218.44	
For >5,000, Deduct	-361.93	
33 01 30 72-0161 25.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0162 LF 25.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	429.35	
For Vinylster Resin, Add	278.12	
For Epoxy Resin, Add	32.78	
For Up To >10, Add	294.75	
For >10 To 25, Add	179.41	
For >25 To 50, Add	127.51	
For >50 To 100, Add	63.75	
For >500 To 1,000, Deduct	-22.27	
For >1,000 To 2,000, Deduct	-33.80	
For >2,000 To 5,000, Deduct	-55.69	
For >5,000, Deduct	-92.28	
33 01 30 72-0163 LF 25.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	493.19	
For Vinylster Resin, Add	319.84	
For Epoxy Resin, Add	37.70	
For Up To >10, Add	337.27	
For >10 To 25, Add	204.91	
For >25 To 50, Add	145.79	
For >50 To 100, Add	72.89	
For >500 To 1,000, Deduct	-25.57	
For >1,000 To 2,000, Deduct	-38.80	
For >2,000 To 5,000, Deduct	-63.90	
For >5,000, Deduct	-105.89	
33 01 30 72-0164 LF 25.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	557.57	
For Vinylster Resin, Add	361.58	
For Epoxy Resin, Add	42.61	
For Up To >10, Add	381.36	
For >10 To 25, Add	231.71	
For >25 To 50, Add	164.85	
For >50 To 100, Add	82.43	
For >500 To 1,000, Deduct	-28.90	
For >1,000 To 2,000, Deduct	-43.87	
For >2,000 To 5,000, Deduct	-72.24	
For >5,000, Deduct	-119.72	
33 01 30 72-0165 LF 25.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	621.80	
For Vinylster Resin, Add	403.30	
For Epoxy Resin, Add	47.53	
For Up To >10, Add	425.05	
For >10 To 25, Add	258.19	
For >25 To 50, Add	183.72	
For >50 To 100, Add	91.86	
For >500 To 1,000, Deduct	-32.23	
For >1,000 To 2,000, Deduct	-48.92	
For >2,000 To 5,000, Deduct	-80.55	
For >5,000, Deduct	-133.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0166 LF 25.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	750.53	
For Vinylster Resin, Add	486.75	
For Epoxy Resin, Add	57.37	
For Up To >10, Add	513.19	
For >10 To 25, Add	311.77	
For >25 To 50, Add	221.83	
For >50 To 100, Add	110.91	
For >500 To 1,000, Deduct	-38.91	
For >1,000 To 2,000, Deduct	-59.05	
For >2,000 To 5,000, Deduct	-97.24	
For >5,000, Deduct	-161.14	
33 01 30 72-0167 LF 25.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	879.14	
For Vinylster Resin, Add	570.21	
For Epoxy Resin, Add	67.20	
For Up To >10, Add	600.97	
For >10 To 25, Add	365.05	
For >25 To 50, Add	259.76	
For >50 To 100, Add	129.88	
For >500 To 1,000, Deduct	-45.57	
For >1,000 To 2,000, Deduct	-69.16	
For >2,000 To 5,000, Deduct	-113.89	
For >5,000, Deduct	-188.74	
33 01 30 72-0168 LF 25.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,007.88	
For Vinylster Resin, Add	653.66	
For Epoxy Resin, Add	77.04	
For Up To >10, Add	689.14	
For >10 To 25, Add	418.65	
For >25 To 50, Add	297.88	
For >50 To 100, Add	148.94	
For >500 To 1,000, Deduct	-52.25	
For >1,000 To 2,000, Deduct	-79.30	
For >2,000 To 5,000, Deduct	-130.58	
For >5,000, Deduct	-216.39	
33 01 30 72-0169 LF 25.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,136.49	
For Vinylster Resin, Add	737.11	
For Epoxy Resin, Add	86.87	
For Up To >10, Add	776.92	
For >10 To 25, Add	471.93	
For >25 To 50, Add	335.81	
For >50 To 100, Add	167.90	
For >500 To 1,000, Deduct	-58.91	
For >1,000 To 2,000, Deduct	-89.41	
For >2,000 To 5,000, Deduct	-147.23	
For >5,000, Deduct	-243.99	
33 01 30 72-0170 LF 25.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,265.23	
For Vinylster Resin, Add	820.57	
For Epoxy Resin, Add	96.71	
For Up To >10, Add	865.09	
For >10 To 25, Add	525.54	
For >25 To 50, Add	373.93	
For >50 To 100, Add	186.97	
For >500 To 1,000, Deduct	-65.59	
For >1,000 To 2,000, Deduct	-99.54	
For >2,000 To 5,000, Deduct	-163.92	
For >5,000, Deduct	-271.64	
33 01 30 72-0171 LF 25.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,398.07	
For Vinylster Resin, Add	904.02	
For Epoxy Resin, Add	106.54	
For Up To >10, Add	965.59	
For >10 To 25, Add	589.41	
For >25 To 50, Add	418.22	
For >50 To 100, Add	209.11	
For >500 To 1,000, Deduct	-72.57	
For >1,000 To 2,000, Deduct	-110.19	
For >2,000 To 5,000, Deduct	-181.63	
For >5,000, Deduct	-300.94	
33 01 30 72-0172 LF 25.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,527.20	
For Vinylster Resin, Add	987.47	
For Epoxy Resin, Add	116.38	
For Up To >10, Add	1,054.93	
For >10 To 25, Add	643.99	
For >25 To 50, Add	456.93	
For >50 To 100, Add	228.46	
For >500 To 1,000, Deduct	-79.27	
For >1,000 To 2,000, Deduct	-120.37	
For >2,000 To 5,000, Deduct	-198.41	
For >5,000, Deduct	-328.75	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0173 LF 25.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,656.19	
For Vinylster Resin, Add	1,070.92	
For Epoxy Resin, Add	126.22	
For Up To >10, Add	1,143.85	
For >10 To 25, Add	698.22	
For >25 To 50, Add	495.43	
For >50 To 100, Add	247.71	
For >500 To 1,000, Deduct	-85.97	
For >1,000 To 2,000, Deduct	-130.53	
For >2,000 To 5,000, Deduct	-215.16	
For >5,000, Deduct	-356.50	
33 01 30 72-0174 LF 25.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,785.31	
For Vinylster Resin, Add	1,154.38	
For Epoxy Resin, Add	136.05	
For Up To >10, Add	1,233.16	
For >10 To 25, Add	752.78	
For >25 To 50, Add	534.12	
For >50 To 100, Add	267.06	
For >500 To 1,000, Deduct	-92.67	
For >1,000 To 2,000, Deduct	-140.71	
For >2,000 To 5,000, Deduct	-231.94	
For >5,000, Deduct	-384.30	
33 01 30 72-0175 27mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0176 LF 27mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	452.36	
For Vinylster Resin, Add	293.61	
For Epoxy Resin, Add	34.60	
For Up To >10, Add	308.48	
For >10 To 25, Add	187.16	
For >25 To 50, Add	133.27	
For >50 To 100, Add	66.63	
For >500 To 1,000, Deduct	-23.44	
For >1,000 To 2,000, Deduct	-35.57	
For >2,000 To 5,000, Deduct	-58.56	
For >5,000, Deduct	-97.06	
33 01 30 72-0177 LF 27mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	520.50	
For Vinylster Resin, Add	337.79	
For Epoxy Resin, Add	39.81	
For Up To >10, Add	355.10	
For >10 To 25, Add	215.49	
For >25 To 50, Add	153.42	
For >50 To 100, Add	76.71	
For >500 To 1,000, Deduct	-26.97	
For >1,000 To 2,000, Deduct	-40.93	
For >2,000 To 5,000, Deduct	-67.39	
For >5,000, Deduct	-111.69	
33 01 30 72-0178 LF 27mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	588.64	
For Vinylster Resin, Add	381.98	
For Epoxy Resin, Add	45.02	
For Up To >10, Add	401.72	
For >10 To 25, Add	243.82	
For >25 To 50, Add	173.58	
For >50 To 100, Add	86.79	
For >500 To 1,000, Deduct	-30.51	
For >1,000 To 2,000, Deduct	-46.30	
For >2,000 To 5,000, Deduct	-76.22	
For >5,000, Deduct	-126.32	
33 01 30 72-0179 LF 27mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	656.63	
For Vinylster Resin, Add	426.15	
For Epoxy Resin, Add	50.23	
For Up To >10, Add	447.92	
For >10 To 25, Add	271.80	
For >25 To 50, Add	193.52	
For >50 To 100, Add	96.76	
For >500 To 1,000, Deduct	-34.03	
For >1,000 To 2,000, Deduct	-51.64	
For >2,000 To 5,000, Deduct	-85.01	
For >5,000, Deduct	-140.89	
33 01 30 72-0180 LF 27mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	792.77	
For Vinylster Resin, Add	514.51	
For Epoxy Resin, Add	60.64	
For Up To >10, Add	540.76	
For >10 To 25, Add	328.13	
For >25 To 50, Add	233.63	
For >50 To 100, Add	116.81	
For >500 To 1,000, Deduct	-41.08	
For >1,000 To 2,000, Deduct	-62.35	
For >2,000 To 5,000, Deduct	-102.64	
For >5,000, Deduct	-170.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0181 LF 27mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	929.03	
For Vinylster Resin, Add	602.88	
For Epoxy Resin, Add	71.05	
For Up To >10, Add	633.97	
For >10 To 25, Add	384.76	
For >25 To 50, Add	273.92	
For >50 To 100, Add	136.96	
For >500 To 1,000, Deduct	-48.15	
For >1,000 To 2,000, Deduct	-73.07	
For >2,000 To 5,000, Deduct	-120.30	
For >5,000, Deduct	-199.36	
33 01 30 72-0182 LF 27mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,065.18	
For Vinylster Resin, Add	691.24	
For Epoxy Resin, Add	81.47	
For Up To >10, Add	726.82	
For >10 To 25, Add	441.10	
For >25 To 50, Add	314.03	
For >50 To 100, Add	157.02	
For >500 To 1,000, Deduct	-55.20	
For >1,000 To 2,000, Deduct	-83.77	
For >2,000 To 5,000, Deduct	-137.92	
For >5,000, Deduct	-228.57	
33 01 30 72-0183 LF 27mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,201.31	
For Vinylster Resin, Add	779.60	
For Epoxy Resin, Add	91.88	
For Up To >10, Add	819.63	
For >10 To 25, Add	497.41	
For >25 To 50, Add	354.13	
For >50 To 100, Add	177.06	
For >500 To 1,000, Deduct	-62.26	
For >1,000 To 2,000, Deduct	-94.48	
For >2,000 To 5,000, Deduct	-155.54	
For >5,000, Deduct	-257.78	
33 01 30 72-0184 LF 27mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,337.44	
For Vinylster Resin, Add	867.97	
For Epoxy Resin, Add	102.30	
For Up To >10, Add	912.45	
For >10 To 25, Add	553.71	
For >25 To 50, Add	394.23	
For >50 To 100, Add	197.11	
For >500 To 1,000, Deduct	-69.31	
For >1,000 To 2,000, Deduct	-105.18	
For >2,000 To 5,000, Deduct	-173.17	
For >5,000, Deduct	-286.99	
33 01 30 72-0185 LF 27mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,478.97	
For Vinylster Resin, Add	956.33	
For Epoxy Resin, Add	112.71	
For Up To >10, Add	1,021.46	
For >10 To 25, Add	623.52	
For >25 To 50, Add	442.42	
For >50 To 100, Add	221.21	
For >500 To 1,000, Deduct	-76.77	
For >1,000 To 2,000, Deduct	-116.56	
For >2,000 To 5,000, Deduct	-192.14	
For >5,000, Deduct	-318.35	
33 01 30 72-0186 LF 27mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,615.62	
For Vinylster Resin, Add	1,044.69	
For Epoxy Resin, Add	123.12	
For Up To >10, Add	1,115.84	
For >10 To 25, Add	681.13	
For >25 To 50, Add	483.30	
For >50 To 100, Add	241.65	
For >500 To 1,000, Deduct	-83.86	
For >1,000 To 2,000, Deduct	-127.33	
For >2,000 To 5,000, Deduct	-209.89	
For >5,000, Deduct	-347.77	
33 01 30 72-0187 LF 27mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,752.27	
For Vinylster Resin, Add	1,133.05	
For Epoxy Resin, Add	133.54	
For Up To >10, Add	1,210.21	
For >10 To 25, Add	738.74	
For >25 To 50, Add	524.17	
For >50 To 100, Add	262.09	
For >500 To 1,000, Deduct	-90.95	
For >1,000 To 2,000, Deduct	-138.10	
For >2,000 To 5,000, Deduct	-227.64	
For >5,000, Deduct	-377.18	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0188 LF 27mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,888.91	
For Vinylster Resin, Add	1,221.41	
For Epoxy Resin, Add	143.95	
For Up To >10, Add	1,304.56	
For >10 To 25, Add	796.32	
For >25 To 50, Add	565.03	
For >50 To 100, Add	282.52	
For >500 To 1,000, Deduct	-98.05	
For >1,000 To 2,000, Deduct	-148.87	
For >2,000 To 5,000, Deduct	-245.39	
For >5,000, Deduct	-406.59	
33 01 30 72-0189 28.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0190 LF 28.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	547.42	
For Vinylster Resin, Add	355.64	
For Epoxy Resin, Add	41.91	
For Up To >10, Add	372.11	
For >10 To 25, Add	225.42	
For >25 To 50, Add	160.65	
For >50 To 100, Add	80.33	
For >500 To 1,000, Deduct	-28.36	
For >1,000 To 2,000, Deduct	-43.02	
For >2,000 To 5,000, Deduct	-70.81	
For >5,000, Deduct	-117.36	
33 01 30 72-0191 LF 28.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	619.31	
For Vinylster Resin, Add	402.28	
For Epoxy Resin, Add	47.41	
For Up To >10, Add	421.23	
For >10 To 25, Add	255.25	
For >25 To 50, Add	181.88	
For >50 To 100, Add	90.94	
For >500 To 1,000, Deduct	-32.08	
For >1,000 To 2,000, Deduct	-48.68	
For >2,000 To 5,000, Deduct	-80.12	
For >5,000, Deduct	-132.79	
33 01 30 72-0192 LF 28.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	691.07	
For Vinylster Resin, Add	448.91	
For Epoxy Resin, Add	52.91	
For Up To >10, Add	469.96	
For >10 To 25, Add	284.75	
For >25 To 50, Add	202.92	
For >50 To 100, Add	101.46	
For >500 To 1,000, Deduct	-35.80	
For >1,000 To 2,000, Deduct	-54.32	
For >2,000 To 5,000, Deduct	-89.40	
For >5,000, Deduct	-148.17	
33 01 30 72-0193 LF 28.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	874.00	
For Vinylster Resin, Add	569.75	
For Epoxy Resin, Add	67.15	
For Up To >10, Add	587.18	
For >10 To 25, Add	353.66	
For >25 To 50, Add	252.89	
For >50 To 100, Add	126.45	
For >500 To 1,000, Deduct	-45.20	
For >1,000 To 2,000, Deduct	-68.55	
For >2,000 To 5,000, Deduct	-112.69	
For >5,000, Deduct	-186.81	
33 01 30 72-0194 LF 28.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	978.27	
For Vinylster Resin, Add	635.45	
For Epoxy Resin, Add	74.89	
For Up To >10, Add	665.34	
For >10 To 25, Add	403.15	
For >25 To 50, Add	287.28	
For >50 To 100, Add	143.64	
For >500 To 1,000, Deduct	-50.68	
For >1,000 To 2,000, Deduct	-76.89	
For >2,000 To 5,000, Deduct	-126.55	
For >5,000, Deduct	-209.75	
33 01 30 72-0195 LF 28.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,121.81	
For Vinylster Resin, Add	728.73	
For Epoxy Resin, Add	85.89	
For Up To >10, Add	762.83	
For >10 To 25, Add	462.19	
For >25 To 50, Add	329.36	
For >50 To 100, Add	164.68	
For >500 To 1,000, Deduct	-58.11	
For >1,000 To 2,000, Deduct	-88.17	
For >2,000 To 5,000, Deduct	-145.12	
For >5,000, Deduct	-240.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0196 LF 28.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,265.34	
For Vinylster Resin, Add	822.00	
For Epoxy Resin, Add	96.88	
For Up To >10, Add	860.32	
For >10 To 25, Add	521.22	
For >25 To 50, Add	371.45	
For >50 To 100, Add	185.72	
For >500 To 1,000, Deduct	-65.54	
For >1,000 To 2,000, Deduct	-99.45	
For >2,000 To 5,000, Deduct	-163.68	
For >5,000, Deduct	-271.28	
33 01 30 72-0197 LF 28.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,408.87	
For Vinylster Resin, Add	915.26	
For Epoxy Resin, Add	107.87	
For Up To >10, Add	957.81	
For >10 To 25, Add	580.26	
For >25 To 50, Add	413.53	
For >50 To 100, Add	206.76	
For >500 To 1,000, Deduct	-72.98	
For >1,000 To 2,000, Deduct	-110.73	
For >2,000 To 5,000, Deduct	-182.24	
For >5,000, Deduct	-302.04	
33 01 30 72-0198 LF 28.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,558.07	
For Vinylster Resin, Add	1,008.54	
For Epoxy Resin, Add	118.86	
For Up To >10, Add	1,072.29	
For >10 To 25, Add	653.44	
For >25 To 50, Add	464.10	
For >50 To 100, Add	232.05	
For >500 To 1,000, Deduct	-80.84	
For >1,000 To 2,000, Deduct	-122.72	
For >2,000 To 5,000, Deduct	-202.22	
For >5,000, Deduct	-335.07	
33 01 30 72-0199 LF 28.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,702.11	
For Vinylster Resin, Add	1,101.81	
For Epoxy Resin, Add	129.86	
For Up To >10, Add	1,171.31	
For >10 To 25, Add	713.75	
For >25 To 50, Add	506.95	
For >50 To 100, Add	253.48	
For >500 To 1,000, Deduct	-88.31	
For >1,000 To 2,000, Deduct	-134.06	
For >2,000 To 5,000, Deduct	-220.91	
For >5,000, Deduct	-366.04	
33 01 30 72-0200 LF 28.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,846.30	
For Vinylster Resin, Add	1,195.08	
For Epoxy Resin, Add	140.85	
For Up To >10, Add	1,270.75	
For >10 To 25, Add	774.42	
For >25 To 50, Add	550.01	
For >50 To 100, Add	275.01	
For >500 To 1,000, Deduct	-95.79	
For >1,000 To 2,000, Deduct	-145.42	
For >2,000 To 5,000, Deduct	-239.63	
For >5,000, Deduct	-397.07	
33 01 30 72-0201 LF 28.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,990.33	
For Vinylster Resin, Add	1,288.35	
For Epoxy Resin, Add	151.84	
For Up To >10, Add	1,369.74	
For >10 To 25, Add	834.70	
For >25 To 50, Add	592.85	
For >50 To 100, Add	296.42	
For >500 To 1,000, Deduct	-103.26	
For >1,000 To 2,000, Deduct	-156.77	
For >2,000 To 5,000, Deduct	-258.32	
For >5,000, Deduct	-428.03	
33 01 30 72-0202 30mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>.....	574.19	
33 01 30 72-0203 LF 30mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	373.39	
For Vinylster Resin, Add	44.01	
For Epoxy Resin, Add	389.02	
For Up To >10, Add	235.28	
For >10 To 25, Add	167.84	
For >25 To 50, Add	83.92	
For >50 To 100, Add	-29.73	
For >500 To 1,000, Deduct	-45.10	
For >1,000 To 2,000, Deduct	-74.20	
For >2,000 To 5,000, Deduct	-122.99	
For >5,000, Deduct		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0204 LF 30mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	649.72	
For Vinlyester Resin, Add	422.49	
For Epoxy Resin, Add	49.79	
For Up To >10, Add	440.29	
For >10 To 25, Add	266.31	
For >25 To 50, Add	189.97	
For >50 To 100, Add	94.98	
For >500 To 1,000, Deduct	-33.64	
For >1,000 To 2,000, Deduct	-51.04	
For >2,000 To 5,000, Deduct	-83.97	
For >5,000, Deduct	-139.18	
33 01 30 72-0205 LF 30mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	725.25	
For Vinlyester Resin, Add	471.57	
For Epoxy Resin, Add	55.58	
For Up To >10, Add	491.58	
For >10 To 25, Add	297.37	
For >25 To 50, Add	212.10	
For >50 To 100, Add	106.05	
For >500 To 1,000, Deduct	-37.55	
For >1,000 To 2,000, Deduct	-56.97	
For >2,000 To 5,000, Deduct	-93.74	
For >5,000, Deduct	-155.37	
33 01 30 72-0206 LF 30mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	876.18	
For Vinlyester Resin, Add	569.75	
For Epoxy Resin, Add	67.15	
For Up To >10, Add	593.72	
For >10 To 25, Add	359.11	
For >25 To 50, Add	256.16	
For >50 To 100, Add	128.08	
For >500 To 1,000, Deduct	-45.37	
For >1,000 To 2,000, Deduct	-68.83	
For >2,000 To 5,000, Deduct	-113.23	
For >5,000, Deduct	-187.69	
33 01 30 72-0207 LF 30mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,027.24	
For Vinlyester Resin, Add	667.93	
For Epoxy Resin, Add	78.72	
For Up To >10, Add	696.25	
For >10 To 25, Add	421.17	
For >25 To 50, Add	300.41	
For >50 To 100, Add	150.21	
For >500 To 1,000, Deduct	-53.19	
For >1,000 To 2,000, Deduct	-80.70	
For >2,000 To 5,000, Deduct	-132.77	
For >5,000, Deduct	-220.06	
33 01 30 72-0208 LF 30mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,178.17	
For Vinlyester Resin, Add	766.11	
For Epoxy Resin, Add	90.29	
For Up To >10, Add	798.41	
For >10 To 25, Add	482.94	
For >25 To 50, Add	344.48	
For >50 To 100, Add	172.24	
For >500 To 1,000, Deduct	-61.00	
For >1,000 To 2,000, Deduct	-92.55	
For >2,000 To 5,000, Deduct	-152.27	
For >5,000, Deduct	-252.38	
33 01 30 72-0209 LF 30mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,329.23	
For Vinlyester Resin, Add	864.29	
For Epoxy Resin, Add	101.86	
For Up To >10, Add	900.94	
For >10 To 25, Add	545.00	
For >25 To 50, Add	388.74	
For >50 To 100, Add	194.37	
For >500 To 1,000, Deduct	-68.82	
For >1,000 To 2,000, Deduct	-104.42	
For >2,000 To 5,000, Deduct	-171.80	
For >5,000, Deduct	-284.75	
33 01 30 72-0210 LF 30mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,480.17	
For Vinlyester Resin, Add	962.47	
For Epoxy Resin, Add	113.43	
For Up To >10, Add	1,003.11	
For >10 To 25, Add	606.77	
For >25 To 50, Add	432.81	
For >50 To 100, Add	216.40	
For >500 To 1,000, Deduct	-76.64	
For >1,000 To 2,000, Deduct	-116.27	
For >2,000 To 5,000, Deduct	-191.30	
For >5,000, Deduct	-317.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0211 LF 30mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,637.02	
For Vinylster Resin, Add	1,060.65	
For Epoxy Resin, Add	125.01	
For Up To >10, Add	1,123.01	
For >10 To 25, Add	683.31	
For >25 To 50, Add	485.74	
For >50 To 100, Add	242.87	
For >500 To 1,000, Deduct	-84.90	
For >1,000 To 2,000, Deduct	-128.87	
For >2,000 To 5,000, Deduct	-212.28	
For >5,000, Deduct	-351.76	
33 01 30 72-0212 LF 30mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,788.46	
For Vinylster Resin, Add	1,158.83	
For Epoxy Resin, Add	136.58	
For Up To >10, Add	1,226.71	
For >10 To 25, Add	746.34	
For >25 To 50, Add	530.58	
For >50 To 100, Add	265.29	
For >500 To 1,000, Deduct	-92.75	
For >1,000 To 2,000, Deduct	-140.78	
For >2,000 To 5,000, Deduct	-231.90	
For >5,000, Deduct	-384.29	
33 01 30 72-0213 LF 30mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,940.04	
For Vinylster Resin, Add	1,257.01	
For Epoxy Resin, Add	148.15	
For Up To >10, Add	1,330.80	
For >10 To 25, Add	809.71	
For >25 To 50, Add	575.61	
For >50 To 100, Add	287.81	
For >500 To 1,000, Deduct	-100.61	
For >1,000 To 2,000, Deduct	-152.72	
For >2,000 To 5,000, Deduct	-251.57	
For >5,000, Deduct	-416.87	
33 01 30 72-0214 LF 30mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,091.61	
For Vinylster Resin, Add	1,355.19	
For Epoxy Resin, Add	159.72	
For Up To >10, Add	1,434.86	
For >10 To 25, Add	873.05	
For >25 To 50, Add	620.63	
For >50 To 100, Add	310.31	
For >500 To 1,000, Deduct	-108.47	
For >1,000 To 2,000, Deduct	-164.65	
For >2,000 To 5,000, Deduct	-271.22	
For >5,000, Deduct	-449.45	
33 01 30 72-0215 LF 30mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,243.06	
For Vinylster Resin, Add	1,453.37	
For Epoxy Resin, Add	171.29	
For Up To >10, Add	1,538.58	
For >10 To 25, Add	936.11	
For >25 To 50, Add	665.48	
For >50 To 100, Add	332.74	
For >500 To 1,000, Deduct	-116.32	
For >1,000 To 2,000, Deduct	-176.57	
For >2,000 To 5,000, Deduct	-290.85	
For >5,000, Deduct	-481.98	
33 01 30 72-0216 LF 30mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,394.64	
For Vinylster Resin, Add	1,551.55	
For Epoxy Resin, Add	182.86	
For Up To >10, Add	1,642.67	
For >10 To 25, Add	999.48	
For >25 To 50, Add	710.51	
For >50 To 100, Add	355.26	
For >500 To 1,000, Deduct	-124.19	
For >1,000 To 2,000, Deduct	-188.51	
For >2,000 To 5,000, Deduct	-310.52	
For >5,000, Deduct	-514.56	
33 01 30 72-0217 31.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015).....	600.83	
33 01 30 72-0218 LF 31.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	391.05	
For Vinylster Resin, Add	46.09	
For Epoxy Resin, Add	405.89	
For Up To >10, Add	245.14	
For >10 To 25, Add	175.01	
For >25 To 50, Add	87.51	
For >50 To 100, Add	-31.10	
For >500 To 1,000, Deduct	-47.17	
For >1,000 To 2,000, Deduct	-77.58	
For >2,000 To 5,000, Deduct	-128.60	
For >5,000, Deduct		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0219 LF 31.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	680.00	
For Vinlyester Resin, Add	442.60	
For Epoxy Resin, Add	52.16	
For Up To >10, Add	459.30	
For >10 To 25, Add	277.37	
For >25 To 50, Add	198.04	
For >50 To 100, Add	99.02	
For >500 To 1,000, Deduct	-35.19	
For >1,000 To 2,000, Deduct	-53.39	
For >2,000 To 5,000, Deduct	-87.80	
For >5,000, Deduct	-145.54	
33 01 30 72-0220 LF 31.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	759.15	
For Vinlyester Resin, Add	494.14	
For Epoxy Resin, Add	58.24	
For Up To >10, Add	512.68	
For >10 To 25, Add	309.58	
For >25 To 50, Add	221.04	
For >50 To 100, Add	110.52	
For >500 To 1,000, Deduct	-39.29	
For >1,000 To 2,000, Deduct	-59.60	
For >2,000 To 5,000, Deduct	-98.02	
For >5,000, Deduct	-162.48	
33 01 30 72-0221 LF 31.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	917.62	
For Vinlyester Resin, Add	597.23	
For Epoxy Resin, Add	70.39	
For Up To >10, Add	619.91	
For >10 To 25, Add	374.40	
For >25 To 50, Add	267.30	
For >50 To 100, Add	133.65	
For >500 To 1,000, Deduct	-47.49	
For >1,000 To 2,000, Deduct	-72.04	
For >2,000 To 5,000, Deduct	-118.49	
For >5,000, Deduct	-196.41	
33 01 30 72-0222 LF 31.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,075.95	
For Vinlyester Resin, Add	700.32	
For Epoxy Resin, Add	82.54	
For Up To >10, Add	726.73	
For >10 To 25, Add	438.86	
For >25 To 50, Add	313.34	
For >50 To 100, Add	156.67	
For >500 To 1,000, Deduct	-55.69	
For >1,000 To 2,000, Deduct	-84.47	
For >2,000 To 5,000, Deduct	-138.93	
For >5,000, Deduct	-230.29	
33 01 30 72-0223 LF 31.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,234.41	
For Vinlyester Resin, Add	803.40	
For Epoxy Resin, Add	94.69	
For Up To >10, Add	833.93	
For >10 To 25, Add	503.66	
For >25 To 50, Add	359.58	
For >50 To 100, Add	179.79	
For >500 To 1,000, Deduct	-63.89	
For >1,000 To 2,000, Deduct	-96.92	
For >2,000 To 5,000, Deduct	-159.40	
For >5,000, Deduct	-264.22	
33 01 30 72-0224 LF 31.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,392.74	
For Vinlyester Resin, Add	906.49	
For Epoxy Resin, Add	106.84	
For Up To >10, Add	940.75	
For >10 To 25, Add	568.12	
For >25 To 50, Add	405.62	
For >50 To 100, Add	202.81	
For >500 To 1,000, Deduct	-72.08	
For >1,000 To 2,000, Deduct	-109.34	
For >2,000 To 5,000, Deduct	-179.84	
For >5,000, Deduct	-298.10	
33 01 30 72-0225 LF 31.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,551.07	
For Vinlyester Resin, Add	1,009.58	
For Epoxy Resin, Add	118.99	
For Up To >10, Add	1,047.56	
For >10 To 25, Add	632.59	
For >25 To 50, Add	451.67	
For >50 To 100, Add	225.83	
For >500 To 1,000, Deduct	-80.27	
For >1,000 To 2,000, Deduct	-121.77	
For >2,000 To 5,000, Deduct	-200.27	
For >5,000, Deduct	-331.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0226 LF 31.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,715.57	
For Vinylster Resin, Add	1,112.67	
For Epoxy Resin, Add	131.14	
For Up To >10, Add	1,172.89	
For >10 To 25, Add	712.48	
For >25 To 50, Add	506.97	
For >50 To 100, Add	253.48	
For >500 To 1,000, Deduct	-88.93	
For >1,000 To 2,000, Deduct	-134.97	
For >2,000 To 5,000, Deduct	-222.25	
For >5,000, Deduct	-368.32	
33 01 30 72-0227 LF 31.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,886.54	
For Vinylster Resin, Add	1,224.06	
For Epoxy Resin, Add	144.26	
For Up To >10, Add	1,287.97	
For >10 To 25, Add	781.87	
For >25 To 50, Add	556.55	
For >50 To 100, Add	278.28	
For >500 To 1,000, Deduct	-97.77	
For >1,000 To 2,000, Deduct	-148.38	
For >2,000 To 5,000, Deduct	-244.31	
For >5,000, Deduct	-404.88	
33 01 30 72-0228 LF 31.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,033.39	
For Vinylster Resin, Add	1,318.85	
For Epoxy Resin, Add	155.44	
For Up To >10, Add	1,390.00	
For >10 To 25, Add	844.32	
For >25 To 50, Add	600.79	
For >50 To 100, Add	300.40	
For >500 To 1,000, Deduct	-105.40	
For >1,000 To 2,000, Deduct	-159.97	
For >2,000 To 5,000, Deduct	-263.42	
For >5,000, Deduct	-436.54	
33 01 30 72-0229 LF 31.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,192.37	
For Vinylster Resin, Add	1,421.94	
For Epoxy Resin, Add	167.59	
For Up To >10, Add	1,498.76	
For >10 To 25, Add	910.41	
For >25 To 50, Add	647.81	
For >50 To 100, Add	323.91	
For >500 To 1,000, Deduct	-113.64	
For >1,000 To 2,000, Deduct	-172.48	
For >2,000 To 5,000, Deduct	-284.02	
For >5,000, Deduct	-470.68	
33 01 30 72-0230 LF 31.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,351.21	
For Vinylster Resin, Add	1,525.03	
For Epoxy Resin, Add	179.74	
For Up To >10, Add	1,607.11	
For >10 To 25, Add	976.15	
For >25 To 50, Add	694.62	
For >50 To 100, Add	347.31	
For >500 To 1,000, Deduct	-121.88	
For >1,000 To 2,000, Deduct	-184.97	
For >2,000 To 5,000, Deduct	-304.58	
For >5,000, Deduct	-504.76	
33 01 30 72-0231 LF 31.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,510.18	
For Vinylster Resin, Add	1,628.12	
For Epoxy Resin, Add	191.89	
For Up To >10, Add	1,715.84	
For >10 To 25, Add	1,042.22	
For >25 To 50, Add	741.63	
For >50 To 100, Add	370.81	
For >500 To 1,000, Deduct	-130.12	
For >1,000 To 2,000, Deduct	-197.48	
For >2,000 To 5,000, Deduct	-325.18	
For >5,000, Deduct	-538.90	
33 01 30 72-0232 33mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>.....	627.20	
33 01 30 72-0233 LF 33mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	627.20	
For Vinylster Resin, Add	408.61	
For Epoxy Resin, Add	48.16	
For Up To >10, Add	422.28	
For >10 To 25, Add	254.61	
For >25 To 50, Add	181.95	
For >50 To 100, Add	90.98	
For >500 To 1,000, Deduct	-32.45	
For >1,000 To 2,000, Deduct	-49.21	
For >2,000 To 5,000, Deduct	-80.92	
For >5,000, Deduct	-134.13	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0234 LF 33mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	710.12	
For Vinlyester Resin, Add	462.60	
For Epoxy Resin, Add	54.52	
For Up To >10, Add	478.21	
For >10 To 25, Add	288.37	
For >25 To 50, Add	206.06	
For >50 To 100, Add	103.03	
For >500 To 1,000, Deduct	-36.74	
For >1,000 To 2,000, Deduct	-55.72	
For >2,000 To 5,000, Deduct	-91.62	
For >5,000, Deduct	-151.88	
33 01 30 72-0235 LF 33mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	792.92	
For Vinlyester Resin, Add	516.61	
For Epoxy Resin, Add	60.89	
For Up To >10, Add	533.74	
For >10 To 25, Add	321.78	
For >25 To 50, Add	229.97	
For >50 To 100, Add	114.98	
For >500 To 1,000, Deduct	-41.02	
For >1,000 To 2,000, Deduct	-62.21	
For >2,000 To 5,000, Deduct	-102.29	
For >5,000, Deduct	-169.57	
33 01 30 72-0236 LF 33mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	958.78	
For Vinlyester Resin, Add	624.60	
For Epoxy Resin, Add	73.61	
For Up To >10, Add	645.62	
For >10 To 25, Add	389.30	
For >25 To 50, Add	278.19	
For >50 To 100, Add	139.10	
For >500 To 1,000, Deduct	-49.60	
For >1,000 To 2,000, Deduct	-75.23	
For >2,000 To 5,000, Deduct	-123.70	
For >5,000, Deduct	-205.05	
33 01 30 72-0237 LF 33mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,124.51	
For Vinlyester Resin, Add	732.60	
For Epoxy Resin, Add	86.34	
For Up To >10, Add	757.11	
For >10 To 25, Add	456.49	
For >25 To 50, Add	326.22	
For >50 To 100, Add	163.11	
For >500 To 1,000, Deduct	-58.17	
For >1,000 To 2,000, Deduct	-88.24	
For >2,000 To 5,000, Deduct	-145.07	
For >5,000, Deduct	-240.49	
33 01 30 72-0238 LF 33mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,290.38	
For Vinlyester Resin, Add	840.60	
For Epoxy Resin, Add	99.07	
For Up To >10, Add	868.99	
For >10 To 25, Add	524.02	
For >25 To 50, Add	374.45	
For >50 To 100, Add	187.23	
For >500 To 1,000, Deduct	-66.76	
For >1,000 To 2,000, Deduct	-101.25	
For >2,000 To 5,000, Deduct	-166.48	
For >5,000, Deduct	-275.98	
33 01 30 72-0239 LF 33mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,456.10	
For Vinlyester Resin, Add	948.60	
For Epoxy Resin, Add	111.80	
For Up To >10, Add	980.45	
For >10 To 25, Add	591.19	
For >25 To 50, Add	422.47	
For >50 To 100, Add	211.23	
For >500 To 1,000, Deduct	-75.33	
For >1,000 To 2,000, Deduct	-114.26	
For >2,000 To 5,000, Deduct	-187.86	
For >5,000, Deduct	-311.41	
33 01 30 72-0240 LF 33mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,621.83	
For Vinlyester Resin, Add	1,056.59	
For Epoxy Resin, Add	124.53	
For Up To >10, Add	1,091.94	
For >10 To 25, Add	658.38	
For >25 To 50, Add	470.50	
For >50 To 100, Add	235.25	
For >500 To 1,000, Deduct	-83.90	
For >1,000 To 2,000, Deduct	-127.26	
For >2,000 To 5,000, Deduct	-209.23	
For >5,000, Deduct	-346.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0241 LF 33mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,793.86	
For Vinylster Resin, Add	1,164.59	
For Epoxy Resin, Add	137.26	
For Up To >10, Add	1,222.33	
For >10 To 25, Add	741.33	
For >25 To 50, Add	527.98	
For >50 To 100, Add	263.99	
For >500 To 1,000, Deduct	-92.95	
For >1,000 To 2,000, Deduct	-141.05	
For >2,000 To 5,000, Deduct	-232.18	
For >5,000, Deduct	-384.80	
33 01 30 72-0242 LF 33mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,960.63	
For Vinylster Resin, Add	1,272.59	
For Epoxy Resin, Add	149.98	
For Up To >10, Add	1,336.92	
For >10 To 25, Add	811.10	
For >25 To 50, Add	577.56	
For >50 To 100, Add	288.78	
For >500 To 1,000, Deduct	-101.60	
For >1,000 To 2,000, Deduct	-154.18	
For >2,000 To 5,000, Deduct	-253.82	
For >5,000, Deduct	-420.65	
33 01 30 72-0243 LF 33mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,126.48	
For Vinylster Resin, Add	1,380.59	
For Epoxy Resin, Add	162.71	
For Up To >10, Add	1,448.77	
For >10 To 25, Add	878.59	
For >25 To 50, Add	625.77	
For >50 To 100, Add	312.88	
For >500 To 1,000, Deduct	-110.18	
For >1,000 To 2,000, Deduct	-167.20	
For >2,000 To 5,000, Deduct	-275.22	
For >5,000, Deduct	-456.14	
33 01 30 72-0244 LF 33mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,292.85	
For Vinylster Resin, Add	1,488.59	
For Epoxy Resin, Add	175.44	
For Up To >10, Add	1,562.18	
For >10 To 25, Add	947.39	
For >25 To 50, Add	674.76	
For >50 To 100, Add	337.38	
For >500 To 1,000, Deduct	-118.80	
For >1,000 To 2,000, Deduct	-180.28	
For >2,000 To 5,000, Deduct	-296.76	
For >5,000, Deduct	-491.83	
33 01 30 72-0245 LF 33mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,459.22	
For Vinylster Resin, Add	1,596.58	
For Epoxy Resin, Add	188.17	
For Up To >10, Add	1,675.59	
For >10 To 25, Add	1,016.18	
For >25 To 50, Add	723.75	
For >50 To 100, Add	361.88	
For >500 To 1,000, Deduct	-127.42	
For >1,000 To 2,000, Deduct	-193.36	
For >2,000 To 5,000, Deduct	-318.30	
For >5,000, Deduct	-527.52	
33 01 30 72-0246 LF 33mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,625.59	
For Vinylster Resin, Add	1,704.58	
For Epoxy Resin, Add	200.90	
For Up To >10, Add	1,789.00	
For >10 To 25, Add	1,084.98	
For >25 To 50, Add	772.74	
For >50 To 100, Add	386.37	
For >500 To 1,000, Deduct	-136.04	
For >1,000 To 2,000, Deduct	-206.44	
For >2,000 To 5,000, Deduct	-339.83	
For >5,000, Deduct	-563.21	
33 01 30 72-0247 34.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0248 LF 34.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	739.74	
For Vinylster Resin, Add	482.52	
For Epoxy Resin, Add	56.87	
For Up To >10, Add	495.92	
For >10 To 25, Add	298.38	
For >25 To 50, Add	213.49	
For >50 To 100, Add	106.75	
For >500 To 1,000, Deduct	-38.25	
For >1,000 To 2,000, Deduct	-58.00	
For >2,000 To 5,000, Deduct	-95.32	
For >5,000, Deduct	-158.03	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0249 LF 34.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	826.29	
For Vinlyester Resin, Add	538.97	
For Epoxy Resin, Add	63.52	
For Up To >10, Add	553.97	
For >10 To 25, Add	333.32	
For >25 To 50, Add	238.49	
For >50 To 100, Add	119.24	
For >500 To 1,000, Deduct	-42.72	
For >1,000 To 2,000, Deduct	-64.79	
For >2,000 To 5,000, Deduct	-106.48	
For >5,000, Deduct	-176.52	
33 01 30 72-0250 LF 34.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	999.42	
For Vinlyester Resin, Add	651.88	
For Epoxy Resin, Add	76.83	
For Up To >10, Add	670.11	
For >10 To 25, Add	403.22	
For >25 To 50, Add	288.49	
For >50 To 100, Add	144.25	
For >500 To 1,000, Deduct	-51.68	
For >1,000 To 2,000, Deduct	-78.36	
For >2,000 To 5,000, Deduct	-128.79	
For >5,000, Deduct	-213.52	
33 01 30 72-0251 LF 34.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,172.42	
For Vinlyester Resin, Add	764.79	
For Epoxy Resin, Add	90.14	
For Up To >10, Add	785.89	
For >10 To 25, Add	472.81	
For >25 To 50, Add	338.32	
For >50 To 100, Add	169.16	
For >500 To 1,000, Deduct	-60.62	
For >1,000 To 2,000, Deduct	-91.93	
For >2,000 To 5,000, Deduct	-151.07	
For >5,000, Deduct	-250.46	
33 01 30 72-0252 LF 34.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,345.56	
For Vinlyester Resin, Add	877.70	
For Epoxy Resin, Add	103.44	
For Up To >10, Add	902.06	
For >10 To 25, Add	542.74	
For >25 To 50, Add	388.34	
For >50 To 100, Add	194.17	
For >500 To 1,000, Deduct	-69.57	
For >1,000 To 2,000, Deduct	-105.50	
For >2,000 To 5,000, Deduct	-173.39	
For >5,000, Deduct	-287.45	
33 01 30 72-0253 LF 34.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,518.55	
For Vinlyester Resin, Add	990.61	
For Epoxy Resin, Add	116.75	
For Up To >10, Add	1,017.78	
For >10 To 25, Add	612.29	
For >25 To 50, Add	438.13	
For >50 To 100, Add	219.07	
For >500 To 1,000, Deduct	-78.51	
For >1,000 To 2,000, Deduct	-119.06	
For >2,000 To 5,000, Deduct	-195.67	
For >5,000, Deduct	-324.39	
33 01 30 72-0254 LF 34.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,691.68	
For Vinlyester Resin, Add	1,103.51	
For Epoxy Resin, Add	130.06	
For Up To >10, Add	1,133.94	
For >10 To 25, Add	682.21	
For >25 To 50, Add	488.15	
For >50 To 100, Add	244.07	
For >500 To 1,000, Deduct	-87.47	
For >1,000 To 2,000, Deduct	-132.64	
For >2,000 To 5,000, Deduct	-217.98	
For >5,000, Deduct	-361.38	
33 01 30 72-0255 LF 34.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,871.11	
For Vinlyester Resin, Add	1,216.42	
For Epoxy Resin, Add	143.36	
For Up To >10, Add	1,268.98	
For >10 To 25, Add	767.86	
For >25 To 50, Add	547.60	
For >50 To 100, Add	273.80	
For >500 To 1,000, Deduct	-96.89	
For >1,000 To 2,000, Deduct	-147.00	
For >2,000 To 5,000, Deduct	-241.87	
For >5,000, Deduct	-400.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0256 LF 34.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,045.00	
For Vinylster Resin, Add	1,329.32	
For Epoxy Resin, Add	156.67	
For Up To >10, Add	1,387.43	
For >10 To 25, Add	839.68	
For >25 To 50, Add	598.76	
For >50 To 100, Add	299.38	
For >500 To 1,000, Deduct	-105.90	
For >1,000 To 2,000, Deduct	-160.67	
For >2,000 To 5,000, Deduct	-264.38	
For >5,000, Deduct	-438.19	
33 01 30 72-0257 LF 34.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,216.34	
For Vinylster Resin, Add	1,442.23	
For Epoxy Resin, Add	169.98	
For Up To >10, Add	1,498.20	
For >10 To 25, Add	905.11	
For >25 To 50, Add	646.08	
For >50 To 100, Add	323.04	
For >500 To 1,000, Deduct	-114.72	
For >1,000 To 2,000, Deduct	-174.03	
For >2,000 To 5,000, Deduct	-286.24	
For >5,000, Deduct	-474.47	
33 01 30 72-0258 LF 34.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,392.16	
For Vinylster Resin, Add	1,555.13	
For Epoxy Resin, Add	183.28	
For Up To >10, Add	1,622.43	
For >10 To 25, Add	981.76	
For >25 To 50, Add	700.13	
For >50 To 100, Add	350.07	
For >500 To 1,000, Deduct	-123.87	
For >1,000 To 2,000, Deduct	-187.94	
For >2,000 To 5,000, Deduct	-309.23	
For >5,000, Deduct	-512.54	
33 01 30 72-0259 LF 34.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,565.81	
For Vinylster Resin, Add	1,668.04	
For Epoxy Resin, Add	196.59	
For Up To >10, Add	1,740.13	
For >10 To 25, Add	1,052.96	
For >25 To 50, Add	750.92	
For >50 To 100, Add	375.46	
For >500 To 1,000, Deduct	-132.86	
For >1,000 To 2,000, Deduct	-201.58	
For >2,000 To 5,000, Deduct	-331.67	
For >5,000, Deduct	-549.74	
33 01 30 72-0260 LF 34.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,739.44	
For Vinylster Resin, Add	1,780.95	
For Epoxy Resin, Add	209.90	
For Up To >10, Add	1,857.80	
For >10 To 25, Add	1,124.13	
For >25 To 50, Add	801.69	
For >50 To 100, Add	400.84	
For >500 To 1,000, Deduct	-141.85	
For >1,000 To 2,000, Deduct	-215.22	
For >2,000 To 5,000, Deduct	-354.11	
For >5,000, Deduct	-586.93	
33 01 30 72-0261 36mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0262 LF 36mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	769.21	
For Vinylster Resin, Add	502.34	
For Epoxy Resin, Add	59.20	
For Up To >10, Add	513.56	
For >10 To 25, Add	308.36	
For >25 To 50, Add	220.90	
For >50 To 100, Add	110.45	
For >500 To 1,000, Deduct	-39.75	
For >1,000 To 2,000, Deduct	-60.27	
For >2,000 To 5,000, Deduct	-99.01	
For >5,000, Deduct	-164.16	
33 01 30 72-0263 LF 36mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	859.40	
For Vinylster Resin, Add	561.25	
For Epoxy Resin, Add	66.15	
For Up To >10, Add	573.75	
For >10 To 25, Add	344.50	
For >25 To 50, Add	246.79	
For >50 To 100, Add	123.39	
For >500 To 1,000, Deduct	-44.41	
For >1,000 To 2,000, Deduct	-67.34	
For >2,000 To 5,000, Deduct	-110.62	
For >5,000, Deduct	-183.40	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 01 30 72-0264	LF		36mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,039.80	
			For Vinlyester Resin, Add	679.06	
			For Epoxy Resin, Add	80.03	
			For Up To >10, Add	694.18	
			For >10 To 25, Add	416.80	
			For >25 To 50, Add	298.58	
			For >50 To 100, Add	149.29	
			For >500 To 1,000, Deduct	-53.73	
			For >1,000 To 2,000, Deduct	-81.47	
			For >2,000 To 5,000, Deduct	-133.84	
			For >5,000, Deduct	-221.90	
33 01 30 72-0265	LF		36mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,220.20	
			For Vinlyester Resin, Add	796.88	
			For Epoxy Resin, Add	93.92	
			For Up To >10, Add	814.60	
			For >10 To 25, Add	489.10	
			For >25 To 50, Add	350.38	
			For >50 To 100, Add	175.19	
			For >500 To 1,000, Deduct	-63.06	
			For >1,000 To 2,000, Deduct	-95.61	
			For >2,000 To 5,000, Deduct	-157.06	
			For >5,000, Deduct	-260.40	
33 01 30 72-0266	LF		36mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,400.47	
			For Vinlyester Resin, Add	914.70	
			For Epoxy Resin, Add	107.80	
			For Up To >10, Add	934.64	
			For >10 To 25, Add	561.08	
			For >25 To 50, Add	401.98	
			For >50 To 100, Add	200.99	
			For >500 To 1,000, Deduct	-72.37	
			For >1,000 To 2,000, Deduct	-109.72	
			For >2,000 To 5,000, Deduct	-180.25	
			For >5,000, Deduct	-298.85	
33 01 30 72-0267	LF		36mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,580.87	
			For Vinlyester Resin, Add	1,032.51	
			For Epoxy Resin, Add	121.69	
			For Up To >10, Add	1,055.06	
			For >10 To 25, Add	633.38	
			For >25 To 50, Add	453.78	
			For >50 To 100, Add	226.89	
			For >500 To 1,000, Deduct	-81.69	
			For >1,000 To 2,000, Deduct	-123.86	
			For >2,000 To 5,000, Deduct	-203.46	
			For >5,000, Deduct	-337.34	
33 01 30 72-0268	LF		36mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,761.27	
			For Vinlyester Resin, Add	1,150.33	
			For Epoxy Resin, Add	135.57	
			For Up To >10, Add	1,175.49	
			For >10 To 25, Add	705.68	
			For >25 To 50, Add	505.58	
			For >50 To 100, Add	252.79	
			For >500 To 1,000, Deduct	-91.01	
			For >1,000 To 2,000, Deduct	-137.99	
			For >2,000 To 5,000, Deduct	-226.68	
			For >5,000, Deduct	-375.84	
33 01 30 72-0269	LF		36mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,948.22	
			For Vinlyester Resin, Add	1,268.14	
			For Epoxy Resin, Add	149.46	
			For Up To >10, Add	1,315.59	
			For >10 To 25, Add	794.38	
			For >25 To 50, Add	567.21	
			For >50 To 100, Add	283.61	
			For >500 To 1,000, Deduct	-100.83	
			For >1,000 To 2,000, Deduct	-152.95	
			For >2,000 To 5,000, Deduct	-251.54	
			For >5,000, Deduct	-416.96	
33 01 30 72-0270	LF		36mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,129.26	
			For Vinlyester Resin, Add	1,385.96	
			For Epoxy Resin, Add	163.35	
			For Up To >10, Add	1,437.93	
			For >10 To 25, Add	868.29	
			For >25 To 50, Add	619.97	
			For >50 To 100, Add	309.98	
			For >500 To 1,000, Deduct	-110.20	
			For >1,000 To 2,000, Deduct	-167.16	
			For >2,000 To 5,000, Deduct	-274.92	
			For >5,000, Deduct	-455.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0271 LF 36mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,305.93	
For Vinylster Resin, Add	1,503.78	
For Epoxy Resin, Add	177.23	
For Up To >10, Add	1,547.17	
For >10 To 25, Add	931.26	
For >25 To 50, Add	666.17	
For >50 To 100, Add	333.09	
For >500 To 1,000, Deduct	-119.24	
For >1,000 To 2,000, Deduct	-180.83	
For >2,000 To 5,000, Deduct	-297.21	
For >5,000, Deduct	-492.72	
33 01 30 72-0272 LF 36mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,491.22	
For Vinylster Resin, Add	1,621.59	
For Epoxy Resin, Add	191.12	
For Up To >10, Add	1,682.26	
For >10 To 25, Add	1,015.79	
For >25 To 50, Add	725.30	
For >50 To 100, Add	362.65	
For >500 To 1,000, Deduct	-128.93	
For >1,000 To 2,000, Deduct	-195.57	
For >2,000 To 5,000, Deduct	-321.65	
For >5,000, Deduct	-533.18	
33 01 30 72-0273 LF 36mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,672.26	
For Vinylster Resin, Add	1,739.41	
For Epoxy Resin, Add	205.00	
For Up To >10, Add	1,804.61	
For >10 To 25, Add	1,089.69	
For >25 To 50, Add	778.06	
For >50 To 100, Add	389.03	
For >500 To 1,000, Deduct	-138.30	
For >1,000 To 2,000, Deduct	-209.79	
For >2,000 To 5,000, Deduct	-345.03	
For >5,000, Deduct	-571.93	
33 01 30 72-0274 LF 36mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,853.30	
For Vinylster Resin, Add	1,857.22	
For Epoxy Resin, Add	218.89	
For Up To >10, Add	1,926.98	
For >10 To 25, Add	1,163.62	
For >25 To 50, Add	830.83	
For >50 To 100, Add	415.41	
For >500 To 1,000, Deduct	-147.67	
For >1,000 To 2,000, Deduct	-224.00	
For >2,000 To 5,000, Deduct	-368.41	
For >5,000, Deduct	-610.69	
33 01 30 72-0275 LF 36mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,034.21	
For Vinylster Resin, Add	1,975.04	
For Epoxy Resin, Add	232.77	
For Up To >10, Add	2,048.93	
For >10 To 25, Add	1,237.20	
For >25 To 50, Add	883.39	
For >50 To 100, Add	441.70	
For >500 To 1,000, Deduct	-157.03	
For >1,000 To 2,000, Deduct	-238.20	
For >2,000 To 5,000, Deduct	-391.76	
For >5,000, Deduct	-649.39	
33 01 30 72-0276 LF 36mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,215.26	
For Vinylster Resin, Add	2,092.85	
For Epoxy Resin, Add	246.66	
For Up To >10, Add	2,171.31	
For >10 To 25, Add	1,311.12	
For >25 To 50, Add	936.16	
For >50 To 100, Add	468.08	
For >500 To 1,000, Deduct	-166.40	
For >1,000 To 2,000, Deduct	-252.42	
For >2,000 To 5,000, Deduct	-415.14	
For >5,000, Deduct	-688.15	
33 01 30 72-0277 37.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0278 LF 37.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	892.23	
For Vinylster Resin, Add	583.42	
For Epoxy Resin, Add	68.76	
For Up To >10, Add	593.04	
For >10 To 25, Add	355.29	
For >25 To 50, Add	254.85	
For >50 To 100, Add	127.42	
For >500 To 1,000, Deduct	-46.08	
For >1,000 To 2,000, Deduct	-69.86	
For >2,000 To 5,000, Deduct	-114.71	
For >5,000, Deduct	-190.20	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0279 LF 37.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,079.92	
For Vinlyester Resin, Add	706.15	
For Epoxy Resin, Add	83.23	
For Up To >10, Add	717.79	
For >10 To 25, Add	430.02	
For >25 To 50, Add	308.45	
For >50 To 100, Add	154.23	
For >500 To 1,000, Deduct	-55.77	
For >1,000 To 2,000, Deduct	-84.55	
For >2,000 To 5,000, Deduct	-138.84	
For >5,000, Deduct	-230.21	
33 01 30 72-0280 LF 37.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,267.58	
For Vinlyester Resin, Add	828.88	
For Epoxy Resin, Add	97.69	
For Up To >10, Add	842.47	
For >10 To 25, Add	504.70	
For >25 To 50, Add	362.03	
For >50 To 100, Add	181.01	
For >500 To 1,000, Deduct	-65.47	
For >1,000 To 2,000, Deduct	-99.24	
For >2,000 To 5,000, Deduct	-162.96	
For >5,000, Deduct	-270.21	
33 01 30 72-0281 LF 37.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,455.25	
For Vinlyester Resin, Add	951.60	
For Epoxy Resin, Add	112.15	
For Up To >10, Add	967.18	
For >10 To 25, Add	579.41	
For >25 To 50, Add	415.62	
For >50 To 100, Add	207.81	
For >500 To 1,000, Deduct	-75.16	
For >1,000 To 2,000, Deduct	-113.93	
For >2,000 To 5,000, Deduct	-187.09	
For >5,000, Deduct	-310.21	
33 01 30 72-0282 LF 37.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,642.92	
For Vinlyester Resin, Add	1,074.33	
For Epoxy Resin, Add	126.62	
For Up To >10, Add	1,091.89	
For >10 To 25, Add	654.11	
For >25 To 50, Add	469.21	
For >50 To 100, Add	234.60	
For >500 To 1,000, Deduct	-84.85	
For >1,000 To 2,000, Deduct	-128.63	
For >2,000 To 5,000, Deduct	-211.21	
For >5,000, Deduct	-350.22	
33 01 30 72-0283 LF 37.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,830.58	
For Vinlyester Resin, Add	1,197.05	
For Epoxy Resin, Add	141.08	
For Up To >10, Add	1,216.57	
For >10 To 25, Add	728.79	
For >25 To 50, Add	522.78	
For >50 To 100, Add	261.39	
For >500 To 1,000, Deduct	-94.54	
For >1,000 To 2,000, Deduct	-143.32	
For >2,000 To 5,000, Deduct	-235.34	
For >5,000, Deduct	-390.22	
33 01 30 72-0284 LF 37.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,024.94	
For Vinlyester Resin, Add	1,319.77	
For Epoxy Resin, Add	155.54	
For Up To >10, Add	1,361.35	
For >10 To 25, Add	820.22	
For >25 To 50, Add	586.40	
For >50 To 100, Add	293.20	
For >500 To 1,000, Deduct	-104.74	
For >1,000 To 2,000, Deduct	-158.85	
For >2,000 To 5,000, Deduct	-261.13	
For >5,000, Deduct	-432.90	
33 01 30 72-0285 LF 37.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,213.25	
For Vinlyester Resin, Add	1,442.50	
For Epoxy Resin, Add	170.01	
For Up To >10, Add	1,487.98	
For >10 To 25, Add	896.53	
For >25 To 50, Add	640.95	
For >50 To 100, Add	320.48	
For >500 To 1,000, Deduct	-114.48	
For >1,000 To 2,000, Deduct	-173.62	
For >2,000 To 5,000, Deduct	-285.42	
For >5,000, Deduct	-473.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0286 LF 37.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,399.37	
For Vinlyester Resin, Add	1,565.22	
For Epoxy Resin, Add	184.47	
For Up To >10, Add	1,608.04	
For >10 To 25, Add	967.36	
For >25 To 50, Add	692.22	
For >50 To 100, Add	346.11	
For >500 To 1,000, Deduct	-124.05	
For >1,000 To 2,000, Deduct	-188.12	
For >2,000 To 5,000, Deduct	-309.16	
For >5,000, Deduct	-512.54	
33 01 30 72-0287 LF 37.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,589.88	
For Vinlyester Resin, Add	1,687.95	
For Epoxy Resin, Add	198.94	
For Up To >10, Add	1,741.24	
For >10 To 25, Add	1,049.14	
For >25 To 50, Add	750.05	
For >50 To 100, Add	375.03	
For >500 To 1,000, Deduct	-133.96	
For >1,000 To 2,000, Deduct	-203.17	
For >2,000 To 5,000, Deduct	-333.99	
For >5,000, Deduct	-553.68	
33 01 30 72-0288 LF 37.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,778.19	
For Vinlyester Resin, Add	1,810.68	
For Epoxy Resin, Add	213.40	
For Up To >10, Add	1,867.87	
For >10 To 25, Add	1,125.45	
For >25 To 50, Add	804.60	
For >50 To 100, Add	402.30	
For >500 To 1,000, Deduct	-143.70	
For >1,000 To 2,000, Deduct	-217.94	
For >2,000 To 5,000, Deduct	-358.28	
For >5,000, Deduct	-593.94	
33 01 30 72-0289 LF 37.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,966.37	
For Vinlyester Resin, Add	1,933.40	
For Epoxy Resin, Add	227.87	
For Up To >10, Add	1,994.11	
For >10 To 25, Add	1,201.43	
For >25 To 50, Add	858.96	
For >50 To 100, Add	429.48	
For >500 To 1,000, Deduct	-153.43	
For >1,000 To 2,000, Deduct	-232.70	
For >2,000 To 5,000, Deduct	-382.53	
For >5,000, Deduct	-634.15	
33 01 30 72-0290 LF 37.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,154.68	
For Vinlyester Resin, Add	2,056.12	
For Epoxy Resin, Add	242.33	
For Up To >10, Add	2,120.74	
For >10 To 25, Add	1,277.73	
For >25 To 50, Add	913.50	
For >50 To 100, Add	456.75	
For >500 To 1,000, Deduct	-163.17	
For >1,000 To 2,000, Deduct	-247.47	
For >2,000 To 5,000, Deduct	-406.82	
For >5,000, Deduct	-674.41	
33 01 30 72-0291 LF 37.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,342.99	
For Vinlyester Resin, Add	2,178.85	
For Epoxy Resin, Add	256.79	
For Up To >10, Add	2,247.37	
For >10 To 25, Add	1,354.04	
For >25 To 50, Add	968.05	
For >50 To 100, Add	484.03	
For >500 To 1,000, Deduct	-172.91	
For >1,000 To 2,000, Deduct	-262.24	
For >2,000 To 5,000, Deduct	-431.10	
For >5,000, Deduct	-714.67	
33 01 30 72-0292 39mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>.....	1,119.88	
33 01 30 72-0293 LF 39mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	733.14	
For Vinlyester Resin, Add	86.41	
For Epoxy Resin, Add	741.29	
For Up To >10, Add	443.19	
For >10 To 25, Add	318.28	
For >25 To 50, Add	159.14	
For >50 To 100, Add	-57.81	
For >500 To 1,000, Deduct	-87.62	
For >1,000 To 2,000, Deduct	-143.82	
For >2,000 To 5,000, Deduct	-238.48	
For >5,000, Deduct		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0294 LF 39mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,314.83	
For Vinlyester Resin, Add	860.78	
For Epoxy Resin, Add	101.45	
For Up To >10, Add	870.29	
For >10 To 25, Add	520.30	
For >25 To 50, Add	373.66	
For >50 To 100, Add	186.83	
For >500 To 1,000, Deduct	-67.87	
For >1,000 To 2,000, Deduct	-102.87	
For >2,000 To 5,000, Deduct	-168.85	
For >5,000, Deduct	-280.00	
33 01 30 72-0295 LF 39mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,509.76	
For Vinlyester Resin, Add	988.41	
For Epoxy Resin, Add	116.49	
For Up To >10, Add	999.26	
For >10 To 25, Add	597.38	
For >25 To 50, Add	429.03	
For >50 To 100, Add	214.51	
For >500 To 1,000, Deduct	-77.93	
For >1,000 To 2,000, Deduct	-118.12	
For >2,000 To 5,000, Deduct	-193.88	
For >5,000, Deduct	-321.50	
33 01 30 72-0296 LF 39mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,704.69	
For Vinlyester Resin, Add	1,116.04	
For Epoxy Resin, Add	131.53	
For Up To >10, Add	1,128.22	
For >10 To 25, Add	674.46	
For >25 To 50, Add	484.39	
For >50 To 100, Add	242.20	
For >500 To 1,000, Deduct	-87.99	
For >1,000 To 2,000, Deduct	-133.37	
For >2,000 To 5,000, Deduct	-218.91	
For >5,000, Deduct	-363.01	
33 01 30 72-0297 LF 39mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,899.77	
For Vinlyester Resin, Add	1,243.68	
For Epoxy Resin, Add	146.58	
For Up To >10, Add	1,257.61	
For >10 To 25, Add	751.90	
For >25 To 50, Add	539.97	
For >50 To 100, Add	269.99	
For >500 To 1,000, Deduct	-98.07	
For >1,000 To 2,000, Deduct	-148.64	
For >2,000 To 5,000, Deduct	-243.97	
For >5,000, Deduct	-404.57	
33 01 30 72-0298 LF 39mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,101.40	
For Vinlyester Resin, Add	1,371.31	
For Epoxy Resin, Add	161.62	
For Up To >10, Add	1,406.65	
For >10 To 25, Add	845.71	
For >25 To 50, Add	605.37	
For >50 To 100, Add	302.69	
For >500 To 1,000, Deduct	-108.63	
For >1,000 To 2,000, Deduct	-164.72	
For >2,000 To 5,000, Deduct	-270.68	
For >5,000, Deduct	-448.76	
33 01 30 72-0299 LF 39mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,296.97	
For Vinlyester Resin, Add	1,498.95	
For Epoxy Resin, Add	176.66	
For Up To >10, Add	1,537.54	
For >10 To 25, Add	924.39	
For >25 To 50, Add	661.70	
For >50 To 100, Add	330.85	
For >500 To 1,000, Deduct	-118.74	
For >1,000 To 2,000, Deduct	-180.05	
For >2,000 To 5,000, Deduct	-295.87	
For >5,000, Deduct	-490.52	
33 01 30 72-0300 LF 39mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,492.55	
For Vinlyester Resin, Add	1,626.58	
For Epoxy Resin, Add	191.70	
For Up To >10, Add	1,668.45	
For >10 To 25, Add	1,003.10	
For >25 To 50, Add	718.04	
For >50 To 100, Add	359.02	
For >500 To 1,000, Deduct	-128.85	
For >1,000 To 2,000, Deduct	-195.38	
For >2,000 To 5,000, Deduct	-321.06	
For >5,000, Deduct	-532.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0301 LF 39mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,688.27	
For Vinlyester Resin, Add	1,754.21	
For Epoxy Resin, Add	206.75	
For Up To >10, Add	1,799.76	
For >10 To 25, Add	1,082.13	
For >25 To 50, Add	774.58	
For >50 To 100, Add	387.29	
For >500 To 1,000, Deduct	-138.97	
For >1,000 To 2,000, Deduct	-210.73	
For >2,000 To 5,000, Deduct	-346.28	
For >5,000, Deduct	-574.10	
33 01 30 72-0302 LF 39mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,883.85	
For Vinlyester Resin, Add	1,881.85	
For Epoxy Resin, Add	221.79	
For Up To >10, Add	1,930.68	
For >10 To 25, Add	1,160.84	
For >25 To 50, Add	830.92	
For >50 To 100, Add	415.46	
For >500 To 1,000, Deduct	-149.08	
For >1,000 To 2,000, Deduct	-226.06	
For >2,000 To 5,000, Deduct	-371.48	
For >5,000, Deduct	-615.87	
33 01 30 72-0303 LF 39mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,079.42	
For Vinlyester Resin, Add	2,009.48	
For Epoxy Resin, Add	236.83	
For Up To >10, Add	2,061.56	
For >10 To 25, Add	1,239.52	
For >25 To 50, Add	887.25	
For >50 To 100, Add	443.62	
For >500 To 1,000, Deduct	-159.19	
For >1,000 To 2,000, Deduct	-241.39	
For >2,000 To 5,000, Deduct	-396.67	
For >5,000, Deduct	-657.63	
33 01 30 72-0304 LF 39mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,275.01	
For Vinlyester Resin, Add	2,137.11	
For Epoxy Resin, Add	251.87	
For Up To >10, Add	2,192.48	
For >10 To 25, Add	1,318.23	
For >25 To 50, Add	943.59	
For >50 To 100, Add	471.79	
For >500 To 1,000, Deduct	-169.30	
For >1,000 To 2,000, Deduct	-256.73	
For >2,000 To 5,000, Deduct	-421.86	
For >5,000, Deduct	-699.40	
33 01 30 72-0305 LF 39mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,470.59	
For Vinlyester Resin, Add	2,264.75	
For Epoxy Resin, Add	266.92	
For Up To >10, Add	2,323.40	
For >10 To 25, Add	1,396.94	
For >25 To 50, Add	999.93	
For >50 To 100, Add	499.97	
For >500 To 1,000, Deduct	-179.41	
For >1,000 To 2,000, Deduct	-272.06	
For >2,000 To 5,000, Deduct	-447.05	
For >5,000, Deduct	-741.17	
33 01 30 72-0306 LF 39mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,666.18	
For Vinlyester Resin, Add	2,392.38	
For Epoxy Resin, Add	281.96	
For Up To >10, Add	2,454.32	
For >10 To 25, Add	1,475.65	
For >25 To 50, Add	1,056.27	
For >50 To 100, Add	528.14	
For >500 To 1,000, Deduct	-189.52	
For >1,000 To 2,000, Deduct	-287.39	
For >2,000 To 5,000, Deduct	-472.25	
For >5,000, Deduct	-782.93	
33 01 30 72-0307 LF 39mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,861.75	
For Vinlyester Resin, Add	2,520.01	
For Epoxy Resin, Add	297.00	
For Up To >10, Add	2,585.20	
For >10 To 25, Add	1,554.33	
For >25 To 50, Add	1,112.60	
For >50 To 100, Add	556.30	
For >500 To 1,000, Deduct	-199.63	
For >1,000 To 2,000, Deduct	-302.72	
For >2,000 To 5,000, Deduct	-497.43	
For >5,000, Deduct	-824.70	

33 01 30 72-0308 40.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0309 LF 40.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,361.80	
For Vinlyester Resin, Add	892.58	
For Epoxy Resin, Add	105.20	
For Up To >10, Add	897.63	
For >10 To 25, Add	535.50	
For >25 To 50, Add	385.06	
For >50 To 100, Add	192.53	
For >500 To 1,000, Deduct	-70.26	
For >1,000 To 2,000, Deduct	-106.47	
For >2,000 To 5,000, Deduct	-174.69	
For >5,000, Deduct	-289.70	
33 01 30 72-0310 LF 40.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,564.01	
For Vinlyester Resin, Add	1,025.12	
For Epoxy Resin, Add	120.82	
For Up To >10, Add	1,030.88	
For >10 To 25, Add	614.99	
For >25 To 50, Add	442.22	
For >50 To 100, Add	221.11	
For >500 To 1,000, Deduct	-80.69	
For >1,000 To 2,000, Deduct	-122.28	
For >2,000 To 5,000, Deduct	-200.62	
For >5,000, Deduct	-332.71	
33 01 30 72-0311 LF 40.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,766.21	
For Vinlyester Resin, Add	1,157.66	
For Epoxy Resin, Add	136.44	
For Up To >10, Add	1,164.13	
For >10 To 25, Add	694.48	
For >25 To 50, Add	499.38	
For >50 To 100, Add	249.69	
For >500 To 1,000, Deduct	-91.12	
For >1,000 To 2,000, Deduct	-138.09	
For >2,000 To 5,000, Deduct	-226.56	
For >5,000, Deduct	-375.72	
33 01 30 72-0312 LF 40.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,968.42	
For Vinlyester Resin, Add	1,290.21	
For Epoxy Resin, Add	152.06	
For Up To >10, Add	1,297.39	
For >10 To 25, Add	773.96	
For >25 To 50, Add	556.54	
For >50 To 100, Add	278.27	
For >500 To 1,000, Deduct	-101.55	
For >1,000 To 2,000, Deduct	-153.90	
For >2,000 To 5,000, Deduct	-252.50	
For >5,000, Deduct	-418.74	
33 01 30 72-0313 LF 40.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,177.58	
For Vinlyester Resin, Add	1,422.75	
For Epoxy Resin, Add	167.68	
For Up To >10, Add	1,451.49	
For >10 To 25, Add	870.83	
For >25 To 50, Add	624.12	
For >50 To 100, Add	312.06	
For >500 To 1,000, Deduct	-112.51	
For >1,000 To 2,000, Deduct	-170.57	
For >2,000 To 5,000, Deduct	-280.17	
For >5,000, Deduct	-464.53	
33 01 30 72-0314 LF 40.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,380.43	
For Vinlyester Resin, Add	1,555.29	
For Epoxy Resin, Add	183.30	
For Up To >10, Add	1,586.69	
For >10 To 25, Add	951.94	
For >25 To 50, Add	682.25	
For >50 To 100, Add	341.13	
For >500 To 1,000, Deduct	-122.99	
For >1,000 To 2,000, Deduct	-186.46	
For >2,000 To 5,000, Deduct	-306.27	
For >5,000, Deduct	-507.80	
33 01 30 72-0315 LF 40.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,583.28	
For Vinlyester Resin, Add	1,687.83	
For Epoxy Resin, Add	198.92	
For Up To >10, Add	1,721.87	
For >10 To 25, Add	1,033.02	
For >25 To 50, Add	740.37	
For >50 To 100, Add	370.19	
For >500 To 1,000, Deduct	-133.47	
For >1,000 To 2,000, Deduct	-202.35	
For >2,000 To 5,000, Deduct	-332.37	
For >5,000, Deduct	-551.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0316 LF 40.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,786.14	
For Vinylster Resin, Add	1,820.38	
For Epoxy Resin, Add	214.54	
For Up To >10, Add	1,857.07	
For >10 To 25, Add	1,114.14	
For >25 To 50, Add	798.51	
For >50 To 100, Add	399.25	
For >500 To 1,000, Deduct	-143.95	
For >1,000 To 2,000, Deduct	-218.24	
For >2,000 To 5,000, Deduct	-358.46	
For >5,000, Deduct	-594.35	
33 01 30 72-0317 LF 40.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,988.97	
For Vinylster Resin, Add	1,952.92	
For Epoxy Resin, Add	230.17	
For Up To >10, Add	1,992.21	
For >10 To 25, Add	1,195.20	
For >25 To 50, Add	856.61	
For >50 To 100, Add	428.31	
For >500 To 1,000, Deduct	-154.43	
For >1,000 To 2,000, Deduct	-234.13	
For >2,000 To 5,000, Deduct	-384.56	
For >5,000, Deduct	-637.61	
33 01 30 72-0318 LF 40.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,191.83	
For Vinylster Resin, Add	2,085.46	
For Epoxy Resin, Add	245.79	
For Up To >10, Add	2,127.42	
For >10 To 25, Add	1,276.31	
For >25 To 50, Add	914.75	
For >50 To 100, Add	457.37	
For >500 To 1,000, Deduct	-164.91	
For >1,000 To 2,000, Deduct	-250.02	
For >2,000 To 5,000, Deduct	-410.66	
For >5,000, Deduct	-680.89	
33 01 30 72-0319 LF 40.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,394.68	
For Vinylster Resin, Add	2,218.01	
For Epoxy Resin, Add	261.41	
For Up To >10, Add	2,262.59	
For >10 To 25, Add	1,357.40	
For >25 To 50, Add	972.87	
For >50 To 100, Add	486.43	
For >500 To 1,000, Deduct	-175.39	
For >1,000 To 2,000, Deduct	-265.91	
For >2,000 To 5,000, Deduct	-436.75	
For >5,000, Deduct	-724.16	
33 01 30 72-0320 LF 40.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,597.53	
For Vinylster Resin, Add	2,350.54	
For Epoxy Resin, Add	277.03	
For Up To >10, Add	2,397.79	
For >10 To 25, Add	1,438.51	
For >25 To 50, Add	1,031.00	
For >50 To 100, Add	515.50	
For >500 To 1,000, Deduct	-185.87	
For >1,000 To 2,000, Deduct	-281.80	
For >2,000 To 5,000, Deduct	-462.85	
For >5,000, Deduct	-767.43	
33 01 30 72-0321 LF 40.5mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,800.38	
For Vinylster Resin, Add	2,483.09	
For Epoxy Resin, Add	292.65	
For Up To >10, Add	2,532.97	
For >10 To 25, Add	1,519.59	
For >25 To 50, Add	1,089.12	
For >50 To 100, Add	544.56	
For >500 To 1,000, Deduct	-196.35	
For >1,000 To 2,000, Deduct	-297.68	
For >2,000 To 5,000, Deduct	-488.95	
For >5,000, Deduct	-810.70	
33 01 30 72-0322 LF 40.5mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,003.24	
For Vinylster Resin, Add	2,615.63	
For Epoxy Resin, Add	308.27	
For Up To >10, Add	2,668.17	
For >10 To 25, Add	1,600.71	
For >25 To 50, Add	1,147.25	
For >50 To 100, Add	573.63	
For >500 To 1,000, Deduct	-206.83	
For >1,000 To 2,000, Deduct	-313.57	
For >2,000 To 5,000, Deduct	-515.05	
For >5,000, Deduct	-853.97	

33 01 30 72-0323 42mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0324 LF 42mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,617.98	
For Vinlyester Resin, Add	1,061.73	
For Epoxy Resin, Add	125.13	
For Up To >10, Add	1,062.04	
For >10 To 25, Add	632.24	
For >25 To 50, Add	455.18	
For >50 To 100, Add	227.59	
For >500 To 1,000, Deduct	-83.43	
For >1,000 To 2,000, Deduct	-126.41	
For >2,000 To 5,000, Deduct	-207.32	
For >5,000, Deduct	-343.84	
33 01 30 72-0325 LF 42mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,827.45	
For Vinlyester Resin, Add	1,199.18	
For Epoxy Resin, Add	141.33	
For Up To >10, Add	1,199.55	
For >10 To 25, Add	714.11	
For >25 To 50, Add	514.12	
For >50 To 100, Add	257.06	
For >500 To 1,000, Deduct	-94.23	
For >1,000 To 2,000, Deduct	-142.78	
For >2,000 To 5,000, Deduct	-234.16	
For >5,000, Deduct	-388.36	
33 01 30 72-0326 LF 42mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,036.94	
For Vinlyester Resin, Add	1,336.64	
For Epoxy Resin, Add	157.53	
For Up To >10, Add	1,337.12	
For >10 To 25, Add	796.02	
For >25 To 50, Add	573.09	
For >50 To 100, Add	286.54	
For >500 To 1,000, Deduct	-105.03	
For >1,000 To 2,000, Deduct	-159.14	
For >2,000 To 5,000, Deduct	-261.00	
For >5,000, Deduct	-432.88	
33 01 30 72-0327 LF 42mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,253.49	
For Vinlyester Resin, Add	1,474.09	
For Epoxy Resin, Add	173.73	
For Up To >10, Add	1,495.87	
For >10 To 25, Add	895.59	
For >25 To 50, Add	642.64	
For >50 To 100, Add	321.32	
For >500 To 1,000, Deduct	-116.37	
For >1,000 To 2,000, Deduct	-176.39	
For >2,000 To 5,000, Deduct	-289.61	
For >5,000, Deduct	-480.23	
33 01 30 72-0328 LF 42mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,463.61	
For Vinlyester Resin, Add	1,611.54	
For Epoxy Resin, Add	189.93	
For Up To >10, Add	1,635.33	
For >10 To 25, Add	979.08	
For >25 To 50, Add	702.56	
For >50 To 100, Add	351.28	
For >500 To 1,000, Deduct	-127.22	
For >1,000 To 2,000, Deduct	-192.84	
For >2,000 To 5,000, Deduct	-316.62	
For >5,000, Deduct	-525.00	
33 01 30 72-0329 LF 42mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,673.73	
For Vinlyester Resin, Add	1,748.99	
For Epoxy Resin, Add	206.13	
For Up To >10, Add	1,774.79	
For >10 To 25, Add	1,062.57	
For >25 To 50, Add	762.47	
For >50 To 100, Add	381.23	
For >500 To 1,000, Deduct	-138.07	
For >1,000 To 2,000, Deduct	-209.29	
For >2,000 To 5,000, Deduct	-343.62	
For >5,000, Deduct	-569.78	
33 01 30 72-0330 LF 42mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,883.85	
For Vinlyester Resin, Add	1,886.44	
For Epoxy Resin, Add	222.33	
For Up To >10, Add	1,914.25	
For >10 To 25, Add	1,146.06	
For >25 To 50, Add	822.38	
For >50 To 100, Add	411.19	
For >500 To 1,000, Deduct	-148.92	
For >1,000 To 2,000, Deduct	-225.74	
For >2,000 To 5,000, Deduct	-370.62	
For >5,000, Deduct	-614.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0331 LF 42mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,093.97	
For Vinylster Resin, Add	2,023.90	
For Epoxy Resin, Add	238.53	
For Up To >10, Add	2,053.71	
For >10 To 25, Add	1,229.55	
For >25 To 50, Add	882.29	
For >50 To 100, Add	441.15	
For >500 To 1,000, Deduct	-159.77	
For >1,000 To 2,000, Deduct	-242.18	
For >2,000 To 5,000, Deduct	-397.63	
For >5,000, Deduct	-659.33	
33 01 30 72-0332 LF 42mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,304.10	
For Vinylster Resin, Add	2,161.35	
For Epoxy Resin, Add	254.73	
For Up To >10, Add	2,193.20	
For >10 To 25, Add	1,313.06	
For >25 To 50, Add	942.22	
For >50 To 100, Add	471.11	
For >500 To 1,000, Deduct	-170.62	
For >1,000 To 2,000, Deduct	-258.63	
For >2,000 To 5,000, Deduct	-424.63	
For >5,000, Deduct	-704.11	
33 01 30 72-0333 LF 42mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,514.22	
For Vinylster Resin, Add	2,298.80	
For Epoxy Resin, Add	270.93	
For Up To >10, Add	2,332.66	
For >10 To 25, Add	1,396.55	
For >25 To 50, Add	1,002.13	
For >50 To 100, Add	501.07	
For >500 To 1,000, Deduct	-181.47	
For >1,000 To 2,000, Deduct	-275.08	
For >2,000 To 5,000, Deduct	-451.64	
For >5,000, Deduct	-748.89	
33 01 30 72-0334 LF 42mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,724.34	
For Vinylster Resin, Add	2,436.25	
For Epoxy Resin, Add	287.13	
For Up To >10, Add	2,472.12	
For >10 To 25, Add	1,480.04	
For >25 To 50, Add	1,062.04	
For >50 To 100, Add	531.02	
For >500 To 1,000, Deduct	-192.32	
For >1,000 To 2,000, Deduct	-291.52	
For >2,000 To 5,000, Deduct	-478.64	
For >5,000, Deduct	-793.66	
33 01 30 72-0335 LF 42mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,934.46	
For Vinylster Resin, Add	2,573.70	
For Epoxy Resin, Add	303.33	
For Up To >10, Add	2,611.58	
For >10 To 25, Add	1,563.53	
For >25 To 50, Add	1,121.95	
For >50 To 100, Add	560.98	
For >500 To 1,000, Deduct	-203.17	
For >1,000 To 2,000, Deduct	-307.97	
For >2,000 To 5,000, Deduct	-505.64	
For >5,000, Deduct	-838.44	
33 01 30 72-0336 LF 42mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,144.58	
For Vinylster Resin, Add	2,711.16	
For Epoxy Resin, Add	319.53	
For Up To >10, Add	2,751.04	
For >10 To 25, Add	1,647.02	
For >25 To 50, Add	1,181.87	
For >50 To 100, Add	590.93	
For >500 To 1,000, Deduct	-214.02	
For >1,000 To 2,000, Deduct	-324.42	
For >2,000 To 5,000, Deduct	-532.64	
For >5,000, Deduct	-883.22	

33 01 30 74 Cured-in-Place Lateral Lining (33 01 30)

33 01 30 74-0001	Laterals; Cutting, Grouting And Reinstatement (33 01 30 74)	
33 01 30 74-0002	Lateral Reinstatement/Reconnection (33 01 30 74-0001)	
33 01 30 74-0003	EA Cut Liner For Laterals, Up To 4" (Robotic).....	526.83
33 01 30 74-0004	EA Cut Liner For Laterals, 6" (Robotic).....	569.54
33 01 30 74-0005	EA Cut Liner For Laterals, 8" (Robotic).....	605.15
33 01 30 74-0006	EA Cut Liner For Laterals, 10" (Robotic).....	640.74
33 01 30 74-0007	EA Cut Liner For Laterals, 12" (Robotic).....	676.34
33 01 30 74-0008	Grout Lateral Service (33 01 30 74-0001)	
33 01 30 74-0009	Grout Lateral Service - Bladder (33 01 30 74-0008)	
33 01 30 74-0010	EA Grout Up To 4" Lateral Service - Bladder.....	560.90
33 01 30 74-0011	EA Grout 6" Lateral Service - Bladder.....	643.56
33 01 30 74-0012	EA Grout 8" Lateral Service - Bladder.....	726.21

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

33 01 30 74-0013	Grout Lateral Service - Robotic Trowel Application <small>(33 01 30 74-0008)</small>		
33 01 30 74-0014	EA Grout 3" To 6" Lateral Service - Robotic Trowel Application.....		610.59
33 01 30 74-0015	EA Grout 8" To 12" Lateral Service - Robotic Trowel Application.....		660.28
33 01 30 74-0016	Lateral T-Liner <small>(33 01 30 74-0001)</small>		
	Note: As manufactured by LMK.		
33 01 30 74-0017	EA Up To 4" Lateral T-Liner.....		744.99
33 01 30 74-0018	EA 6" Lateral T-Liner.....		834.83
33 01 30 74-0019	EA 8" Lateral T-Liner.....		970.17
33 01 30 74-0020	Lining Lateral Pipe <small>(33 01 30 74-0001)</small>		
33 01 30 74-0021	Lining Lateral Pipe <small>(33 01 30 74-0020)</small>		
33 01 30 74-0022	LF 6mm Lining 3" Lateral Pipe With Cured In-Place Pipe (CIPP).....		33.17
	For 7.5mm, Add		3.06
	For 9 mm, Add		6.06
33 01 30 74-0023	LF 6mm Lining 4" Lateral Pipe With Cured In-Place Pipe (CIPP).....		38.82
	For 7.5mm, Add		4.17
	For 9 mm, Add		8.26
33 01 30 74-0024	LF 6mm Lining 6" Lateral Pipe With Cured In-Place Pipe (CIPP).....		49.13
	For 7.5mm, Add		6.39
	For 9 mm, Add		12.64
33 01 30 74-0025	Lining Manhole Drop <small>(33 01 30 74-0020)</small>		
33 01 30 74-0026	EA Manhole Drop Section Lining.....		811.18
33 01 30 79	Fold-and-Form Pipe Lining <small>(33 01 30)</small>		
33 01 30 79-0001	Form and Fold Relining Underground Pipelines <small>(33 01 30 79)</small>		
	Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.		
33 01 30 79-0002	Fold-And-Form Relining Underground Pipelines Set-Up And Reinsertion <small>(33 01 30 79-0001)</small>		
33 01 30 79-0003	EA Initial Set Up And Final Equipment Removal For Fold-And-Form Relining Underground Pipelines.....		5,144.61
33 01 30 79-0004	EA Move And Reset Up At Different Access/Location For Fold-And-Form Relining Underground Pipelines.....		2,057.84
33 01 30 79-0005	Form And Fold Polyethylene (PE) Pipeliner <small>(33 01 30 79-0001)</small>		
33 01 30 79-0006	LF 4" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....		32.72
	For DR 26 Pipe Liner, Add		5.42
	For Up To 75, Add		20.88
	For >75 To 150, Add		10.44
	For >500 To 1,000, Deduct		-0.83
	For >1,000 To 2,000, Deduct		-1.65
	For >2,000, Deduct		-3.31
33 01 30 79-0007	LF 6" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....		41.34
	For DR 26 Pipe Liner, Add		7.37
	For DR 35 Pipe Liner, Deduct		-3.68
	For Up To 75, Add		23.70
	For >75 To 150, Add		11.85
	For >500 To 1,000, Deduct		-0.89
	For >1,000 To 2,000, Deduct		-1.78
	For >2,000, Deduct		-3.56
33 01 30 79-0008	LF 8" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....		42.88
	For DR 26 Pipe Liner, Add		7.51
	For DR 35 Pipe Liner, Deduct		-3.75
	For Up To 75, Add		25.29
	For >75 To 150, Add		12.65
	For >500 To 1,000, Deduct		-0.96
	For >1,000 To 2,000, Deduct		-1.93
	For >2,000, Deduct		-3.86
33 01 30 79-0009	LF 10" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....		59.05
	For DR 26 Pipe Liner, Add		11.26
	For DR 35 Pipe Liner, Deduct		-5.63
	For DR 41 Pipe Liner, Deduct		-11.26
	For Up To 75, Add		30.05
	For >75 To 150, Add		15.02
	For >500 To 1,000, Deduct		-1.05
	For >1,000 To 2,000, Deduct		-2.10
	For >2,000, Deduct		-4.21



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0010 LF 12" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	81.33	
<i>For DR 26 Pipe Liner, Add</i>	16.48	
<i>For DR 35 Pipe Liner, Deduct</i>	-8.24	
<i>For DR 41 Pipe Liner, Deduct</i>	-16.48	
<i>For Up To 75, Add</i>	36.33	
<i>For >75 To 150, Add</i>	18.16	
<i>For >500 To 1,000, Deduct</i>	-1.16	
<i>For >1,000 To 2,000, Deduct</i>	-2.31	
<i>For >2,000, Deduct</i>	-4.63	
33 01 30 79-0011 LF 15" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	110.31	
<i>For DR 35 Pipe Liner, Deduct</i>	-11.60	
<i>For DR 41 Pipe Liner, Deduct</i>	-23.19	
<i>For Up To 75, Add</i>	44.86	
<i>For >75 To 150, Add</i>	22.43	
<i>For >500 To 1,000, Deduct</i>	-1.32	
<i>For >1,000 To 2,000, Deduct</i>	-2.63	
<i>For >2,000, Deduct</i>	-5.26	
33 01 30 79-0012 LF 18" Diameter Form and Fold Polyethylene Pipeliner, DR 35	154.30	
<i>For DR 41 Pipe Liner, Deduct</i>	-13.45	
<i>For DR 50 Pipe Liner, Deduct</i>	-26.90	
<i>For Up To 75, Add</i>	56.57	
<i>For >75 To 150, Add</i>	28.29	
<i>For >500 To 1,000, Deduct</i>	-1.48	
<i>For >1,000 To 2,000, Deduct</i>	-2.97	
<i>For >2,000, Deduct</i>	-5.93	
33 01 30 79-0013 LF 21" Diameter Form and Fold Polyethylene Pipeliner, DR 47	174.24	
<i>For DR 50 Pipe Liner, Deduct</i>	-22.92	
<i>For DR 55 Pipe Liner, Deduct</i>	-38.20	
<i>For Up To 75, Add</i>	62.72	
<i>For >75 To 150, Add</i>	31.36	
<i>For >500 To 1,000, Deduct</i>	-1.61	
<i>For >1,000 To 2,000, Deduct</i>	-3.22	
<i>For >2,000, Deduct</i>	-6.43	
33 01 30 79-0014 LF 24" Diameter Form and Fold Polyethylene Pipeliner, DR 55	211.66	
<i>For DR 60 Pipe Liner, Deduct</i>	-28.24	
<i>For Up To 75, Add</i>	72.73	
<i>For >75 To 150, Add</i>	36.36	
<i>For >500 To 1,000, Deduct</i>	-1.75	
<i>For >1,000 To 2,000, Deduct</i>	-3.51	
<i>For >2,000, Deduct</i>	-7.01	
33 01 30 79-0015 Form And Fold Polyvinyl Chloride (PVC) Pipeliner <small>(33 01 30 79-0001)</small>		
33 01 30 79-0016 LF 4" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	34.77	
<i>For DR 26 Pipe Liner, Add</i>	5.94	
<i>For Up To 75, Add</i>	21.29	
<i>For >75 To 150, Add</i>	10.65	
<i>For >500 To 1,000, Deduct</i>	-0.83	
<i>For >1,000 To 2,000, Deduct</i>	-1.65	
<i>For >2,000, Deduct</i>	-3.31	
33 01 30 79-0017 LF 6" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	41.34	
<i>For DR 26 Pipe Liner, Add</i>	7.37	
<i>For DR 35 Pipe Liner, Deduct</i>	-3.68	
<i>For Up To 75, Add</i>	23.70	
<i>For >75 To 150, Add</i>	11.85	
<i>For >500 To 1,000, Deduct</i>	-0.89	
<i>For >1,000 To 2,000, Deduct</i>	-1.78	
<i>For >2,000, Deduct</i>	-3.56	
33 01 30 79-0018 LF 8" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	45.60	
<i>For DR 26 Pipe Liner, Add</i>	8.19	
<i>For DR 35 Pipe Liner, Deduct</i>	-4.09	
<i>For Up To 75, Add</i>	25.84	
<i>For >75 To 150, Add</i>	12.92	
<i>For >500 To 1,000, Deduct</i>	-0.96	
<i>For >1,000 To 2,000, Deduct</i>	-1.93	
<i>For >2,000, Deduct</i>	-3.86	
33 01 30 79-0019 LF 10" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	63.15	
<i>For DR 26 Pipe Liner, Add</i>	12.28	
<i>For DR 35 Pipe Liner, Deduct</i>	-6.14	
<i>For DR 41 Pipe Liner, Deduct</i>	-12.28	
<i>For Up To 75, Add</i>	30.87	
<i>For >75 To 150, Add</i>	15.43	
<i>For >500 To 1,000, Deduct</i>	-1.05	
<i>For >1,000 To 2,000, Deduct</i>	-2.10	
<i>For >2,000, Deduct</i>	-4.21	
33 01 30 79-0020 LF 12" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	87.47	
<i>For DR 26 Pipe Liner, Add</i>	18.01	
<i>For DR 35 Pipe Liner, Deduct</i>	-9.01	
<i>For DR 41 Pipe Liner, Deduct</i>	-18.01	
<i>For Up To 75, Add</i>	37.55	
<i>For >75 To 150, Add</i>	18.78	
<i>For >500 To 1,000, Deduct</i>	-1.16	
<i>For >1,000 To 2,000, Deduct</i>	-2.31	
<i>For >2,000, Deduct</i>	-4.63	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0021 LF 15" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	119.05	
For DR 35 Pipe Liner, Deduct	-12.69	
For DR 41 Pipe Liner, Deduct	-25.38	
For Up To 75, Add	46.61	
For >75 To 150, Add	23.31	
For >500 To 1,000, Deduct	-1.32	
For >1,000 To 2,000, Deduct	-2.63	
For >2,000, Deduct	-5.26	
33 01 30 79-0022 LF 18" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 35.....	167.13	
For DR 41 Pipe Liner, Deduct	-14.74	
For DR 50 Pipe Liner, Deduct	-29.47	
For Up To 75, Add	59.14	
For >75 To 150, Add	29.57	
For >500 To 1,000, Deduct	-1.48	
For >1,000 To 2,000, Deduct	-2.97	
For >2,000, Deduct	-5.93	
33 01 30 79-0023 LF 21" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 47.....	188.43	
For DR 50 Pipe Liner, Deduct	-25.05	
For DR 55 Pipe Liner, Deduct	-41.75	
For Up To 75, Add	65.56	
For >75 To 150, Add	32.78	
For >500 To 1,000, Deduct	-1.61	
For >1,000 To 2,000, Deduct	-3.22	
For >2,000, Deduct	-6.43	
33 01 30 79-0024 LF 24" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 55.....	229.67	
For DR 60 Pipe Liner, Deduct	-30.94	
For Up To 75, Add	76.33	
For >75 To 150, Add	38.16	
For >500 To 1,000, Deduct	-1.75	
For >1,000 To 2,000, Deduct	-3.51	
For >2,000, Deduct	-7.01	
33 01 30 81 Manhole Rehabilitation (33 01 30)		
33 01 30 81-0001 Restoration And Rehabilitation Of Manholes (33 01 30 81)		
Note: Work is in confined spaces.		
33 01 30 81-0002 Inspection And Ventilation System Set-up (33 01 30 81-0001)		
33 01 30 81-0003 EA Inspect Manhole.....	172.48	
33 01 30 81-0004 EA 36" to 60" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System.....	13,717.82	
Note: For internal inspection and repair of water mains.		
33 01 30 81-0005 EA Installation And Maintenance Of Ventilation System, 60" to 108" diameter to 2,600'.....	19,450.56	
Note: For internal inspection and repair of water mains		
33 01 30 81-0006 Manhole Seals (33 01 30 81-0001)		
33 01 30 81-0007 Internal Manhole Chimney Seals (33 01 30 81-0006)		
Note: Cretex.		
33 01 30 81-0008 EA 20" Internal Manhole Chimney Seal.....	532.54	
33 01 30 81-0009 EA 22" Internal Manhole Chimney Seal.....	561.32	
33 01 30 81-0010 EA 24" Internal Manhole Chimney Seal.....	575.71	
33 01 30 81-0011 EA 26" Internal Manhole Chimney Seal.....	662.07	
33 01 30 81-0012 EA 28" Internal Manhole Chimney Seal.....	748.43	
33 01 30 81-0013 EA 30" Internal Manhole Chimney Seal.....	834.78	
33 01 30 81-0014 EA 36" Internal Manhole Chimney Seal.....	1,007.50	
33 01 30 81-0015 External Manhole Encapsulation (33 01 30 81-0006)		
Note: Wrapidseal.		
33 01 30 81-0016 EA 24" External Manhole Encapsulation.....	777.21	
33 01 30 81-0017 EA 30" External Manhole Encapsulation.....	820.39	
33 01 30 81-0018 EA 36" External Manhole Encapsulation.....	877.97	
33 01 30 81-0019 EA 42" External Manhole Encapsulation.....	949.93	
33 01 30 81-0020 EA 48" External Manhole Encapsulation.....	1,050.68	
33 01 30 81-0021 EA 54" External Manhole Encapsulation.....	1,165.82	
33 01 30 81-0022 EA 60" External Manhole Encapsulation.....	1,309.75	
33 01 30 81-0023 Manhole Crack Repair (33 01 30 81-0001)		
Note: Includes removing loose materials and cleaning.		
33 01 30 81-0024 LF Up To 1/4" Wide, Epoxy Grout Injection, Manhole Crack Repair.....	51.60	
33 01 30 81-0025 LF >1/4" To 1/2" Wide, Epoxy Grout Injection, Manhole Crack Repair.....	69.53	
33 01 30 81-0026 LF Up To 1/4" Wide, Urethane Grout Injection, Manhole Crack Repair.....	48.61	
33 01 30 81-0027 LF >1/4" To 1/2" Wide, Urethane Grout Injection, Manhole Crack Repair.....	65.96	
33 01 30 81-0028 Manhole Patching (33 01 30 81-0001)		
Note: Includes removing loose materials and cleaning.		
33 01 30 81-0029 SF Up To 1/4" Thick, Cementitious Grout, Manhole Patching.....	16.48	
33 01 30 81-0030 SF Up To 1/4" Thick, Epoxy Grout, Manhole Patching.....	38.60	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 81-0031 Manhole Joint Restoration <small>(33 01 30 81-0001)</small>						
Note: Includes drilling holes at joints, fill joints with grout.						
	33 01 30 81-0032	EA		3' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	2,237.64	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.						
For Grouting Each Additional Manhole Joint Section, Add 224.36						
	33 01 30 81-0033	EA		3-1/2' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	2,612.16	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.						
For Grouting Each Additional Manhole Joint Section, Add 249.25						
	33 01 30 81-0034	EA		4' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	2,983.51	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.						
For Grouting Each Additional Manhole Joint Section, Add 274.14						
	33 01 30 81-0035	EA		5' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	3,544.27	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.						
For Grouting Each Additional Manhole Joint Section, Add 286.59						
	33 01 30 81-0036	EA		6' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	4,103.46	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.						
For Grouting Each Additional Manhole Joint Section, Add 299.03						
33 01 30 81-0037 Step Installation In Existing Manholes <small>(33 01 30 81-0001)</small>						
Note: Including drilling in existing concrete manhole, step and grout. Demolition cost includes removal of old step and patching holes.						
	33 01 30 81-0038	EA		Drill And Grout 7" x 9" Cast Iron Manhole Steps.....	142.59	20.32
	33 01 30 81-0039	EA		Drill And Grout 8" x 9" Cast Iron Manhole Steps.....	156.10	20.32
	33 01 30 81-0040	EA		Drill And Grout Galvanized Steel Manhole Step.....	112.11	20.32
	33 01 30 81-0041	EA		Bolt On Galvanized Steel Manhole Step.....	127.37	20.32
	33 01 30 81-0042	EA		Drill And Grout Aluminum Manhole Step.....	116.33	20.32
	33 01 30 81-0043	EA		Drill And Insert Polypropylene Manhole Step.....	64.01	16.26
33 01 30 81-0044 Invert Restoration <small>(33 01 30 81-0001)</small>						
Note: Includes removal of existing defective material and installation of new material.						
33 01 30 81-0045 Concrete Invert Restoration <small>(33 01 30 81-0044)</small>						
	33 01 30 81-0046	EA		2' Diameter, Concrete Invert Restoration.....	345.89	
	33 01 30 81-0047	EA		3' Diameter, Concrete Invert Restoration.....	389.01	
	33 01 30 81-0048	EA		4' Diameter, Concrete Invert Restoration.....	432.13	
	33 01 30 81-0049	EA		5' Diameter, Concrete Invert Restoration.....	475.25	
	33 01 30 81-0050	EA		6' Diameter, Concrete Invert Restoration.....	604.61	
	33 01 30 81-0051	SF		Square Or Rectangular, Concrete Invert Restoration.....	34.36	
33 01 30 81-0052 Brick Invert Restoration <small>(33 01 30 81-0044)</small>						
	33 01 30 81-0053	EA		2' Diameter, Brick Invert Restoration.....	548.07	
	33 01 30 81-0054	EA		3' Diameter, Brick Invert Restoration.....	591.19	
	33 01 30 81-0055	EA		4' Diameter, Brick Invert Restoration.....	634.31	
	33 01 30 81-0056	EA		5' Diameter, Brick Invert Restoration.....	677.43	
	33 01 30 81-0057	EA		6' Diameter, Brick Invert Restoration.....	720.54	
	33 01 30 81-0058	SF		Square Or Rectangular, Brick Invert Restoration.....	48.10	
33 01 30 81-0059 Repair In-Kind Of Drainage Structures <small>(33 01 30 81)</small>						
Note: For brick, concrete or concrete block catch basins, inlets, manholes, and other drainage structures. Includes replacing bricks or concrete blocks, concrete repair, sealing and repairing joints, excavation, backfilling, pavement removal, restoration of pavement and all tasks to perform interior and/or exterior repair in-kind. Sizes are inside dimensions. For other sizes, use closest size.						
	33 01 30 81-0060	VLF		2' Diameter, Repair In-Kind Drainage Structure.....	767.70	
	33 01 30 81-0061	VLF		3' Diameter, Repair In-Kind Drainage Structure.....	1,151.56	
	33 01 30 81-0062	VLF		4' Diameter, Repair In-Kind Drainage Structure.....	1,535.52	
	33 01 30 81-0063	VLF		5' Diameter, Repair In-Kind Drainage Structure.....	1,919.27	
	33 01 30 81-0064	VLF		6' Diameter, Repair In-Kind Drainage Structure.....	2,303.13	
	33 01 30 81-0065	VLF		2' x 2', Repair In-Kind Drainage Structure.....	977.97	
	33 01 30 81-0066	VLF		2' x 3', Repair In-Kind Drainage Structure.....	1,222.47	
	33 01 30 81-0067	VLF		2' x 4', Repair In-Kind Drainage Structure.....	1,466.96	
	33 01 30 81-0068	VLF		3' x 4', Repair In-Kind Drainage Structure.....	1,711.45	
	33 01 30 81-0069	VLF		4' x 4', Repair In-Kind Drainage Structure.....	1,955.95	
	33 01 30 81-0070	VLF		4' x 5', Repair In-Kind Drainage Structure.....	2,200.44	
	33 01 30 81-0071	VLF		4' x 6', Repair In-Kind Drainage Structure.....	2,444.93	
	33 01 30 81-0072	VLF		4' x 8', Repair In-Kind Drainage Structure.....	2,933.92	
	33 01 30 81-0073	VLF		>32 GSF, Repair In-Kind Drainage Structure.....	3,422.90	
33 01 30 82 Epoxy Lining for Concrete Manholes <small>(33 01 30)</small>						
	33 01 30 82-0001			Epoxy Manhole Restoration, Interior <small>(33 01 30 82)</small>		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 82-0002 VLF 60 Mil Epoxy Restoration Of 3' Diameter Manhole Interior	336.90	
For 80 Mil Material, Add	39.96	
For 100 Mil Material, Add	79.91	
For 125 Mil Material, Add	124.61	
For 150 Mil Material, Add	169.30	
For 200 Mil Material, Add	244.69	
For 2 To 5 Manholes, Deduct	-23.85	
For 6 To 10 Manholes, Deduct	-39.27	
For >10 Manholes, Deduct	-78.54	
33 01 30 82-0003 VLF 60 Mil Epoxy Restoration Of 3-1/2' Diameter Manhole Interior	408.66	
For 80 Mil Material, Add	47.80	
For 100 Mil Material, Add	95.60	
For 125 Mil Material, Add	148.93	
For 150 Mil Material, Add	202.27	
For 200 Mil Material, Add	291.82	
For 2 To 5 Manholes, Deduct	-28.99	
For 6 To 10 Manholes, Deduct	-47.76	
For >10 Manholes, Deduct	-95.53	
33 01 30 82-0004 VLF 60 Mil Epoxy Restoration Of 4' Diameter Manhole Interior	449.20	
For 80 Mil Material, Add	53.27	
For 100 Mil Material, Add	106.55	
For 125 Mil Material, Add	166.14	
For 150 Mil Material, Add	225.73	
For 200 Mil Material, Add	326.25	
For 2 To 5 Manholes, Deduct	-31.79	
For 6 To 10 Manholes, Deduct	-52.36	
For >10 Manholes, Deduct	-104.72	
33 01 30 82-0005 VLF 60 Mil Epoxy Restoration Of 5' Diameter Manhole Interior	561.55	
For 80 Mil Material, Add	66.61	
For 100 Mil Material, Add	133.22	
For 125 Mil Material, Add	207.74	
For 150 Mil Material, Add	282.25	
For 200 Mil Material, Add	407.94	
For 2 To 5 Manholes, Deduct	-39.75	
For 6 To 10 Manholes, Deduct	-65.45	
For >10 Manholes, Deduct	-130.91	
33 01 30 82-0006 VLF 60 Mil Epoxy Restoration Of 6' Diameter Manhole Interior	673.85	
For 80 Mil Material, Add	79.93	
For 100 Mil Material, Add	159.86	
For 125 Mil Material, Add	249.27	
For 150 Mil Material, Add	338.68	
For 200 Mil Material, Add	489.49	
For 2 To 5 Manholes, Deduct	-47.69	
For 6 To 10 Manholes, Deduct	-78.54	
For >10 Manholes, Deduct	-157.09	
33 01 30 83 Lining for Concrete Manholes (33 01 30)		
33 01 30 83-0001 Manhole Lining (33 01 30 83)		
Note: Includes power washing and cleaning of manhole interiors.		
33 01 30 83-0002 Cementitious Manhole Restoration, Interior (33 01 30 83-0001)		
33 01 30 83-0003 VLF 1/2" Cementitious Restoration On 3' Diameter Manhole Interior	144.75	
For Each Additional 1/2" Thick Material, Add	35.69	
For 2 To 5 Manholes, Deduct	-10.19	
For 6 To 10 Manholes, Deduct	-16.77	
For >10 Manholes, Deduct	-33.54	
33 01 30 83-0004 VLF 1/2" Cementitious Restoration On 3-1/2' Diameter Manhole Interior	167.85	
For Each Additional 1/2" Thick Material, Add	41.54	
For 2 To 5 Manholes, Deduct	-11.82	
For 6 To 10 Manholes, Deduct	-19.43	
For >10 Manholes, Deduct	-38.87	
33 01 30 83-0005 VLF 1/2" Cementitious Restoration On 4' Diameter Manhole Interior	190.93	
For Each Additional 1/2" Thick Material, Add	47.38	
For 2 To 5 Manholes, Deduct	-13.44	
For 6 To 10 Manholes, Deduct	-22.10	
For >10 Manholes, Deduct	-44.20	
33 01 30 83-0006 VLF 1/2" Cementitious Restoration On 5' Diameter Manhole Interior	224.89	
For Each Additional 1/2" Thick Material, Add	58.03	
For 2 To 5 Manholes, Deduct	-15.76	
For 6 To 10 Manholes, Deduct	-25.89	
For >10 Manholes, Deduct	-51.78	
33 01 30 83-0007 VLF 1/2" Cementitious Restoration On 6' Diameter Manhole Interior	245.96	
For Each Additional 1/2" Thick Material, Add	67.04	
For 2 To 5 Manholes, Deduct	-17.12	
For 6 To 10 Manholes, Deduct	-28.09	
For >10 Manholes, Deduct	-56.19	
33 01 30 83-0008 Polyurethane Manhole Restoration, Interior (33 01 30 83-0001)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 83-0009 VLF 60 Mil Polyurethane Restoration Of 3' Diameter Manhole Interior.....	299.91	
<i>For 80 Mil Material, Add</i>	27.63	
<i>For 100 Mil Material, Add</i>	55.25	
<i>For 125 Mil Material, Add</i>	84.53	
<i>For 150 Mil Material, Add</i>	113.82	
<i>For 200 Mil Material, Add</i>	158.38	
<i>For 2 To 5 Manholes, Deduct</i>	-22.00	
<i>For 6 To 10 Manholes, Deduct</i>	-36.50	
<i>For >10 Manholes, Deduct</i>	-72.99	
33 01 30 83-0010 VLF 60 Mil Polyurethane Restoration Of 3-1/2' Diameter Manhole Interior.....	365.45	
<i>For 80 Mil Material, Add</i>	33.40	
<i>For 100 Mil Material, Add</i>	66.79	
<i>For 125 Mil Material, Add</i>	102.12	
<i>For 150 Mil Material, Add</i>	137.45	
<i>For 200 Mil Material, Add</i>	190.99	
<i>For 2 To 5 Manholes, Deduct</i>	-26.83	
<i>For 6 To 10 Manholes, Deduct</i>	-44.52	
<i>For >10 Manholes, Deduct</i>	-89.04	
33 01 30 83-0011 VLF 60 Mil Polyurethane Restoration Of 4' Diameter Manhole Interior.....	399.89	
<i>For 80 Mil Material, Add</i>	36.84	
<i>For 100 Mil Material, Add</i>	73.67	
<i>For 125 Mil Material, Add</i>	112.72	
<i>For 150 Mil Material, Add</i>	151.77	
<i>For 200 Mil Material, Add</i>	211.19	
<i>For 2 To 5 Manholes, Deduct</i>	-29.33	
<i>For 6 To 10 Manholes, Deduct</i>	-48.66	
<i>For >10 Manholes, Deduct</i>	-97.32	
33 01 30 83-0012 VLF 60 Mil Polyurethane Restoration Of 5' Diameter Manhole Interior.....	499.85	
<i>For 80 Mil Material, Add</i>	46.04	
<i>For 100 Mil Material, Add</i>	92.09	
<i>For 125 Mil Material, Add</i>	140.89	
<i>For 150 Mil Material, Add</i>	189.70	
<i>For 200 Mil Material, Add</i>	263.97	
<i>For 2 To 5 Manholes, Deduct</i>	-36.66	
<i>For 6 To 10 Manholes, Deduct</i>	-60.83	
<i>For >10 Manholes, Deduct</i>	-121.65	
33 01 30 83-0013 VLF 60 Mil Polyurethane Restoration Of 6' Diameter Manhole Interior.....	599.82	
<i>For 80 Mil Material, Add</i>	55.25	
<i>For 100 Mil Material, Add</i>	110.51	
<i>For 125 Mil Material, Add</i>	169.07	
<i>For 150 Mil Material, Add</i>	227.63	
<i>For 200 Mil Material, Add</i>	316.76	
<i>For 2 To 5 Manholes, Deduct</i>	-43.99	
<i>For 6 To 10 Manholes, Deduct</i>	-72.99	
<i>For >10 Manholes, Deduct</i>	-145.98	
33 01 30 83-0014 Multiplexx™ PVCP Cured-In-Place (CIP) Lining Manhole Restoration, Interior <small>(33 01 30 83-0001)</small>		
33 01 30 83-0015 VLF 3' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....	530.07	
<i>For 2 To 5 Manholes, Deduct</i>	-30.84	
<i>For 6 To 10 Manholes, Deduct</i>	-48.44	
<i>For >10 Manholes, Deduct</i>	-96.87	
33 01 30 83-0016 VLF 3-1/2' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....	649.14	
<i>For 2 To 5 Manholes, Deduct</i>	-37.76	
<i>For 6 To 10 Manholes, Deduct</i>	-59.30	
<i>For >10 Manholes, Deduct</i>	-118.59	
33 01 30 83-0017 VLF 4' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....	764.71	
<i>For 2 To 5 Manholes, Deduct</i>	-44.02	
<i>For 6 To 10 Manholes, Deduct</i>	-68.93	
<i>For >10 Manholes, Deduct</i>	-137.86	
33 01 30 83-0018 VLF 5' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....	958.98	
<i>For 2 To 5 Manholes, Deduct</i>	-55.18	
<i>For 6 To 10 Manholes, Deduct</i>	-86.39	
<i>For >10 Manholes, Deduct</i>	-172.79	
33 01 30 83-0019 VLF 6' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....	1,153.26	
<i>For 2 To 5 Manholes, Deduct</i>	-66.34	
<i>For 6 To 10 Manholes, Deduct</i>	-103.86	
<i>For >10 Manholes, Deduct</i>	-207.72	
33 01 30 86 Manhole Rim Adjustment <small>(33 01 30)</small>		
33 01 30 86-0001 Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers <small>(33 01 30 86)</small>		
33 01 30 86-0002 Up To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers <small>(33 01 30 86-0001)</small>		
33 01 30 86-0003 EA Up To 2" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	337.36	
33 01 30 86-0004 EA >2" To 3" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	378.99	
33 01 30 86-0005 EA >3" To 4" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	416.92	
33 01 30 86-0006 EA >4" To 5" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	459.85	
33 01 30 86-0007 EA >5" To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	494.90	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 30 86-0008		Up To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser <small>(33 01 30 86-0001)</small>	
33 01 30 86-0009	EA	Up To 2" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	395.17
33 01 30 86-0010	EA	>2 To 3" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	430.55
33 01 30 86-0011	EA	>3" To 4" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	474.93
33 01 30 86-0012	EA	>4" To 5" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	517.86
33 01 30 86-0013	EA	>5" To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	559.33
33 01 30 86-0014		Up To 6" Rise, >32-1/2" To 36" Diameter, Adjustable Or Solid Manhole Risers <small>(33 01 30 86-0001)</small>	
33 01 30 86-0015	EA	Up To 4" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers.....	454.33
33 01 30 86-0016	EA	>4" To 5" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers.....	480.06
33 01 30 86-0017	EA	>5" To 6" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers.....	507.78
33 01 30 86-0018		>6" To 12" Rise, >32-1/2" To 36" Diameter, Solid, Cast Iron, Manhole Cover Risers <small>(33 01 30 86-0001)</small>	
33 01 30 86-0019	EA	>6" To 6-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	552.40
33 01 30 86-0020	EA	7" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	600.53
33 01 30 86-0021	EA	7-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	649.48
33 01 30 86-0022	EA	8" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	688.68
33 01 30 86-0023	EA	9" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	748.07
33 01 30 86-0024	EA	10" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	802.20
33 01 30 86-0025	EA	11" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	855.31
33 01 30 86-0026	EA	12" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	909.60
33 01 30 86-0027		>12" Rise, Solid Manhole Risers <small>(33 01 30 86)</small>	
33 01 30 86-0028		Precast Concrete Manhole Riser <small>(33 01 30 86-0027)</small>	
33 01 30 86-0029	VLF	Up To 26" Diameter Precast Concrete Manhole Riser.....	106.41
33 01 30 86-0030	VLF	>26" To 36" Diameter Precast Concrete Manhole Riser.....	127.09
33 01 30 86-0031	VLF	>36" To 48" Diameter Precast Concrete Manhole Riser.....	176.19
33 01 30 86-0032	VLF	>48" To 60" Diameter Precast Concrete Manhole Riser.....	361.50
33 01 30 86-0033	VLF	>60" To 72" Diameter Precast Concrete Manhole Riser.....	529.15
33 01 30 89		By-Pass Piping and Pumping of Sewer Utilities <small>(33 01 30)</small>	
33 01 30 89-0001		Set-Up By-Pass Pumping Unit <small>(33 01 30 89)</small>	
		Note: Excludes pump and hose rental. See CSI section 01 22 23 00-1019 for pump rental, 01 22 23 00-1052 for suction hose, 01 22 23 00-1071 for discharge hose.	
33 01 30 89-0002	EA	Set-up By-Pass Pumping Unit.....	1,858.51
33 01 30 89-0003	EA	Re-Set Up/Move By-Pass Pumping Unit.....	929.26
33 01 30 89-0004		By-Pass Pumping <small>(33 01 30 89)</small>	
		Note: Excludes pump rental. See CSI section 01 22 23 00-1019 for pump rental.	
33 01 30 89-0005	DAY	Maintain And Operate By-Pass Pumping Unit.....	464.63
33 01 30 89-0006	WK	Maintain And Operate By-Pass Pumping Unit.....	2,323.14
33 01 30 89-0007	MO	Maintain And Operate By-Pass Pumping Unit.....	9,757.21
33 01 30 89-0008		Temporary Bypass And Service Lines <small>(33 01 30 89)</small>	
		Note: Laid on ground, includes fittings and connections. Remove after use.	
33 01 30 89-0009		Temporary Water Service Lines <small>(33 01 30 89-0008)</small>	
		Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.	
33 01 30 89-0010	LF	1/2" Temporary Service Hose With Fittings..... Note: Includes removal after use.	2.77
33 01 30 89-0011	LF	3/4" Temporary Service Hose With Fittings..... Note: Includes removal after use.	3.51
33 01 30 89-0012	LF	1" Temporary Service Hose With Fittings..... Note: Includes removal after use.	4.07
33 01 30 89-0013	LF	1-1/2" Temporary Service Hose With Fittings..... Note: Includes removal after use.	4.85
33 01 30 89-0014	LF	2" Temporary Service Hose With Fittings..... Note: Includes removal after use.	5.95
33 01 30 89-0015	EA	Temporary Service Valve Assembly At Fire Hydrant..... Note: Includes removal after use.	307.42
33 01 30 89-0016		Temporary Bypass Water Main Lines <small>(33 01 30 89-0008)</small>	
		Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.	
33 01 30 89-0017	LF	2" Temporary Bypass Pipe With Fittings..... Note: Includes removal after use.	6.39
		For >500 To 1,000, Deduct	-0.43
		For >1,000 To 5,000, Deduct	-0.85
		For >5,000, Deduct	-1.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 89-0018 LF 4" Temporary Bypass Pipe With Fittings.....	7.96	
Note: Includes removal after use.		
For >500 To 1,000, Deduct	-0.55	
For >1,000 To 5,000, Deduct	-1.10	
For >5,000, Deduct	-1.83	
33 01 30 89-0019 LF 6" Temporary Bypass Pipe With Fittings.....	9.84	
Note: Includes removal after use.		
For >500 To 1,000, Deduct	-0.64	
For >1,000 To 5,000, Deduct	-1.28	
For >5,000, Deduct	-2.13	
33 01 30 89-0020 LF 8" Temporary Bypass Pipe With Fittings.....	12.50	
Note: Includes removal after use.		
For >500 To 1,000, Deduct	-0.77	
For >1,000 To 5,000, Deduct	-1.54	
For >5,000, Deduct	-2.56	
33 01 30 89-0021 Piping Protection For Temporary Water Line <small>(33 01 30 89-0008)</small>		
33 01 30 89-0022 LF Cold Mix For Temporary Pipe.....	3.01	
Note: Install along each side of pipe edge. Unit of measure "LF" is for length of pipe and includes both sides of pipe.		
33 01 30 89-0023 Drill Meter Cover For Temporary Water Line <small>(33 01 30 89-0008)</small>		
33 01 30 89-0024 EA Drill Meter Cover For Temporary Bypass Pipe.....	15.73	
 33 01 34 Operation and Maintenance of Onsite Wastewater Disposal Systems <small>(33 01)</small>		
33 01 34 13 Septic Tank Solids Removal <small>(33 01 34)</small>		
33 01 34 13-0001 Pump Out Septic Tanks <small>(33 01 34 13)</small>		
33 01 34 13-0002 GAL Pump Out Septic Tank And Dispose	0.69	
 33 01 40 Operation and Maintenance of Stormwater Utilities <small>(33 01)</small>		
33 01 40 00-0001 Solid Wall High Density Polyethylene (HDPE) Culvert Slip-Lining System <small>(33 01)</small>		
Note: Snap-Tite slip-lining system. Excludes culvert cleaning and grouting. See CSI section 33 01 30 41-0018 for culvert cleaning, 33 01 40 00-0046 for flowable fill grout.		
33 01 40 00-0002 LF 6.625" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	22.24	
For Profile Wall (Corrugated), Deduct	-3.48	
33 01 40 00-0003 LF 8.625" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	33.30	
For Profile Wall (Corrugated), Deduct	-5.44	
33 01 40 00-0004 LF 10.75" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	31.24	
For Profile Wall (Corrugated), Deduct	-4.83	
33 01 40 00-0005 LF 12.75" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	41.24	
For Profile Wall (Corrugated), Deduct	-6.53	
33 01 40 00-0006 LF 14" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	47.18	
For Profile Wall (Corrugated), Deduct	-7.31	
33 01 40 00-0007 LF 16" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	56.86	
For Profile Wall (Corrugated), Deduct	-9.10	
33 01 40 00-0008 LF 18" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	71.46	
For Profile Wall (Corrugated), Deduct	-11.46	
33 01 40 00-0009 LF 20" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	87.67	
For Profile Wall (Corrugated), Deduct	-14.29	
33 01 40 00-0010 LF 22" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	101.12	
For Profile Wall (Corrugated), Deduct	-16.58	
33 01 40 00-0011 LF 24" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	115.71	
For Profile Wall (Corrugated), Deduct	-19.09	
33 01 40 00-0012 LF 26" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	132.06	
For Profile Wall (Corrugated), Deduct	-21.95	
33 01 40 00-0013 LF 28" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	148.97	
For Profile Wall (Corrugated), Deduct	-24.93	
33 01 40 00-0014 LF 30" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	172.52	
For Profile Wall (Corrugated), Deduct	-29.23	
33 01 40 00-0015 LF 32" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	197.22	
For Profile Wall (Corrugated), Deduct	-33.77	
33 01 40 00-0016 LF 34" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	217.98	
For Profile Wall (Corrugated), Deduct	-37.52	
33 01 40 00-0017 LF 36" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	238.73	
For Profile Wall (Corrugated), Deduct	-41.26	
33 01 40 00-0018 LF 39.37" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	272.86	
For Profile Wall (Corrugated), Deduct	-47.68	
33 01 40 00-0019 LF 42" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	306.97	
For Profile Wall (Corrugated), Deduct	-54.10	
33 01 40 00-0020 LF 48" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	394.82	
For Profile Wall (Corrugated), Deduct	-71.26	
33 01 40 00-0021 LF 54" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	481.53	
For Profile Wall (Corrugated), Deduct	-88.20	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 40 Operation and Maintenance of Stormwater Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 40 00-0022 LF 57" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	533.45	
For Profile Wall (Corrugated), Deduct	-98.18	
33 01 40 00-0023 LF 60" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	584.90	
For Profile Wall (Corrugated), Deduct	-108.06	
33 01 40 00-0024 LF 63" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	637.33	
For Profile Wall (Corrugated), Deduct	-118.14	
33 01 40 00-0025 LF 66" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	715.52	
For Profile Wall (Corrugated), Deduct	-133.17	
33 01 40 00-0026 LF 72" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	759.78	
For Profile Wall (Corrugated), Deduct	-141.21	
33 01 40 00-0027 LF 78" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	807.88	
For Profile Wall (Corrugated), Deduct	-149.82	
33 01 40 00-0028 LF 84" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	876.85	
For Profile Wall (Corrugated), Deduct	-162.80	
33 01 40 00-0029 LF 90" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	897.56	
For Profile Wall (Corrugated), Deduct	-166.13	
33 01 40 00-0030 LF 96" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner DR 32.5	909.85	
For Profile Wall (Corrugated), Deduct	-167.58	
33 01 40 00-0031 LF 16.5 x 23" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	116.76	
For Profile Wall (Corrugated), Deduct	-19.26	
33 01 40 00-0032 LF 17" x 26" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	130.88	
For Profile Wall (Corrugated), Deduct	-21.32	
33 01 40 00-0033 LF 18" x 29" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	144.35	
33 01 40 00-0034 LF 19" x 32" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	166.62	
For Profile Wall (Corrugated), Deduct	-27.39	
33 01 40 00-0035 LF 21" x 33.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	182.78	
For Profile Wall (Corrugated), Deduct	-30.09	
33 01 40 00-0036 LF 22.5 x 36" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	204.95	
For Profile Wall (Corrugated), Deduct	-33.98	
33 01 40 00-0037 LF 26" x 37" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	228.31	
For Profile Wall (Corrugated), Deduct	-38.11	
33 01 40 00-0038 LF 30" x 41" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	273.46	
For Profile Wall (Corrugated), Deduct	-46.07	
33 01 40 00-0039 LF 31" x 46" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	307.17	
33 01 40 00-0040 LF 34" x 48.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	339.94	
For Profile Wall (Corrugated), Deduct	-58.28	
33 01 40 00-0041 LF 39" x 55.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	420.27	
For Profile Wall (Corrugated), Deduct	-73.81	
33 01 40 00-0042 LF 43" x 63" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	504.11	
For Profile Wall (Corrugated), Deduct	-90.04	
33 01 40 00-0043 LF 48" x 75" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	644.10	
For Profile Wall (Corrugated), Deduct	-118.04	
33 01 40 00-0044 LF 52" x 72.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	652.19	
For Profile Wall (Corrugated), Deduct	-118.04	
33 01 40 00-0045 LF 58" x 67.5" Outside Diameter High Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	652.19	
For Profile Wall (Corrugated), Deduct	-118.04	
33 01 40 00-0046 Pumped Grouting For Slip-Lining Systems ^(33 01 40)		
Note: Includes all materials, embedded piping, forms, labor and pumping equipment necessary to place and install grout.		
33 01 40 00-0047 CY Flowable Fill Grout, For Pipe Relines.....	561.03	

33 05 Common Work Results for Utilities ⁽³³⁾**33 05 07 Trenchless Installation of Utility Piping ^(33 05)****33 05 07 13 Utility Directional Drilling ^(33 05 07)****33 05 07 13-0001 Horizontal Augering ^(33 05 07 13)**

Note: Excludes starting or receiving pits, dewatering, cost of casing pipe or spoils removal.

33 05 07 13-0002 LF Up To 2" Diameter Horizontal Hand Augering	23.57
33 05 07 13-0003 LF 3" Diameter Horizontal Hand Augering	28.45
33 05 07 13-0004 LF 4" Diameter Horizontal Hand Augering	39.02
33 05 07 13-0005 LF 6" Diameter Horizontal Hand Augering	50.40
33 05 07 13-0006 LF 8" Diameter Horizontal Augering.....	93.88
33 05 07 13-0007 LF 10" Diameter Horizontal Augering.....	136.95
33 05 07 13-0008 LF 12" Diameter Horizontal Augering.....	164.56
33 05 07 13-0009 LF 16" Diameter Horizontal Augering.....	196.59
33 05 07 13-0010 LF 20" Diameter Horizontal Augering.....	340.17
33 05 07 13-0011 LF 24" Diameter Horizontal Augering.....	430.92
33 05 07 13-0012 LF 30" Diameter Horizontal Augering.....	531.51
33 05 07 13-0013 LF 36" Diameter Horizontal Augering.....	607.26
33 05 07 13-0014 LF 42" Diameter Horizontal Augering.....	801.92
33 05 07 13-0015 LF 48" Diameter Horizontal Augering.....	864.09
33 05 07 13-0016 LF 54" Diameter Horizontal Augering.....	939.74



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 13-0017 LF 60" Diameter Horizontal Augering.....	985.21	
33 05 07 13-0018 EA 8" To 20" Horizontal Augering Minimum Set-up Charge.....	3,976.04	
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0019 EA >20" To 36" Horizontal Augering Minimum Set-up Charge.....	5,464.13	
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0020 EA >36" Horizontal Augering Minimum Set-up Charge.....	8,186.43	
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0021 Horizontal Directional Boring <small>(33 05 07 13)</small>		
Note: Excludes receiving pits or dewatering or cost of casing pipe.		
33 05 07 13-0022 LF Up To 1-1/2" Diameter Directional Boring For Horizontal Pipe, Underground	12.99	
For Horizontal Boring Through Rock, Add		9.09
33 05 07 13-0023 LF 2" Diameter Directional Boring For Horizontal Pipe, Underground	19.48	
For Horizontal Boring Through Rock, Add		13.64
33 05 07 13-0024 LF 2-1/2" Diameter Directional Boring For Horizontal Pipe, Underground	27.06	
For Horizontal Boring Through Rock, Add		18.94
33 05 07 13-0025 LF 3" Diameter Directional Boring For Horizontal Pipe, Underground	33.55	
For Horizontal Boring Through Rock, Add		23.49
33 05 07 13-0026 LF 4" Diameter Directional Boring For Horizontal Pipe, Underground	40.05	
For Horizontal Boring Through Rock, Add		28.04
33 05 07 13-0027 LF 5" Diameter Directional Boring For Horizontal Pipe, Underground	46.54	
For Horizontal Boring Through Rock, Add		32.58
33 05 07 13-0028 LF 6" Diameter Directional Boring For Horizontal Pipe, Underground	54.12	
For Horizontal Boring Through Rock, Add		37.88
33 05 07 13-0029 LF 8" Diameter Directional Boring For Horizontal Pipe, Underground	66.27	
For Horizontal Boring Through Rock, Add		46.39
33 05 07 13-0030 LF 10" Diameter Directional Boring For Horizontal Pipe, Underground	71.79	
For Horizontal Boring Through Rock, Add		50.25
33 05 07 13-0031 LF 12" Diameter Directional Boring For Horizontal Pipe, Underground	77.31	
For Horizontal Boring Through Rock, Add		54.12
33 05 07 13-0032 LF 18" Diameter Directional Boring For Horizontal Pipe, Underground	160.15	
For Horizontal Boring Through Rock, Add		112.11
33 05 07 13-0033 LF 24" Diameter Directional Boring For Horizontal Pipe, Underground	254.58	
For Horizontal Boring Through Rock, Add		178.21
33 05 07 13-0034 LF 30" Diameter Directional Boring For Horizontal Pipe, Underground	388.08	
For Horizontal Boring Through Rock, Add		271.66
33 05 07 13-0035 LF 36" Diameter Directional Boring For Horizontal Pipe, Underground	620.92	
For Horizontal Boring Through Rock, Add		434.64
33 05 07 13-0036 EA Up To 6" Horizontal Directional Boring Minimum Set-up Charge.....	3,463.71	
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0037 EA >6" To 18" Horizontal Directional Boring Minimum Set-up Charge.....	3,976.04	
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0038 EA >18" To 36" Horizontal Directional Boring Minimum Set-up Charge.....	5,464.13	
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23 Utility Boring and Jacking <small>(33 05 07)</small>		
33 05 07 23-0001 Horizontal Jacking <small>(33 05 07 23)</small>		
Note: Includes cost of steel casing pipe, excludes dewatering and excavation for jacking pit or receiving pit.		
33 05 07 23-0002 LF Up To 2" Diameter Horizontal Jacking.....	62.10	
For Horizontal Jacking Through Rock, Add		30.77
33 05 07 23-0003 LF 3" Diameter Horizontal Jacking.....	74.50	
For Horizontal Jacking Through Rock, Add		37.14
33 05 07 23-0004 LF 4" Diameter Horizontal Jacking.....	100.80	
For Horizontal Jacking Through Rock, Add		50.94
33 05 07 23-0005 LF 6" Diameter Horizontal Jacking.....	130.27	
For Horizontal Jacking Through Rock, Add		65.79
33 05 07 23-0006 LF 8" Diameter Horizontal Jacking.....	176.66	
For Horizontal Jacking Through Rock, Add		90.19
33 05 07 23-0007 LF 10" Diameter Horizontal Jacking.....	258.88	
For Horizontal Jacking Through Rock, Add		131.59
33 05 07 23-0008 LF 12" Diameter Horizontal Jacking.....	311.63	
For Horizontal Jacking Through Rock, Add		158.12
33 05 07 23-0009 LF 16" Diameter Horizontal Jacking.....	372.09	
For Horizontal Jacking Through Rock, Add		188.90
33 05 07 23-0010 LF 20" Diameter Horizontal Jacking.....	585.51	
For Horizontal Jacking Through Rock, Add		327.91
33 05 07 23-0011 LF 24" Diameter Horizontal Jacking.....	937.94	
For Horizontal Jacking Through Rock, Add		368.00
33 05 07 23-0012 LF 30" Diameter Horizontal Jacking.....	1,094.34	
For Horizontal Jacking Through Rock, Add		454.41
33 05 07 23-0013 LF 36" Diameter Horizontal Jacking.....	1,236.90	
For Horizontal Jacking Through Rock, Add		519.57
33 05 07 23-0014 LF 42" Diameter Horizontal Jacking.....	1,329.17	
For Horizontal Jacking Through Rock, Add		561.07
33 05 07 23-0015 LF 48" Diameter Horizontal Jacking.....	1,440.73	
For Horizontal Jacking Through Rock, Add		604.54

33 Utilities**33 05 Common Work Results for Utilities****33 05 07 Trenchless Installation of Utility Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 23-0016 LF 54" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	1,541.59 657.94	
33 05 07 23-0017 EA Up To 6" Horizontal Jacking Minimum Set-up Charge..... Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	3,463.71	
33 05 07 23-0018 EA >6" To 20" Horizontal Jacking Minimum Set-up Charge..... Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	3,976.04	
33 05 07 23-0019 EA >20" To 36" Horizontal Jacking Minimum Set-up Charge..... Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	5,464.13	
33 05 07 23-0020 EA >36" Horizontal Jacking Minimum Set-up Charge..... Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	8,186.43	

33 05 07 24 Casing Piping for Utility Jacking (33 05 07)

33 05 07 24-0001 Casing Pipe (33 05 07 24)
Note: Casing pipe is pulled back from hook on boring auger through slurry. Costs are installed costs. Excludes boring.

33 05 07 24-0002 Steel Pipe (33 05 07 24-0001)

33 05 07 24-0003 LF 1-1/2" Steel Pipe Pull In Place By Boring Machine	17.38	
Note: Includes pipe welding.		
33 05 07 24-0004 LF 2" Steel Pipe Pull In Place By Boring Machine	18.42	
Note: Includes pipe welding.		
33 05 07 24-0005 LF 2-1/2" Steel Pipe Pull In Place By Boring Machine	19.88	
Note: Includes pipe welding.		
33 05 07 24-0006 LF 3" Steel Pipe Pull In Place By Boring Machine	21.39	
Note: Includes pipe welding.		
33 05 07 24-0007 LF 4" Steel Pipe Pull In Place By Boring Machine	27.04	
Note: Includes pipe welding.		
33 05 07 24-0008 LF 5" Steel Pipe Pull In Place By Boring Machine	30.57	
Note: Includes pipe welding.		
33 05 07 24-0009 LF 6" Steel Pipe Pull In Place By Boring Machine	34.10	
Note: Includes pipe welding.		

33 05 07 24-0010 Polyethylene Pipe (33 05 07 24-0001)

33 05 07 24-0011 LF 3/4" Polyethylene Pipe Pull In Place By Boring Machine	5.19	
Note: Includes pipe welding.		
33 05 07 24-0012 LF 1" Polyethylene Pipe Pull In Place By Boring Machine	5.71	
Note: Includes pipe welding.		
33 05 07 24-0013 LF 1-1/4" Polyethylene Pipe Pull In Place By Boring Machine	6.21	
Note: Includes pipe welding.		
33 05 07 24-0014 LF 1-1/2" Polyethylene Pipe Pull In Place By Boring Machine	6.64	
Note: Includes pipe welding.		
33 05 07 24-0015 LF 2" Polyethylene Pipe Pull In Place By Boring Machine	7.10	
Note: Includes pipe welding.		
33 05 07 24-0016 LF 2-1/2" Polyethylene Pipe Pull In Place By Boring Machine	7.57	
Note: Includes pipe welding.		
33 05 07 24-0017 LF 3" Polyethylene Pipe Pull In Place By Boring Machine	8.06	
Note: Includes pipe welding.		
33 05 07 24-0018 LF 4" Polyethylene Pipe Pull In Place By Boring Machine	9.70	
Note: Includes pipe welding.		
33 05 07 24-0019 LF 5" Polyethylene Pipe Pull In Place By Boring Machine	10.69	
Note: Includes pipe welding.		
33 05 07 24-0020 LF 6" Polyethylene Pipe Pull In Place By Boring Machine	11.70	
Note: Includes pipe welding.		
33 05 07 24-0021 LF 8" Polyethylene Pipe Pull In Place By Boring Machine	15.09	
Note: Includes pipe welding.		
33 05 07 24-0022 LF 10" Polyethylene Pipe Pull In Place By Boring Machine	20.36	
Note: Includes pipe welding.		

33 05 09 Piping Specials for Utilities (33 05)**33 05 09 13 Couplings for Utility Piping (33 05 09)**

See CSI section 33 42 11 00-0058 for couplings.

33 05 09 23 Adapters for Utility Piping (33 05 09)

See CSI section 33 14 13 53-0222 for ductile iron body adapters, 33 14 13 53-0229 for steel body adapters.

33 05 09 33 Thrust Restraint for Utility Piping (33 05 09)

See CSI section 33 14 13 13-0547 for mechanical restraints, 33 14 13 13-0582 for flanged restraints, 33 14 13 13-1154 for slip-on restraints, 33 14 13 13-1170 for slip-on restraint harnesses.

33 05 16 Cast-Iron Utility Pipe (33 05)

See CSI section 22 13 16 00-0019 for cast iron utility piping.

33 05 17 Copper Utility Pipe and Tubing (33 05)

See CSI section 33 14 13 39-0000 for copper utility piping.

33 05 19 Ductile-Iron Utility Pipe (33 05)



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	See CSI section 33 14 13 13-0000 for ductile iron utility piping.			
33 05 24	Steel Utility Pipe <small>(33 05)</small>			
33 05 24 23	Steel Pipe for Water Service <small>(33 05 24)</small> See CSI section 33 14 13 26-0000 for galvanized steel utility piping, 33 14 13 36-0000 for steel utility piping.			
33 05 27	Corrugated Metal Utility Pipe <small>(33 05)</small>			
33 05 27 13	Corrugated Metal Culvert Pipe <small>(33 05 27)</small> See CSI section 33 42 11 00-0498 for corrugated metal culvert pipe.			
33 05 27 23	Corrugated Metal Slotted Pipe <small>(33 05 27)</small> See CSI section 33 41 16 13-0085 for corrugated metal slotted pipe.			
33 05 27 33	Corrugated Metal Culvert Arch Pipe <small>(33 05 27)</small> See CSI section 33 42 11 00-0842 for corrugated metal culvert arch pipe.			
33 05 31	Thermoplastic Utility Pipe <small>(33 05)</small>			
33 05 31 11	Polyvinyl Chloride Gravity Sewer Pipe <small>(33 05 31)</small> See CSI section 33 31 11 00-0000 for polyvinyl chloride gravity sewer pipe.			
33 05 31 13	Polyvinyl Chloride Pressure Pipe <small>(33 05 31)</small> See CSI section 33 14 13 23-0001 for polyvinyl chloride pressure pipe.			
33 05 31 16	Polyvinyl Chloride Pressure Pipe for Water Transmission and Distribution (AWWA C900 and AWWA C905) <small>(33 05 31)</small> See CSI section 33 14 13 23-0171 for AWWA C900 and 905 polyvinyl chloride pressure pipe.			
33 05 33	Polyethylene Utility Pipe <small>(33 05)</small>			
33 05 33 13	Corrugated-Wall, Smooth Interior HDPE Gravity Pipe <small>(33 05 33)</small> See CSI section 33 42 11 00-0239 for corrugated-wall smooth interior HDPE gravity pipe.			
33 05 33 23	Polyethylene Pressure Pipe and Tubing (AWWA C901 and AWWA C906) <small>(33 05 33)</small> See CSI section 33 14 13 23-0426 for AWWA C906 high density polyethylene pipe.			
33 05 33 33	Corrugated, Perforated HDPE Drainage Pipe <small>(33 05 33)</small> See CSI section 33 42 11 00-0261 for corrugated perforated HDPE drainage pipe.			
33 05 33 36	Corrugated, Non-Perforated HDPE Drainage Pipe <small>(33 05 33)</small> See CSI section 33 41 16 13-0002 for corrugated non-perforated HDPE drainage pipe.			
33 05 33 63	HDPE Communication Duct <small>(33 05 33)</small>			
33 05 33 63-0001	ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine <small>(33 05 33 63)</small> Note: Excludes boring.			
33 05 33 63-0002	LF 1" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....		3.57	
	For Up To 250, Add		0.11	
	For >250 To 500, Add		0.08	
33 05 33 63-0003	LF 1-1/4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....		4.00	
	For Up To 250, Add		0.14	
	For >250 To 500, Add		0.09	
33 05 33 63-0004	LF 1-1/2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....		4.34	
	For Up To 250, Add		0.16	
	For >250 To 500, Add		0.11	
33 05 33 63-0005	LF 2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....		4.77	
	For Up To 250, Add		0.19	
	For >250 To 500, Add		0.13	
33 05 33 63-0006	LF 3" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....		6.42	
	For Up To 250, Add		0.39	
	For >250 To 500, Add		0.26	
33 05 33 63-0007	LF 4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....		8.12	
	For Up To 250, Add		0.60	
	For >250 To 500, Add		0.40	
33 05 33 63-0008	LF 1" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....		3.65	
	For Up To 250, Add		0.12	
	For >250 To 500, Add		0.08	
33 05 33 63-0009	LF 1-1/4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....		4.15	
	For Up To 250, Add		0.16	
	For >250 To 500, Add		0.11	
33 05 33 63-0010	LF 1-1/2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....		4.46	
	For Up To 250, Add		0.18	
	For >250 To 500, Add		0.12	
33 05 33 63-0011	LF 2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....		5.08	
	For Up To 250, Add		0.23	
	For >250 To 500, Add		0.16	

33 Utilities**33 05 Common Work Results for Utilities****33 05 33 Polyethylene Utility Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 33 63-0012 LF 3" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	7.09	
For Up To 250, Add	0.50	
For >250 To 500, Add	0.33	
33 05 33 63-0013 LF 4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	8.97	
For Up To 250, Add	0.73	
For >250 To 500, Add	0.49	
33 05 39 Concrete Pipe (33 05)		
33 05 39 13 Prestressed Concrete Pressure Pipe, Steel-Cylinder Type (AWWA C301) (33 05)		
See CSI section 33 42 11 00-0092 for prestressed concrete pressure pipe.		
33 05 39 41 Reinforced Concrete Pipe for Sewers and Culverts (33 05 39)		
See CSI section 33 42 11 00-0001 for reinforced concrete pipe.		
33 05 41 Vitrified Clay Utility Pipe (33 05)		
See CSI section 33 42 11 00-0365 for vitrified clay piping.		
33 05 61 Concrete Manholes (33 05)		
33 05 61 00-0001 Manholes (33 05 61)		
33 05 61 00-0002 Precast Concrete Manholes (33 05 61 00-0001)		
Note: Includes base, riser(s), reducer and openings. Excludes excavation, aggregate, backfill and frame/cover. See CSI section 33 05 84 00-0002 for top slabs.		
33 05 61 00-0003 3' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0004 EA 4' Deep, 3' Diameter, Precast Concrete Manhole.....	1,572.52	272.64
For Bitumastic Coating, Add	73.72	
For Epoxy Coating, Add	140.87	
33 05 61 00-0005 EA 6' Deep, 3' Diameter, Precast Concrete Manhole.....	2,140.91	391.62
For Bitumastic Coating, Add	110.58	
For Epoxy Coating, Add	211.31	
33 05 61 00-0006 EA 8' Deep, 3' Diameter, Precast Concrete Manhole.....	2,877.86	594.86
For Bitumastic Coating, Add	147.44	
For Epoxy Coating, Add	281.75	
33 05 61 00-0007 VLF Riser For 3' Diameter, Precast Concrete Manhole.....	304.03	69.40
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	18.43	
For Epoxy Coating, Add	35.22	
33 05 61 00-0008 VLF Drop Collar For 3' Diameter, Precast Concrete Manhole.....	328.27	69.40
33 05 61 00-0009 EA Drop Base For 3' Diameter, Precast Concrete Manhole.....	529.98	69.40
33 05 61 00-0010 EA Extended Base Slab For 3' Diameter, Precast Concrete Manhole.....	421.65	69.40
33 05 61 00-0011 EA Precast Channel For 3' Diameter, Precast Concrete Manhole.....	606.15	69.40
33 05 61 00-0012 4' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0013 EA 4' Deep, 4' Diameter, Precast Concrete Manhole.....	2,009.81	312.30
For Bitumastic Coating, Add	73.72	
For Epoxy Coating, Add	140.87	
33 05 61 00-0014 EA 6' Deep, 4' Diameter, Precast Concrete Manhole.....	2,684.64	426.31
For Bitumastic Coating, Add	110.58	
For Epoxy Coating, Add	211.31	
33 05 61 00-0015 EA 8' Deep, 4' Diameter, Precast Concrete Manhole.....	3,558.56	644.43
For Bitumastic Coating, Add	147.44	
For Epoxy Coating, Add	281.75	
33 05 61 00-0016 VLF Riser For 4' Diameter, Precast Concrete Manhole.....	383.26	81.79
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	18.43	
For Epoxy Coating, Add	35.22	
33 05 61 00-0017 VLF Drop Collar For 4' Diameter, Precast Concrete Manhole.....	415.85	81.79
33 05 61 00-0018 EA Drop Base For 4' Diameter, Precast Concrete Manhole.....	687.03	81.79
33 05 61 00-0019 EA Extended Base Slab For 4' Diameter, Precast Concrete Manhole.....	541.41	81.79
33 05 61 00-0020 EA Precast Channel For 4' Diameter, Precast Concrete Manhole.....	789.46	81.79
33 05 61 00-0021 5' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0022 EA 4' Deep, 5' Diameter, Precast Concrete Manhole.....	3,728.68	347.00
For Bitumastic Coating, Add	94.98	
For Epoxy Coating, Add	227.10	
33 05 61 00-0023 EA 6' Deep, 5' Diameter, Precast Concrete Manhole.....	4,968.08	475.89
For Bitumastic Coating, Add	142.48	
For Epoxy Coating, Add	340.65	
33 05 61 00-0024 EA 8' Deep, 5' Diameter, Precast Concrete Manhole.....	6,428.17	713.83
For Bitumastic Coating, Add	189.97	
For Epoxy Coating, Add	454.20	
33 05 61 00-0025 VLF Riser For 5' Diameter, Precast Concrete Manhole.....	670.83	89.23
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	23.75	
For Epoxy Coating, Add	56.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 61 00-0026 6' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0002)</small>		
33 05 61 00-0027 EA 4' Deep, 6' Diameter, Precast Concrete Manhole.....	4,987.70	386.66
<i>For Bitumastic Coating, Add</i>	108.74	
<i>For Epoxy Coating, Add</i>	265.88	
33 05 61 00-0028 EA 6' Deep, 6' Diameter, Precast Concrete Manhole.....	6,501.08	525.46
<i>For Bitumastic Coating, Add</i>	163.11	
<i>For Epoxy Coating, Add</i>	398.81	
33 05 61 00-0029 EA 8' Deep, 6' Diameter, Precast Concrete Manhole.....	8,261.54	793.15
<i>For Bitumastic Coating, Add</i>	217.49	
<i>For Epoxy Coating, Add</i>	531.75	
33 05 61 00-0030 VLF Riser For 6' Diameter, Precast Concrete Manhole	813.11	99.14
Note: For depths greater than 8'.		
<i>For Bitumastic Coating, Add</i>	27.19	
<i>For Epoxy Coating, Add</i>	66.47	
33 05 61 00-0031 7' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0002)</small>		
33 05 61 00-0032 EA 4' Deep, 7' Diameter, Precast Concrete Manhole.....	7,828.64	426.31
<i>For Bitumastic Coating, Add</i>	231.24	
<i>For Epoxy Coating, Add</i>	464.60	
33 05 61 00-0033 EA 6' Deep, 7' Diameter, Precast Concrete Manhole.....	10,129.30	581.48
<i>For Bitumastic Coating, Add</i>	346.87	
<i>For Epoxy Coating, Add</i>	696.90	
33 05 61 00-0034 EA 8' Deep, 7' Diameter, Precast Concrete Manhole.....	12,701.61	872.46
<i>For Bitumastic Coating, Add</i>	462.49	
<i>For Epoxy Coating, Add</i>	929.20	
33 05 61 00-0035 VLF Riser For 7' Diameter, Precast Concrete Manhole	1,213.29	109.05
Note: For depths greater than 8'.		
<i>For Bitumastic Coating, Add</i>	57.81	
<i>For Epoxy Coating, Add</i>	116.15	
33 05 61 00-0036 8' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0002)</small>		
33 05 61 00-0037 EA 4' Deep, 8' Diameter, Precast Concrete Manhole.....	11,305.76	490.76
<i>For Bitumastic Coating, Add</i>	273.38	
<i>For Epoxy Coating, Add</i>	566.31	
33 05 61 00-0038 EA 6' Deep, 8' Diameter, Precast Concrete Manhole.....	14,665.74	669.21
<i>For Bitumastic Coating, Add</i>	410.07	
<i>For Epoxy Coating, Add</i>	849.46	
33 05 61 00-0039 EA 8' Deep, 8' Diameter, Precast Concrete Manhole.....	18,338.03	1,003.83
<i>For Bitumastic Coating, Add</i>	546.76	
<i>For Epoxy Coating, Add</i>	1,132.61	
33 05 61 00-0040 VLF Riser For 8' Diameter, Precast Concrete Manhole	1,749.40	123.93
Note: For depths greater than 8'.		
<i>For Bitumastic Coating, Add</i>	68.35	
<i>For Epoxy Coating, Add</i>	141.58	
33 05 63 Concrete Vaults and Chambers <small>(33 05)</small>		
33 05 63 00-0001 Underground Utility Vaults And Structures <small>(33 05 63)</small>		
See CSI section 33 05 61 00-0001 for manholes, 33 05 81 00-0006 for frames and covers.		
33 05 63 00-0002 Precast Concrete Underground Utility Vault <small>(33 05 63 00-0001)</small>		
Note: Sizes given are for inside dimensions.		
33 05 63 00-0003 6' High Precast Concrete Underground Utility Vault <small>(33 05 63 00-0002)</small>		
33 05 63 00-0004 EA 4' x 4' x 6' Precast Concrete Underground Utility Vault.....	3,130.63	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0005 EA 4' x 6' x 6' Precast Concrete Underground Utility Vault.....	4,080.81	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0006 EA 5' x 10' x 6' Precast Concrete Underground Utility Vault.....	6,732.39	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0007 EA 5' x 12' x 6' Precast Concrete Underground Utility Vault.....	7,773.64	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0008 EA 6' x 6' x 6' Precast Concrete Underground Utility Vault.....	5,215.08	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0009 EA 6' x 8' x 6' Precast Concrete Underground Utility Vault.....	6,348.34	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0010 EA 6' x 10' x 6' Precast Concrete Underground Utility Vault.....	7,482.62	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0011 EA 6' x 12' x 6' Precast Concrete Underground Utility Vault.....	10,810.94	
Note: 8" thick walls and top.		
33 05 63 00-0012 EA 6' x 14' x 6' Precast Concrete Underground Utility Vault.....	10,810.94	
Note: 8" thick walls and top.		
33 05 63 00-0013 EA 6' x 16' x 6' Precast Concrete Underground Utility Vault.....	13,612.67	
Note: 8" thick walls and top.		
33 05 63 00-0014 EA 8' x 8' x 6' Precast Concrete Underground Utility Vault.....	7,666.72	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0015 EA 8' x 10' x 6' Precast Concrete Underground Utility Vault.....	8,984.11	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0016 EA 8' x 12' x 6' Precast Concrete Underground Utility Vault.....	12,842.03	
Note: 8" thick walls and top.		

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0017 EA 8' x 14' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,453.64	
33 05 63 00-0018 7' High Precast Concrete Underground Utility Vault <small>(33 05 63 00-0002)</small>		
33 05 63 00-0019 EA 4' x 4' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	3,751.93	
33 05 63 00-0020 EA 4' x 6' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,871.76	
33 05 63 00-0021 EA 4' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,503.78	
33 05 63 00-0022 EA 5' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,323.44	
33 05 63 00-0023 EA 5' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,444.12	
33 05 63 00-0024 EA 6' x 6' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,191.96	
33 05 63 00-0025 EA 6' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,900.66	
33 05 63 00-0026 EA 6' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,832.41	
33 05 63 00-0027 EA 6' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	11,756.56	
33 05 63 00-0028 EA 6' x 16' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,768.55	
33 05 63 00-0029 EA 8' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,297.47	
33 05 63 00-0030 EA 8' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,693.34	
33 05 63 00-0031 EA 8' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,893.36	
33 05 63 00-0032 EA 8' x 14' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,608.53	
33 05 63 00-0033 EA 10' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,102.85	
33 05 63 00-0034 8' High Precast Concrete Underground Utility Vault <small>(33 05 63 00-0002)</small>		
33 05 63 00-0035 EA 4' x 4' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	3,761.39	
33 05 63 00-0036 EA 4' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,869.50	
33 05 63 00-0037 EA 5' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,914.44	
33 05 63 00-0038 EA 5' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,113.61	
33 05 63 00-0039 EA 6' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,160.72	
33 05 63 00-0040 EA 6' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,451.94	
33 05 63 00-0041 EA 6' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,743.19	
33 05 63 00-0042 EA 6' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	12,702.18	
33 05 63 00-0043 EA 6' x 16' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,924.50	
33 05 63 00-0044 EA 8' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,927.25	
33 05 63 00-0045 EA 8' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,402.56	
33 05 63 00-0046 EA 8' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,943.61	
33 05 63 00-0047 EA 8' x 14' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	16,764.46	
33 05 63 00-0048 EA 10' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,153.87	
33 05 63 00-0049 10' High Precast Concrete Underground Utility Vault <small>(33 05 63 00-0002)</small>		
33 05 63 00-0050 EA 6' x 6' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,633.56	
33 05 63 00-0051 EA 6' x 8' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,003.23	
33 05 63 00-0052 EA 10' x 10' x 10' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	16,204.08	
33 05 63 00-0053 12' High Precast Concrete Underground Utility Vault <small>(33 05 63 00-0002)</small>		
33 05 63 00-0054 EA 6' x 6' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,106.38	
33 05 63 00-0055 EA 6' x 8' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,555.53	



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0056		Meter Pit <small>(33 05 63 00-0001)</small>		
33 05 63 00-0057		Precast Concrete Meter Pit <small>(33 05 63 00-0056)</small>		
	EA	4' x 4' x 4' Deep Precast Concrete Meter Pit.....	3,082.33	
	EA	4' x 4' x 6' Deep Precast Concrete Meter Pit.....	4,178.72	
	EA	4' x 4' x 8' Deep Precast Concrete Meter Pit.....	5,245.32	
	EA	4' x 4' x 10' Deep Precast Concrete Meter Pit.....	6,498.21	
	EA	4' x 4' x 15' Deep Precast Concrete Meter Pit.....	8,979.06	
	EA	6' x 6' x 4' Deep Precast Concrete Meter Pit.....	4,673.26	
	EA	6' x 6' x 6' Deep Precast Concrete Meter Pit.....	6,498.21	
	EA	6' x 6' x 8' Deep Precast Concrete Meter Pit.....	8,371.39	
	EA	6' x 6' x 10' Deep Precast Concrete Meter Pit.....	10,443.63	
	EA	6' x 6' x 15' Deep Precast Concrete Meter Pit.....	14,848.02	
33 05 63 00-0068		Handhole Or Pull Box Enclosures <small>(33 05 63 00-0001)</small>		
33 05 63 00-0069		Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0068)</small>		
33 05 63 00-0070		Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0069)</small>		
33 05 63 00-0071		Flared Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0070)</small>		
33 05 63 00-0072		Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0071)</small>		
	EA	12" x 12", 24" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	400.58	21.42
	EA	10" x 15", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	325.28	47.57
	EA	13" x 24", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	497.53	71.35
	EA	17" x 30", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	586.52	71.35
	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	557.12	71.35
	EA	13" x 24", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	685.47	71.35
	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	666.09	71.35
	EA	17" x 30", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	925.99	71.35
	EA	27" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,319.61	95.14
	EA	27" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,878.93	95.14
	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,166.56	130.81
	EA	24" x 36", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,341.72	130.81
	EA	24" x 36", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	2,252.91	130.81
	EA	39" Round, 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,243.61	142.71
	EA	39" Round, 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,817.36	142.71
	EA	39" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	2,286.54	142.71
	EA	39" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	3,396.26	142.71
	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,813.54	235.37
	EA	30" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	2,677.06	235.37
33 05 63 00-0092		Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0071)</small>		
	EA	12" x 12", 24" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	516.84	21.42
	EA	13" x 24", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	635.99	71.35
	EA	17" x 30", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	779.24	71.35
	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	715.12	71.35
	EA	13" x 24", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	824.82	71.35
	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	853.59	71.35
	EA	17" x 30", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,115.10	71.35

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0100 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,461.01	130.81
33 05 63 00-0101 EA 24" x 36", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,636.17	130.81
33 05 63 00-0102 EA 24" x 36", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,547.38	130.81
33 05 63 00-0103 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,157.62	235.37
33 05 63 00-0104 EA 30" x 48", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	3,027.71	235.37
33 05 63 00-0105 Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0070)</small>		
33 05 63 00-0106 Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0107 EA 5" x 16", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	666.45	21.42
33 05 63 00-0108 EA 10" x 12", 15" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	561.22	21.42
33 05 63 00-0109 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	419.87	71.35
33 05 63 00-0110 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	481.96	71.35
33 05 63 00-0111 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	145.57	21.42
33 05 63 00-0112 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	233.56	21.42
33 05 63 00-0113 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	386.29	21.42
33 05 63 00-0114 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	404.77	21.42
33 05 63 00-0115 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	318.83	47.57
33 05 63 00-0116 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	347.18	47.57
33 05 63 00-0117 EA 8" x 8", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	229.78	21.42
33 05 63 00-0118 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	264.41	21.42
33 05 63 00-0119 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	344.24	47.57
33 05 63 00-0120 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	391.90	47.57
33 05 63 00-0121 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	361.05	47.57
33 05 63 00-0122 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	422.76	71.35
33 05 63 00-0123 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	469.51	71.35
33 05 63 00-0124 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	504.28	71.35
33 05 63 00-0125 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	556.64	71.35
33 05 63 00-0126 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	661.06	71.35
33 05 63 00-0127 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	724.41	71.35
33 05 63 00-0128 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	793.72	71.35
33 05 63 00-0129 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	837.30	71.35
33 05 63 00-0130 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	991.06	95.14
33 05 63 00-0131 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	976.82	130.81
33 05 63 00-0132 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,280.38	130.81
33 05 63 00-0133 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,560.68	130.81
33 05 63 00-0134 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,737.70	130.81
33 05 63 00-0135 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,913.77	130.81
33 05 63 00-0136 EA 36" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,150.43	235.37
33 05 63 00-0137 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,529.88	235.37
33 05 63 00-0138 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,754.70	235.37
33 05 63 00-0139 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,184.61	235.37
33 05 63 00-0140 EA 30" x 60", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,180.19	235.37
33 05 63 00-0141 EA 30" x 60", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,340.67	235.37
33 05 63 00-0142 EA 30" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,649.30	235.37
33 05 63 00-0143 EA 36" x 60", 19" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,416.89	252.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0144 EA 36" x 60", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,634.79	252.18
33 05 63 00-0145 EA 36" x 60", 31" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,912.98	252.18
33 05 63 00-0146 EA 36" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,024.29	252.18
33 05 63 00-0147 EA 48" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,062.98	252.18
33 05 63 00-0148 EA 48" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,486.86	252.18
33 05 63 00-0149 EA 36" x 72", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,663.67	252.18
33 05 63 00-0150 EA 36" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,556.82	252.18
33 05 63 00-0151 EA 48" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,011.78	268.99
33 05 63 00-0152 EA 48" x 72", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,983.56	268.99
33 05 63 00-0153 EA 48" x 96", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	6,431.80	268.99
33 05 63 00-0154 Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0155 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	581.07	71.35
33 05 63 00-0156 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	673.18	71.35
33 05 63 00-0157 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	255.97	21.42
33 05 63 00-0158 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	376.23	21.42
33 05 63 00-0159 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	509.17	21.42
33 05 63 00-0160 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	527.68	21.42
33 05 63 00-0161 EA 10" x 15", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	439.88	47.57
33 05 63 00-0162 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	459.61	47.57
33 05 63 00-0163 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	485.99	47.57
33 05 63 00-0164 EA 8" x 8", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	350.16	21.42
33 05 63 00-0165 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	416.36	21.42
33 05 63 00-0166 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	485.35	47.57
33 05 63 00-0167 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	533.01	47.57
33 05 63 00-0168 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	503.66	47.57
33 05 63 00-0169 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	580.18	71.35
33 05 63 00-0170 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	627.52	71.35
33 05 63 00-0171 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	692.14	71.35
33 05 63 00-0172 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	744.17	71.35
33 05 63 00-0173 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	848.28	71.35
33 05 63 00-0174 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	911.90	71.35
33 05 63 00-0175 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	980.91	71.35
33 05 63 00-0176 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,024.80	71.35
33 05 63 00-0177 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,250.07	95.14
33 05 63 00-0178 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,271.29	130.81
33 05 63 00-0179 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,574.49	130.81
33 05 63 00-0180 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,854.49	130.81
33 05 63 00-0181 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,031.23	130.81
33 05 63 00-0182 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,207.88	130.81
33 05 63 00-0183 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,870.71	235.37
33 05 63 00-0184 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,095.87	235.37

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0185 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,525.45	235.37
33 05 63 00-0186 Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0187 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	529.60	71.35
33 05 63 00-0188 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	624.27	71.35
33 05 63 00-0189 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	185.59	21.42
33 05 63 00-0190 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	314.44	21.42
33 05 63 00-0191 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	457.75	21.42
33 05 63 00-0192 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	476.59	21.42
33 05 63 00-0193 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	406.02	47.57
33 05 63 00-0194 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	460.89	47.57
33 05 63 00-0195 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	273.42	21.42
33 05 63 00-0196 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	432.98	47.57
33 05 63 00-0197 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	501.33	47.57
33 05 63 00-0198 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	450.74	47.57
33 05 63 00-0199 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	572.93	71.35
33 05 63 00-0200 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	666.37	71.35
33 05 63 00-0201 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	697.45	71.35
33 05 63 00-0202 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	771.43	71.35
33 05 63 00-0203 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	839.50	71.35
33 05 63 00-0204 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	903.76	71.35
33 05 63 00-0205 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,018.82	71.35
33 05 63 00-0206 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,034.86	71.35
33 05 63 00-0207 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,270.14	95.14
33 05 63 00-0208 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,297.30	130.81
33 05 63 00-0209 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,632.16	130.81
33 05 63 00-0210 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,963.33	130.81
33 05 63 00-0211 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,183.28	130.81
33 05 63 00-0212 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,403.24	130.81
33 05 63 00-0213 EA 36" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,560.24	235.37
33 05 63 00-0214 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,939.72	235.37
33 05 63 00-0215 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,182.08	235.37
33 05 63 00-0216 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,611.69	235.37
33 05 63 00-0217 EA 30" x 60", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,801.19	235.37
33 05 63 00-0218 EA 30" x 60", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,860.53	235.37
33 05 63 00-0219 EA 30" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,436.19	235.37
33 05 63 00-0220 EA 36" x 60", 19" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,170.21	252.18
33 05 63 00-0221 EA 36" x 60", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,282.80	252.18
33 05 63 00-0222 EA 36" x 60", 31" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,602.18	252.18
33 05 63 00-0223 EA 36" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,843.90	252.18
33 05 63 00-0224 EA 36" x 72", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,520.80	252.18
33 05 63 00-0225 EA 36" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,385.29	252.18
33 05 63 00-0226 EA 48" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,789.95	252.18
33 05 63 00-0227 EA 48" x 48", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,177.84	252.18
33 05 63 00-0228 EA 48" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	5,078.72	268.99



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0229 EA 48" x 72", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	6,050.89	268.99
33 05 63 00-0230 EA 48" x 96", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	8,208.29	268.99
33 05 63 00-0231 Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0232 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	690.78	71.35
33 05 63 00-0233 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	815.85	71.35
33 05 63 00-0234 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	295.10	21.42
33 05 63 00-0235 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	456.83	21.42
33 05 63 00-0236 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	580.37	21.42
33 05 63 00-0237 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	599.47	21.42
33 05 63 00-0238 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	547.13	47.57
33 05 63 00-0239 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	601.66	47.57
33 05 63 00-0240 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	429.90	21.42
33 05 63 00-0241 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	573.45	47.57
33 05 63 00-0242 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	641.80	47.57
33 05 63 00-0243 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	553.08	47.57
33 05 63 00-0244 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	730.99	71.35
33 05 63 00-0245 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	824.44	71.35
33 05 63 00-0246 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	884.94	71.35
33 05 63 00-0247 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	958.96	71.35
33 05 63 00-0248 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,027.00	71.35
33 05 63 00-0249 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,091.28	71.35
33 05 63 00-0250 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,206.38	71.35
33 05 63 00-0251 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,222.36	71.35
33 05 63 00-0252 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,528.82	95.14
33 05 63 00-0253 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,591.75	130.81
33 05 63 00-0254 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,926.30	130.81
33 05 63 00-0255 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,257.10	130.81
33 05 63 00-0256 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,477.23	130.81
33 05 63 00-0257 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,697.36	130.81
33 05 63 00-0258 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,280.86	235.37
33 05 63 00-0259 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,523.56	235.37
33 05 63 00-0260 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,952.86	235.37
33 05 63 00-0261 Footed, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0262 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	568.90	71.35
33 05 63 00-0263 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	384.68	47.57
33 05 63 00-0264 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	437.37	47.57
33 05 63 00-0265 EA 13" x 24", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	500.50	71.35
33 05 63 00-0266 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	401.94	47.57
33 05 63 00-0267 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	452.41	47.57
33 05 63 00-0268 Polymer Concrete Handhole Enclosure Extensions <small>(33 05 63 00-0069)</small>		
33 05 63 00-0269 EA 13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	402.39	71.35
33 05 63 00-0270 EA 17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	457.31	71.35

33 Utilities
33 05 Common Work Results for Utilities
33 05 63 Concrete Vaults and Chambers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0271	EA		24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	515.74	95.14
33 05 63 00-0272	EA		24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	569.66	95.14
33 05 63 00-0273	EA		24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	662.39	130.81
33 05 63 00-0274	EA		36" x 36", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	1,210.03	235.37
33 05 63 00-0275	EA		30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	1,151.08	235.37
33 05 63 00-0276	EA		30" x 48", 11" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	1,163.94	235.37
33 05 63 00-0277	EA		36" x 60", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	1,602.42	252.18
33 05 63 00-0278	EA		48" x 72", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	2,608.39	268.99
33 05 63 00-0279	EA		48" x 96", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	3,464.71	268.99
33 05 63 00-0280	EA		13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	690.55	71.35
33 05 63 00-0281	EA		17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	724.10	71.35
33 05 63 00-0282	EA		24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	761.54	95.14
33 05 63 00-0283	EA		24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	816.05	95.14
33 05 63 00-0284	EA		24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	931.98	130.81
33 05 63 00-0285	EA		30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	1,532.07	235.37
33 05 63 00-0286	EA		13" x 24", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	526.54	71.35
33 05 63 00-0287	EA		17" x 30", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	592.72	71.35
33 05 63 00-0288	EA		24" x 36", 4" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	757.33	130.81
33 05 63 00-0289	EA		36" x 60", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	1,539.30	252.18

33 05 63 00-0290 Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0069)

33 05 63 00-0291 Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)

33 05 63 00-0292	EA		5" x 16", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	154.39	9.52
33 05 63 00-0293	EA		10" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	156.51	9.52
33 05 63 00-0294	EA		12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	144.42	9.52
33 05 63 00-0295	EA		8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	156.92	9.52
33 05 63 00-0296	EA		11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	158.53	9.51
33 05 63 00-0297	EA		13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	183.15	9.51
33 05 63 00-0298	EA		17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	213.61	9.51
33 05 63 00-0299	EA		30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	1,436.82	30.26
33 05 63 00-0300	EA		30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	1,255.19	30.26
33 05 63 00-0301	EA		36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	1,887.83	30.26
33 05 63 00-0302	EA		48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	1,909.39	30.26
33 05 63 00-0303	EA		36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	2,165.37	30.26
33 05 63 00-0304	EA		48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	2,360.90	30.26
33 05 63 00-0305	EA		48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	3,804.51	30.26
33 05 63 00-0306	EA		10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	130.98	9.51
33 05 63 00-0307	EA		11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	191.43	9.51
33 05 63 00-0308	EA		11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	194.24	9.51
33 05 63 00-0309	EA		13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	246.63	9.51
33 05 63 00-0310	EA		13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover.....	183.93	9.51
33 05 63 00-0311	EA		17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	293.35	9.51
33 05 63 00-0312	EA		17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover.....	228.45	9.51
33 05 63 00-0313	EA		27" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	477.99	9.51
33 05 63 00-0314	EA		24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	413.39	14.27
33 05 63 00-0315	EA		24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	521.40	14.27
33 05 63 00-0316	EA		39" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	673.62	16.65
33 05 63 00-0317	EA		36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	950.75	23.54
33 05 63 00-0318	EA		30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	986.45	44.83
33 05 63 00-0319	EA		11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	249.77	9.51
33 05 63 00-0320	EA		13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	359.83	9.51
33 05 63 00-0321	EA		17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	410.64	9.51
33 05 63 00-0322	EA		27" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	688.58	9.51
33 05 63 00-0323	EA		24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	561.87	14.27
33 05 63 00-0324	EA		39" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	956.42	16.65
33 05 63 00-0325	EA		36" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	1,257.09	23.54
33 05 63 00-0326	EA		30" x 59", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	1,697.22	30.26
33 05 63 00-0327	EA		30" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	1,506.91	30.26
33 05 63 00-0328	EA		36" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	2,112.07	30.26
33 05 63 00-0329	EA		48" x 48", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	2,755.66	30.26
33 05 63 00-0330	EA		36" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	2,638.26	30.26
33 05 63 00-0331	EA		48" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	4,014.10	30.26

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0406	EA		30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	944.15	26.89
33 05 63 00-0407			Overlapping, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)		
33 05 63 00-0408	EA		30" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	1,480.12	30.26
33 05 63 00-0409	EA		36" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	2,150.45	30.26
33 05 63 00-0410	EA		30" x 48", 8,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	1,241.04	44.83
33 05 63 00-0411	EA		30" x 48", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	1,650.25	44.83
33 05 63 00-0412	EA		30" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	1,761.59	30.26
33 05 63 00-0413	EA		36" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	2,406.73	30.26
33 05 63 00-0414			Split, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)		
33 05 63 00-0415	EA		24" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	572.43	14.27
33 05 63 00-0416	EA		36" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	1,071.49	23.54
33 05 63 00-0417	EA		30" x 48", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	1,119.11	44.83
33 05 63 00-0418	EA		6" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	86.49	9.52
33 05 63 00-0419	EA		8" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	148.25	9.52
33 05 63 00-0420	EA		12" x 12", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	163.87	9.52
33 05 63 00-0421	EA		8" x 18", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	174.21	9.52
33 05 63 00-0422	EA		10" x 15", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	151.94	9.51
33 05 63 00-0423	EA		11" x 20", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	273.29	9.51
33 05 63 00-0424	EA		24" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	770.82	14.27
33 05 63 00-0425	EA		36" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	1,429.28	23.54
33 05 63 00-0426	EA		30" x 48", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	1,496.63	44.83
33 05 63 00-0427			Precast Concrete Handholes With Steel Cover (33 05 63 00-0068)		
			Note: 8000 To 12000 pound traffic rated top. Includes cover stamped with utility (Electrical, Sewer, Water, Etc.).		
33 05 63 00-0428	EA		12" x 12" x 12" Precast Concrete Handholes With Steel Cover.....	764.05	236.07
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	18.00	
33 05 63 00-0429	EA		12" x 24" x 21" Precast Concrete Handholes With Steel Cover.....	1,265.04	354.11
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	105.16	
33 05 63 00-0430	EA		18" x 30" x 18" Precast Concrete Handholes With Steel Cover.....	1,552.74	472.15
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	183.68	
33 05 63 00-0431	EA		24" x 24" x 24" Precast Concrete Handholes With Steel Cover.....	1,604.68	472.15
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	231.77	
33 05 63 00-0432	EA		24" x 24" x 30" Precast Concrete Handholes With Steel Cover.....	1,902.23	590.18
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	278.80	
33 05 63 00-0433	EA		30" x 36" x 30" Precast Concrete Handholes With Steel Cover.....	1,988.89	590.18
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	307.23	
33 05 63 00-0434	EA		36" x 36" x 48" Precast Concrete Handholes With Steel Cover.....	2,309.93	708.22
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	358.70	
33 05 63 00-0435	EA		48" x 48" x 48" Precast Concrete Handholes With Steel Cover.....	2,658.05	826.26
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	503.53	
33 05 63 00-0436	EA		48" x 72" x 36" Precast Concrete Handholes With Steel Cover.....	2,566.03	708.22
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	548.02	
33 05 63 00-0437	EA		54" x 38" x 24" Precast Concrete Handholes With Steel Cover.....	2,588.06	708.22
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	377.82	
33 05 63 00-0438	EA		6" Diameter Precast Concrete Handholes With Steel Cover.....	623.09	236.07
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	15.00	
33 05 63 00-0439	EA		9" Diameter Precast Concrete Handholes With Steel Cover.....	728.51	265.58
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	15.00	
33 05 63 00-0440	EA		12" Diameter Precast Concrete Handholes With Steel Cover.....	880.31	295.09
			Note: 8000 To 12000 pound traffic rated top.		
			For 15,000 to 22,500 Pound Traffic Rated Top, Add	15.00	
33 05 81			Metallic Castings for Utility Structures (33 05)		
33 05 81 00-0001			Manhole Accessories (33 05 81)		
33 05 81 00-0002			Steps For Cast-In-Place Manholes (33 05 81 00-0001)		
			See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.		
33 05 81 00-0003	EA		Cast Iron Manhole Step For New Manholes.....	106.46	
33 05 81 00-0004	EA		Galvanized Steel Manhole Step For New Manholes.....	62.47	
33 05 81 00-0005	EA		Aluminum Manhole Step For New Manholes.....	66.69	
33 05 81 00-0006			Manhole Covers And Frames (33 05 81)		
			Note: Includes moisture-tight masonry joints and waterproof grouting.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 81 00-0007 Regular Manhole Covers And Frames <small>(33 05 81 00-0006)</small>		
33 05 81 00-0008 EA 18" Square, Gray Iron, Manhole Cover With Frame <i>For Ductile Iron Castings, Add</i>	1,226.23 677.92	85.26
33 05 81 00-0009 EA 18" Diameter, Gray Iron, Manhole Cover With Frame <i>For Ductile Iron Castings, Add</i>	727.86 329.06	85.26
33 05 81 00-0010 EA 24" Diameter, Gray Iron, Manhole Cover With Frame <i>For Ductile Iron Castings, Add</i>	840.96 380.46	99.14
33 05 81 00-0011 EA 24" Square, Gray Iron, Manhole Cover With Frame <i>For Ductile Iron Castings, Add</i>	1,274.85 661.06	110.05
33 05 81 00-0012 EA 26" Diameter, Gray Iron, Manhole Cover With Frame <i>For Ductile Iron Castings, Add</i>	1,107.52 524.43	118.97
33 05 81 00-0013 EA 30" Diameter, Gray Iron, Manhole Cover With Frame <i>For Ductile Iron Castings, Add</i>	1,154.74 548.07	123.93
33 05 81 00-0014 EA 24" Diameter REXUF D400, Ductile Iron Manhole Cover And Frame, County Standard..... <i>For Ductile Iron Castings, Add</i>	1,227.32 627.79	110.05
33 05 81 00-0015 Watertight Type Manhole Covers And Frames <small>(33 05 81 00-0006)</small>		
33 05 81 00-0016 EA 20" Diameter, Gray Iron, Watertight Manhole Cover With Frame <i>For Ductile Iron Castings, Add</i>	1,349.61 748.60	70.39
33 05 81 00-0017 EA 22" Diameter, Gray Iron, Watertight Manhole Cover With Frame <i>For Ductile Iron Castings, Add</i>	1,376.19 751.05	70.39
33 05 81 00-0018 EA 24" Diameter, Gray Iron, Watertight Manhole Cover With Frame <i>For Ductile Iron Castings, Add</i>	1,410.49 756.01	82.29
33 05 81 00-0019 EA 26" Diameter, Gray Iron, Watertight Manhole Cover With Frame <i>For Ductile Iron Castings, Add</i>	1,668.02 916.78	92.20
33 05 81 00-0020 EA 30" Diameter, Gray Iron, Watertight Manhole Cover With Frame <i>For Ductile Iron Castings, Add</i>	1,917.88 1,082.27	94.19
33 05 81 00-0021 EA 32" Diameter, Gray Iron, Watertight Manhole Cover With Frame <i>For Ductile Iron Castings, Add</i>	2,013.74 1,145.97	96.17
33 05 81 00-0022 EA 36" Diameter, Gray Iron, Watertight Manhole Cover With Frame <i>For Ductile Iron Castings, Add</i>	2,099.88 1,202.72	99.14
33 05 81 00-0023 Aluminum Manhole Covers And Frames <small>(33 05 81 00-0006)</small>		
33 05 81 00-0024 EA 12" Square Aluminum Manhole Cover With Frame	768.38	28.47
33 05 81 00-0025 EA 18" Square Aluminum Manhole Cover With Frame	1,386.14	31.52
33 05 81 00-0026 EA 24" Square Aluminum Manhole Cover With Frame	1,979.19	36.60
33 05 81 00-0027 Removal And Reinstallation Of Manhole Cover And Frame <small>(33 05 81 00-0006)</small>		
Note: Includes surrounding asphalt removal and repair. Excludes saw cutting.		
33 05 81 00-0028 EA Removal And Reinstallation Of Manhole Cover And Frame	397.50	
33 05 81 00-0029 Adjust Frame And Cover To Grade (Monterey County) <small>(33 05 81 00-0006)</small>		
33 05 81 00-0030 EA Adjust Frame And Cover To Grade (Monterey County).....	647.79	
33 05 83 Non-Metallic Accessories for Utility Structures <small>(33 05)</small>		
33 05 83 00-0001 Manhole Accessories <small>(33 05 83)</small>		
33 05 83 00-0002 Steps For Cast-In-Place Manholes <small>(33 05 83 00-0001)</small>		
See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.		
33 05 83 00-0003 EA Polypropylene Manhole Step For New Manholes	47.52	
33 05 83 00-0004 Rainguard Inflow Protectors <small>(33 05 83)</small>		
33 05 83 00-0005 EA 18" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	125.67	20.32
33 05 83 00-0006 EA 22" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	147.43	20.32
33 05 83 00-0007 EA 24" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	176.23	24.39
33 05 83 00-0008 EA 26" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	189.98	24.39
33 05 83 00-0009 EA 30" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	236.89	28.45
33 05 83 00-0010 EA 32" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	253.78	28.45
33 05 84 Accessories for Utility Structures <small>(33 05)</small>		
See CSI section 22 13 19 26-0044 for oil interceptors, 22 13 23 00-0000 for sediment interceptors, 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
33 05 84 00-0001 Manhole Accessories <small>(33 05 84)</small>		
33 05 84 00-0002 Precast Concrete Manhole Tops <small>(33 05 84 00-0001)</small>		
33 05 84 00-0003 Precast Concrete Manhole Slab Tops <small>(33 05 84 00-0002)</small>		
33 05 84 00-0004 EA 3' Diameter x 8" Thick Precast Manhole Top Slab.....	577.56	74.35
33 05 84 00-0005 EA 4' Diameter x 8" Thick Precast Manhole Top Slab.....	820.01	80.31
33 05 84 00-0006 EA 5' Diameter x 8" Thick Precast Manhole Top Slab.....	1,121.62	86.26
33 05 84 00-0007 EA 6' Diameter x 8" Thick Precast Manhole Top Slab.....	1,348.69	92.20

33 Utilities**33 05 Common Work Results for Utilities****33 05 84 Accessories for Utility Structures**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0008			Precast Concrete Manhole Cone Tops (33 05 84 00-0002)		
	EA		3' Diameter x 8" Thick Precast Manhole Top Cone.....	932.04	92.95
	EA		3'-6" Diameter x 8" Thick Precast Manhole Top Cone.....	1,040.28	96.66
	EA		4' Diameter x 8" Thick Precast Manhole Top Cone.....	1,148.54	100.39
	EA		5' Diameter x 8" Thick Precast Manhole Top Cone.....	1,360.05	106.58
	EA		6' Diameter x 8" Thick Precast Manhole Top Cone.....	1,576.56	114.02
	EA		7' Diameter x 8" Thick Precast Manhole Top Cone.....	2,529.33	121.45
	EA		8' Diameter x 10" Thick Precast Manhole Top Cone.....	3,186.41	133.84
33 05 84 00-0016			Precast Concrete Manhole Reducer Slabs (33 05 84 00-0002)		
	EA		5' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	1,079.22	86.26
	EA		6' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	1,384.28	92.20
	EA		7' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	1,818.89	92.20
	EA		8' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	2,863.13	92.20
	EA		10' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	3,675.52	92.20
	EA		12' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	5,311.45	92.20
33 05 84 00-0023			Pipe To Manhole Connector (33 05 84 00-0001)		
33 05 84 00-0024			Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connectors (33 05 84 00-0023)		
	EA		4" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	79.41	
	EA		6" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	115.70	
	EA		8" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	130.49	
	EA		10" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	195.46	
	EA		12" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	272.36	
	EA		15" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	361.22	
	EA		18" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	646.06	
	EA		21" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	896.13	
	EA		24" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	1,408.04	
	EA		27" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	1,659.61	
33 05 84 00-0035			Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout (33 05 84 00-0023) Note: Fernco CMA.		
	EA		4" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	104.19	
	EA		6" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	144.96	
	EA		8" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	183.24	
	EA		10" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	221.33	
	EA		12" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	256.71	
33 05 84 00-0041			Brick And Grout Pipe To Manhole Connector (33 05 84 00-0023)		
	EA		Seal Gap Between Pipe And Structure With Brick And Grout.....	266.61	
33 05 84 00-0043			Inverts For Manholes (33 05 84 00-0001)		
	EA		Single Channel Concrete Invert For Manholes.....	418.41	
	EA		Double Channel Concrete Invert For Manholes.....	604.07	
	EA		Triple Channel Concrete Invert For Manholes.....	813.36	
	EA		Quad Channel Concrete Invert For Manholes.....	1,022.58	
	EA		Single Channel Brick Invert For Manholes.....	604.52	
	EA		Double Channel Brick Invert For Manholes.....	905.14	
	EA		Triple Channel Brick Invert For Manholes.....	1,210.97	
	EA		Quad Channel Brick Invert For Manholes.....	1,513.18	
33 05 84 00-0052			Protective Coating For New Manholes (33 05 84 00-0001)		
33 05 84 00-0053			Polyurethane Protective Coating For New Manholes (33 05 84 00-0052)		
	VLF		60 Mil Polyurethane Coating Of 3' Diameter Manhole Interior.....	196.88	
			For 80 Mil Material, Add.....	29.45	
			For 100 Mil Material, Add.....	58.91	
			For 125 Mil Material, Add.....	93.10	
			For 150 Mil Material, Add.....	127.30	
			For 200 Mil Material, Add.....	188.68	
			For 2 To 5 Manholes, Deduct.....	-13.34	
			For 6 To 10 Manholes, Deduct.....	-21.77	
			For >10 Manholes, Deduct.....	-43.53	
	VLF		60 Mil Polyurethane Coating Of 3-1/2' Diameter Manhole Interior.....	237.52	
			For 80 Mil Material, Add.....	34.96	
			For 100 Mil Material, Add.....	69.93	
			For 125 Mil Material, Add.....	110.43	
			For 150 Mil Material, Add.....	150.92	
			For 200 Mil Material, Add.....	223.36	
			For 2 To 5 Manholes, Deduct.....	-16.15	
			For 6 To 10 Manholes, Deduct.....	-26.37	
			For >10 Manholes, Deduct.....	-52.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0056 VLF 60 Mil Polyurethane Coating Of 4' Diameter Manhole Interior	262.50	
<i>For 80 Mil Material, Add</i>	39.27	
<i>For 100 Mil Material, Add</i>	78.54	
<i>For 125 Mil Material, Add</i>	124.13	
<i>For 150 Mil Material, Add</i>	169.72	
<i>For 200 Mil Material, Add</i>	251.57	
<i>For 2 To 5 Manholes, Deduct</i>	-17.79	
<i>For 6 To 10 Manholes, Deduct</i>	-29.02	
<i>For >10 Manholes, Deduct</i>	-58.04	
33 05 84 00-0057 VLF 60 Mil Polyurethane Coating Of 5' Diameter Manhole Interior	328.18	
<i>For 80 Mil Material, Add</i>	49.11	
<i>For 100 Mil Material, Add</i>	98.22	
<i>For 125 Mil Material, Add</i>	155.23	
<i>For 150 Mil Material, Add</i>	212.24	
<i>For 200 Mil Material, Add</i>	314.59	
<i>For 2 To 5 Manholes, Deduct</i>	-22.24	
<i>For 6 To 10 Manholes, Deduct</i>	-36.28	
<i>For >10 Manholes, Deduct</i>	-72.56	
33 05 84 00-0058 VLF 60 Mil Polyurethane Coating Of 6' Diameter Manhole Interior	381.36	
<i>For 80 Mil Material, Add</i>	57.99	
<i>For 100 Mil Material, Add</i>	115.98	
<i>For 125 Mil Material, Add</i>	183.46	
<i>For 150 Mil Material, Add</i>	250.93	
<i>For 200 Mil Material, Add</i>	372.50	
<i>For 2 To 5 Manholes, Deduct</i>	-25.76	
<i>For 6 To 10 Manholes, Deduct</i>	-41.98	
<i>For >10 Manholes, Deduct</i>	-83.96	
33 05 84 00-0059 Polyvinyl Chloride (PVC) Liner <small>(33 05 84 00-0052)</small>		
<small>Note: For new manholes and shop applied.</small>		
33 05 84 00-0060 VLF 3' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	267.33	
33 05 84 00-0061 VLF 3-1/2' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	327.69	
33 05 84 00-0062 VLF 4' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	399.90	
33 05 84 00-0063 VLF 5' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	502.20	
33 05 84 00-0064 VLF 6' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	604.50	
33 05 84 00-0065 SF Polyvinyl Chloride (PVC) Liner At Structures	37.01	
33 05 84 00-0066 Concrete Grade Extensions/Grade Rings <small>(33 05 84 00-0001)</small>		
33 05 84 00-0067 18" Diameter, Concrete Grade Extensions/Grade Rings <small>(33 05 84 00-0066)</small>		
33 05 84 00-0068 EA 4" Rise, 18" Diameter, Concrete Grade Extensions/Grade Rings	84.35	
33 05 84 00-0069 EA 6" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	92.30	
33 05 84 00-0070 EA 8" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	100.25	
33 05 84 00-0071 EA 10" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	108.20	
33 05 84 00-0072 24" Diameter, Concrete Grade Extensions/Grade Rings <small>(33 05 84 00-0066)</small>		
33 05 84 00-0073 EA 4" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	94.73	
33 05 84 00-0074 EA 6" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	103.76	
33 05 84 00-0075 EA 8" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	112.79	
33 05 84 00-0076 EA 10" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	121.82	
33 05 84 00-0077 30" Diameter, Concrete Grade Extensions/Grade Rings <small>(33 05 84 00-0066)</small>		
33 05 84 00-0078 EA 4" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	104.88	
33 05 84 00-0079 EA 6" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	114.95	
33 05 84 00-0080 EA 8" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	125.02	
33 05 84 00-0081 EA 10" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	135.09	
33 05 84 00-0082 Bentonite Collar <small>(33 05 84 00-0001)</small>		
33 05 84 00-0083 Bentonite Collar At Manhole Connections <small>(33 05 84 00-0082)</small>		
33 05 84 00-0084 EA Up To 12" Pipe, Bentonite Collar At Manhole Connection	141.35	
33 05 84 00-0085 EA >12" To 21", Bentonite Collar At Manhole Connection	223.87	
33 05 84 00-0086 EA >21" To 30" Pipe, Bentonite Collar At Manhole Connection	354.31	
33 05 84 00-0087 EA >30" To 36" Pipe, Bentonite Collar At Manhole Connection	827.68	
33 05 84 00-0088 EA >36" To 48" Pipe, Bentonite Collar At Manhole Connection	1,294.85	
33 05 84 00-0089 EA >48" To 60" Pipe, Bentonite Collar At Manhole Connection	2,352.54	
33 05 84 00-0090 Waste Water Collection System Taps <small>(33 05 84)</small>		
<small>Note: For tapping existing structures only. Includes grout.</small>		
33 05 84 00-0091 Brick Manhole Taps <small>(33 05 84 00-0090)</small>		
33 05 84 00-0092 EA 4" Tap In 6" Brick Manhole	510.05	
33 05 84 00-0093 EA 6" Tap In 6" Brick Manhole	570.23	
33 05 84 00-0094 EA 8" Tap In 6" Brick Manhole	629.35	
33 05 84 00-0095 EA 10" Tap In 6" Brick Manhole	688.35	
33 05 84 00-0096 EA 12" Tap In 6" Brick Manhole	758.76	
33 05 84 00-0097 EA 15" Tap In 6" Brick Manhole	817.64	

33 Utilities**33 05 Common Work Results for Utilities****33 05 84 Accessories for Utility Structures**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 05 84 00-0098	Precast Concrete Manhole Tap (33 05 84 00-0090)		
33 05 84 00-0099	EA 4" Tap In Existing Precast Concrete Manhole.....	753.44	
33 05 84 00-0100	EA 6" Tap In Existing Precast Concrete Manhole.....	843.72	
33 05 84 00-0101	EA 8" Tap In Existing Precast Concrete Manhole.....	943.96	
33 05 84 00-0102	EA 10" Tap In Existing Precast Concrete Manhole.....	1,032.45	
33 05 84 00-0103	EA 12" Tap In Existing Precast Concrete Manhole.....	1,120.78	
33 05 84 00-0104	EA 15" Tap In Existing Precast Concrete Manhole.....	1,211.23	
33 05 84 00-0105	EA 18" Tap In Existing Precast Concrete Manhole.....	1,395.95	
33 05 84 00-0106	EA 24" Tap In Existing Precast Concrete Manhole.....	1,795.66	

33 05 97 Identification and Signage for Utilities (33 05)**33 05 97 16 Markers for Utility Identification** (33 05 97)

33 05 97 16-0001	Reflective Sheeting Delineators (33 05 97 16)		
33 05 97 16-0002	EA Delineator, Single Unit One Way On Post, 3" Diameter or 3" x 3" Square.....	40.89	
33 05 97 16-0003	EA Delineator, Single Unit Back To Back On Post, 3" Diameter or 3" x 3" Square.....	43.02	
33 05 97 16-0004	EA Delineator, Single Unit Two Way On Post, 3" Diameter or 3" x 3" Square.....	47.28	
33 05 97 16-0005	EA Delineator, Single Unit Three Way On Post, 3" Diameter or 3" x 3" Square.....	49.41	
33 05 97 16-0006	EA Delineator, Single Unit Four Way On Post, 3" Diameter or 3" x 3" Square.....	51.54	
33 05 97 16-0007	EA Delineator, Double Unit On Post, 3" Diameter or 3" x 3" Square.....	45.68	
33 05 97 16-0008	EA Delineator, Single Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	41.42	
33 05 97 16-0009	EA Delineator, Double Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	43.55	
33 05 97 16-0010	EA Delineator, Single Unit, Back To Back, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	43.55	
33 05 97 16-0011	EA Delineator, Single Unit, Two Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	45.68	
33 05 97 16-0012	EA Delineator, Single Unit, Three Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	47.81	
33 05 97 16-0013	EA Delineator, Single Unit, Four Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	49.94	
33 05 97 16-0014	EA Delineator, White, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	69.10	
33 05 97 16-0015	EA Delineator, Single Unit Three Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	49.41	
33 05 97 16-0016	EA Delineator, White, Double Unit On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	71.76	
33 05 97 16-0017	EA Delineator, Yellow, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	69.10	
33 05 97 16-0018	EA Delineator, Yellow, Single Unit, Back To Back On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	71.23	
33 05 97 16-0019	EA Delineator, Yellow, Double Unit, On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	71.76	
33 05 97 16-0020	EA Relocate Delineator.....	54.47	
33 05 97 16-0021	Reference Markers (33 05 97 16)		
33 05 97 16-0022	EA Reference Marker, 4' Mounting Height.....	93.13	
33 05 97 16-0023	EA Reference Marker, 7' Mounting Height.....	117.62	
33 05 97 16-0024	EA Reference Marker, Band Or Bracket Mounted.....	110.47	
33 05 97 16-0025	EA Reference Marker, Furnish Panel Only.....	105.10	
33 05 97 16-0026	EA Relocate Reference Marker.....	54.47	
33 05 97 16-0027	Object Markers (33 05 97 16)		
33 05 97 16-0028	EA Object Marker, Type L-1.....	86.24	
33 05 97 16-0029	EA Object Marker, Type L-2.....	79.27	
33 05 97 16-0030	EA Object Marker, Type K-1.....	91.81	
33 05 97 16-0031	EA Object Marker, Type K-2.....	84.85	
33 05 97 16-0032	EA Object Marker, Type Q.....	56.99	

33 10 Water Utilities (33)**33 11 Groundwater Sources** (33 10)**33 11 13 Potable Water Supply Wells** (33 11)

33 11 13 00-0001	Drill And Test Water Well (33 11 13)		
33 11 13 00-0002	Drill Hole (33 11 13 00-0001)		
	Note: Excludes loading and hauling of spoils.		
33 11 13 00-0003	Mobilization And Demobilization (33 11 13 00-0002)		
33 11 13 00-0004	EA Up To 12" Diameter, Well Drilling Mobilization And Demobilization.....	1,034.10	
33 11 13 00-0005	EA >12" To 24" Diameter, Well Drilling Mobilization And Demobilization.....	1,255.98	
33 11 13 00-0006	EA >24" To 36" Diameter, Well Drilling Mobilization And Demobilization.....	1,883.98	
33 11 13 00-0007	Drill Hole In Normal Soil, Sand, Gravel, O.B. (33 11 13 00-0002)		
	Note: Excludes well casing, gravel or materials.		



Utilities	33	CS
Water Utilities	33 10	
Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0008 LF Up To 6" Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	24.34	
For >100 To 250, Add	0.61	
For >250 To 400, Add	1.22	
For >400 To 600, Add	1.83	
For >600 To 750, Add	2.43	
For >750, Add	3.04	
33 11 13 00-0009 LF 8" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	28.89	
For >100 To 250, Add	0.72	
For >250 To 400, Add	1.44	
For >400 To 600, Add	2.17	
For >600 To 750, Add	2.89	
For >750, Add	3.61	
33 11 13 00-0010 LF 10" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	38.62	
For >100 To 250, Add	0.97	
For >250 To 400, Add	1.93	
For >400 To 600, Add	2.90	
For >600 To 750, Add	3.86	
For >750, Add	4.83	
33 11 13 00-0011 LF 12" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	60.44	
For >100 To 250, Add	1.51	
For >250 To 400, Add	3.02	
For >400 To 600, Add	4.53	
For >600 To 750, Add	6.04	
For >750, Add	7.56	
33 11 13 00-0012 LF 14" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	86.98	
For >100 To 250, Add	2.17	
For >250 To 400, Add	4.35	
For >400 To 600, Add	6.52	
For >600 To 750, Add	8.70	
For >750, Add	10.87	
33 11 13 00-0013 LF 16" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	113.66	
For >100 To 250, Add	2.84	
For >250 To 400, Add	5.68	
For >400 To 600, Add	8.52	
For >600 To 750, Add	11.37	
For >750, Add	14.21	
33 11 13 00-0014 LF 18" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	135.02	
For >100 To 250, Add	3.38	
For >250 To 400, Add	6.75	
For >400 To 600, Add	10.13	
For >600 To 750, Add	13.50	
For >750, Add	16.88	
33 11 13 00-0015 LF 20" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	157.00	
For >100 To 250, Add	3.93	
For >250 To 400, Add	7.85	
For >400 To 600, Add	11.78	
For >600 To 750, Add	15.70	
For >750, Add	19.63	
33 11 13 00-0016 LF 22" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	184.48	
For >100 To 250, Add	4.61	
For >250 To 400, Add	9.22	
For >400 To 600, Add	13.84	
For >600 To 750, Add	18.45	
For >750, Add	23.06	
33 11 13 00-0017 LF 24" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	217.45	
For >100 To 250, Add	5.44	
For >250 To 400, Add	10.87	
For >400 To 600, Add	16.31	
For >600 To 750, Add	21.75	
For >750, Add	27.18	
33 11 13 00-0018 LF 26" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	235.02	
For >100 To 250, Add	5.88	
For >250 To 400, Add	11.75	
For >400 To 600, Add	17.63	
For >600 To 750, Add	23.50	
For >750, Add	29.38	
33 11 13 00-0019 LF 28" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	258.58	
For >100 To 250, Add	6.46	
For >250 To 400, Add	12.93	
For >400 To 600, Add	19.39	
For >600 To 750, Add	25.86	
For >750, Add	32.32	
33 11 13 00-0020 LF 30" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	283.22	
For >100 To 250, Add	7.08	
For >250 To 400, Add	14.16	
For >400 To 600, Add	21.24	
For >600 To 750, Add	28.32	
For >750, Add	35.40	
33 11 13 00-0021 LF 36" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	352.31	
For >100 To 250, Add	8.81	
For >250 To 400, Add	17.62	
For >400 To 600, Add	26.42	
For >600 To 750, Add	35.23	
For >750, Add	44.04	

33	Utilities
33 10	Water Utilities
33 11	Groundwater Sources



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0022			Drill Hole In Sedimentary Rock <small>(33 11 13 00-0002)</small>		
33 11 13 00-0023	LF		6" Water Well Hole Drilled In Sedimentary Rock	49.62	
			For >100 To 250, Add	1.24	
			For >250 To 400, Add	2.48	
			For >400 To 600, Add	3.72	
			For >600 To 750, Add	4.96	
			For >750, Add	6.20	
33 11 13 00-0024	LF		8" Water Well Hole Drilled In Sedimentary Rock	57.77	
			For >100 To 250, Add	1.44	
			For >250 To 400, Add	2.89	
			For >400 To 600, Add	4.33	
			For >600 To 750, Add	5.78	
			For >750, Add	7.22	
33 11 13 00-0025	LF		10" Water Well Hole Drilled In Sedimentary Rock	92.50	
			For >100 To 250, Add	2.31	
			For >250 To 400, Add	4.63	
			For >400 To 600, Add	6.94	
			For >600 To 750, Add	9.25	
			For >750, Add	11.56	
33 11 13 00-0026	LF		12" Water Well Hole Drilled In Sedimentary Rock	120.95	
			For >100 To 250, Add	3.02	
			For >250 To 400, Add	6.05	
			For >400 To 600, Add	9.07	
			For >600 To 750, Add	12.10	
			For >750, Add	15.12	
33 11 13 00-0027	LF		14" Water Well Hole Drilled In Sedimentary Rock	174.08	
			For >100 To 250, Add	4.35	
			For >250 To 400, Add	8.70	
			For >400 To 600, Add	13.06	
			For >600 To 750, Add	17.41	
			For >750, Add	21.76	
33 11 13 00-0028	LF		16" Water Well Hole Drilled In Sedimentary Rock	227.21	
			For >100 To 250, Add	5.68	
			For >250 To 400, Add	11.36	
			For >400 To 600, Add	17.04	
			For >600 To 750, Add	22.72	
			For >750, Add	28.40	
33 11 13 00-0029	LF		18" Water Well Hole Drilled In Sedimentary Rock	270.16	
			For >100 To 250, Add	6.75	
			For >250 To 400, Add	13.51	
			For >400 To 600, Add	20.26	
			For >600 To 750, Add	27.02	
			For >750, Add	33.77	
33 11 13 00-0030	LF		20" Water Well Hole Drilled In Sedimentary Rock	313.49	
			For >100 To 250, Add	7.84	
			For >250 To 400, Add	15.67	
			For >400 To 600, Add	23.51	
			For >600 To 750, Add	31.35	
			For >750, Add	39.19	
33 11 13 00-0031	LF		22" Water Well Hole Drilled In Sedimentary Rock	369.26	
			For >100 To 250, Add	9.23	
			For >250 To 400, Add	18.46	
			For >400 To 600, Add	27.69	
			For >600 To 750, Add	36.93	
			For >750, Add	46.16	
33 11 13 00-0032	LF		24" Water Well Hole Drilled In Sedimentary Rock	426.53	
			For >100 To 250, Add	10.66	
			For >250 To 400, Add	21.33	
			For >400 To 600, Add	31.99	
			For >600 To 750, Add	42.65	
			For >750, Add	53.32	
33 11 13 00-0033	LF		26" Water Well Hole Drilled In Sedimentary Rock	470.05	
			For >100 To 250, Add	11.75	
			For >250 To 400, Add	23.50	
			For >400 To 600, Add	35.25	
			For >600 To 750, Add	47.01	
			For >750, Add	58.76	
33 11 13 00-0034	LF		28" Water Well Hole Drilled In Sedimentary Rock	517.15	
			For >100 To 250, Add	12.93	
			For >250 To 400, Add	25.86	
			For >400 To 600, Add	38.79	
			For >600 To 750, Add	51.72	
			For >750, Add	64.64	
33 11 13 00-0035	LF		30" Water Well Hole Drilled In Sedimentary Rock	566.45	
			For >100 To 250, Add	14.16	
			For >250 To 400, Add	28.32	
			For >400 To 600, Add	42.48	
			For >600 To 750, Add	56.65	
			For >750, Add	70.81	
33 11 13 00-0036	LF		36" Water Well Hole Drilled In Sedimentary Rock	704.61	
			For >100 To 250, Add	17.62	
			For >250 To 400, Add	35.23	
			For >400 To 600, Add	52.85	
			For >600 To 750, Add	70.46	
			For >750, Add	88.08	



Utilities	33	CS
Water Utilities	33 10	
Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0037 Drill Hole In Crystalline Rock <small>(33 11 13 00-0002)</small>		
33 11 13 00-0038 LF 6" Water Well Hole Drilled In Crystalline Rock.....	102.05	
<i>For >100 To 250, Add</i>	2.55	
<i>For >250 To 400, Add</i>	5.10	
<i>For >400 To 600, Add</i>	7.65	
<i>For >600 To 750, Add</i>	10.21	
<i>For >750, Add</i>	12.76	
33 11 13 00-0039 LF 8" Water Well Hole Drilled In Crystalline Rock.....	117.75	
<i>For >100 To 250, Add</i>	2.94	
<i>For >250 To 400, Add</i>	5.89	
<i>For >400 To 600, Add</i>	8.83	
<i>For >600 To 750, Add</i>	11.78	
<i>For >750, Add</i>	14.72	
33 11 13 00-0040 LF 10" Water Well Hole Drilled In Crystalline Rock.....	135.02	
<i>For >100 To 250, Add</i>	3.38	
<i>For >250 To 400, Add</i>	6.75	
<i>For >400 To 600, Add</i>	10.13	
<i>For >600 To 750, Add</i>	13.50	
<i>For >750, Add</i>	16.88	
33 11 13 00-0041 LF 12" Water Well Hole Drilled In Crystalline Rock.....	171.13	
<i>For >100 To 250, Add</i>	4.28	
<i>For >250 To 400, Add</i>	8.56	
<i>For >400 To 600, Add</i>	12.83	
<i>For >600 To 750, Add</i>	17.11	
<i>For >750, Add</i>	21.39	
33 11 13 00-0042 LF 14" Water Well Hole Drilled In Crystalline Rock.....	221.37	
<i>For >100 To 250, Add</i>	5.53	
<i>For >250 To 400, Add</i>	11.07	
<i>For >400 To 600, Add</i>	16.60	
<i>For >600 To 750, Add</i>	22.14	
<i>For >750, Add</i>	27.67	
33 11 13 00-0043 LF 16" Water Well Hole Drilled In Crystalline Rock.....	321.84	
<i>For >100 To 250, Add</i>	8.05	
<i>For >250 To 400, Add</i>	16.09	
<i>For >400 To 600, Add</i>	24.14	
<i>For >600 To 750, Add</i>	32.18	
<i>For >750, Add</i>	40.23	
33 11 13 00-0044 LF 18" Water Well Hole Drilled In Crystalline Rock.....	383.08	
<i>For >100 To 250, Add</i>	9.58	
<i>For >250 To 400, Add</i>	19.15	
<i>For >400 To 600, Add</i>	28.73	
<i>For >600 To 750, Add</i>	38.31	
<i>For >750, Add</i>	47.89	
33 11 13 00-0045 LF 20" Water Well Hole Drilled In Crystalline Rock.....	444.30	
<i>For >100 To 250, Add</i>	11.11	
<i>For >250 To 400, Add</i>	22.22	
<i>For >400 To 600, Add</i>	33.32	
<i>For >600 To 750, Add</i>	44.43	
<i>For >750, Add</i>	55.54	
33 11 13 00-0046 LF 22" Water Well Hole Drilled In Crystalline Rock.....	522.80	
<i>For >100 To 250, Add</i>	13.07	
<i>For >250 To 400, Add</i>	26.14	
<i>For >400 To 600, Add</i>	39.21	
<i>For >600 To 750, Add</i>	52.28	
<i>For >750, Add</i>	65.35	
33 11 13 00-0047 LF 24" Water Well Hole Drilled In Crystalline Rock.....	604.44	
<i>For >100 To 250, Add</i>	15.11	
<i>For >250 To 400, Add</i>	30.22	
<i>For >400 To 600, Add</i>	45.33	
<i>For >600 To 750, Add</i>	60.44	
<i>For >750, Add</i>	75.56	
33 11 13 00-0048 Furnish And Install Casing <small>(33 11 13 00-0001)</small>		
Note: Excludes drilling of hole.		
33 11 13 00-0049 Steel Well Casing <small>(33 11 13 00-0048)</small>		
33 11 13 00-0050 LF 6" Diameter, Steel Well Casing, Flush.....	41.97	
<i>For >100 To 250, Deduct</i>	-1.25	
<i>For >250 To 400, Deduct</i>	-2.30	
<i>For >400 To 600, Deduct</i>	-3.44	
<i>For >600 To 750, Deduct</i>	-4.59	
<i>For >750, Deduct</i>	-6.00	
33 11 13 00-0051 LF 8" Diameter, Steel Well Casing, Flush.....	52.18	
<i>For >100 To 250, Deduct</i>	-1.55	
<i>For >250 To 400, Deduct</i>	-2.86	
<i>For >400 To 600, Deduct</i>	-4.29	
<i>For >600 To 750, Deduct</i>	-5.71	
<i>For >750, Deduct</i>	-7.46	

33	Utilities
33 10	Water Utilities
33 11	Groundwater Sources



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0052 LF 10" Diameter, Steel Well Casing, Flush	77.51	
For >100 To 250, Deduct	-2.24	
For >250 To 400, Deduct	-4.17	
For >400 To 600, Deduct	-6.26	
For >600 To 750, Deduct	-8.35	
For >750, Deduct	-10.82	
33 11 13 00-0053 LF 12" Diameter, Steel Well Casing, Flush	130.53	
For >100 To 250, Deduct	-3.62	
For >250 To 400, Deduct	-6.88	
For >400 To 600, Deduct	-10.32	
For >600 To 750, Deduct	-13.77	
For >750, Deduct	-17.67	
33 11 13 00-0054 LF 14" Diameter, Steel Well Casing, Flush	146.08	
For >100 To 250, Deduct	-4.15	
For >250 To 400, Deduct	-7.80	
For >400 To 600, Deduct	-11.70	
For >600 To 750, Deduct	-15.60	
For >750, Deduct	-20.14	
33 11 13 00-0055 LF 16" Diameter, Steel Well Casing, Flush	171.38	
For >100 To 250, Deduct	-4.90	
For >250 To 400, Deduct	-9.18	
For >400 To 600, Deduct	-13.77	
For >600 To 750, Deduct	-18.37	
For >750, Deduct	-23.76	
33 11 13 00-0056 LF 18" Diameter, Steel Well Casing, Flush	195.30	
For >100 To 250, Deduct	-5.66	
For >250 To 400, Deduct	-10.54	
For >400 To 600, Deduct	-15.81	
For >600 To 750, Deduct	-21.08	
For >750, Deduct	-27.35	
33 11 13 00-0057 LF 20" Diameter, Steel Well Casing, Flush	222.42	
For >100 To 250, Deduct	-6.51	
For >250 To 400, Deduct	-12.07	
For >400 To 600, Deduct	-18.11	
For >600 To 750, Deduct	-24.14	
For >750, Deduct	-31.42	
33 11 13 00-0058 LF 24" Diameter, Steel Well Casing, Flush	260.10	
For >100 To 250, Deduct	-7.57	
For >250 To 400, Deduct	-14.08	
For >400 To 600, Deduct	-21.11	
For >600 To 750, Deduct	-28.15	
For >750, Deduct	-36.58	
33 11 13 00-0059 LB Steel Well Casing, Furnish And Install	1.34	
For >100 To 250, Deduct	-0.05	
For >250 To 400, Deduct	-0.08	
For >400 To 600, Deduct	-0.12	
For >600 To 750, Deduct	-0.16	
For >750, Deduct	-0.22	
33 11 13 00-0060 Stainless Steel Well Casing, Flush Threaded <small>(33 11 13 00-0048)</small>		
33 11 13 00-0061 LF 6" Diameter, Stainless Steel Well Casing, Flush	89.23	
For >100 To 250, Deduct	-2.43	
For >250 To 400, Deduct	-4.66	
For >400 To 600, Deduct	-6.99	
For >600 To 750, Deduct	-9.32	
For >750, Deduct	-11.91	
33 11 13 00-0062 LF 8" Diameter, Stainless Steel Well Casing, Flush	134.39	
For >100 To 250, Deduct	-3.61	
For >250 To 400, Deduct	-6.97	
For >400 To 600, Deduct	-10.45	
For >600 To 750, Deduct	-13.93	
For >750, Deduct	-17.74	
33 11 13 00-0063 LF 10" Diameter, Stainless Steel Well Casing, Flush	187.99	
For >100 To 250, Deduct	-5.02	
For >250 To 400, Deduct	-9.72	
For >400 To 600, Deduct	-14.57	
For >600 To 750, Deduct	-19.43	
For >750, Deduct	-24.70	
33 11 13 00-0064 LF 12" Diameter, Stainless Steel Well Casing, Flush	218.57	
For >100 To 250, Deduct	-5.84	
For >250 To 400, Deduct	-11.31	
For >400 To 600, Deduct	-16.96	
For >600 To 750, Deduct	-22.61	
For >750, Deduct	-28.75	
33 11 13 00-0065 Stainless Steel Well Casing, Welded Ring <small>(33 11 13 00-0048)</small>		
33 11 13 00-0066 LF 10" Diameter, Stainless Steel Well Casing, Welded	197.51	
For >100 To 250, Deduct	-5.49	
For >250 To 400, Deduct	-10.43	
For >400 To 600, Deduct	-15.65	
For >600 To 750, Deduct	-20.86	
For >750, Deduct	-26.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0067 LF 12" Diameter, Stainless Steel Well Casing, Welded	228.88	
<i>For >100 To 250, Deduct</i>	-6.36	
<i>For >250 To 400, Deduct</i>	-12.08	
<i>For >400 To 600, Deduct</i>	-18.12	
<i>For >600 To 750, Deduct</i>	-24.16	
<i>For >750, Deduct</i>	-31.02	
33 11 13 00-0068 LF 14" Diameter, Stainless Steel Well Casing, Welded	275.43	
<i>For >100 To 250, Deduct</i>	-7.60	
<i>For >250 To 400, Deduct</i>	-14.49	
<i>For >400 To 600, Deduct</i>	-21.73	
<i>For >600 To 750, Deduct</i>	-28.97	
<i>For >750, Deduct</i>	-37.14	
33 11 13 00-0069 LF 16" Diameter, Stainless Steel Well Casing, Welded	315.42	
<i>For >100 To 250, Deduct</i>	-8.70	
<i>For >250 To 400, Deduct</i>	-16.58	
<i>For >400 To 600, Deduct</i>	-24.88	
<i>For >600 To 750, Deduct</i>	-33.17	
<i>For >750, Deduct</i>	-42.52	
33 11 13 00-0070 LF 18" Diameter, Stainless Steel Well Casing, Welded	348.03	
<i>For >100 To 250, Deduct</i>	-9.63	
<i>For >250 To 400, Deduct</i>	-18.33	
<i>For >400 To 600, Deduct</i>	-27.50	
<i>For >600 To 750, Deduct</i>	-36.67	
<i>For >750, Deduct</i>	-47.04	
33 11 13 00-0071 LF 20" Diameter, Stainless Steel Well Casing, Welded	456.91	
<i>For >100 To 250, Deduct</i>	-12.53	
<i>For >250 To 400, Deduct</i>	-23.96	
<i>For >400 To 600, Deduct</i>	-35.93	
<i>For >600 To 750, Deduct</i>	-47.91	
<i>For >750, Deduct</i>	-61.33	
33 11 13 00-0072 LF 24" Diameter, Stainless Steel Well Casing, Welded	602.59	
<i>For >100 To 250, Deduct</i>	-16.45	
<i>For >250 To 400, Deduct</i>	-31.52	
<i>For >400 To 600, Deduct</i>	-47.28	
<i>For >600 To 750, Deduct</i>	-63.03	
<i>For >750, Deduct</i>	-80.60	
33 11 13 00-0073 Polyvinyl Chloride (PVC) Well Casing, Schedule 80 <small>(33 11 13 00-0048)</small>		
33 11 13 00-0074 LF 6" Polyvinyl Chloride (PVC) Well Casing	38.70	
<i>For >100 To 250, Deduct</i>	-1.13	
<i>For >250 To 400, Deduct</i>	-2.09	
<i>For >400 To 600, Deduct</i>	-3.14	
<i>For >600 To 750, Deduct</i>	-4.19	
<i>For >750, Deduct</i>	-5.44	
33 11 13 00-0075 LF 8" Polyvinyl Chloride (PVC) Well Casing	61.43	
<i>For >100 To 250, Deduct</i>	-1.78	
<i>For >250 To 400, Deduct</i>	-3.32	
<i>For >400 To 600, Deduct</i>	-4.98	
<i>For >600 To 750, Deduct</i>	-6.64	
<i>For >750, Deduct</i>	-8.62	
33 11 13 00-0076 LF 10" Polyvinyl Chloride (PVC) Well Casing	92.85	
<i>For >100 To 250, Deduct</i>	-2.70	
<i>For >250 To 400, Deduct</i>	-5.02	
<i>For >400 To 600, Deduct</i>	-7.53	
<i>For >600 To 750, Deduct</i>	-10.04	
<i>For >750, Deduct</i>	-13.04	
33 11 13 00-0077 LF 12" Polyvinyl Chloride (PVC) Well Casing	109.60	
<i>For >100 To 250, Deduct</i>	-3.20	
<i>For >250 To 400, Deduct</i>	-5.94	
<i>For >400 To 600, Deduct</i>	-8.90	
<i>For >600 To 750, Deduct</i>	-11.87	
<i>For >750, Deduct</i>	-15.43	
33 11 13 00-0078 Furnish And Install Well Screen Assembly <small>(33 11 13 00-0001)</small>		
33 11 13 00-0079 Stainless Steel Well Screen <small>(33 11 13 00-0078)</small>		
33 11 13 00-0080 LF 2" Stainless Steel Well Screen	26.54	1.59
<i>For >100 To 250, Deduct</i>	-0.87	
<i>For >250 To 400, Deduct</i>	-1.53	
<i>For >400 To 600, Deduct</i>	-2.30	
<i>For >600 To 750, Deduct</i>	-3.06	
<i>For >750, Deduct</i>	-4.09	
33 11 13 00-0081 LF 3" Stainless Steel Well Screen	43.03	1.59
<i>For >100 To 250, Deduct</i>	-1.30	
<i>For >250 To 400, Deduct</i>	-2.37	
<i>For >400 To 600, Deduct</i>	-3.56	
<i>For >600 To 750, Deduct</i>	-4.74	
<i>For >750, Deduct</i>	-6.21	
33 11 13 00-0082 LF 4" Stainless Steel Well Screen	54.04	2.38
<i>For >100 To 250, Deduct</i>	-1.63	
<i>For >250 To 400, Deduct</i>	-2.98	
<i>For >400 To 600, Deduct</i>	-4.47	
<i>For >600 To 750, Deduct</i>	-5.96	
<i>For >750, Deduct</i>	-7.81	

33	Utilities
33 10	Water Utilities
33 11	Groundwater Sources



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0083 LF 5" Stainless Steel Well Screen.....	68.51	2.38
For >100 To 250, Deduct	-2.04	
For >250 To 400, Deduct	-3.76	
For >400 To 600, Deduct	-5.63	
For >600 To 750, Deduct	-7.51	
For >750, Deduct	-9.82	
33 11 13 00-0084 LF 6" Stainless Steel Well Screen.....	81.75	3.17
For >100 To 250, Deduct	-2.48	
For >250 To 400, Deduct	-4.53	
For >400 To 600, Deduct	-6.79	
For >600 To 750, Deduct	-9.06	
For >750, Deduct	-11.89	
33 11 13 00-0085 LF 8" Stainless Steel Well Screen.....	106.81	3.97
For >100 To 250, Deduct	-3.23	
For >250 To 400, Deduct	-5.90	
For >400 To 600, Deduct	-8.86	
For >600 To 750, Deduct	-11.81	
For >750, Deduct	-15.49	
33 11 13 00-0086 LF 10" Stainless Steel Well Screen.....	135.14	6.35
For >100 To 250, Deduct	-4.14	
For >250 To 400, Deduct	-7.52	
For >400 To 600, Deduct	-11.28	
For >600 To 750, Deduct	-15.03	
For >750, Deduct	-19.78	
33 11 13 00-0087 LF 12" Stainless Steel Well Screen.....	158.59	7.92
For >100 To 250, Deduct	-4.85	
For >250 To 400, Deduct	-8.82	
For >400 To 600, Deduct	-13.23	
For >600 To 750, Deduct	-17.64	
For >750, Deduct	-23.20	
33 11 13 00-0088 LF 14" Stainless Steel Well Screen.....	173.67	8.72
For >100 To 250, Deduct	-5.36	
For >250 To 400, Deduct	-9.71	
For >400 To 600, Deduct	-14.56	
For >600 To 750, Deduct	-19.41	
For >750, Deduct	-25.59	
33 11 13 00-0089 LF 16" Stainless Steel Well Screen.....	187.60	10.30
For >100 To 250, Deduct	-5.84	
For >250 To 400, Deduct	-10.53	
For >400 To 600, Deduct	-15.79	
For >600 To 750, Deduct	-21.06	
For >750, Deduct	-27.82	
33 11 13 00-0090 LF 18" Stainless Steel Well Screen.....	224.85	11.89
For >100 To 250, Deduct	-7.04	
For >250 To 400, Deduct	-12.66	
For >400 To 600, Deduct	-18.99	
For >600 To 750, Deduct	-25.32	
For >750, Deduct	-33.49	
33 11 13 00-0091 LF 20" Stainless Steel Well Screen.....	283.65	15.06
For >100 To 250, Deduct	-8.87	
For >250 To 400, Deduct	-15.96	
For >400 To 600, Deduct	-23.94	
For >600 To 750, Deduct	-31.92	
For >750, Deduct	-42.22	
33 11 13 00-0092 LF 24" Stainless Steel Well Screen.....	367.74	19.82
For >100 To 250, Deduct	-11.53	
For >250 To 400, Deduct	-20.72	
For >400 To 600, Deduct	-31.08	
For >600 To 750, Deduct	-41.44	
For >750, Deduct	-54.83	
33 11 13 00-0093 LF 26" Stainless Steel Well Screen.....	424.45	22.99
For >100 To 250, Deduct	-13.25	
For >250 To 400, Deduct	-23.87	
For >400 To 600, Deduct	-35.80	
For >600 To 750, Deduct	-47.73	
For >750, Deduct	-63.10	
33 11 13 00-0094 Slotted Polyvinyl Chloride (PVC) Well Screen, Schedule 40 <small>(33 11 13 00-0078)</small>		
33 11 13 00-0095 LF 1-1/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	13.05	
For >100 To 250, Deduct	-0.49	
For >250 To 400, Deduct	-0.82	
For >400 To 600, Deduct	-1.23	
For >600 To 750, Deduct	-1.64	
For >750, Deduct	-2.26	
For Schedule 80, Add	2.58	
33 11 13 00-0096 LF 1-1/2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	14.79	
For >100 To 250, Deduct	-0.55	
For >250 To 400, Deduct	-0.92	
For >400 To 600, Deduct	-1.37	
For >600 To 750, Deduct	-1.83	
For >750, Deduct	-2.52	
For Schedule 80, Add	3.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0097 LF 2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	21.63	
<i>For >100 To 250, Deduct</i>	-0.86	
<i>For >250 To 400, Deduct</i>	-1.40	
<i>For >400 To 600, Deduct</i>	-2.10	
<i>For >600 To 750, Deduct</i>	-2.79	
<i>For >750, Deduct</i>	-3.90	
<i>For Schedule 80, Add</i>	3.60	
33 11 13 00-0098 LF 3" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	30.36	
<i>For >100 To 250, Deduct</i>	-1.10	
<i>For >250 To 400, Deduct</i>	-1.86	
<i>For >400 To 600, Deduct</i>	-2.79	
<i>For >600 To 750, Deduct</i>	-3.72	
<i>For >750, Deduct</i>	-5.09	
<i>For Schedule 80, Add</i>	6.70	
33 11 13 00-0099 LF 4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	38.22	
<i>For >100 To 250, Deduct</i>	-1.39	
<i>For >250 To 400, Deduct</i>	-2.34	
<i>For >400 To 600, Deduct</i>	-3.51	
<i>For >600 To 750, Deduct</i>	-4.68	
<i>For >750, Deduct</i>	-6.42	
<i>For Schedule 80, Add</i>	8.39	
33 11 13 00-0100 LF 5" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	47.54	
<i>For >100 To 250, Deduct</i>	-1.70	
<i>For >250 To 400, Deduct</i>	-2.89	
<i>For >400 To 600, Deduct</i>	-4.33	
<i>For >600 To 750, Deduct</i>	-5.78	
<i>For >750, Deduct</i>	-7.89	
<i>For Schedule 80, Add</i>	10.81	
33 11 13 00-0101 LF 6" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	53.75	
<i>For >100 To 250, Deduct</i>	-2.03	
<i>For >250 To 400, Deduct</i>	-3.37	
<i>For >400 To 600, Deduct</i>	-5.06	
<i>For >600 To 750, Deduct</i>	-6.74	
<i>For >750, Deduct</i>	-9.32	
<i>For Schedule 80, Add</i>	10.56	
33 11 13 00-0102 LF 8" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	76.19	
<i>For >100 To 250, Deduct</i>	-2.78	
<i>For >250 To 400, Deduct</i>	-4.68	
<i>For >400 To 600, Deduct</i>	-7.03	
<i>For >600 To 750, Deduct</i>	-9.37	
<i>For >750, Deduct</i>	-12.85	
<i>For Schedule 80, Add</i>	16.48	
33 11 13 00-0103 Furnish And Install Gravel Pack Material <small>(33 11 13 00-0001)</small>		
<i>Note: Quantity is based on 3" space between wall and the casing or well screen.</i>		
33 11 13 00-0104 Artificial Gravel Pack <small>(33 11 13 00-0103)</small>		
<i>Note: Excludes casing.</i>		
33 11 13 00-0105 LF Artificial Gravel Pack, 6" Casing, 2" Screen.....	16.09	
<i>For >100 To 250, Deduct</i>	-0.63	
<i>For >250 To 400, Deduct</i>	-1.03	
<i>For >400 To 600, Deduct</i>	-1.55	
<i>For >600 To 750, Deduct</i>	-2.07	
<i>For >750, Deduct</i>	-2.88	
33 11 13 00-0106 LF Artificial Gravel Pack, 8" Casing, 2" Screen.....	23.81	
<i>For >100 To 250, Deduct</i>	-0.95	
<i>For >250 To 400, Deduct</i>	-1.55	
<i>For >400 To 600, Deduct</i>	-2.32	
<i>For >600 To 750, Deduct</i>	-3.10	
<i>For >750, Deduct</i>	-4.33	
33 11 13 00-0107 LF Artificial Gravel Pack, 10" Casing, 2" Screen.....	33.28	
<i>For >100 To 250, Deduct</i>	-1.36	
<i>For >250 To 400, Deduct</i>	-2.20	
<i>For >400 To 600, Deduct</i>	-3.29	
<i>For >600 To 750, Deduct</i>	-4.39	
<i>For >750, Deduct</i>	-6.18	
33 11 13 00-0108 LF Artificial Gravel Pack, 12" Casing, 2" Screen.....	42.58	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 400, Deduct</i>	-2.79	
<i>For >400 To 600, Deduct</i>	-4.19	
<i>For >600 To 750, Deduct</i>	-5.58	
<i>For >750, Deduct</i>	-7.83	
33 11 13 00-0109 LF Artificial Gravel Pack, 14" Casing, 2" Screen.....	52.44	
<i>For >100 To 250, Deduct</i>	-2.10	
<i>For >250 To 400, Deduct</i>	-3.41	
<i>For >400 To 600, Deduct</i>	-5.12	
<i>For >600 To 750, Deduct</i>	-6.83	
<i>For >750, Deduct</i>	-9.56	
33 11 13 00-0110 LF Artificial Gravel Pack, 16" Casing, 2" Screen.....	67.74	
<i>For >100 To 250, Deduct</i>	-2.67	
<i>For >250 To 400, Deduct</i>	-4.36	
<i>For >400 To 600, Deduct</i>	-6.54	
<i>For >600 To 750, Deduct</i>	-8.72	
<i>For >750, Deduct</i>	-12.17	

33	Utilities
33 10	Water Utilities
33 11	Groundwater Sources



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0111 LF Artificial Gravel Pack, 18" Casing, 2" Screen.....	77.62	
For >100 To 250, Deduct	-3.04	
For >250 To 400, Deduct	-4.98	
For >400 To 600, Deduct	-7.47	
For >600 To 750, Deduct	-9.97	
For >750, Deduct	-13.89	
33 11 13 00-0112 LF Artificial Gravel Pack, 20" Casing, 2" Screen.....	92.30	
For >100 To 250, Deduct	-3.65	
For >250 To 400, Deduct	-5.96	
For >400 To 600, Deduct	-8.94	
For >600 To 750, Deduct	-11.92	
For >750, Deduct	-16.65	
33 11 13 00-0113 LF Artificial Gravel Pack, 24" Casing, 2" Screen.....	104.49	
For >100 To 250, Deduct	-4.16	
For >250 To 400, Deduct	-6.77	
For >400 To 600, Deduct	-10.15	
For >600 To 750, Deduct	-13.54	
For >750, Deduct	-18.93	
33 11 13 00-0114 LF Artificial Gravel Pack, 26" Casing, 2" Screen.....	112.42	
For >100 To 250, Deduct	-4.42	
For >250 To 400, Deduct	-7.23	
For >400 To 600, Deduct	-10.85	
For >600 To 750, Deduct	-14.47	
For >750, Deduct	-20.18	
33 11 13 00-0115 LF Artificial Gravel Pack, 30" Casing, 2" Screen.....	134.25	
For >100 To 250, Deduct	-5.34	
For >250 To 400, Deduct	-8.70	
For >400 To 600, Deduct	-13.04	
For >600 To 750, Deduct	-17.39	
For >750, Deduct	-24.32	
33 11 13 00-0116 LF Artificial Gravel Pack, 36" Casing, 2" Screen.....	155.73	
For >100 To 250, Deduct	-6.31	
For >250 To 400, Deduct	-10.21	
For >400 To 600, Deduct	-15.31	
For >600 To 750, Deduct	-20.41	
For >750, Deduct	-28.66	
33 11 13 00-0117 Develop Well <small>(33 11 13 00-0001)</small>		
Note: Pump out drilled well to remove debris and fine material remaining from the drilling process. Excludes disposal.		
33 11 13 00-0118 HR Develop Well.....	422.34	
33 11 13 00-0119 Pump Test <small>(33 11 13 00-0001)</small>		
Note: To determine water level and GPM flow rate.		
33 11 13 00-0120 HR Pump Test Well.....	374.49	
33 11 13 00-0121 Test Well <small>(33 11 13 00-0001)</small>		
33 11 13 00-0122 VLF 2-1/2" Diameter Test Well.....	102.78	
33 11 13 00-0123 Surface Seal, Concrete Filled <small>(33 11 13)</small>		
33 11 13 00-0124 SF Surface Seal Well, Concrete Filled.....	33.29	
33 11 13 00-0125 Other Water Well <small>(33 11 13)</small>		
33 11 13 00-0126 SF Patch Hole In Well Casing.....	86.59	
33 11 13 00-0127 SF 1/2" Pressure Grout Well.....	2.34	
33 11 13 00-0128 SF 1" Pressure Grout Well.....	3.84	
33 11 13 00-0129 CF Sediment Removal In Well Casing For Existing Well.....	4.96	
33 11 13 00-0130 Sterilization Of Well <small>(33 11 13)</small>		
33 11 13 00-0131 EA Well Sterilization, Chlorine.....	1,417.80	
33 11 13 00-0132 Submersible Well Pumps <small>(33 11 13)</small>		
Note: Includes pump end, motor and control box.		
33 11 13 00-0133 4" Submersible Well Pumps <small>(33 11 13 00-0132)</small>		
33 11 13 00-0134 Powder Coated Case And Cast Iron Ends <small>(33 11 13 00-0133)</small>		
33 11 13 00-0135 EA 1/2 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends.....	1,347.55	459.14
33 11 13 00-0136 EA 3/4 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends.....	1,536.40	508.89
33 11 13 00-0137 EA 1 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends.....	1,705.16	565.43
33 11 13 00-0138 Stainless Steel Case And Ends <small>(33 11 13 00-0133)</small>		
33 11 13 00-0139 EA 1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	1,520.43	452.35
33 11 13 00-0140 EA 3/4 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	1,734.16	508.89
33 11 13 00-0141 EA 1 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	1,944.35	565.43



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0142 EA 1-1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,227.95	621.98
33 11 13 00-0143 EA 2 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,522.19	678.52
33 11 13 00-0144 EA 3 HP Submersible Well Pump, 4" Diameter Stainless Steel	3,103.60	791.61
33 11 13 00-0145 EA 5 HP Submersible Well Pump, 4" Diameter Stainless Steel	3,906.44	904.70
33 11 13 00-0146 6" Submersible Well Pumps <small>(33 11 13 00-0132)</small>		
33 11 13 00-0147 EA 5 HP Submersible Well Pump, 6" Diameter Stainless Steel	3,791.61	1,130.87
33 11 13 00-0148 EA 7.5 HP Submersible Well Pump, 6" Diameter Stainless Steel	4,374.04	1,243.96
33 11 13 00-0149 EA 10 HP Submersible Well Pump, 6" Diameter Stainless Steel	4,979.28	1,357.04
33 11 13 00-0150 EA 15 HP Submersible Well Pump, 6" Diameter Stainless Steel	6,280.62	1,583.22
33 14 Water Utility Transmission and Distribution <small>(33 10)</small>		
33 14 11 Water Utility Transmission Piping <small>(33 14)</small>		
See CSI section 33 14 13 00-0000 for water utility transmission piping.		
33 14 13 Public Water Utility Distribution Piping <small>(33 14)</small>		
Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
33 14 13 13 Ductile Iron Public Water Utility Distribution Piping <small>(33 14 13)</small>		
33 14 13 13-0001 Ductile Iron Piping <small>(33 14 13 13)</small>		
33 14 13 13-0002 Mechanical Joint Ductile Iron Piping <small>(33 14 13 13-0001)</small>		
Note: Cement lining and bituminous coating shall conform to ANSI A21.4. Fittings are C153. See CSI section 31 14 13 13-0484 for bolts and gaskets.		
33 14 13 13-0003 Mechanical Joint Ductile Iron Pipe <small>(33 14 13 13-0002)</small>		
Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.		
33 14 13 13-0004 LF 3", Class 51, Mechanical Joint Ductile Iron Pipe	37.60	12.22
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add		13.38
For Cement Mortar Lining (CML), Add		1.91
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add		10.32
For Fusion Bonded Epoxy Lining (206N), Add		3.44
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add		1.43
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct		-1.88
For Class 52, Add		6.10
For Class 53, Add		10.94
For Class 54, Add		15.58
For Class 55, Add		17.95
For Class 56, Add		20.29
33 14 13 13-0005 LF 4", Class 50, Mechanical Joint Ductile Iron Pipe	40.71	13.00
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add		14.71
For Cement Mortar Lining (CML), Add		2.10
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add		11.35
For Fusion Bonded Epoxy Lining (206N), Add		3.78
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add		1.58
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct		-2.04
For Class 51, Add		3.11
For Class 52, Add		6.69
For Class 53, Add		12.00
For Class 54, Add		17.09
For Class 55, Add		19.69
For Class 56, Add		22.25
33 14 13 13-0006 LF 6", Class 50, Mechanical Joint Ductile Iron Pipe	43.43	13.65
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add		15.96
For Cement Mortar Lining (CML), Add		2.28
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add		12.31
For Fusion Bonded Epoxy Lining (206N), Add		4.10
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add		1.71
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct		-2.17
For Class 51, Add		3.37
For Class 52, Add		7.24
For Class 53, Add		12.99
For Class 54, Add		18.51
For Class 55, Add		21.32
For Class 56, Add		24.09

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0007 LF 8", Class 50, Mechanical Joint Ductile Iron Pipe.....	50.66	14.18
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	20.42	
For Cement Mortar Lining (CML), Add	2.92	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	15.75	
For Fusion Bonded Epoxy Lining (206N), Add	5.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.19	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.53	
For Class 51, Add	4.24	
For Class 52, Add	9.15	
For Class 53, Add	16.44	
For Class 54, Add	23.43	
For Class 55, Add	26.97	
For Class 56, Add	30.45	
33 14 13 13-0008 LF 10", Class 50, Mechanical Joint Ductile Iron Pipe.....	68.36	20.07
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	22.77	
For Cement Mortar Lining (CML), Add	3.80	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	18.98	
For Fusion Bonded Epoxy Lining (206N), Add	6.83	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.85	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.42	
For Class 51, Add	5.55	
For Class 52, Add	11.96	
For Class 53, Add	21.48	
For Class 54, Add	30.61	
For Class 55, Add	35.24	
For Class 56, Add	39.79	
33 14 13 13-0009 LF 12", Class 50, Mechanical Joint Ductile Iron Pipe.....	82.25	22.30
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	24.23	
For Cement Mortar Lining (CML), Add	4.85	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	19.38	
For Fusion Bonded Epoxy Lining (206N), Add	8.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.63	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.11	
For Class 51, Add	7.03	
For Class 52, Add	15.15	
For Class 53, Add	27.24	
For Class 54, Add	38.83	
For Class 55, Add	44.68	
For Class 56, Add	50.44	
33 14 13 13-0010 LF 14", Class 50, Mechanical Joint Ductile Iron Pipe.....	98.12	25.04
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	26.44	
For Cement Mortar Lining (CML), Add	6.01	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	20.43	
For Fusion Bonded Epoxy Lining (206N), Add	10.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.51	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.91	
For Class 51, Add	8.67	
For Class 52, Add	18.69	
For Class 53, Add	33.63	
For Class 54, Add	47.96	
For Class 55, Add	55.17	
For Class 56, Add	62.26	
33 14 13 13-0011 LF 16", Class 50, Mechanical Joint Ductile Iron Pipe.....	110.83	28.69
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	27.63	
For Cement Mortar Lining (CML), Add	6.74	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	20.89	
For Fusion Bonded Epoxy Lining (206N), Add	12.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.05	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.54	
For Class 51, Add	9.73	
For Class 52, Add	20.97	
For Class 53, Add	37.74	
For Class 54, Add	53.81	
For Class 55, Add	61.91	
For Class 56, Add	69.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0012 LF 18", Class 50, Mechanical Joint Ductile Iron Pipe.....	137.10	33.45
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	35.43	
For Cement Mortar Lining (CML), Add	8.64	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	26.79	
For Fusion Bonded Epoxy Lining (206N), Add	15.55	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.48	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-6.86	
For Class 51, Add	12.41	
For Class 52, Add	26.77	
For Class 53, Add	48.21	
For Class 54, Add	68.76	
For Class 55, Add	79.08	
For Class 56, Add	89.22	
33 14 13 13-0013 LF 20", Class 50, Mechanical Joint Ductile Iron Pipe.....	155.99	40.15
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	36.16	
For Cement Mortar Lining (CML), Add	9.52	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	26.64	
For Fusion Bonded Epoxy Lining (206N), Add	17.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.14	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-7.80	
For Class 51, Add	13.73	
For Class 52, Add	29.60	
For Class 53, Add	53.28	
For Class 54, Add	75.97	
For Class 55, Add	87.40	
For Class 56, Add	98.63	
33 14 13 13-0014 LF 24", Class 50, Mechanical Joint Ductile Iron Pipe.....	203.74	50.18
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	39.59	
For Cement Mortar Lining (CML), Add	12.77	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	26.82	
For Fusion Bonded Epoxy Lining (206N), Add	22.99	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.58	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-10.19	
For Class 51, Add	18.36	
For Class 52, Add	39.59	
For Class 53, Add	71.29	
For Class 54, Add	101.68	
For Class 55, Add	116.95	
For Class 56, Add	131.94	
33 14 13 13-0015 LF 30", Class 50, Mechanical Joint Ductile Iron Pipe.....	261.20	54.03
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	55.83	
For Cement Mortar Lining (CML), Add	18.01	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	32.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.51	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-13.06	
For Class 51, Add	25.56	
For Class 52, Add	55.18	
For Class 53, Add	99.56	
For Class 54, Add	142.08	
For Class 55, Add	163.29	
For Class 56, Add	184.11	
33 14 13 13-0016 LF 36", Class 50, Mechanical Joint Ductile Iron Pipe.....	311.38	57.38
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	69.81	
For Cement Mortar Lining (CML), Add	22.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	40.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.89	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-15.57	
For Class 51, Add	31.77	
For Class 52, Add	68.61	
For Class 53, Add	123.92	
For Class 54, Add	176.90	
For Class 55, Add	203.22	
For Class 56, Add	229.07	

33 Utilities
33 10 Water Utilities
33 14 Water Utility Transmission and Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0017 LF 42", Class 50, Mechanical Joint Ductile Iron Pipe.....	381.34	60.73
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	89.93	
For Cement Mortar Lining (CML), Add	29.01	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	52.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.76	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-19.07	
For Class 51, Add	40.68	
For Class 52, Add	87.89	
For Class 53, Add	158.89	
For Class 54, Add	226.89	
For Class 55, Add	260.56	
For Class 56, Add	293.61	
33 14 13 13-0018 LF 48", Class 50, Mechanical Joint Ductile Iron Pipe.....	466.07	64.18
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	114.63	
For Cement Mortar Lining (CML), Add	36.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	66.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.73	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-23.30	
For Class 51, Add	51.60	
For Class 52, Add	111.52	
For Class 53, Add	201.77	
For Class 54, Add	288.20	
For Class 55, Add	330.85	
For Class 56, Add	372.73	
33 14 13 13-0019 Mechanical Joint Ductile Iron 90 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0020 EA 3" Mechanical Joint Ductile Iron 90 Degree Elbow	155.54	38.56
For Cement Mortar Lining (CML), Add	9.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	17.48	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.28	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0021 EA 4" Mechanical Joint Ductile Iron 90 Degree Elbow	175.49	46.08
For Cement Mortar Lining (CML), Add	10.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	19.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.93	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0022 EA 6" Mechanical Joint Ductile Iron 90 Degree Elbow	275.92	68.11
For Cement Mortar Lining (CML), Add	17.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	31.10	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0023 EA 8" Mechanical Joint Ductile Iron 90 Degree Elbow	373.78	80.78
For Cement Mortar Lining (CML), Add	25.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	45.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.85	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0024 EA 10" Mechanical Joint Ductile Iron 90 Degree Elbow	534.70	89.01
For Cement Mortar Lining (CML), Add	39.99	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	71.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	29.99	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0025 EA 12" Mechanical Joint Ductile Iron 90 Degree Elbow	696.53	104.42
For Cement Mortar Lining (CML), Add	53.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	96.91	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	40.38	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0026 EA 14" Mechanical Joint Ductile Iron 90 Degree Elbow	1,078.52	117.09
For Cement Mortar Lining (CML), Add	90.11	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	162.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	67.58	
Note: ANSI/AWWA C151/A21.51		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0027 EA 16" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,426.61 122.39 220.29 91.79	133.82
33 14 13 13-0028 EA 18" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,757.60 147.38 265.28 110.53	187.35
33 14 13 13-0029 EA 20" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,409.82 205.50 369.90 154.13	234.19
33 14 13 13-0030 EA 24" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,540.07 306.75 552.15 230.06	311.84
33 14 13 13-0031 EA 30" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,429.48 492.26 886.07 369.19	334.55
33 14 13 13-0032 EA 36" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,222.11 769.59 1,385.27 577.19	347.32
33 14 13 13-0033 EA 42" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,805.16 1,319.69 2,375.44 989.77	401.46
33 14 13 13-0034 EA 48" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,243.90 1,759.68 3,167.42 1,319.76	427.11
33 14 13 13-0035 Mechanical Joint Ductile Iron 45 Degree Elbow <small>(33 14 13 13-0002)</small>		
33 14 13 13-0036 EA 3" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	145.54 8.71 15.68 6.53	38.56
33 14 13 13-0037 EA 4" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	156.92 8.71 15.68 6.53	46.08
33 14 13 13-0038 EA 6" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	243.07 14.00 25.19 10.50	68.11
33 14 13 13-0039 EA 8" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	326.66 20.42 36.76 15.32	80.78

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0040 EA 10" Mechanical Joint Ductile Iron 45 Degree Elbow	433.31	89.01
For Cement Mortar Lining (CML), Add	29.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	53.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	22.39	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0041 EA 12" Mechanical Joint Ductile Iron 45 Degree Elbow	603.70	104.42
For Cement Mortar Lining (CML), Add	44.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	80.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	33.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0042 EA 14" Mechanical Joint Ductile Iron 45 Degree Elbow	878.59	117.09
For Cement Mortar Lining (CML), Add	70.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	126.21	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	52.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0043 EA 16" Mechanical Joint Ductile Iron 45 Degree Elbow	1,076.73	133.82
For Cement Mortar Lining (CML), Add	87.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	157.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	65.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0044 EA 18" Mechanical Joint Ductile Iron 45 Degree Elbow	1,537.67	187.35
For Cement Mortar Lining (CML), Add	125.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	225.69	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	94.04	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0045 EA 20" Mechanical Joint Ductile Iron 45 Degree Elbow	1,694.35	234.19
For Cement Mortar Lining (CML), Add	133.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	241.12	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	100.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0046 EA 24" Mechanical Joint Ductile Iron 45 Degree Elbow	2,507.56	311.84
For Cement Mortar Lining (CML), Add	203.50	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	366.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	152.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0047 EA 30" Mechanical Joint Ductile Iron 45 Degree Elbow	4,641.18	334.55
For Cement Mortar Lining (CML), Add	413.43	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	744.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	310.07	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0048 EA 36" Mechanical Joint Ductile Iron 45 Degree Elbow	6,571.25	347.32
For Cement Mortar Lining (CML), Add	604.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,088.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	453.38	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0049 EA 42" Mechanical Joint Ductile Iron 45 Degree Elbow	9,896.50	401.46
For Cement Mortar Lining (CML), Add	928.82	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,671.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	696.62	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0050 EA 48" Mechanical Joint Ductile Iron 45 Degree Elbow	12,818.63	427.11
For Cement Mortar Lining (CML), Add	1,217.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,190.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	912.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0051 Mechanical Joint Ductile Iron 22-1/2 Degree Elbow <small>(33 14 13 13-0002)</small>		
33 14 13 13-0052 EA 3" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	126.98	38.56
For Cement Mortar Lining (CML), Add	6.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	12.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.14	
Note: ANSI/AWWA C151/A21.51		



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	Water Utilities	33 10
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0053 EA 4" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	152.64 8.28 14.91 6.21	46.08
33 14 13 13-0054 EA 6" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	231.65 12.85 23.14 9.64	68.11
33 14 13 13-0055 EA 8" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	322.37 19.99 35.99 14.99	80.78
33 14 13 13-0056 EA 10" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	431.88 29.70 53.47 22.28	89.01
33 14 13 13-0057 EA 12" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	548.01 38.99 70.18 29.24	104.42
33 14 13 13-0058 EA 14" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	887.16 70.98 127.76 53.23	117.09
33 14 13 13-0059 EA 16" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,041.03 83.83 150.89 62.87	133.82
33 14 13 13-0060 EA 18" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,313.47 102.97 185.34 77.22	187.35
33 14 13 13-0061 EA 20" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,754.33 139.95 251.91 104.96	234.19
33 14 13 13-0062 EA 24" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,350.48 187.79 338.03 140.84	311.84
33 14 13 13-0063 EA 30" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,971.41 346.45 623.61 259.84	334.55
33 14 13 13-0064 EA 36" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,604.44 507.83 914.09 380.87	347.32

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0065 EA 42" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	8,275.63	401.46
For Cement Mortar Lining (CML), Add	766.74	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,380.12	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	575.05	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0066 EA 48" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	10,630.81	427.11
For Cement Mortar Lining (CML), Add	998.37	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,797.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	748.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0067 Mechanical Joint Ductile Iron 11-1/4 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0068 EA 3" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	126.98	38.56
For Cement Mortar Lining (CML), Add	6.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	12.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0069 EA 4" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	148.35	46.08
For Cement Mortar Lining (CML), Add	7.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	14.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0070 EA 6" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	235.93	68.11
For Cement Mortar Lining (CML), Add	13.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	23.91	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0071 EA 8" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	303.82	80.78
For Cement Mortar Lining (CML), Add	18.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	32.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.60	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0072 EA 10" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	429.02	89.01
For Cement Mortar Lining (CML), Add	29.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	52.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	22.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0073 EA 12" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	523.73	104.42
For Cement Mortar Lining (CML), Add	36.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	65.81	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0074 EA 14" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	987.12	117.09
For Cement Mortar Lining (CML), Add	80.97	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	145.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	60.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0075 EA 16" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,089.59	133.82
For Cement Mortar Lining (CML), Add	88.68	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	159.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	66.51	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0076 EA 18" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,584.80	187.35
For Cement Mortar Lining (CML), Add	130.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	234.18	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	97.57	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0077 EA 20" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,672.93	234.19
For Cement Mortar Lining (CML), Add	131.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	237.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	98.86	
Note: ANSI/AWWA C151/A21.51		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0078 EA 24" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,230.52 175.80 316.43 131.85	311.84
33 14 13 13-0079 EA 30" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,034.25 352.74 634.92 264.55	334.55
33 14 13 13-0080 EA 36" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,347.39 482.12 867.82 361.59	347.32
33 14 13 13-0081 EA 42" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,925.75 731.75 1,317.15 548.81	401.46
33 14 13 13-0082 EA 48" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,562.26 991.52 1,784.73 743.64	427.11
33 14 13 13-0083 Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow <small>(33 14 13 13-0002)</small>		
33 14 13 13-0084 EA 3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	159.82 10.14 18.25 7.60	38.56
33 14 13 13-0085 EA 4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	195.48 12.57 22.62 9.43	46.08
33 14 13 13-0086 EA 6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	311.62 20.85 37.53 15.64	68.11
33 14 13 13-0087 EA 8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	420.92 29.85 53.72 22.39	80.78
33 14 13 13-0088 EA 10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	603.25 46.84 84.31 35.13	89.01
33 14 13 13-0089 EA 12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	770.79 61.27 110.28 45.95	104.42

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0090 EA 14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	1,317.01	117.09
For Cement Mortar Lining (CML), Add	113.96	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	205.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	85.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0091 EA 16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	2,007.84	133.82
For Cement Mortar Lining (CML), Add	180.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	324.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	135.38	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0092 EA 18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	2,334.54	187.35
For Cement Mortar Lining (CML), Add	205.07	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	369.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	153.80	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0093 EA 20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	3,169.56	234.19
For Cement Mortar Lining (CML), Add	281.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	506.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	211.11	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0094 EA 24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	3,854.24	311.84
For Cement Mortar Lining (CML), Add	338.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	608.70	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	253.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0095 EA 30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	7,166.03	334.55
For Cement Mortar Lining (CML), Add	665.91	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,198.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	499.44	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0096 EA 36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	12,797.68	347.32
For Cement Mortar Lining (CML), Add	1,227.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,208.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	920.36	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0097 Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow <small>(33 14 13 13-0002)</small>		
33 14 13 13-0098 EA 3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	146.97	38.56
For Cement Mortar Lining (CML), Add	8.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	15.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0099 EA 4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	161.21	46.08
For Cement Mortar Lining (CML), Add	9.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	16.45	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0100 EA 6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	258.78	68.11
For Cement Mortar Lining (CML), Add	15.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	28.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.67	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0101 EA 8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	372.36	80.78
For Cement Mortar Lining (CML), Add	24.99	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	44.98	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.74	
Note: ANSI/AWWA C151/A21.51		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 14 13	13-0102	EA	10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	506.14 37.13 66.83 27.85	89.01
	33 14 13	13-0103	EA	12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	686.53 52.84 95.11 39.63	104.42
	33 14 13	13-0104	EA	14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,167.06 98.97 178.14 74.22	117.09
	33 14 13	13-0105	EA	16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,772.21 156.95 282.50 117.71	133.82
	33 14 13	13-0106	EA	18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,096.05 181.22 326.20 135.92	187.35
	33 14 13	13-0107	EA	20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,721.14 236.63 425.94 177.47	234.19
	33 14 13	13-0108	EA	24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,421.54 294.90 530.82 221.17	311.84
	33 14 13	13-0109	EA	30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,299.18 579.23 1,042.61 434.42	334.55
	33 14 13	13-0110	EA	36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	11,202.52 1,067.63 1,921.74 800.72	347.32
33 14 13	13-0111	Mechanical Joint Ductile Iron Tee <small>(33 14 13 13-0002)</small>				
	33 14 13	13-0112	EA	3" x 3" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	253.31 16.57 29.82 12.42	57.85
	33 14 13	13-0113	EA	4" x 3" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	263.63 16.57 29.82 12.42	64.66
	33 14 13	13-0114	EA	4" x 4" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	241.64 13.85 24.93 10.39	68.11

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0115 EA 6" x 3" Mechanical Joint Ductile Iron Tee.....	321.33	85.78
For Cement Mortar Lining (CML), Add	19.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	34.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.35	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0116 EA 6" x 4" Mechanical Joint Ductile Iron Tee.....	368.11	89.33
For Cement Mortar Lining (CML), Add	23.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	41.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.46	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0117 EA 6" x 6" Mechanical Joint Ductile Iron Tee.....	401.36	100.00
For Cement Mortar Lining (CML), Add	24.99	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	44.98	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0118 EA 8" x 4" Mechanical Joint Ductile Iron Tee.....	426.75	103.52
For Cement Mortar Lining (CML), Add	26.99	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	48.58	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.24	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0119 EA 8" x 6" Mechanical Joint Ductile Iron Tee.....	484.27	114.16
For Cement Mortar Lining (CML), Add	31.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	56.04	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.35	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0120 EA 8" x 8" Mechanical Joint Ductile Iron Tee.....	559.28	121.28
For Cement Mortar Lining (CML), Add	37.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	67.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	28.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0121 EA 10" x 4" Mechanical Joint Ductile Iron Tee.....	581.75	110.62
For Cement Mortar Lining (CML), Add	41.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	74.55	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	31.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0122 EA 10" x 6" Mechanical Joint Ductile Iron Tee.....	584.10	120.66
For Cement Mortar Lining (CML), Add	40.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	72.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0123 EA 10" x 8" Mechanical Joint Ductile Iron Tee.....	662.81	127.35
For Cement Mortar Lining (CML), Add	46.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	84.57	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.24	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0124 EA 10" x 10" Mechanical Joint Ductile Iron Tee.....	739.71	133.82
For Cement Mortar Lining (CML), Add	53.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	96.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	40.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0125 EA 12" x 4" Mechanical Joint Ductile Iron Tee.....	694.85	124.01
For Cement Mortar Lining (CML), Add	50.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	91.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	38.02	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0126 EA 12" x 6" Mechanical Joint Ductile Iron Tee.....	788.59	134.03
For Cement Mortar Lining (CML), Add	58.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	105.39	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	43.91	
Note: ANSI/AWWA C151/A21.51		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0127 EA 12" x 8" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	965.82 75.26 135.47 56.45	140.74
33 14 13 13-0128 EA 12" x 10" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,034.17 81.12 146.01 60.84	147.20
33 14 13 13-0129 EA 12" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	982.90 74.97 134.95 56.23	153.89
33 14 13 13-0130 EA 14" x 6" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,047.79 81.12 146.01 60.84	156.19
33 14 13 13-0131 EA 14" x 8" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,165.05 91.83 165.29 68.87	162.88
33 14 13 13-0132 EA 14" x 10" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,483.30 122.67 220.81 92.00	169.35
33 14 13 13-0133 EA 14" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,584.84 131.81 237.26 98.86	176.03
33 14 13 13-0134 EA 14" x 14" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,531.63 124.81 224.67 93.61	187.15
33 14 13 13-0135 EA 16" x 6" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,330.54 104.68 188.42 78.51	187.34
33 14 13 13-0136 EA 16" x 8" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,430.75 113.68 204.62 85.26	194.04
33 14 13 13-0137 EA 16" x 10" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,663.32 135.95 244.72 101.96	200.50
33 14 13 13-0138 EA 16" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,819.13 150.52 270.94 112.89	207.19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0139 EA 16" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,185.79 185.51 333.91 139.13	218.27
33 14 13 13-0140 EA 16" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,069.42 171.51 308.72 128.63	233.88
33 14 13 13-0141 EA 18" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,845.62 148.24 266.82 111.18	239.76
33 14 13 13-0142 EA 18" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,978.58 160.52 288.93 120.39	246.45
33 14 13 13-0143 EA 18" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,139.75 175.65 316.18 131.74	252.92
33 14 13 13-0144 EA 18" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,299.84 190.65 343.17 142.99	259.61
33 14 13 13-0145 EA 18" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,366.59 195.65 352.16 146.74	270.68
33 14 13 13-0146 EA 18" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,525.87 209.21 376.59 156.91	286.26
33 14 13 13-0147 EA 18" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,955.43 248.20 446.76 186.15	312.45
33 14 13 13-0148 EA 20" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,188.93 166.80 300.24 125.10	343.82
33 14 13 13-0149 EA 20" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,236.21 170.51 306.92 127.88	350.52
33 14 13 13-0150 EA 20" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,433.08 189.22 340.60 141.92	356.98



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0151 EA 20" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,628.88 207.79 374.01 155.84	363.67
33 14 13 13-0152 EA 20" x 14" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,661.36 209.36 376.84 157.02	374.73
33 14 13 13-0153 EA 20" x 16" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,702.09 211.07 379.93 158.30	390.32
33 14 13 13-0154 EA 20" x 18" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,387.29 275.62 496.11 206.71	416.53
33 14 13 13-0155 EA 20" x 20" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,997.72 228.78 411.80 171.58	468.57
33 14 13 13-0156 EA 24" x 6" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,684.56 200.65 361.16 150.48	447.56
33 14 13 13-0157 EA 24" x 8" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,720.41 203.22 365.79 152.41	454.89
33 14 13 13-0158 EA 24" x 10" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,992.97 229.49 413.09 172.12	460.72
33 14 13 13-0159 EA 24" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,067.37 235.92 424.65 176.94	467.41
33 14 13 13-0160 EA 24" x 14" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,446.88 272.19 489.95 204.14	478.48
33 14 13 13-0161 EA 24" x 16" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,720.40 297.18 534.93 222.89	494.05
33 14 13 13-0162 EA 24" x 18" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,222.81 343.45 618.22 257.59	520.27

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0163 EA 24" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,680.08 381.30 686.33 285.97	572.30
33 14 13 13-0164 EA 24" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,341.66 339.60 611.27 254.70	624.19
33 14 13 13-0165 EA 30" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,631.48 383.15 689.68 287.37	527.97
33 14 13 13-0166 EA 30" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,876.91 406.72 732.09 305.04	534.42
33 14 13 13-0167 EA 30" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,122.68 430.28 774.50 322.71	541.12
33 14 13 13-0168 EA 30" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,473.64 463.70 834.66 347.77	552.20
33 14 13 13-0169 EA 30" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,854.26 499.40 898.92 374.55	734.69
33 14 13 13-0170 EA 30" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,013.92 511.40 920.51 383.55	593.98
33 14 13 13-0171 EA 30" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,259.84 528.10 950.59 396.08	646.01
33 14 13 13-0172 EA 30" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,579.78 552.24 994.03 414.18	697.88
33 14 13 13-0173 EA 30" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,232.22 711.90 1,281.42 533.92	734.69
33 14 13 13-0174 EA 30" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,838.41 404.86 728.75 303.65	521.27



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0175 EA 36" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,654.33 476.69 858.05 357.52	585.68
33 14 13 13-0176 EA 36" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,283.92 538.67 969.61 404.00	592.15
33 14 13 13-0177 EA 36" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,625.36 571.80 1,029.25 428.85	598.85
33 14 13 13-0178 EA 36" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,872.07 594.80 1,070.63 446.10	609.91
33 14 13 13-0179 EA 36" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,122.74 617.50 1,111.50 463.13	625.50
33 14 13 13-0180 EA 36" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,602.30 661.49 1,190.68 496.12	651.70
33 14 13 13-0181 EA 36" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,122.39 705.61 1,270.11 529.21	703.72
33 14 13 13-0182 EA 36" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,983.57 783.87 1,410.97 587.90	755.59
33 14 13 13-0183 EA 36" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,926.27 872.56 1,570.60 654.42	821.37
33 14 13 13-0184 EA 36" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,576.58 1,033.22 1,859.79 774.91	821.37
33 14 13 13-0185 EA 42" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,974.94 1,201.87 2,163.37 901.40	631.10
33 14 13 13-0186 EA 42" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,234.49 1,226.15 2,207.07 919.61	642.18

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0187 EA 42" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,701.89 1,370.53 2,466.95 1,027.90	657.75
33 14 13 13-0188 EA 42" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,756.23 1,271.99 2,289.58 953.99	683.96
33 14 13 13-0189 EA 42" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,835.05 1,271.99 2,289.58 953.99	735.99
33 14 13 13-0190 EA 42" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,146.42 1,295.27 2,331.48 971.45	787.86
33 14 13 13-0191 EA 42" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,138.40 1,588.88 2,859.99 1,191.66	824.73
33 14 13 13-0192 EA 42" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,849.03 1,655.57 2,980.03 1,241.68	853.58
33 14 13 13-0193 EA 42" x 42" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,877.42 1,755.97 3,160.74 1,316.98	869.73
33 14 13 13-0194 EA 48" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,279.22 1,424.51 2,564.12 1,068.38	682.52
33 14 13 13-0195 EA 48" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,553.05 1,450.22 2,610.39 1,087.66	693.59
33 14 13 13-0196 EA 48" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,940.81 1,486.63 2,675.94 1,114.97	709.17
33 14 13 13-0197 EA 48" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,343.26 1,522.91 2,741.23 1,142.18	735.38
33 14 13 13-0198 EA 48" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,786.25 1,559.32 2,806.78 1,169.49	787.41



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0199	EA 48" x 24" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	16,913.39 1,564.18 2,815.52 1,173.13	839.27	
33 14 13 13-0200	EA 48" x 30" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	20,566.58 1,923.91 3,463.04 1,442.93	876.13	
33 14 13 13-0201	EA 48" x 36" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	23,437.90 2,206.67 3,972.00 1,655.00	904.99	
33 14 13 13-0202	EA 48" x 42" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	24,581.96 2,318.63 4,173.54 1,738.97	921.13	
33 14 13 13-0203	EA 48" x 48" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	24,993.64 2,355.90 4,240.63 1,766.93	946.87	
33 14 13 13-0204	Mechanical Joint Ductile Iron Wye (Laterals) <small>(33 14 13 13-0002)</small>			
33 14 13 13-0205	EA 4" x 3" Mechanical Joint Ductile Iron Wye (Lateral) <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	219.36 12.14 21.85 9.10	64.66	
33 14 13 13-0206	EA 4" x 4" Mechanical Joint Ductile Iron Wye (Lateral) <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	330.18 22.71 40.87 17.03	68.06	
33 14 13 13-0207	EA 6" x 3" Mechanical Joint Ductile Iron Wye (Lateral) <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	321.33 19.14 34.44 14.35	85.78	
33 14 13 13-0208	EA 6" x 4" Mechanical Joint Ductile Iron Wye (Lateral) <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	369.54 23.42 42.16 17.57	89.33	
33 14 13 13-0209	EA 6" x 6" Mechanical Joint Ductile Iron Wye (Lateral) <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	494.19 34.27 61.69 25.71	99.95	
33 14 13 13-0210	EA 8" x 4" Mechanical Joint Ductile Iron Wye (Lateral) <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	629.53 47.27 85.08 35.45	103.52	
33 14 13 13-0211	EA 8" x 6" Mechanical Joint Ductile Iron Wye (Lateral) <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	568.53 39.56 71.20 29.67	114.16	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0212 EA 8" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	683.53	121.24
For Cement Mortar Lining (CML), Add	49.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	89.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.49	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0213 EA 10" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	963.05	110.62
For Cement Mortar Lining (CML), Add	79.54	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	143.18	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	59.66	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0214 EA 10" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,019.66	120.66
For Cement Mortar Lining (CML), Add	83.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	150.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	62.76	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0215 EA 10" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	1,169.78	127.35
For Cement Mortar Lining (CML), Add	97.68	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	175.83	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	73.26	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0216 EA 10" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	1,315.22	133.82
For Cement Mortar Lining (CML), Add	111.25	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	200.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	83.44	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0217 EA 12" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	1,226.09	124.01
For Cement Mortar Lining (CML), Add	103.82	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	186.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	77.87	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0218 EA 12" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,385.53	134.03
For Cement Mortar Lining (CML), Add	118.25	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	212.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	88.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0219 EA 12" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	1,665.58	140.74
For Cement Mortar Lining (CML), Add	145.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	261.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	108.93	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0220 EA 12" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	1,713.94	147.20
For Cement Mortar Lining (CML), Add	149.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	268.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	111.82	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0221 EA 12" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	1,556.99	153.88
For Cement Mortar Lining (CML), Add	132.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	238.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	99.29	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0222 EA 14" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,830.38	156.19
For Cement Mortar Lining (CML), Add	159.37	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	286.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	119.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0223 EA 14" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,091.87	162.88
For Cement Mortar Lining (CML), Add	184.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	332.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	138.38	
Note: ANSI/AWWA C151/A21.51		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0224	EA			14" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,722.87 246.63 443.93 184.97	169.35
33 14 13 13-0225	EA			14" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,915.81 264.91 476.84 198.68	176.03
33 14 13 13-0226	EA			14" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,852.61 256.91 462.44 192.68	187.10
33 14 13 13-0227	EA			16" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,886.16 160.23 288.42 120.17	187.34
33 14 13 13-0228	EA			16" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,073.39 177.94 320.29 133.45	194.04
33 14 13 13-0229	EA			16" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,438.77 213.50 384.30 160.12	200.50
33 14 13 13-0230	EA			16" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,724.53 241.06 433.91 180.80	207.19
33 14 13 13-0231	EA			16" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,401.08 307.04 552.67 230.28	218.27
33 14 13 13-0232	EA			16" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,284.73 293.04 527.48 219.78	233.84
33 14 13 13-0233	EA			18" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,958.09 259.48 467.07 194.61	239.76
33 14 13 13-0234	EA			18" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,182.45 280.90 505.63 210.68	246.45
33 14 13 13-0235	EA			18" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,399.31 301.61 542.90 226.21	252.92

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0236 EA 18" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	3,635.09	259.61
For Cement Mortar Lining (CML), Add	324.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	583.51	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	243.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0237 EA 18" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	3,677.57	270.68
For Cement Mortar Lining (CML), Add	326.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	588.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	245.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0238 EA 18" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	3,718.31	286.26
For Cement Mortar Lining (CML), Add	328.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	591.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	246.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0239 EA 18" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	3,412.43	312.47
For Cement Mortar Lining (CML), Add	293.90	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	529.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	220.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0240 EA 20" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	3,522.75	343.82
For Cement Mortar Lining (CML), Add	300.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	540.33	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	225.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0241 EA 20" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	3,600.02	350.52
For Cement Mortar Lining (CML), Add	306.89	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	552.41	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	230.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0242 EA 20" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	3,946.84	356.98
For Cement Mortar Lining (CML), Add	340.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	613.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	255.45	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0243 EA 20" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	4,291.16	363.67
For Cement Mortar Lining (CML), Add	374.01	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	673.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	280.51	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0244 EA 20" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	4,336.49	374.73
For Cement Mortar Lining (CML), Add	376.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	678.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	282.65	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0245 EA 20" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	4,390.08	390.32
For Cement Mortar Lining (CML), Add	379.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	683.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	284.90	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0246 EA 20" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	5,078.14	416.53
For Cement Mortar Lining (CML), Add	444.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	800.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	333.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0247 EA 20" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	4,828.52	468.56
For Cement Mortar Lining (CML), Add	411.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	741.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	308.89	
Note: ANSI/AWWA C151/A21.51		



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	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0248 EA 24" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,289.72 361.16 650.09 270.87	447.56
33 14 13 13-0249 EA 24" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,345.56 365.73 658.32 274.30	454.25
33 14 13 13-0250 EA 24" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,828.06 413.00 743.40 309.75	460.72
33 14 13 13-0251 EA 24" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,049.54 434.14 781.44 325.60	467.41
33 14 13 13-0252 EA 24" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,814.64 508.97 916.14 381.73	478.48
33 14 13 13-0253 EA 24" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,450.89 570.23 1,026.42 427.67	494.05
33 14 13 13-0254 EA 24" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,210.36 642.21 1,155.97 481.66	520.27
33 14 13 13-0255 EA 24" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,921.83 705.47 1,269.85 529.10	572.30
33 14 13 13-0256 EA 24" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,057.88 611.22 1,100.19 458.41	624.16
33 14 13 13-0257 EA 30" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,757.06 796.73 1,434.11 597.54	521.27
33 14 13 13-0258 EA 30" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,803.98 900.40 1,620.73 675.30	527.97
33 14 13 13-0259 EA 30" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,367.88 955.81 1,720.47 716.86	534.42

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0260 EA 30" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	10,932.11	541.12
For Cement Mortar Lining (CML), Add	1,011.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,820.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	758.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0261 EA 30" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	11,732.91	552.20
For Cement Mortar Lining (CML), Add	1,089.63	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,961.33	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	817.22	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0262 EA 30" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	12,596.22	567.77
For Cement Mortar Lining (CML), Add	1,173.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,112.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	880.20	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0263 EA 30" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	12,917.26	593.98
For Cement Mortar Lining (CML), Add	1,201.73	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,163.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	901.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0264 EA 30" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	13,388.82	646.01
For Cement Mortar Lining (CML), Add	1,241.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,233.80	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	930.75	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0265 EA 30" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	14,034.35	697.88
For Cement Mortar Lining (CML), Add	1,297.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,335.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	973.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0266 EA 30" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	15,205.53	734.74
For Cement Mortar Lining (CML), Add	1,409.23	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,536.61	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,056.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0267 EA 36" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	16,631.92	598.85
For Cement Mortar Lining (CML), Add	1,572.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,830.43	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,179.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0268 EA 36" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	17,281.35	609.91
For Cement Mortar Lining (CML), Add	1,635.72	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,944.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,226.79	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0269 EA 36" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	17,929.02	625.50
For Cement Mortar Lining (CML), Add	1,698.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,056.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,273.60	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0270 EA 36" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	19,178.31	651.70
For Cement Mortar Lining (CML), Add	1,819.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,274.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,364.32	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0271 EA 36" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	20,471.00	703.72
For Cement Mortar Lining (CML), Add	1,940.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,492.86	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,455.36	
Note: ANSI/AWWA C151/A21.51		



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0272 EA 36" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,701.71 2,155.69 3,880.24 1,616.77	755.59
33 14 13 13-0273 EA 36" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	25,418.08 2,421.74 4,359.13 1,816.30	792.46
33 14 13 13-0274 EA 36" x 36" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	30,304.42 2,906.00 5,230.80 2,179.50	821.31
33 14 13 13-0275 EA 42" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	26,669.20 2,555.41 4,599.73 1,916.55	735.99
33 14 13 13-0276 EA 42" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	27,343.30 2,614.96 4,706.92 1,961.22	787.86
33 14 13 13-0277 EA 42" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	29,204.25 2,795.47 5,031.84 2,096.60	824.73
33 14 13 13-0278 EA 42" x 36" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	33,375.12 3,208.18 5,774.73 2,406.14	853.58
33 14 13 13-0279 EA 42" x 42" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	39,331.81 3,801.41 6,842.53 2,851.05	869.72
33 14 13 13-0280 EA 48" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	26,324.39 2,513.14 4,523.64 1,884.85	787.41
33 14 13 13-0281 EA 48" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	29,801.81 2,853.02 5,135.43 2,139.76	839.27
33 14 13 13-0282 EA 48" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	31,758.45 3,043.10 5,477.57 2,282.32	876.13
33 14 13 13-0283 EA 48" x 36" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	36,179.23 3,480.80 6,265.44 2,610.60	904.99

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0284 EA 48" x 42" Mechanical Joint Ductile Iron Wye (Lateral)	47,242.73	921.13
For Cement Mortar Lining (CML), Add	4,584.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	8,252.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3,438.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0285 EA 48" x 48" Mechanical Joint Ductile Iron Wye (Lateral)	51,851.53	946.83
For Cement Mortar Lining (CML), Add	5,041.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	9,075.05	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3,781.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0286 Mechanical Joint Ductile Iron Cross (33 14 13 13-0002)		
33 14 13 13-0287 EA 3" x 3" Mechanical Joint Ductile Iron Cross	301.09	77.13
For Cement Mortar Lining (CML), Add	18.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	33.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.82	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0288 EA 4" x 3" Mechanical Joint Ductile Iron Cross	362.81	83.94
For Cement Mortar Lining (CML), Add	23.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	42.41	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.67	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0289 EA 4" x 4" Mechanical Joint Ductile Iron Cross	427.38	85.07
For Cement Mortar Lining (CML), Add	29.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	53.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	22.39	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0290 EA 6" x 3" Mechanical Joint Ductile Iron Cross	510.72	105.16
For Cement Mortar Lining (CML), Add	35.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	63.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	26.35	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0291 EA 6" x 4" Mechanical Joint Ductile Iron Cross	497.47	113.44
For Cement Mortar Lining (CML), Add	32.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	58.61	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0292 EA 6" x 6" Mechanical Joint Ductile Iron Cross	580.42	141.79
For Cement Mortar Lining (CML), Add	36.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	65.81	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0293 EA 8" x 4" Mechanical Joint Ductile Iron Cross	512.17	124.08
For Cement Mortar Lining (CML), Add	32.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	58.35	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.31	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0294 EA 8" x 6" Mechanical Joint Ductile Iron Cross	609.39	152.44
For Cement Mortar Lining (CML), Add	37.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	68.12	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	28.38	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0295 EA 8" x 8" Mechanical Joint Ductile Iron Cross	645.52	163.05
For Cement Mortar Lining (CML), Add	39.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	71.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	29.88	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0296 EA 10" x 4" Mechanical Joint Ductile Iron Cross.....	618.73	129.38
For Cement Mortar Lining (CML), Add	42.27	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	76.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	31.70	
Note: ANSI/AWWA C151/A21.51		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0297 EA 10" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	710.70 47.41 85.34 35.56	156.14
33 14 13 13-0298 EA 10" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	840.17 58.84 105.91 44.13	166.19
33 14 13 13-0299 EA 10" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	908.74 63.84 114.90 47.88	178.42
33 14 13 13-0300 EA 12 x 4" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	747.00 53.41 96.14 40.06	140.51
33 14 13 13-0301 EA 12" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	868.94 61.55 110.79 46.16	167.28
33 14 13 13-0302 EA 12" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,239.75 97.11 174.80 72.83	177.32
33 14 13 13-0303 EA 12" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,258.35 97.11 174.80 72.83	189.60
33 14 13 13-0304 EA 12" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,425.18 112.10 201.79 84.08	200.73
33 14 13 13-0305 EA 14" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,455.52 117.67 211.81 88.26	184.00
33 14 13 13-0306 EA 14" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,707.80 141.38 254.48 106.04	194.04
33 14 13 13-0307 EA 14" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,754.96 144.24 259.62 108.18	206.31
33 14 13 13-0308 EA 14" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,851.80 152.23 274.02 114.17	217.45

33 Utilities

33 10 Water Utilities

33 14 Water Utility Transmission and Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0309 EA 14" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,047.08 169.23 304.61 126.92	234.19
33 14 13 13-0310 EA 16" x 6" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,663.78 134.95 242.92 101.22	207.40
33 14 13 13-0311 EA 16" x 8" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,888.92 155.95 280.70 116.96	217.45
33 14 13 13-0312 EA 16" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,253.95 190.59 343.06 142.94	229.72
33 14 13 13-0313 EA 16" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,508.48 214.36 385.84 160.77	240.85
33 14 13 13-0314 EA 16" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,022.22 263.20 473.75 197.40	257.57
33 14 13 13-0315 EA 16" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,533.23 310.75 559.35 233.06	281.03
33 14 13 13-0316 EA 18" x 6" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,729.33 235.78 424.40 176.83	245.24
33 14 13 13-0317 EA 18" x 8" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,884.51 249.77 449.59 187.33	255.29
33 14 13 13-0318 EA 18" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,020.20 261.48 470.67 196.11	267.56
33 14 13 13-0319 EA 18" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,271.28 284.90 512.82 213.68	278.70
33 14 13 13-0320 EA 18" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,809.29 336.17 605.11 252.13	295.42



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0321 EA 18" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,056.12 357.31 643.15 267.98	318.81
33 14 13 13-0322 EA 18" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,253.41 371.30 668.34 278.48	356.65
33 14 13 13-0323 EA 20" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,430.92 296.47 533.64 222.35	307.71
33 14 13 13-0324 EA 20" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,587.52 310.61 559.09 232.96	317.75
33 14 13 13-0325 EA 20" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,698.94 319.89 575.80 239.92	330.03
33 14 13 13-0326 EA 20" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,948.59 343.17 617.70 257.38	341.16
33 14 13 13-0327 EA 20" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,021.05 347.88 626.18 260.91	357.89
33 14 13 13-0328 EA 20" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,850.52 427.28 769.11 320.46	381.29
33 14 13 13-0329 EA 20" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,047.81 441.28 794.30 330.96	419.13
33 14 13 13-0330 EA 20" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,469.49 473.98 853.16 355.49	481.55
33 14 13 13-0331 EA 24" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,668.96 408.57 735.43 306.43	384.92
33 14 13 13-0332 EA 24" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,778.73 418.00 752.40 313.50	394.97

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0333 EA 24" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,959.82 434.28 781.70 325.71	407.24
33 14 13 13-0334 EA 24" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,116.65 448.27 806.89 336.21	418.38
33 14 13 13-0335 EA 24" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,211.96 455.27 819.49 341.45	435.09
33 14 13 13-0336 EA 24" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,411.64 471.70 849.05 353.77	458.50
33 14 13 13-0337 EA 24" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,126.99 637.50 1,147.49 478.12	496.34
33 14 13 13-0338 EA 24" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,524.38 667.77 1,201.99 500.83	558.81
33 14 13 13-0339 EA 24" x 24" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,295.43 733.18 1,319.72 549.88	636.05
33 14 13 13-0340 EA 30" x 8" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,874.12 809.86 1,457.76 607.40	511.81
33 14 13 13-0341 EA 30" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,051.23 825.72 1,486.29 619.29	524.09
33 14 13 13-0342 EA 30" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,225.19 841.43 1,514.57 631.07	535.22
33 14 13 13-0343 EA 30" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,431.89 859.56 1,547.21 644.67	551.94
33 14 13 13-0344 EA 30" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,670.13 879.84 1,583.71 659.88	575.35



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0345 EA 30" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,953.11 902.40 1,624.33 676.80	613.19
33 14 13 13-0346 EA 30" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,317.66 929.39 1,672.91 697.05	675.66
33 14 13 13-0347 EA 30" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,235.12 1,209.44 2,176.99 907.08	752.87
33 14 13 13-0348 EA 30" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,220.11 1,390.24 2,502.42 1,042.68	869.73
33 14 13 13-0349 EA 36" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,346.78 1,150.60 2,071.09 862.95	554.89
33 14 13 13-0350 EA 36" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,522.45 1,166.31 2,099.36 874.73	567.15
33 14 13 13-0351 EA 36" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,673.57 1,179.74 2,123.53 884.80	578.30
33 14 13 13-0352 EA 36" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,855.99 1,195.45 2,151.80 896.58	595.01
33 14 13 13-0353 EA 36" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,071.39 1,213.44 2,184.19 910.08	618.42
33 14 13 13-0354 EA 36" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,330.09 1,233.58 2,220.44 925.18	656.26
33 14 13 13-0355 EA 36" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,671.79 1,258.28 2,264.91 943.71	718.72
33 14 13 13-0356 EA 36" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,260.05 1,305.41 2,349.73 979.06	795.95

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0357 EA 36" x 30" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	19,169.75 1,778.67 3,201.61 1,334.01	912.78
33 14 13 13-0358 EA 36" x 36" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	21,051.51 1,960.33 3,528.59 1,470.24	955.89
33 14 13 13-0359 EA 42" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,538.56 1,562.46 2,812.43 1,171.85	603.19
33 14 13 13-0360 EA 42" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,685.65 1,774.64 3,194.35 1,330.98	619.92
33 14 13 13-0361 EA 42" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,920.67 1,594.59 2,870.27 1,195.95	643.32
33 14 13 13-0362 EA 42" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,150.80 1,611.87 2,901.37 1,208.91	681.16
33 14 13 13-0363 EA 42" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,481.08 1,635.44 2,943.79 1,226.58	743.64
33 14 13 13-0364 EA 42" x 24" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,027.92 1,678.42 3,021.16 1,258.82	820.84
33 14 13 13-0365 EA 42" x 30" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,054.71 2,163.40 3,894.12 1,622.55	937.69
33 14 13 13-0366 EA 42" x 36" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	30,053.30 2,856.73 5,142.12 2,142.55	980.75
33 14 13 13-0367 EA 42" x 42" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	32,193.17 3,066.95 5,520.50 2,300.21	1,005.68
33 14 13 13-0368 EA 48" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,333.56 2,126.98 3,828.57 1,595.24	702.07



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0369 EA 48" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,487.43 2,139.84 3,851.70 1,604.88	718.79
33 14 13 13-0370 EA 48" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,694.26 2,156.97 3,882.55 1,617.73	742.20
33 14 13 13-0371 EA 48" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,922.96 2,174.11 3,913.40 1,630.58	780.04
33 14 13 13-0372 EA 48" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,233.26 2,195.67 3,952.21 1,646.75	842.50
33 14 13 13-0373 EA 48" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,757.25 2,236.37 4,025.47 1,677.28	919.72
33 14 13 13-0374 EA 48" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	25,158.16 2,358.76 4,245.77 1,769.07	1,036.56
33 14 13 13-0375 EA 48" x 36" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	30,781.50 2,914.57 5,246.22 2,185.93	1,079.63
33 14 13 13-0376 EA 48" x 42" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	39,511.95 3,783.84 6,810.91 2,837.88	1,104.54
33 14 13 13-0377 EA 48" x 48" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	42,086.65 4,026.33 7,247.39 3,019.75	1,203.37
33 14 13 13-0378 Mechanical Joint x Mechanical Joint Ductile Iron Reducers <small>(33 14 13 13-0002)</small>		
33 14 13 13-0379 EA 4" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	146.42 8.28 14.91 6.21	41.96
33 14 13 13-0380 EA 6" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	171.10 9.14 16.45 6.86	52.60
33 14 13 13-0381 EA 6" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	184.82 10.00 17.99 7.50	56.00

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0382 EA 8" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	232.81	63.11
For Cement Mortar Lining (CML), Add	13.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	24.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.28	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0383 EA 8" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	257.38	73.73
For Cement Mortar Lining (CML), Add	14.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	26.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0384 EA 10" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	278.54	66.02
For Cement Mortar Lining (CML), Add	17.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	32.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.39	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0385 EA 10" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	303.74	76.05
For Cement Mortar Lining (CML), Add	18.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	33.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0386 EA 10" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	332.44	82.74
For Cement Mortar Lining (CML), Add	20.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	37.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	15.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0387 EA 12" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	335.80	72.71
For Cement Mortar Lining (CML), Add	22.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	40.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0388 EA 12" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	373.86	82.74
For Cement Mortar Lining (CML), Add	24.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	44.73	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0389 EA 12" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	391.14	89.43
For Cement Mortar Lining (CML), Add	25.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	46.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0390 EA 12" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	428.07	95.90
For Cement Mortar Lining (CML), Add	28.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	50.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0391 EA 14" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	693.39	93.81
For Cement Mortar Lining (CML), Add	55.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	99.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	41.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0392 EA 14" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	674.97	100.52
For Cement Mortar Lining (CML), Add	52.27	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	94.08	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	39.20	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0393 EA 14" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	607.65	106.97
For Cement Mortar Lining (CML), Add	44.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	80.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	33.42	
Note: ANSI/AWWA C151/A21.51		



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	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0394 EA 14" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	639.20	113.66
For Cement Mortar Lining (CML), Add	46.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	84.06	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.02	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0395 EA 16" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	814.09	109.39
For Cement Mortar Lining (CML), Add	64.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	116.70	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0396 EA 16" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	799.96	116.09
For Cement Mortar Lining (CML), Add	62.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	112.33	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	46.81	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0397 EA 16" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	786.90	122.55
For Cement Mortar Lining (CML), Add	60.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	108.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	45.09	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0398 EA 16" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	852.74	129.24
For Cement Mortar Lining (CML), Add	65.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	118.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	49.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0399 EA 16" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	948.06	140.32
For Cement Mortar Lining (CML), Add	73.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	132.38	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	55.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0400 EA 18" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,016.75	142.29
For Cement Mortar Lining (CML), Add	80.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	144.21	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	60.09	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0401 EA 18" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,137.93	148.77
For Cement Mortar Lining (CML), Add	91.25	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	164.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	68.44	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0402 EA 18" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,099.52	155.45
For Cement Mortar Lining (CML), Add	86.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	155.52	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	64.80	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0403 EA 18" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,166.28	166.52
For Cement Mortar Lining (CML), Add	91.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	164.51	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	68.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0404 EA 18" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,229.87	182.10
For Cement Mortar Lining (CML), Add	95.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	171.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	71.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0405 EA 20" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,434.05	194.33
For Cement Mortar Lining (CML), Add	113.96	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	205.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	85.47	
Note: ANSI/AWWA C151/A21.51		

33 Utilities

33 10 Water Utilities

33 14 Water Utility Transmission and Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0406 EA 20" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,378.15 107.39 193.31 80.54	200.79
33 14 13 13-0407 EA 20" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,275.46 96.11 173.00 72.08	207.48
33 14 13 13-0408 EA 20" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,285.10 95.40 171.71 71.55	218.55
33 14 13 13-0409 EA 20" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,328.69 97.40 175.31 73.05	234.13
33 14 13 13-0410 EA 20" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,589.75 119.53 215.15 89.65	260.34
33 14 13 13-0411 EA 24" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,865.30 147.24 265.02 110.43	259.35
33 14 13 13-0412 EA 24" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,919.21 150.95 271.71 113.21	270.43
33 14 13 13-0413 EA 24" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,962.80 152.95 275.30 114.71	286.00
33 14 13 13-0414 EA 24" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,935.39 146.24 263.22 109.68	312.20
33 14 13 13-0415 EA 24" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,362.68 181.08 325.95 135.81	364.24
33 14 13 13-0416 EA 30" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,809.47 332.03 597.65 249.02	322.86
33 14 13 13-0417 EA 30" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,980.56 345.17 621.30 258.88	349.06



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0418	EA			30" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,868.03 326.03 586.86 244.52	401.09
33 14 13 13-0419	EA			30" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,790.97 310.47 558.84 232.85	452.97
33 14 13 13-0420	EA			36" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,702.57 505.11 909.20 378.83	429.96
33 14 13 13-0421	EA			36" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,740.09 401.01 721.81 300.75	481.82
33 14 13 13-0422	EA			36" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,147.24 436.14 785.04 327.10	518.68
33 14 13 13-0423	EA			42" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	7,377.86 682.05 1,227.69 511.54	367.86
33 14 13 13-0424	EA			42" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	7,354.73 675.77 1,216.38 506.83	394.06
33 14 13 13-0425	EA			42" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	7,410.72 673.48 1,212.27 505.11	446.08
33 14 13 13-0426	EA			42" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	8,270.46 751.60 1,352.88 563.70	497.96
33 14 13 13-0427	EA			42" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,843.97 603.36 1,086.06 452.52	534.82
33 14 13 13-0428	EA			42" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	7,164.74 631.07 1,135.92 473.30	563.67
33 14 13 13-0429	EA			48" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	9,921.66 932.54 1,678.56 699.40	393.56

33 Utilities

33 10 Water Utilities

33 14 Water Utility Transmission and Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0430	EA		48" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,627.20	419.77
			For Cement Mortar Lining (CML), Add	899.12	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	1,618.41	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	674.34	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0431	EA		48" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,191.92	471.80
			For Cement Mortar Lining (CML), Add	847.71	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	1,525.87	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	635.78	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0432	EA		48" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,486.15	523.66
			For Cement Mortar Lining (CML), Add	869.27	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	1,564.69	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	651.95	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0433	EA		48" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,322.82	560.52
			For Cement Mortar Lining (CML), Add	1,047.35	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	1,885.24	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	785.52	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0434	EA		48" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,937.03	589.39
			For Cement Mortar Lining (CML), Add	904.40	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	1,627.93	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	678.30	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0435	EA		48" x 42" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	10,901.15	605.51
			For Cement Mortar Lining (CML), Add	998.37	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	1,797.07	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	748.78	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0436			Mechanical Joint Ductile Iron Caps (33 14 13 13-0002)		
33 14 13 13-0437	EA		3" Mechanical Joint Ductile Iron Caps.....	171.40	88.62
			For Cement Mortar Lining (CML), Add	3.71	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	6.68	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.78	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0438	EA		4" Mechanical Joint Ductile Iron Caps.....	196.11	103.98
			For Cement Mortar Lining (CML), Add	3.86	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	6.94	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.89	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0439	EA		6" Mechanical Joint Ductile Iron Caps.....	265.48	129.97
			For Cement Mortar Lining (CML), Add	6.86	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	12.34	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.14	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0440	EA		8" Mechanical Joint Ductile Iron Caps.....	339.31	148.56
			For Cement Mortar Lining (CML), Add	11.43	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	20.57	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.57	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0441	EA		10" Mechanical Joint Ductile Iron Caps.....	482.17	223.03
			For Cement Mortar Lining (CML), Add	14.42	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	25.96	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.82	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0442	EA		12" Mechanical Joint Ductile Iron Caps.....	584.28	243.31
			For Cement Mortar Lining (CML), Add	21.56	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	38.82	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.17	
			Note: ANSI/AWWA C151/A21.51		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0443	EA			14" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	732.55 32.70 58.87 24.53	267.64
33 14 13 13-0444	EA			16" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	889.00 43.84 78.92 32.88	297.34
33 14 13 13-0445	EA			18" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,042.42 53.55 96.40 40.16	334.55
33 14 13 13-0446	EA			20" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,271.92 69.26 124.67 51.95	382.30
33 14 13 13-0447	EA			24" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,626.96 95.11 171.20 71.33	446.06
33 14 13 13-0448	EA			30" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,985.99 217.50 391.49 163.12	535.28
33 14 13 13-0449	EA			36" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,969.57 395.58 712.04 296.68	669.10
33 14 13 13-0450	EA			42" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,215.90 599.94 1,079.88 449.95	802.92
33 14 13 13-0451	EA			48" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,580.66 722.89 1,301.21 542.17	892.13
33 14 13 13-0452				Mechanical Joint Ductile Iron Plug <small>(33 14 13 13-0002)</small>		
33 14 13 13-0453	EA			3" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	177.11 4.28 7.71 3.21	88.62
33 14 13 13-0454	EA			4" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	204.68 4.71 8.48 3.53	103.98
33 14 13 13-0455	EA			6" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	288.33 9.14 16.45 6.86	129.97

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0456 EA 8" Mechanical Joint Ductile Iron Plug.....	362.16	148.56
For Cement Mortar Lining (CML), Add	13.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	24.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.28	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0457 EA 10" Mechanical Joint Ductile Iron Plug.....	574.99	223.03
For Cement Mortar Lining (CML), Add	23.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	42.67	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0458 EA 12" Mechanical Joint Ductile Iron Plug.....	609.99	243.31
For Cement Mortar Lining (CML), Add	24.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	43.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0459 EA 14" Mechanical Joint Ductile Iron Plug.....	896.78	267.64
For Cement Mortar Lining (CML), Add	49.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	88.43	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	36.84	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0460 EA 16" Mechanical Joint Ductile Iron Plug.....	513.42	297.34
For Cement Mortar Lining (CML), Add	6.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	11.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.71	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0461 EA 18" Mechanical Joint Ductile Iron Plug.....	1,286.62	334.55
For Cement Mortar Lining (CML), Add	77.97	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	140.35	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	58.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0462 EA 20" Mechanical Joint Ductile Iron Plug.....	1,604.67	382.30
For Cement Mortar Lining (CML), Add	102.54	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	184.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	76.90	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0463 EA 24" Mechanical Joint Ductile Iron Plug.....	2,098.23	446.06
For Cement Mortar Lining (CML), Add	142.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	256.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	106.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0464 EA 30" Mechanical Joint Ductile Iron Plug.....	3,634.33	535.28
For Cement Mortar Lining (CML), Add	282.33	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	508.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	211.75	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0465 EA 36" Mechanical Joint Ductile Iron Plug.....	5,375.15	669.10
For Cement Mortar Lining (CML), Add	436.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	785.04	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	327.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0466 EA 42" Mechanical Joint Ductile Iron Plug.....	7,267.32	802.92
For Cement Mortar Lining (CML), Add	605.08	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,089.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	453.81	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0467 EA 48" Mechanical Joint Ductile Iron Plug.....	9,417.52	892.13
For Cement Mortar Lining (CML), Add	806.58	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,451.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	604.94	
Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0468 Mechanical Joint Ductile Iron Long Sleeves (33 14 13 13-0002)



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	Water Utilities	33 10
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0469 EA 3" Mechanical Joint Ductile Iron Long Sleeves.....	282.63	134.70
For Cement Mortar Lining (CML), Add	7.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	14.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0470 EA 4" Mechanical Joint Ductile Iron Long Sleeves.....	329.15	155.97
For Cement Mortar Lining (CML), Add	9.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	16.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0471 EA 6" Mechanical Joint Ductile Iron Long Sleeves.....	451.06	194.96
For Cement Mortar Lining (CML), Add	15.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	28.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.67	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0472 EA 8" Mechanical Joint Ductile Iron Long Sleeves.....	593.22	222.78
For Cement Mortar Lining (CML), Add	25.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	46.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0473 EA 10" Mechanical Joint Ductile Iron Long Sleeves.....	811.07	334.55
For Cement Mortar Lining (CML), Add	30.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	54.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	22.81	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0474 EA 12" Mechanical Joint Ductile Iron Long Sleeves.....	964.27	364.96
For Cement Mortar Lining (CML), Add	41.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	74.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.85	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0475 EA 14" Mechanical Joint Ductile Iron Long Sleeves.....	1,229.48	401.46
For Cement Mortar Lining (CML), Add	62.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	111.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	46.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0476 EA 16" Mechanical Joint Ductile Iron Long Sleeves.....	1,462.73	446.06
For Cement Mortar Lining (CML), Add	78.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	141.64	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	59.02	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0477 EA 18" Mechanical Joint Ductile Iron Long Sleeves.....	1,767.14	501.83
For Cement Mortar Lining (CML), Add	100.68	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	181.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	75.51	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0478 EA 20" Mechanical Joint Ductile Iron Long Sleeves.....	2,084.26	573.50
For Cement Mortar Lining (CML), Add	121.53	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	218.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	91.15	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0479 EA 24" Mechanical Joint Ductile Iron Long Sleeves.....	2,614.67	669.10
For Cement Mortar Lining (CML), Add	160.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	288.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	120.07	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0480 EA 30" Mechanical Joint Ductile Iron Long Sleeves.....	4,569.67	802.92
For Cement Mortar Lining (CML), Add	335.31	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	603.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	251.48	
Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0481 EA 36" Mechanical Joint Ductile Iron Long Sleeves	6,229.06	1,003.64
For Cement Mortar Lining (CML), Add	470.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	847.51	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	353.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0482 EA 42" Mechanical Joint Ductile Iron Long Sleeves	8,033.76	1,145.68
For Cement Mortar Lining (CML), Add	629.78	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,133.61	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	472.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0483 EA 48" Mechanical Joint Ductile Iron Long Sleeves	10,874.53	1,338.19
For Cement Mortar Lining (CML), Add	884.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,592.45	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	663.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0484 Mechanical Joint Ductile Iron Gland Packs <small>(33 14 13 13-0002)</small>		
Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts.		
33 14 13 13-0485 Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts <small>(33 14 13 13-0484)</small>		
Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0486 EA 3" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	28.56	
33 14 13 13-0487 EA 4" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	53.06	
Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0488 EA 6" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	64.11	
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0489 EA 8" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	75.16	
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0490 EA 10" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	103.90	
Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0491 EA 12" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	110.53	
Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0492 EA 14" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	181.27	
Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0493 EA 16" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	192.33	
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0494 EA 18" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	256.43	
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0495 EA 20" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	331.60	
Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0496 EA 24" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	462.02	
Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0497 EA 30" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	1,103.11	
Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.		
33 14 13 13-0498 EA 36" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	2,378.65	
Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.		
33 14 13 13-0499 EA 42" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	3,472.92	
Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.		
33 14 13 13-0500 EA 48" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	4,262.11	
Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.		
33 14 13 13-0501 EA 54" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	5,725.56	
Note: Includes thirty-six (36) 1-1/4" diameter plain finish Boltss with nut.		
33 14 13 13-0502 Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts <small>(33 14 13 13-0484)</small>		
Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0503 EA 3" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	48.55	
33 14 13 13-0504 EA 4" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	75.16	
Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0505 EA 6" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	95.06	
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0506 EA 8" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	103.90	
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0507 EA 10" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	143.69	
Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0508 EA 12" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	150.32	
Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0509 EA 14" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	227.70	
Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0510 EA 16" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	249.80	
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0511 EA 18" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	331.60	
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0512 EA 20" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	428.86	
Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0513 EA 24" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	599.08	
Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0514 Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts <small>(33 14 13 13-0484)</small>		
<i>Note: Labor installation is included with pipe fittings or valves.</i>		
33 14 13 13-0515 EA 3" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	31.42	
33 14 13 13-0516 EA 4" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... <i>Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.</i>	57.48	
33 14 13 13-0517 EA 6" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... <i>Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.</i>	68.53	
33 14 13 13-0518 EA 8" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... <i>Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.</i>	81.79	
33 14 13 13-0519 EA 10" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... <i>Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.</i>	112.74	
33 14 13 13-0520 EA 12" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... <i>Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.</i>	119.37	
33 14 13 13-0521 EA 14" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... <i>Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.</i>	196.75	
33 14 13 13-0522 EA 16" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... <i>Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.</i>	207.80	
33 14 13 13-0523 EA 18" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... <i>Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.</i>	280.75	
33 14 13 13-0524 EA 20" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... <i>Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.</i>	360.33	
33 14 13 13-0525 EA 24" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... <i>Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.</i>	504.03	
33 14 13 13-0526 EA 30" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... <i>Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.</i>	1,207.01	
33 14 13 13-0527 EA 36" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... <i>Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.</i>	2,674.87	
33 14 13 13-0528 EA 42" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... <i>Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.</i>	3,873.04	
33 14 13 13-0529 EA 48" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... <i>Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.</i>	4,766.14	
33 14 13 13-0530 EA 54" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts..... <i>Note: Includes thirty-six (36) 1-1/4" diameter plain finish Boltss with nut.</i>	5,849.35	
33 14 13 13-0531 Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters <small>(33 14 13 13-0002)</small>		
33 14 13 13-0532 EA 3" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	296.92	134.70
<i>For Cement Mortar Lining (CML), Add</i>	9.28	
<i>Note: ANSI/AWWA C104/A21.4</i>		
<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	16.71	
<i>Note: ANSI/AWWA C104/A21.4</i>		
<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	6.96	
<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13 13-0533 EA 4" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	336.29	155.97
<i>For Cement Mortar Lining (CML), Add</i>	10.00	
<i>Note: ANSI/AWWA C104/A21.4</i>		
<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	17.99	
<i>Note: ANSI/AWWA C104/A21.4</i>		
<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	7.50	
<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13 13-0534 EA 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	433.92	194.96
<i>For Cement Mortar Lining (CML), Add</i>	13.85	
<i>Note: ANSI/AWWA C104/A21.4</i>		
<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	24.93	
<i>Note: ANSI/AWWA C104/A21.4</i>		
<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	10.39	
<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13 13-0535 EA 8" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	547.52	222.78
<i>For Cement Mortar Lining (CML), Add</i>	20.99	
<i>Note: ANSI/AWWA C104/A21.4</i>		
<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	37.79	
<i>Note: ANSI/AWWA C104/A21.4</i>		
<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	15.74	
<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13 13-0536 EA 10" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	872.48	334.55
<i>For Cement Mortar Lining (CML), Add</i>	36.56	
<i>Note: ANSI/AWWA C104/A21.4</i>		
<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	65.81	
<i>Note: ANSI/AWWA C104/A21.4</i>		
<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	27.42	
<i>Note: ANSI/AWWA C151/A21.51</i>		
33 14 13 13-0537 EA 12" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,021.39	364.96
<i>For Cement Mortar Lining (CML), Add</i>	46.84	
<i>Note: ANSI/AWWA C104/A21.4</i>		
<i>For Fusion Bonded Epoxy Lining (206N), Add</i>	84.31	
<i>Note: ANSI/AWWA C104/A21.4</i>		
<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i>	35.13	
<i>Note: ANSI/AWWA C151/A21.51</i>		

33 Utilities
33 10 Water Utilities
33 14 Water Utility Transmission and Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0538 EA 14" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,352.30	401.46
For Cement Mortar Lining (CML), Add	74.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	133.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	55.80	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0539 EA 16" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,525.57	446.06
For Cement Mortar Lining (CML), Add	84.97	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	152.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	63.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0540 EA 18" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,059.89	501.83
For Cement Mortar Lining (CML), Add	129.96	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	233.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	97.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0541 EA 20" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,417.00	573.50
For Cement Mortar Lining (CML), Add	154.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	278.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	116.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0542 EA 24" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,920.28	669.10
For Cement Mortar Lining (CML), Add	190.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	343.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	142.99	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0543 EA 30" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	4,725.33	802.92
For Cement Mortar Lining (CML), Add	350.88	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	631.58	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	263.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0544 EA 36" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	6,548.95	1,003.64
For Cement Mortar Lining (CML), Add	502.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	905.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	377.12	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0545 EA 42" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	8,748.35	1,146.99
For Cement Mortar Lining (CML), Add	701.04	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,261.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	525.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0546 EA 48" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	10,807.41	1,338.19
For Cement Mortar Lining (CML), Add	877.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,580.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	658.49	
Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0547 Mechanical Joint Restraints With Accessories For Ductile Iron Pipe (MEGALUG® 1100DEC Series) (33 14 13 13-0002)

Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts and bolts. Excludes pipe and fitting.

33 14 13 13-0548 EA 3" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1103DSC).....	186.02	67.56
33 14 13 13-0549 EA 4" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1104DEC).....	212.11	80.02
33 14 13 13-0550 EA 6" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1106DEC).....	263.14	99.04
33 14 13 13-0551 EA 8" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1108DEC).....	328.56	115.58
33 14 13 13-0552 EA 10" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1110DEC).....	472.78	167.28
33 14 13 13-0553 EA 12" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1112DEC).....	583.68	191.20
33 14 13 13-0554 EA 14" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1114DEC).....	680.58	205.79
33 14 13 13-0555 EA 16" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1116DEC).....	840.35	223.03
33 14 13 13-0556 EA 18" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1118DEC).....	1,079.30	267.64
33 14 13 13-0557 EA 20" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1120DEC).....	1,274.90	297.24
33 14 13 13-0558 EA 24" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1124DEC).....	1,657.94	342.96
33 14 13 13-0559 EA 30" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1130DEC).....	3,232.33	411.29
33 14 13 13-0560 EA 36" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1136DEC).....	3,991.24	514.70
33 14 13 13-0561 EA 42" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1142DEC).....	5,899.35	593.88
33 14 13 13-0562 EA 48" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1148DEC).....	7,554.60	763.79



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0563				Mechanical Joint Ductile Iron Force Balanced Flexible Expansion Joint (FLEX-TEND®) <small>(33 14 13 13-0002)</small>		
				33 14 13 13-0564 EA 3" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	4,025.15	55.30
				33 14 13 13-0565 EA 4" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	4,190.62	69.12
				33 14 13 13-0566 EA 6" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	6,080.82	102.15
				33 14 13 13-0567 EA 8" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	8,264.56	121.16
				33 14 13 13-0568 EA 10" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	10,417.28	133.52
				33 14 13 13-0569 EA 12" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	13,895.80	156.63
				33 14 13 13-0570 EA 14" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	17,119.04	175.64
				33 14 13 13-0571 EA 16" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	20,253.09	200.73
				33 14 13 13-0572 EA 18" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	22,830.08	281.03
				33 14 13 13-0573 EA 20" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	30,715.31	351.28
				33 14 13 13-0574 EA 24" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	42,560.83	468.37
33 14 13 13-0575				Set Screw Flange Adapter For Ductile Iron Pipe (E-Z Flange 1000DSM Series) <small>(33 14 13 13-0002)</small>		
				Note: Includes machined bolts and gasket.		
				33 14 13 13-0576 EA 3" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1003DSM).....	184.67	67.56
				33 14 13 13-0577 EA 4" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1004DSM).....	237.15	80.02
				33 14 13 13-0578 EA 6" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1006DSM).....	306.57	99.04
				33 14 13 13-0579 EA 8" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1008DSM).....	349.86	115.58
				33 14 13 13-0580 EA 10" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1010DSM).....	614.89	177.23
				33 14 13 13-0581 EA 12" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1012DSM).....	695.87	202.59
33 14 13 13-0582				Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 2100 Series) <small>(33 14 13 13-0002)</small>		
				Note: Includes nuts, bolts and gasket.		
				33 14 13 13-0583 EA 3" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210300).....	269.75	67.56
				33 14 13 13-0584 EA 4" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210400).....	335.59	80.02
				33 14 13 13-0585 EA 6" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210600).....	464.84	99.04
				33 14 13 13-0586 EA 8" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210800).....	672.59	115.58
				33 14 13 13-0587 EA 10" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211000).....	974.22	177.23
				33 14 13 13-0588 EA 12" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211200).....	1,211.61	202.59
				33 14 13 13-0589 EA 14" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211400).....	1,868.57	218.06
				33 14 13 13-0590 EA 16" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211600).....	2,619.97	236.32
				33 14 13 13-0591 EA 18" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211800).....	2,963.09	283.57
				33 14 13 13-0592 EA 20" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212000).....	3,273.08	314.94
				33 14 13 13-0593 EA 24" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212400).....	3,959.97	363.39
				33 14 13 13-0594 EA 30" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213000).....	5,095.30	435.79
				33 14 13 13-0595 EA 36" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213600).....	7,612.38	545.35
				33 14 13 13-0596 EA 42" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214200).....	19,870.56	629.24
				33 14 13 13-0597 EA 48" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214800).....	25,451.29	809.27
33 14 13 13-0598				Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Piping <small>(33 14 13 13-0001)</small>		
				Note: . See CSI section 33 14 13 13-0484 for bolts and gaskets.		
33 14 13 13-0599				Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow <small>(33 14 13 13-0598)</small>		
				33 14 13 13-0600 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	362.61	38.56
				33 14 13 13-0601 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	433.98	46.19
				33 14 13 13-0602 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	672.92	67.68
				33 14 13 13-0603 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	917.89	80.56
				33 14 13 13-0604 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,254.45	89.22
				33 14 13 13-0605 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,589.08	104.42
				33 14 13 13-0606 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	2,253.83	117.60
				33 14 13 13-0607 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	2,733.31	133.82
				33 14 13 13-0608 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	3,307.07	187.55
				33 14 13 13-0609 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	4,122.09	234.19
				33 14 13 13-0610 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	5,824.99	312.25
				33 14 13 13-0611 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	9,299.58	334.55
				33 14 13 13-0612 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	13,673.08	347.72
				33 14 13 13-0613 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	22,499.31	401.46
				33 14 13 13-0614 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	29,415.77	426.81
33 14 13 13-0615				Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow <small>(33 14 13 13-0598)</small>		
				33 14 13 13-0616 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	346.90	38.56
				33 14 13 13-0617 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	406.85	46.19
				33 14 13 13-0618 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	625.80	67.68
				33 14 13 13-0619 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	845.06	80.56
				33 14 13 13-0620 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,100.22	89.22
				33 14 13 13-0621 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,450.55	104.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0622 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,956.79	117.60
33 14 13 13-0623 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,342.01	133.82
33 14 13 13-0624 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,774.39	187.55
33 14 13 13-0625 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	3,369.49	234.19
33 14 13 13-0626 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	4,441.18	312.25
33 14 13 13-0627 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	8,132.84	334.55
33 14 13 13-0628 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	11,226.78	347.72
33 14 13 13-0629 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	16,664.17	401.46
33 14 13 13-0630 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	21,318.56	426.81
33 14 13 13-0631 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow <small>(33 14 13 13-0598)</small>		
33 14 13 13-0632 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	271.21	38.56
33 14 13 13-0633 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	402.56	46.19
33 14 13 13-0634 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	608.66	67.68
33 14 13 13-0635 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	839.35	80.56
33 14 13 13-0636 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,098.79	89.22
33 14 13 13-0637 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,367.72	104.42
33 14 13 13-0638 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,968.21	117.60
33 14 13 13-0639 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,290.60	133.82
33 14 13 13-0640 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,761.54	187.55
33 14 13 13-0641 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	3,488.02	234.19
33 14 13 13-0642 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	4,346.93	312.25
33 14 13 13-0643 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	7,243.14	334.55
33 14 13 13-0644 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	9,870.11	347.72
33 14 13 13-0645 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	14,109.34	401.46
33 14 13 13-0646 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	18,052.54	426.81
33 14 13 13-0647 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <small>(33 14 13 13-0598)</small>		
33 14 13 13-0648 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	271.21	38.56
33 14 13 13-0649 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	481.11	46.19
33 14 13 13-0650 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	614.37	67.68
33 14 13 13-0651 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	813.64	80.56
33 14 13 13-0652 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,095.94	89.22
33 14 13 13-0653 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,329.17	104.42
33 14 13 13-0654 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,118.16	117.60
33 14 13 13-0655 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,360.58	133.82
33 14 13 13-0656 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	3,167.11	187.55
33 14 13 13-0657 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	3,365.20	234.19
33 14 13 13-0658 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	4,348.36	312.25
33 14 13 13-0659 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	7,337.40	334.55
33 14 13 13-0660 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	9,600.20	347.72
33 14 13 13-0661 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	13,723.76	401.46
33 14 13 13-0662 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	17,949.72	426.81
33 14 13 13-0663 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow <small>(33 14 13 13-0598)</small>		
33 14 13 13-0664 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	318.34	38.56
33 14 13 13-0665 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	466.83	46.19
33 14 13 13-0666 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	727.19	67.68
33 14 13 13-0667 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	986.44	80.56
33 14 13 13-0668 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,354.42	89.22
33 14 13 13-0669 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,699.04	104.42
33 14 13 13-0670 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	3,043.56	117.60
33 14 13 13-0671 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	4,742.62	133.82
33 14 13 13-0672 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	5,424.91	187.55
33 14 13 13-0673 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	6,255.64	234.19
33 14 13 13-0674 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	6,773.24	312.25
33 14 13 13-0675 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow <small>(33 14 13 13-0598)</small>		
33 14 13 13-0676 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	318.34	38.56



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0677 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	412.55	46.19
33 14 13 13-0678 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	648.65	67.68
33 14 13 13-0679 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	915.03	80.56
33 14 13 13-0680 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,210.18	89.22
33 14 13 13-0681 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,573.37	104.42
33 14 13 13-0682 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	2,093.88	117.60
33 14 13 13-0683 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	2,514.81	133.82
33 14 13 13-0684 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	4,696.59	187.55
33 14 13 13-0685 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	4,933.23	234.19
33 14 13 13-0686 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	5,148.08	312.25
33 14 13 13-0687 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee <small>(33 14 13 13-0598)</small>		
33 14 13 13-0688 EA 3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	448.95	57.85
33 14 13 13-0689 EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	490.12	65.23
33 14 13 13-0690 EA 4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	517.26	67.68
33 14 13 13-0691 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	735.48	85.78
33 14 13 13-0692 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	796.53	89.15
33 14 13 13-0693 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	841.21	99.89
33 14 13 13-0694 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	976.56	103.12
33 14 13 13-0695 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,056.93	113.87
33 14 13 13-0696 EA 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,161.93	121.38
33 14 13 13-0697 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,305.79	110.51
33 14 13 13-0698 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,305.28	120.64
33 14 13 13-0699 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,413.98	127.73
33 14 13 13-0700 EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,525.15	133.82
33 14 13 13-0701 EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,570.26	123.68
33 14 13 13-0702 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,585.46	133.82
33 14 13 13-0703 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,714.13	140.92
33 14 13 13-0704 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,973.85	147.00
33 14 13 13-0705 EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,979.70	154.09
33 14 13 13-0706 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,240.24	156.12
33 14 13 13-0707 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,423.18	163.22
33 14 13 13-0708 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,937.09	169.30
33 14 13 13-0709 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,100.03	176.40
33 14 13 13-0710 EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,875.46	187.55
33 14 13 13-0711 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,680.08	187.55
33 14 13 13-0712 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,824.56	193.63
33 14 13 13-0713 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,384.16	200.73
33 14 13 13-0714 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,177.23	206.82
33 14 13 13-0715 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,137.97	217.96
33 14 13 13-0716 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,748.85	234.19
33 14 13 13-0717 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,517.90	240.27
33 14 13 13-0718 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,709.41	246.35
33 14 13 13-0719 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,951.98	252.43
33 14 13 13-0720 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,176.33	259.53
33 14 13 13-0721 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,291.64	270.68
33 14 13 13-0722 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,585.16	285.89
33 14 13 13-0723 EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,117.55	312.25
33 14 13 13-0724 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,054.00	343.67
33 14 13 13-0725 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,122.70	350.76
33 14 13 13-0726 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,526.64	356.86
33 14 13 13-0727 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,748.15	363.95
33 14 13 13-0728 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,796.33	375.10
33 14 13 13-0729 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,738.53	390.31
33 14 13 13-0730 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,046.38	416.66
33 14 13 13-0731 EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,171.26	468.37
33 14 13 13-0732 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,925.22	447.07
33 14 13 13-0733 EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,972.49	455.19
33 14 13 13-0734 EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,062.26	460.26
33 14 13 13-0735 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,195.21	467.35
33 14 13 13-0736 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,901.75	478.51
33 14 13 13-0737 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,155.28	493.71
33 14 13 13-0738 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,563.09	520.07
33 14 13 13-0739 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,813.29	572.79
33 14 13 13-0740 EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,342.06	624.49
33 14 13 13-0741 EA 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,584.26	521.09
33 14 13 13-0742 EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,177.40	528.18
33 14 13 13-0743 EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,639.90	534.26
33 14 13 13-0744 EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,104.17	541.36
33 14 13 13-0745 EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,763.59	552.51

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 13-0746	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,475.52	734.99
33 14 13 13-0747	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,432.40	594.08
33 14 13 13-0748	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,426.98	645.78
33 14 13 13-0749	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,866.87	697.49
33 14 13 13-0750	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,959.16	734.99
33 14 13 13-0751	EA	36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,866.08	585.97
33 14 13 13-0752	EA	36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,912.67	592.05
33 14 13 13-0753	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,478.32	599.15
33 14 13 13-0754	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,879.27	610.30
33 14 13 13-0755	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,282.74	625.51
33 14 13 13-0756	EA	36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,059.33	651.86
33 14 13 13-0757	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,876.47	703.57
33 14 13 13-0758	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,264.61	755.27
33 14 13 13-0759	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	16,102.71	821.17
33 14 13 13-0760	EA	36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	18,542.75	821.17
33 14 13 13-0761	EA	42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	21,077.87	631.59
33 14 13 13-0762	EA	42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	21,501.65	641.72
33 14 13 13-0763	EA	42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	23,641.67	657.95
33 14 13 13-0764	EA	42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	26,940.26	684.30
33 14 13 13-0765	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	27,019.08	736.00
33 14 13 13-0766	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	22,370.73	787.72
33 14 13 13-0767	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	22,773.60	825.22
33 14 13 13-0768	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	28,195.47	853.61
33 14 13 13-0769	EA	42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	29,716.55	869.83
33 14 13 13-0770	EA	48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	24,574.59	682.28
33 14 13 13-0771	EA	48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	25,015.51	693.43
33 14 13 13-0772	EA	48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	25,641.76	709.65
33 14 13 13-0773	EA	48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	26,279.84	734.99
33 14 13 13-0774	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	26,961.32	787.72
33 14 13 13-0775	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	27,119.88	839.42
33 14 13 13-0776	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	29,116.50	875.91
33 14 13 13-0777	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	23,437.90	905.31
33 14 13 13-0778	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	29,368.88	921.53
33 14 13 13-0779	EA	48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	39,097.34	946.87

33 14 13 13-0780**Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Laterals)**

(33 14 13 13-0598)

33 14 13 13-0781	EA	3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	503.54	64.66
33 14 13 13-0782	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	553.53	64.66
33 14 13 13-0783	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	648.65	67.68
33 14 13 13-0784	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	716.91	85.78
33 14 13 13-0785	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	799.39	89.15
33 14 13 13-0786	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	976.88	99.89
33 14 13 13-0787	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,280.74	103.12
33 14 13 13-0788	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,182.60	113.87
33 14 13 13-0789	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,329.02	121.38
33 14 13 13-0790	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,875.59	110.51
33 14 13 13-0791	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,953.63	120.64
33 14 13 13-0792	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,185.14	127.73
33 14 13 13-0793	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,384.86	133.82
33 14 13 13-0794	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,288.59	123.68
33 14 13 13-0795	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,595.11	133.82
33 14 13 13-0796	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,070.81	140.92
33 14 13 13-0797	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,073.47	147.00
33 14 13 13-0798	EA	12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,836.55	154.09
33 14 13 13-0799	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,371.28	156.12
33 14 13 13-0800	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,875.54	163.22
33 14 13 13-0801	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,106.34	169.30
33 14 13 13-0802	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,476.36	176.40
33 14 13 13-0803	EA	14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,336.04	187.55
33 14 13 13-0804	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,509.88	187.55
33 14 13 13-0805	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,877.05	193.63
33 14 13 13-0806	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,602.31	200.73
33 14 13 13-0807	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,748.12	206.82
33 14 13 13-0808	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,881.66	217.96
33 14 13 13-0809	EA	16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,562.52	234.19
33 14 13 13-0810	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,974.54	240.27
33 14 13 13-0811	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,365.99	246.35
33 14 13 13-0812	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,744.22	252.43
33 14 13 13-0813	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,154.22	259.53
33 14 13 13-0814	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,216.69	270.68
33 14 13 13-0815	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,287.43	285.89
33 14 13 13-0816	EA	18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,697.36	312.25
33 14 13 13-0817	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,856.24	343.67
33 14 13 13-0818	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,984.92	350.76
33 14 13 13-0819	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,594.50	356.86
33 14 13 13-0820	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,198.73	363.95
33 14 13 13-0821	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,265.49	375.10
33 14 13 13-0822	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,343.35	390.31
33 14 13 13-0823	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,534.09	416.66



	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0824	EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,030.28	468.37
33 14 13 13-0825	EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,097.33	447.07
33 14 13 13-0826	EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,188.87	454.18
33 14 13 13-0827	EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,038.38	460.26
33 14 13 13-0828	EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,424.10	467.35
33 14 13 13-0829	EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,770.42	478.51
33 14 13 13-0830	EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	10,883.65	493.71
33 14 13 13-0831	EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	12,201.50	520.07
33 14 13 13-0832	EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	13,405.65	572.79
33 14 13 13-0833	EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	11,809.10	624.49
33 14 13 13-0834	EA 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	14,950.64	521.09
33 14 13 13-0835	EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	16,803.00	528.18
33 14 13 13-0836	EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	17,796.75	534.26
33 14 13 13-0837	EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	18,792.27	541.36
33 14 13 13-0838	EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	20,202.85	552.51
33 14 13 13-0839	EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	21,718.80	567.72
33 14 13 13-0840	EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	22,258.33	594.08
33 14 13 13-0841	EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	23,035.50	645.78
33 14 13 13-0842	EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	24,120.88	697.49
33 14 13 13-0843	EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	26,158.91	734.99
33 14 13 13-0844	EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	28,854.86	599.15
33 14 13 13-0845	EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	29,995.54	610.30
33 14 13 13-0846	EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	31,128.76	625.51
33 14 13 13-0847	EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	33,317.73	651.86
33 14 13 13-0848	EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	35,554.38	703.57
33 14 13 13-0849	EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	39,457.37	755.27
33 14 13 13-0850	EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	44,241.60	792.78
33 14 13 13-0851	EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	52,892.36	821.17
33 14 13 13-0852	EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	46,532.37	736.00
33 14 13 13-0853	EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	47,669.17	787.72
33 14 13 13-0854	EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	50,932.48	825.22
33 14 13 13-0855	EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	58,312.25	853.61
33 14 13 13-0856	EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	68,880.21	869.83
33 14 13 13-0857	EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	45,859.10	787.72
33 14 13 13-0858	EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	51,978.47	839.42
33 14 13 13-0859	EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	55,411.74	875.91
33 14 13 13-0860	EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	63,235.64	905.31
33 14 13 13-0861	EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	82,879.04	921.53
33 14 13 13-0862	EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	91,039.47	946.87
33 14 13 13-0863	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee <small>(33 14 13 13-0598)</small>		
33 14 13 13-0864	EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	894.05	99.89
33 14 13 13-0865	EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,111.20	113.87
33 14 13 13-0866	EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,590.90	120.64
33 14 13 13-0867	EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,831.09	133.82
33 14 13 13-0868	EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	2,421.60	156.12
33 14 13 13-0869	EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	2,950.08	187.55
33 14 13 13-0870	EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	3,482.20	240.27
33 14 13 13-0871	EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	4,680.93	343.67
33 14 13 13-0872	EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	5,462.58	447.07
33 14 13 13-0873	EA 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	9,925.23	521.09
33 14 13 13-0874	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross <small>(33 14 13 13-0598)</small>		
33 14 13 13-0875	EA 3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	501.02	77.13
33 14 13 13-0876	EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	625.58	83.94
33 14 13 13-0877	EA 4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	781.54	84.85
33 14 13 13-0878	EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	829.18	105.20
33 14 13 13-0879	EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	970.17	113.87
33 14 13 13-0880	EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,071.68	141.79
33 14 13 13-0881	EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,030.57	124.60
33 14 13 13-0882	EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,214.90	152.53
33 14 13 13-0883	EA 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,202.48	163.27
33 14 13 13-0884	EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,209.96	129.76
33 14 13 13-0885	EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,356.19	156.12
33 14 13 13-0886	EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,611.33	166.26
33 14 13 13-0887	EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,745.60	178.42
33 14 13 13-0888	EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,555.30	140.92

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 13-0889	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,800.05	167.28
33 14 13 13-0890	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,953.79	177.41
33 14 13 13-0891	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,279.43	189.58
33 14 13 13-0892	EA	12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,603.35	200.73
33 14 13 13-0893	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,692.24	183.50
33 14 13 13-0894	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	3,193.00	193.63
33 14 13 13-0895	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	3,270.15	206.82
33 14 13 13-0896	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	3,451.25	216.95
33 14 13 13-0897	EA	14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	3,825.04	234.19
33 14 13 13-0898	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	3,013.31	207.83
33 14 13 13-0899	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	3,448.39	216.95
33 14 13 13-0900	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,159.60	230.13
33 14 13 13-0901	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,652.03	241.28
33 14 13 13-0902	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	5,652.74	257.51
33 14 13 13-0903	EA	16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	5,899.56	280.82
33 14 13 13-0904	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	5,207.05	245.33
33 14 13 13-0905	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	5,509.32	255.48
33 14 13 13-0906	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	5,767.83	267.64
33 14 13 13-0907	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	6,265.96	278.80
33 14 13 13-0908	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	7,342.36	295.01
33 14 13 13-0909	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	7,810.54	318.33
33 14 13 13-0910	EA	18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	8,154.92	356.86
33 14 13 13-0911	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	6,546.99	308.19
33 14 13 13-0912	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	6,852.11	317.31
33 14 13 13-0913	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	7,060.64	330.50
33 14 13 13-0914	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	7,554.49	341.64
33 14 13 13-0915	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	7,676.94	357.87
33 14 13 13-0916	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,340.40	381.19
33 14 13 13-0917	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,684.78	418.69
33 14 13 13-0918	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	10,450.63	481.55
33 14 13 13-0919	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	8,963.19	385.24
33 14 13 13-0920	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,171.50	395.37
33 14 13 13-0921	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,523.97	407.54
33 14 13 13-0922	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,827.89	418.69
33 14 13 13-0923	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,996.03	434.91
33 14 13 13-0924	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	10,368.50	458.23
33 14 13 13-0925	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	13,826.11	496.76
33 14 13 13-0926	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	14,541.97	558.60
33 14 13 13-0927	EA	24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	16,001.35	635.64
33 14 13 13-0928	EA	30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	13,910.96	511.96
33 14 13 13-0929	EA	30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	14,186.60	524.13
33 14 13 13-0930	EA	30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	14,457.67	535.28
33 14 13 13-0931	EA	30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	14,777.20	551.50
33 14 13 13-0932	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	15,142.53	575.83
33 14 13 13-0933	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	15,565.46	613.34
33 14 13 13-0934	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	16,097.10	675.18
33 14 13 13-0935	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	20,756.82	753.24
33 14 13 13-0936	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	23,865.71	869.83
33 14 13 13-0937	EA	36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	19,502.89	554.54
33 14 13 13-0938	EA	36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	19,775.67	566.70
33 14 13 13-0939	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	20,011.04	577.86
33 14 13 13-0940	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	20,290.57	595.10
33 14 13 13-0941	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	20,617.36	618.41
33 14 13 13-0942	EA	36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	21,001.73	655.92
33 14 13 13-0943	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	21,497.67	718.78
33 14 13 13-0944	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	22,378.68	795.82
33 14 13 13-0945	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	30,231.65	912.41
33 14 13 13-0946	EA	36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	33,243.03	955.99
33 14 13 13-0947	EA	42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	26,255.22	603.20
33 14 13 13-0948	EA	42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	26,801.79	619.43
33 14 13 13-0949	EA	42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	27,118.59	643.76
33 14 13 13-0950	EA	42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	27,557.22	681.26
33 14 13 13-0951	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	28,348.77	744.12
33 14 13 13-0952	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	30,026.65	821.17
33 14 13 13-0953	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	36,508.66	937.75
33 14 13 13-0954	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	47,820.05	980.33
33 14 13 13-0955	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	51,266.61	1,005.68
33 14 13 13-0956	EA	48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	35,561.87	702.55
33 14 13 13-0957	EA	48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	35,795.71	718.78
33 14 13 13-0958	EA	48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	36,108.22	742.09
33 14 13 13-0959	EA	48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	36,444.02	779.60
33 14 13 13-0960	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	36,888.56	842.46
33 14 13 13-0961	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	37,665.32	919.50
33 14 13 13-0962	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	39,827.40	1,036.09
33 14 13 13-0963	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	48,908.12	1,079.69
33 14 13 13-0964	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	63,043.85	1,105.03
33 14 13 13-0965	EA	48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	67,126.60	1,203.37

33 14 13 13-0966 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x
Mechanical Joint Ductile Iron Reducers (33 14 13 13-0966)



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0967	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	356.35	41.96
33 14 13 13-0968	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	498.13	52.60
33 14 13 13-0969	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	547.55	55.85
33 14 13 13-0970	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	718.35	63.38
33 14 13 13-0971	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	747.22	74.12
33 14 13 13-0972	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	878.33	65.90
33 14 13 13-0973	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	919.24	76.03
33 14 13 13-0974	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	956.51	83.13
33 14 13 13-0975	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,015.56	72.99
33 14 13 13-0976	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,123.60	83.13
33 14 13 13-0977	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,142.31	89.22
33 14 13 13-0978	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,193.52	96.31
33 14 13 13-0979	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,757.31	94.28
33 14 13 13-0980	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,767.45	100.36
33 14 13 13-0981	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,538.76	107.46
33 14 13 13-0982	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,570.31	113.55
33 14 13 13-0983	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,106.50	109.49
33 14 13 13-0984	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,043.82	116.59
33 14 13 13-0985	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,919.37	122.67
33 14 13 13-0986	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,896.66	128.75
33 14 13 13-0987	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,144.79	139.90
33 14 13 13-0988	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,290.60	141.93
33 14 13 13-0989	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,583.15	149.02
33 14 13 13-0990	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,467.62	155.11
33 14 13 13-0991	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,949.95	166.26
33 14 13 13-0992	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,583.69	182.49
33 14 13 13-0993	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,050.63	194.65
33 14 13 13-0994	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,074.71	200.73
33 14 13 13-0995	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,793.51	207.83
33 14 13 13-0996	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,791.72	218.98
33 14 13 13-0997	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,723.92	234.19
33 14 13 13-0998	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,222.05	260.55
33 14 13 13-0999	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,843.19	259.53
33 14 13 13-1000	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,899.96	270.68
33 14 13 13-1001	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,969.26	285.89
33 14 13 13-1002	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,909.00	312.25
33 14 13 13-1003	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,509.08	363.95
33 14 13 13-1004	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,009.79	322.38
33 14 13 13-1005	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,307.99	348.74
33 14 13 13-1006	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,041.22	401.46
33 14 13 13-1007	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,968.79	453.17
33 14 13 13-1008	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,245.64	429.85

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1009 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,594.48	481.55
33 14 13 13-1010 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,175.85	519.05
33 14 13 13-1011 EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	13,677.12	368.00
33 14 13 13-1012 EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	13,596.87	394.36
33 14 13 13-1013 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	13,631.43	446.06
33 14 13 13-1014 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	14,165.58	497.77
33 14 13 13-1015 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,576.63	535.28
33 14 13 13-1016 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	12,114.46	563.66
33 14 13 13-1017 EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	17,236.29	393.35
33 14 13 13-1018 EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	16,679.06	419.70
33 14 13 13-1019 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	15,841.06	471.41
33 14 13 13-1020 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	16,303.81	524.13
33 14 13 13-1021 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	19,537.13	560.62
33 14 13 13-1022 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	16,896.06	589.01
33 14 13 13-1023 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	18,582.79	605.23
33 14 13 13-1024 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps <small>(33 14 13 13-0598)</small>		
33 14 13 13-1025 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	329.92	88.62
33 14 13 13-1026 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	397.47	104.19
33 14 13 13-1027 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	579.66	129.97
33 14 13 13-1028 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	774.87	148.23
33 14 13 13-1029 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,030.55	223.03
33 14 13 13-1030 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,296.89	243.31
33 14 13 13-1031 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,473.72	267.64
33 14 13 13-1032 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,791.55	297.04
33 14 13 13-1033 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	2,097.77	334.55
33 14 13 13-1034 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	2,528.64	382.20
33 14 13 13-1035 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	3,239.26	446.06
33 14 13 13-1036 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	5,859.28	535.28
33 14 13 13-1037 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	9,590.84	669.10
33 14 13 13-1038 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	13,812.21	802.92
33 14 13 13-1039 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	16,442.24	892.13
33 14 13 13-1040 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug <small>(33 14 13 13-0598)</small>		
33 14 13 13-1041 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	331.35	88.62
33 14 13 13-1042 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	411.75	104.19
33 14 13 13-1043 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	616.79	129.97
33 14 13 13-1044 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	812.00	148.23
33 14 13 13-1045 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,243.33	223.03
33 14 13 13-1046 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,345.45	243.31
33 14 13 13-1047 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,783.62	267.64
33 14 13 13-1048 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,150.00	297.04
33 14 13 13-1049 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,556.18	334.55
33 14 13 13-1050 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	3,148.43	382.20
33 14 13 13-1051 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	4,121.82	446.06
33 14 13 13-1052 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	7,078.86	535.28
33 14 13 13-1053 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	10,349.15	669.10
33 14 13 13-1054 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	13,907.89	802.92
33 14 13 13-1055 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	18,471.54	892.13
33 14 13 13-1056 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters <small>(33 14 13 13-0598)</small>		
33 14 13 13-1057 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	451.15	134.70
33 14 13 13-1058 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	594.77	155.76
33 14 13 13-1059 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	816.65	195.50
33 14 13 13-1060 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,070.19	222.35



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1061 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,575.09	334.55
33 14 13 13-1062 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,878.24	364.96
33 14 13 13-1063 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,450.49	401.46
33 14 13 13-1064 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,780.85	446.06
33 14 13 13-1065 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	3,642.21	501.83
33 14 13 13-1066 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	4,223.52	573.81
33 14 13 13-1067 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	5,110.95	669.10
33 14 13 13-1068 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	8,021.34	802.92
33 14 13 13-1069 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	10,904.59	1,003.64
33 14 13 13-1070 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	14,820.56	1,146.59
33 14 13 13-1071 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	18,413.36	1,338.19
33 14 13 13-1072 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves (33 14 13 13-0598)		
33 14 13 13-1073 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	468.28	134.70
33 14 13 13-1074 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	573.35	155.76
33 14 13 13-1075 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	840.93	195.50
33 14 13 13-1076 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	1,135.89	222.35
33 14 13 13-1077 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	1,483.70	334.55
33 14 13 13-1078 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	1,792.55	364.96
33 14 13 13-1079 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	2,267.70	401.46
33 14 13 13-1080 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	2,683.74	446.06
33 14 13 13-1081 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	3,202.36	501.83
33 14 13 13-1082 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	3,727.98	573.81
33 14 13 13-1083 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	4,656.82	669.10
33 14 13 13-1084 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	7,785.71	802.92
33 14 13 13-1085 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	10,117.72	1,003.64
33 14 13 13-1086 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	13,159.14	1,145.57
33 14 13 13-1087 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves.....	19,520.12	1,338.19
33 14 13 13-1088 Push-On Joint Ductile Iron Piping (33 14 13 13-0001)		
33 14 13 13-1089 Push-On Joint Ductile Iron Pipe (33 14 13 13-1088)		
Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.		
33 14 13 13-1090 LF 4", Class 50, Push-On Joint Ductile Iron Pipe.....	33.36	8.86
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	13.95	
For Cement Mortar Lining (CML), Add	1.99	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	10.76	
For Fusion Bonded Epoxy Lining (206N), Add	3.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.49	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.67	
For Class 51, Add	2.88	
For Class 52, Add	6.22	
For Class 53, Add	11.18	
For Class 54, Add	15.95	
For Class 55, Add	18.35	
For Class 56, Add	20.71	
33 14 13 13-1091 LF 6", Class 50, Push-On Joint Ductile Iron Pipe.....	36.59	9.78
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	15.31	
For Cement Mortar Lining (CML), Add	2.19	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	11.81	
For Fusion Bonded Epoxy Lining (206N), Add	3.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.64	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.83	
For Class 51, Add	3.16	
For Class 52, Add	6.82	
For Class 53, Add	12.27	
For Class 54, Add	17.50	
For Class 55, Add	20.13	
For Class 56, Add	22.72	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-1092	LF	8", Class 50, Push-On Joint Ductile Iron Pipe.....	46.00	10.74
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	20.92	
			For Cement Mortar Lining (CML), Add	2.99	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	16.14	
			For Fusion Bonded Epoxy Lining (206N), Add	5.38	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.24	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-2.30	
			For Class 51, Add	4.28	
			For Class 52, Add	9.22	
			For Class 53, Add	16.62	
			For Class 54, Add	23.71	
			For Class 55, Add	27.27	
			For Class 56, Add	30.75	
33 14 13	13-1093	LF	10", Class 50, Push-On Joint Ductile Iron Pipe.....	64.97	15.11
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	25.30	
			For Cement Mortar Lining (CML), Add	4.22	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	21.08	
			For Fusion Bonded Epoxy Lining (206N), Add	7.59	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.16	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-3.25	
			For Class 51, Add	6.03	
			For Class 52, Add	13.01	
			For Class 53, Add	23.45	
			For Class 54, Add	33.45	
			For Class 55, Add	38.46	
			For Class 56, Add	43.39	
33 14 13	13-1094	LF	12", Class 50, Push-On Joint Ductile Iron Pipe.....	75.61	16.73
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	25.14	
			For Cement Mortar Lining (CML), Add	5.03	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	20.11	
			For Fusion Bonded Epoxy Lining (206N), Add	9.05	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.77	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-3.78	
			For Class 51, Add	7.17	
			For Class 52, Add	15.47	
			For Class 53, Add	27.89	
			For Class 54, Add	39.79	
			For Class 55, Add	45.75	
			For Class 56, Add	51.59	
33 14 13	13-1095	LF	14", Class 50, Push-On Joint Ductile Iron Pipe.....	92.57	18.86
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	28.20	
			For Cement Mortar Lining (CML), Add	6.41	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	21.79	
			For Fusion Bonded Epoxy Lining (206N), Add	11.53	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.81	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-4.63	
			For Class 51, Add	9.09	
			For Class 52, Add	19.62	
			For Class 53, Add	35.41	
			For Class 54, Add	50.54	
			For Class 55, Add	58.07	
			For Class 56, Add	65.48	
33 14 13	13-1096	LF	16", Class 50, Push-On Joint Ductile Iron Pipe.....	109.91	21.49
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	31.72	
			For Cement Mortar Lining (CML), Add	7.74	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	23.98	
			For Fusion Bonded Epoxy Lining (206N), Add	13.93	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.80	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-5.50	
			For Class 51, Add	10.95	
			For Class 52, Add	23.65	
			For Class 53, Add	42.68	
			For Class 54, Add	60.92	
			For Class 55, Add	70.00	
			For Class 56, Add	78.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1097 LF 18", Class 50, Push-On Joint Ductile Iron Pipe.....	127.87	25.14
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	36.84	
For Cement Mortar Lining (CML), Add	8.99	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	27.85	
For Fusion Bonded Epoxy Lining (206N), Add	16.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.74	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-6.39	
For Class 51, Add	12.72	
For Class 52, Add	27.47	
For Class 53, Add	49.58	
For Class 54, Add	70.76	
For Class 55, Add	81.31	
For Class 56, Add	91.67	
33 14 13 13-1098 LF 20", Class 50, Push-On Joint Ductile Iron Pipe.....	147.26	30.11
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	38.62	
For Cement Mortar Lining (CML), Add	10.16	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	28.46	
For Fusion Bonded Epoxy Lining (206N), Add	18.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.62	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-7.36	
For Class 51, Add	14.42	
For Class 52, Add	31.13	
For Class 53, Add	56.18	
For Class 54, Add	80.18	
For Class 55, Add	92.14	
For Class 56, Add	103.89	
33 14 13 13-1099 LF 24", Class 50, Push-On Joint Ductile Iron Pipe.....	186.39	37.62
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	40.09	
For Cement Mortar Lining (CML), Add	12.93	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	27.16	
For Fusion Bonded Epoxy Lining (206N), Add	23.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.70	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-9.32	
For Class 51, Add	18.34	
For Class 52, Add	39.59	
For Class 53, Add	71.44	
For Class 54, Add	101.96	
For Class 55, Add	117.17	
For Class 56, Add	132.11	
33 14 13 13-1100 LF 30", Class 50, Push-On Joint Ductile Iron Pipe.....	221.79	40.15
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	49.90	
For Cement Mortar Lining (CML), Add	16.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	28.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.07	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-11.09	
For Class 51, Add	22.70	
For Class 52, Add	49.02	
For Class 53, Add	88.54	
For Class 54, Add	126.40	
For Class 55, Add	145.21	
For Class 56, Add	163.67	
33 14 13 13-1101 LF 36", Class 50, Push-On Joint Ductile Iron Pipe.....	276.57	42.68
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	65.69	
For Cement Mortar Lining (CML), Add	21.19	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	38.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	15.89	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-13.83	
For Class 51, Add	29.69	
For Class 52, Add	64.15	
For Class 53, Add	115.98	
For Class 54, Add	165.63	
For Class 55, Add	190.19	
For Class 56, Add	214.30	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1102 LF 42", Class 50, Push-On Joint Ductile Iron Pipe.....	338.62	45.22
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	83.76	
For Cement Mortar Lining (CML), Add	27.02	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	48.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.26	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-16.93	
For Class 51, Add	37.68	
For Class 52, Add	81.44	
For Class 53, Add	147.36	
For Class 54, Add	210.50	
For Class 55, Add	241.64	
For Class 56, Add	272.22	
33 14 13 13-1103 LF 48", Class 50, Push-On Joint Ductile Iron Pipe.....	409.12	47.65
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	104.42	
For Cement Mortar Lining (CML), Add	33.68	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	60.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.26	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-20.46	
For Class 51, Add	46.81	
For Class 52, Add	101.21	
For Class 53, Add	183.22	
For Class 54, Add	261.77	
For Class 55, Add	300.43	
For Class 56, Add	338.39	
33 14 13 13-1104 LF 54", Class 50, Push-On Joint Ductile Iron Pipe.....	520.97	50.18
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	137.93	
For Cement Mortar Lining (CML), Add	44.49	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	80.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	33.37	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-26.05	
For Class 51, Add	61.60	
For Class 52, Add	133.20	
For Class 53, Add	241.29	
For Class 54, Add	344.80	
For Class 55, Add	395.63	
For Class 56, Add	445.53	
33 14 13 13-1105 Push-On Joint Ductile Iron 90 Degree Elbow (33 14 13 13-1088)		
33 14 13 13-1106 EA 4" 90 Degree Elbow, Push-On Joint Ductile Iron	161.24	34.59
For Cement Mortar Lining (CML), Add	10.88	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	19.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1107 EA 6" 90 Degree Elbow, Push-On Joint Ductile Iron	234.20	51.02
For Cement Mortar Lining (CML), Add	15.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	28.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.76	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1108 EA 8" 90 Degree Elbow, Push-On Joint Ductile Iron	309.43	60.58
For Cement Mortar Lining (CML), Add	21.76	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	39.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.32	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1109 EA 10" 90 Degree Elbow, Push-On Joint Ductile Iron	466.91	66.71
For Cement Mortar Lining (CML), Add	32.89	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	59.21	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.67	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1110 EA 12" 90 Degree Elbow, Push-On Joint Ductile Iron	596.95	78.26
For Cement Mortar Lining (CML), Add	43.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	78.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	32.64	
Note: ANSI/AWWA C151/A21.51		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 14 13 13-1111	EA		14" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,135.97 95.45 171.80 71.58	87.80
	33 14 13 13-1112	EA		16" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,284.89 107.75 193.95 80.81	100.36
	33 14 13 13-1113	EA		18" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,990.73 170.04 306.08 127.53	140.51
	33 14 13 13-1114	EA		20" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,248.28 189.41 340.94 142.06	177.11
	33 14 13 13-1115	EA		24" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,807.47 236.48 425.66 177.36	221.41
	33 14 13 13-1116			Push-On Joint Ductile Iron 45 Degree Elbow (33 14 13 13-1088)		
	33 14 13 13-1117	EA		4" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	136.49 8.41 15.13 6.31	34.59
	33 14 13 13-1118	EA		6" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	200.93 12.36 22.25 9.27	51.02
	33 14 13 13-1119	EA		8" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	273.63 18.18 32.72 13.63	60.58
	33 14 13 13-1120	EA		10" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	417.49 27.95 50.31 20.96	66.71
	33 14 13 13-1121	EA		12" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	533.97 37.22 67.00 27.92	78.26
	33 14 13 13-1122	EA		14" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	742.71 56.12 101.01 42.09	87.80
	33 14 13 13-1123	EA		16" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,078.97 87.16 156.89 65.37	100.36

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1124 EA 18" 45 Degree Elbow, Push-On Joint Ductile Iron	1,258.18	140.51
For Cement Mortar Lining (CML), Add	96.79	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	174.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	72.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1125 EA 20" 45 Degree Elbow, Push-On Joint Ductile Iron	1,746.74	177.11
For Cement Mortar Lining (CML), Add	139.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	250.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	104.44	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1126 EA 24" 45 Degree Elbow, Push-On Joint Ductile Iron	2,168.68	221.41
For Cement Mortar Lining (CML), Add	172.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	310.67	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	129.45	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1127 Push-On Joint Ductile Iron Tee (33 14 13 13-1088)		
33 14 13 13-1128 EA 4" Tee, Push-On Joint Ductile Iron.....	245.60	51.02
For Cement Mortar Lining (CML), Add	16.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	30.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.62	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1129 EA 6" Tee, Push-On Joint Ductile Iron.....	343.89	74.98
For Cement Mortar Lining (CML), Add	23.02	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	41.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1130 EA 8" Tee, Push-On Joint Ductile Iron.....	464.22	90.87
For Cement Mortar Lining (CML), Add	32.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	58.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1131 EA 10" Tee, Push-On Joint Ductile Iron.....	665.68	101.38
For Cement Mortar Lining (CML), Add	51.36	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	92.45	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	38.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1132 EA 12" Tee, Push-On Joint Ductile Iron.....	825.13	116.89
For Cement Mortar Lining (CML), Add	64.77	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	116.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.58	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1133 EA 14" Tee, Push-On Joint Ductile Iron.....	1,305.49	140.51
For Cement Mortar Lining (CML), Add	109.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	196.67	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	81.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1134 EA 16" Tee, Push-On Joint Ductile Iron.....	1,873.61	175.69
For Cement Mortar Lining (CML), Add	160.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	289.35	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	120.56	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1135 EA 18" Tee, Push-On Joint Ductile Iron.....	2,361.57	234.39
For Cement Mortar Lining (CML), Add	200.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	361.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	150.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1136 EA 20" Tee, Push-On Joint Ductile Iron.....	2,787.66	285.99
For Cement Mortar Lining (CML), Add	235.44	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	423.79	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	176.58	
Note: ANSI/AWWA C151/A21.51		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1137 EA 24" Tee, Push-On Joint Ductile Iron.....	3,642.82	357.46
For Cement Mortar Lining (CML), Add	310.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	558.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	232.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1138 Flanged End x Push-On Joint Ductile Iron Adapters (33 14 13 13-1088)		
33 14 13 13-1139 EA 4" Flanged End x Push-On Joint Adapter, Ductile Iron	364.65	119.99
For Cement Mortar Lining (CML), Add	18.29	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	32.91	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.71	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1140 EA 6" Flanged End x Push-On Joint Adapter, Ductile Iron	446.71	148.56
For Cement Mortar Lining (CML), Add	22.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	39.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.62	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1141 EA 8" Flanged End x Push-On Joint Adapter, Ductile Iron	581.19	173.26
For Cement Mortar Lining (CML), Add	31.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	57.35	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.90	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1142 EA 10" Flanged End x Push-On Joint Adapter, Ductile Iron	795.76	250.91
For Cement Mortar Lining (CML), Add	41.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	74.81	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	31.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1143 EA 12" Flanged End x Push-On Joint Adapter, Ductile Iron	960.89	286.80
For Cement Mortar Lining (CML), Add	52.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	94.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	39.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1144 EA 14" Flanged End x Push-On Joint Adapter, Ductile Iron	1,105.14	308.80
For Cement Mortar Lining (CML), Add	63.72	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	114.70	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	47.79	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1145 EA 16" Flanged End x Push-On Joint Adapter, Ductile Iron	1,310.36	334.55
For Cement Mortar Lining (CML), Add	80.35	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	144.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	60.26	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1146 EA 18" Flanged End x Push-On Joint Adapter, Ductile Iron	1,550.27	401.46
For Cement Mortar Lining (CML), Add	94.20	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	169.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	70.65	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1147 EA 20" Flanged End x Push-On Joint Adapter, Ductile Iron	1,797.95	446.06
For Cement Mortar Lining (CML), Add	112.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	201.98	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	84.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1148 EA 24" Flanged End x Push-On Joint Adapter, Ductile Iron	2,248.25	514.70
For Cement Mortar Lining (CML), Add	146.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	264.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	110.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1149 EA 30" Flanged End x Push-On Joint Adapter, Ductile Iron	3,571.20	617.60
For Cement Mortar Lining (CML), Add	263.54	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	474.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	197.65	
Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1150 EA 36" Flanged End x Push-On Joint Adapter, Ductile Iron	4,930.00	772.00
For Cement Mortar Lining (CML), Add	376.03	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	676.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	282.02	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1151 EA 42" Flanged End x Push-On Joint Adapter, Ductile Iron	6,220.76	892.13
For Cement Mortar Lining (CML), Add	486.90	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	876.43	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	365.18	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1152 EA 48" Flanged End x Push-On Joint Adapter, Ductile Iron	7,940.71	1,146.99
For Cement Mortar Lining (CML), Add	620.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,116.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	465.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1153 EA 54" Flanged End x Push-On Joint Adapter, Ductile Iron	9,640.60	1,338.50
For Cement Mortar Lining (CML), Add	761.25	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,370.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	570.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1154 Push-On Joint Ductile Iron Pipe And Fitting Restraints <small>(33 14 13 13-1088)</small>		
Note: Includes ductile iron follower gland, restraint ring and all nuts and bolts. Excludes pipe and fitting.		
33 14 13 13-1155 EA 4" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	36.17	18.68
33 14 13 13-1156 EA 6" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	48.35	24.38
33 14 13 13-1157 EA 8" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	63.16	24.80
33 14 13 13-1158 EA 10" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	72.94	26.35
33 14 13 13-1159 EA 12" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	85.54	29.27
33 14 13 13-1160 EA 14" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	105.62	32.93
33 14 13 13-1161 EA 16" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	123.89	37.63
33 14 13 13-1162 EA 18" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	138.67	40.77
33 14 13 13-1163 EA 20" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	162.51	48.92
33 14 13 13-1164 EA 24" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	190.62	50.81
33 14 13 13-1165 EA 30" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	239.44	56.45
33 14 13 13-1166 EA 36" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	305.21	61.15
33 14 13 13-1167 EA 42" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	371.90	66.91
33 14 13 13-1168 EA 48" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	436.69	75.28
33 14 13 13-1169 EA 54" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	590.55	81.63
33 14 13 13-1170 Push-On Joint Ductile Iron Bell Restraint Harness (MEGALUG® 1700 Series) <small>(33 14 13 13-1088)</small>		
33 14 13 13-1171 EA 4" Bell Restraint Harness, Ductile Iron (MEGALUG® 170400)	218.39	68.43
33 14 13 13-1172 EA 6" Bell Restraint Harness, Ductile Iron (MEGALUG® 170600)	288.13	83.53
33 14 13 13-1173 EA 8" Bell Restraint Harness, Ductile Iron (MEGALUG® 170800)	370.97	101.88
33 14 13 13-1174 EA 10" Bell Restraint Harness, Ductile Iron (MEGALUG® 171000)	559.00	124.29
33 14 13 13-1175 EA 12" Bell Restraint Harness, Ductile Iron (MEGALUG® 171200)	693.32	151.56
33 14 13 13-1176 EA 14" Bell Restraint Harness, Ductile Iron (MEGALUG® 171400)	1,195.08	184.92
33 14 13 13-1177 EA 16" Bell Restraint Harness, Ductile Iron (MEGALUG® 171600)	1,364.41	225.67
33 14 13 13-1178 EA 18" Bell Restraint Harness, Ductile Iron (MEGALUG® 171800)	1,548.94	275.24
33 14 13 13-1179 EA 20" Bell Restraint Harness, Ductile Iron (MEGALUG® 172000)	2,105.46	335.87
33 14 13 13-1180 EA 24" Bell Restraint Harness, Ductile Iron (MEGALUG® 172400)	2,685.35	409.67
33 14 13 13-1181 EA 30" Bell Restraint Harness, Ductile Iron (MEGALUG® 173000)	4,634.43	499.90
33 14 13 13-1182 EA 36" Bell Restraint Harness, Ductile Iron (MEGALUG® 173600)	6,575.41	609.79
33 14 13 13-1183 EA 42" Bell Restraint Harness, Ductile Iron (MEGALUG® 174200)	11,943.58	744.02
33 14 13 13-1184 EA 48" Bell Restraint Harness, Ductile Iron (MEGALUG® 174800)	15,451.18	907.64
33 14 13 13-1185 Ductile Iron Pipe Repair <small>(33 14 13 13-0001)</small>		
See CSI section 33 14 13 13-0002 for mechanical joint fittings.		
33 14 13 13-1186 Ductile Iron Pipe Repair <small>(33 14 13 13-1185)</small>		
Note: Includes two transition sleeves, mechanical joint ductile iron sleeve and 16' of ductile iron pipe.		
33 14 13 13-1187 EA 30" Diameter Mechanical Ductile Iron Push Joint	2,557.70	
33 14 13 13-1188 EA 36" Diameter Mechanical Ductile Iron Push Joint	3,221.82	
33 14 13 13-1189 EA 42" Diameter Mechanical Ductile Iron Push Joint	4,018.16	
33 14 13 13-1190 EA 48" Diameter Mechanical Ductile Iron Push Joint	5,027.59	
33 14 13 13-1191 EA 54" Diameter Mechanical Ductile Iron Push Joint	7,215.12	
33 14 13 13-1192 WEKO Seals <small>(33 14 13 13-1185)</small>		
Note: Internal joint seal.		
33 14 13 13-1193 EA 16" WEKO Internal Joint Seal	1,351.61	197.50
For Extra Wide Seals, Add	84.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1194 EA 18" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	1,439.08 85.80	208.55
33 14 13 13-1195 EA 20" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	1,526.39 86.64	219.60
33 14 13 13-1196 EA 24" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	1,619.32 87.97	237.17
33 14 13 13-1197 EA 30" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	1,676.40 89.30	254.74
33 14 13 13-1198 EA 36" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	1,763.44 90.96	276.69
33 14 13 13-1199 EA 42" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	1,884.02 92.96	303.05
33 14 13 13-1200 EA 48" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,033.79 94.62	325.01
33 14 13 13-1201 EA 54" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,112.39 95.95	342.58
33 14 13 13-1202 EA 60" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,207.88 97.95	368.93
 33 14 13 23 Plastic Public Water Utility Distribution Piping (33 14 13)		
33 14 13 23-0001 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Piping (33 14 13 23)		
33 14 13 23-0002 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe (33 14 13 23-0001)		
33 14 13 23-0003 LF 3/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i>	2.20 -0.11	0.78
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.04	
33 14 13 23-0004 LF 1" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i>	2.42 -0.12	0.83
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.05	
33 14 13 23-0005 LF 1-1/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i>	2.80 -0.14	0.91
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.08	
33 14 13 23-0006 LF 1-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i>	3.23 -0.16	1.01
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.11	
33 14 13 23-0007 LF 2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i>	4.13 -0.21	1.13
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.20	
33 14 13 23-0008 LF 2-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i>	5.28 -0.26	1.28
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.31	
33 14 13 23-0009 LF 3" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i>	6.41 -0.32	1.42
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.43	
33 14 13 23-0010 LF 4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i>	9.03 -0.45	1.76
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.70	
33 14 13 23-0011 LF 6" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i>	15.69 -0.78	2.23
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	1.52	
33 14 13 23-0012 LF 8" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i>	24.99 -1.25	3.14
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	2.57	
33 14 13 23-0013 LF 10" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i>	37.15 -1.86	4.19
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	4.00	
33 14 13 23-0014 LF 12" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe <i>For >1,000, Deduct</i>	51.68 -2.58	5.63
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	5.64	
 33 14 13 23-0015 90 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)		
33 14 13 23-0016 EA 3/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	23.58	9.32
33 14 13 23-0017 EA 1", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	29.79	11.65
33 14 13 23-0018 EA 1-1/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	37.50	14.56
33 14 13 23-0019 EA 1-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	55.08	16.12
33 14 13 23-0020 EA 2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	59.73	18.06
33 14 13 23-0021 EA 2-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	70.51	20.49
33 14 13 23-0022 EA 3", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	78.64	22.83
33 14 13 23-0023 EA 4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	108.40	28.03
33 14 13 23-0024 EA 6", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	155.10	35.61
33 14 13 23-0025 EA 8", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	248.85	46.75
33 14 13 23-0026 EA 10", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	307.07	62.55
33 14 13 23-0027 EA 12", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	406.23	84.19
 33 14 13 23-0028 45 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)		
33 14 13 23-0029 EA 3/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	23.98	9.32
33 14 13 23-0030 EA 1" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	30.07	11.65
33 14 13 23-0031 EA 1-1/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	37.67	14.56
33 14 13 23-0032 EA 1-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	49.89	16.12
33 14 13 23-0033 EA 2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	60.21	18.06

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0034 EA 2-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	72.46	20.49
33 14 13 23-0035 EA 3" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	77.82	22.83
33 14 13 23-0036 EA 4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	106.62	28.03
33 14 13 23-0037 EA 6" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	151.50	35.61
33 14 13 23-0038 EA 8" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	241.99	46.75
33 14 13 23-0039 EA 10" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	278.65	62.55
33 14 13 23-0040 EA 12" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	366.91	84.19
33 14 13 23-0041 Tees Or Wyes, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)		
33 14 13 23-0042 EA 3/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	35.35	13.98
33 14 13 23-0043 EA 1" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	44.60	17.57
33 14 13 23-0044 EA 1-1/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	55.90	21.94
33 14 13 23-0045 EA 1-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	76.24	24.28
33 14 13 23-0046 EA 2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	86.65	26.99
33 14 13 23-0047 EA 2-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	100.70	30.79
33 14 13 23-0048 EA 3" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	120.18	34.15
33 14 13 23-0049 EA 4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	157.32	42.09
33 14 13 23-0050 EA 6" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	257.48	53.51
33 14 13 23-0051 EA 8" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	383.82	70.13
33 14 13 23-0052 EA 10" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	461.62	100.51
33 14 13 23-0053 EA 12" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	579.64	135.25
33 14 13 23-0054 Couplings, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)		
33 14 13 23-0055 EA 3/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	15.78	6.22
33 14 13 23-0056 EA 1" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	21.31	8.36
33 14 13 23-0057 EA 1-1/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	28.41	10.97
33 14 13 23-0058 EA 1-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	38.94	12.14
33 14 13 23-0059 EA 2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	42.98	13.50
33 14 13 23-0060 EA 2-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	48.88	15.34
33 14 13 23-0061 EA 3" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	55.76	17.07
33 14 13 23-0062 EA 4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	76.06	21.00
33 14 13 23-0063 EA 6" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	108.06	26.75
33 14 13 23-0064 EA 8" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	181.58	35.06
33 14 13 23-0065 EA 10" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	219.66	50.31
33 14 13 23-0066 EA 12" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	280.83	67.63
33 14 13 23-0067 Schedule 40 Polyvinyl Chloride (PVC) Pipe And Fittings (33 14 13 23)		
33 14 13 23-0068 Schedule 40 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0067)		
33 14 13 23-0069 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe	2.40	0.78
For >1,000, Deduct	-0.12	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.07	
33 14 13 23-0070 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe	2.80	0.83
For >1,000, Deduct	-0.14	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.11	
33 14 13 23-0071 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	3.58	1.01
For >1,000, Deduct	-0.18	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.16	
33 14 13 23-0072 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	4.27	1.13
For >1,000, Deduct	-0.21	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.22	
33 14 13 23-0073 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	5.49	1.28
For >1,000, Deduct	-0.27	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.34	
33 14 13 23-0074 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pipe	6.54	1.42
For >1,000, Deduct	-0.33	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.45	
33 14 13 23-0075 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pipe	8.66	1.76
For >1,000, Deduct	-0.43	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.64	
33 14 13 23-0076 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pipe	13.05	2.23
For >1,000, Deduct	-0.65	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.12	
33 14 13 23-0077 90 Degree Elbows, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0067)		
33 14 13 23-0078 EA 3/4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	23.73	9.32
33 14 13 23-0079 EA 1" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	29.87	11.65
33 14 13 23-0080 EA 1-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	41.53	16.12
33 14 13 23-0081 EA 2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	46.86	18.06
33 14 13 23-0082 EA 2-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	56.06	20.49
33 14 13 23-0083 EA 3" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	62.83	22.83
33 14 13 23-0084 EA 4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	81.94	28.03
33 14 13 23-0085 EA 6" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	126.77	35.61
33 14 13 23-0086 45 Degree Elbows, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0067)		
33 14 13 23-0087 EA 3/4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	23.69	9.32
33 14 13 23-0088 EA 1" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	29.84	11.65



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0089 EA 1-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	41.55	16.12
33 14 13 23-0090 EA 2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	46.73	18.06
33 14 13 23-0091 EA 2-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	55.69	20.49
33 14 13 23-0092 EA 3" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	62.40	22.83
33 14 13 23-0093 EA 4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	81.07	28.03
33 14 13 23-0094 EA 6" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	123.98	35.61
33 14 13 23-0095 Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0067)		
33 14 13 23-0096 EA 3/4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	35.50	13.98
33 14 13 23-0097 EA 1" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	44.71	17.57
33 14 13 23-0098 EA 1-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	62.13	24.28
33 14 13 23-0099 EA 2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	69.82	26.99
33 14 13 23-0100 EA 2-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	84.29	30.79
33 14 13 23-0101 EA 3" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	96.04	34.15
33 14 13 23-0102 EA 4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	119.35	42.09
33 14 13 23-0103 EA 6" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	192.82	53.51
33 14 13 23-0104 Couplings, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0067)		
33 14 13 23-0105 EA 3/4" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	15.85	6.22
33 14 13 23-0106 EA 1" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	21.36	8.36
33 14 13 23-0107 EA 1-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	30.98	12.14
33 14 13 23-0108 EA 2" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	34.90	13.50
33 14 13 23-0109 EA 2-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	40.86	15.34
33 14 13 23-0110 EA 3" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	46.47	17.07
33 14 13 23-0111 EA 4" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	57.56	21.00
33 14 13 23-0112 EA 6" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	84.01	26.75
33 14 13 23-0113 Crosses, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0067)		
33 14 13 23-0114 EA 3/4" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	47.47	18.65
33 14 13 23-0115 EA 1" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	59.55	23.40
33 14 13 23-0116 EA 1-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	82.82	32.34
33 14 13 23-0117 EA 2" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	93.09	36.03
33 14 13 23-0118 EA 2-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	112.36	40.98
33 14 13 23-0119 EA 3" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	127.99	45.56
33 14 13 23-0120 EA 4" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	159.05	56.06
33 14 13 23-0121 EA 6" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	256.75	71.32
33 14 13 23-0122 Schedule 80 Polyvinyl Chloride (PVC) Pipe And Fittings (33 14 13 23)		
33 14 13 23-0123 Schedule 80 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0122)		
33 14 13 23-0124 LF 1" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	3.02	0.83
For >1,000, Deduct	-0.15	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.14	
33 14 13 23-0125 LF 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	4.02	1.01
For >1,000, Deduct	-0.20	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.23	
33 14 13 23-0126 LF 2" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	5.00	1.13
For >1,000, Deduct	-0.25	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.33	
33 14 13 23-0127 LF 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	6.45	1.28
For >1,000, Deduct	-0.32	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.49	
33 14 13 23-0128 LF 3" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	7.88	1.42
For >1,000, Deduct	-0.39	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.65	
33 14 13 23-0129 LF 4" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	10.71	1.76
For >1,000, Deduct	-0.54	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.95	
33 14 13 23-0130 LF 6" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	17.60	2.23
For >1,000, Deduct	-0.88	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.80	
33 14 13 23-0131 90 Degree Elbows, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0122)		
33 14 13 23-0132 EA 1" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC).....	31.00	11.65
33 14 13 23-0133 EA 1-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC).....	41.53	16.12
33 14 13 23-0134 EA 2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC).....	48.00	18.06
33 14 13 23-0135 EA 2-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC).....	58.47	20.49
33 14 13 23-0136 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	65.07	22.83
33 14 13 23-0137 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	82.48	28.03
33 14 13 23-0138 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	124.22	35.61
33 14 13 23-0139 45 Degree Elbows, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0122)		
33 14 13 23-0140 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	35.65	11.65
33 14 13 23-0141 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	46.01	16.12
33 14 13 23-0142 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	52.30	18.06

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0143	EA		2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	66.54	20.49
33 14 13 23-0144	EA		3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	75.58	22.83
33 14 13 23-0145	EA		4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	103.61	28.03
33 14 13 23-0146	EA		6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	122.80	35.61
33 14 13 23-0147			Tees Or Wyes, Schedule 80 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0122)</small>		
33 14 13 23-0148	EA		1" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	47.09	17.57
33 14 13 23-0149	EA		1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	69.35	24.28
33 14 13 23-0150	EA		2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	78.43	26.99
33 14 13 23-0151	EA		2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	88.85	30.79
33 14 13 23-0152	EA		3" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	100.40	34.15
33 14 13 23-0153	EA		4" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	122.50	42.09
33 14 13 23-0154	EA		6" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	192.70	53.51
33 14 13 23-0155			Couplings, Schedule 80 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0122)</small>		
33 14 13 23-0156	EA		1" Schedule 80 Polyvinyl Chloride (PVC) Coupling	23.06	8.36
33 14 13 23-0157	EA		1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	33.90	12.14
33 14 13 23-0158	EA		2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	37.65	13.50
33 14 13 23-0159	EA		2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	47.91	15.34
33 14 13 23-0160	EA		3" Schedule 80 Polyvinyl Chloride (PVC) Coupling	53.58	17.07
33 14 13 23-0161	EA		4" Schedule 80 Polyvinyl Chloride (PVC) Coupling	66.20	21.00
33 14 13 23-0162	EA		6" Schedule 80 Polyvinyl Chloride (PVC) Coupling	96.07	26.75
33 14 13 23-0163			Crosses, Schedule 80 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0122)</small>		
33 14 13 23-0164	EA		1" Schedule 80 Polyvinyl Chloride (PVC) Cross	62.71	23.40
33 14 13 23-0165	EA		1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross	92.41	32.34
33 14 13 23-0166	EA		2" Schedule 80 Polyvinyl Chloride (PVC) Cross	104.52	36.03
33 14 13 23-0167	EA		2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross	118.42	40.98
33 14 13 23-0168	EA		3" Schedule 80 Polyvinyl Chloride (PVC) Cross	133.78	45.56
33 14 13 23-0169	EA		4" Schedule 80 Polyvinyl Chloride (PVC) Cross	163.23	56.06
33 14 13 23-0170	EA		6" Schedule 80 Polyvinyl Chloride (PVC) Cross	256.60	71.32
33 14 13 23-0171			AWWA C900/C905 Polyvinyl Chloride (PVC) Pipe <small>(33 14 13 23)</small>		
			Note: Includes hub on one end of pipe. C900 is available in blue, white, purple or green.		
33 14 13 23-0172			AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe <small>(33 14 13 23-0171)</small>		
33 14 13 23-0173	LF		4" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	9.39	3.51
33 14 13 23-0174	LF		6" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	13.31	4.26
33 14 13 23-0175	LF		8" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	17.86	4.79
33 14 13 23-0176	LF		10" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	23.14	5.33
33 14 13 23-0177	LF		12" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	29.59	5.96
33 14 13 23-0178			AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe <small>(33 14 13 23-0171)</small>		
33 14 13 23-0179	LF		4" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	10.23	3.51
33 14 13 23-0180	LF		6" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	15.07	4.26
33 14 13 23-0181	LF		8" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	20.81	4.79
33 14 13 23-0182	LF		10" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	27.73	5.33
33 14 13 23-0183	LF		12" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	35.99	5.96
33 14 13 23-0184			AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe <small>(33 14 13 23-0171)</small>		
33 14 13 23-0185	LF		4" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	11.06	3.51
33 14 13 23-0186	LF		6" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	16.81	4.26
33 14 13 23-0187	LF		8" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	23.77	4.79
33 14 13 23-0188	LF		10" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	32.21	5.33
33 14 13 23-0189	LF		12" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	42.40	5.96
33 14 13 23-0190			AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe <small>(33 14 13 23-0171)</small>		
33 14 13 23-0191	LF		18" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	46.35	8.94
33 14 13 23-0192	LF		20" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	56.41	10.64
33 14 13 23-0193	LF		24" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	75.14	12.77
33 14 13 23-0194	LF		30" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	107.32	14.90
33 14 13 23-0195	LF		36" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	146.92	17.03
33 14 13 23-0196	LF		42" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	184.94	18.09
33 14 13 23-0197	LF		48" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	233.01	19.48
33 14 13 23-0198			AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe <small>(33 14 13 23-0171)</small>		
33 14 13 23-0199	LF		14" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	34.23	6.70
33 14 13 23-0200	LF		16" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	42.63	7.45
33 14 13 23-0201	LF		18" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	52.77	8.94
33 14 13 23-0202	LF		20" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	64.74	10.64
33 14 13 23-0203	LF		24" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	87.99	12.77
33 14 13 23-0204	LF		30" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	125.75	14.90



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0205 LF 36" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	171.60	17.03
33 14 13 23-0206 LF 42" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	225.98	18.09
33 14 13 23-0207 LF 48" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	286.26	19.48
33 14 13 23-0208 AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0209 LF 14" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	39.17	6.70
33 14 13 23-0210 LF 16" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	49.48	7.45
33 14 13 23-0211 LF 18" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	61.28	8.94
33 14 13 23-0212 LF 20" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	75.78	10.64
33 14 13 23-0213 LF 24" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	103.85	12.77
33 14 13 23-0214 LF 30" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	149.57	14.90
33 14 13 23-0215 LF 36" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	206.38	17.03
33 14 13 23-0216 LF 42" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	267.19	18.09
33 14 13 23-0217 LF 48" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	340.03	19.48
33 14 13 23-0218 AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0219 LF 14" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	47.61	6.70
33 14 13 23-0220 LF 16" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	59.51	7.45
33 14 13 23-0221 LF 18" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	74.18	8.94
33 14 13 23-0222 LF 20" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	91.37	10.64
33 14 13 23-0223 LF 24" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	126.33	12.77
33 14 13 23-0224 LF 30" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	184.85	14.90
33 14 13 23-0225 LF 36" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	260.61	17.03
33 14 13 23-0226 LF 42" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	346.72	18.09
33 14 13 23-0227 LF 48" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	446.76	19.48
33 14 13 23-0228 AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0229 LF 14" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	53.95	6.70
33 14 13 23-0230 LF 16" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	67.76	7.45
33 14 13 23-0231 LF 18" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	84.59	8.94
33 14 13 23-0232 LF 20" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	104.33	10.64
33 14 13 23-0233 LF 24" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	144.98	12.77
33 14 13 23-0234 LF 30" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	213.54	14.90
33 14 13 23-0235 LF 36" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	302.52	17.03
33 14 13 23-0236 LF 42" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	404.16	18.09
33 14 13 23-0237 AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0171)		
33 14 13 23-0238 LF 14" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	60.13	6.70
33 14 13 23-0239 LF 16" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	75.78	7.45
33 14 13 23-0240 LF 18" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	94.71	8.94
33 14 13 23-0241 LF 20" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	116.95	10.64
33 14 13 23-0242 LF 24" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	163.11	12.77
33 14 13 23-0243 LF 30" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	241.45	14.90
33 14 13 23-0244 LF 36" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	343.30	17.03
33 14 13 23-0245 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) Fittings (33 14 13 23)		
Note: Includes rubber gaskets.		
33 14 13 23-0246 90 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)		
33 14 13 23-0247 EA 4" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	174.04	11.65
For DR 25, Deduct	-9.04	
33 14 13 23-0248 EA 6" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	355.25	13.11
For DR 25, Deduct	-19.74	
33 14 13 23-0249 EA 8" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	533.10	14.56
For DR 25, Deduct	-30.24	
33 14 13 23-0250 EA 10" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	814.92	23.49
For DR 25, Deduct	-46.08	
33 14 13 23-0251 EA 12" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,061.60	39.14
For DR 25, Deduct	-59.00	
33 14 13 23-0252 EA 14" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,593.02	48.93
For DR 25, Deduct	-89.71	
33 14 13 23-0253 EA 16" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,901.11	58.72
For DR 25, Deduct	-107.02	
33 14 13 23-0254 EA 18" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,259.41	78.30
For DR 25, Deduct	-186.17	
33 14 13 23-0255 EA 20" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,012.63	97.86
For DR 25, Deduct	-229.01	
33 14 13 23-0256 EA 24" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	6,657.08	132.12
For DR 25, Deduct	-383.57	
33 14 13 23-0257 45 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)		
33 14 13 23-0258 EA 4" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	154.36	11.65
For DR 25, Deduct	-7.86	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0259 EA 6" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	265.99	13.11
<i>For DR 25, Deduct</i>	-14.39	
33 14 13 23-0260 EA 8" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	336.86	14.56
<i>For DR 25, Deduct</i>	-18.46	
33 14 13 23-0261 EA 10" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	477.42	23.49
<i>For DR 25, Deduct</i>	-25.83	
33 14 13 23-0262 EA 12" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	639.29	39.14
<i>For DR 25, Deduct</i>	-33.66	
33 14 13 23-0263 EA 14" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,225.67	48.93
<i>For DR 25, Deduct</i>	-67.67	
33 14 13 23-0264 EA 16" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,553.10	58.72
<i>For DR 25, Deduct</i>	-86.14	
33 14 13 23-0265 EA 18" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,677.56	78.30
<i>For DR 25, Deduct</i>	-151.26	
33 14 13 23-0266 EA 20" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,325.73	97.86
<i>For DR 25, Deduct</i>	-187.80	
33 14 13 23-0267 EA 24" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,692.50	132.12
<i>For DR 25, Deduct</i>	-265.70	
33 14 13 23-0268 22-1/2 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)		
33 14 13 23-0269 EA 4" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	151.96	11.65
<i>For DR 25, Deduct</i>	-7.72	
33 14 13 23-0270 EA 6" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	266.00	13.11
<i>For DR 25, Deduct</i>	-14.39	
33 14 13 23-0271 EA 8" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	336.87	14.56
<i>For DR 25, Deduct</i>	-18.46	
33 14 13 23-0272 EA 10" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	477.44	23.49
<i>For DR 25, Deduct</i>	-25.83	
33 14 13 23-0273 EA 12" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	639.30	39.14
<i>For DR 25, Deduct</i>	-33.66	
33 14 13 23-0274 EA 14" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,221.74	46.98
<i>For DR 25, Deduct</i>	-67.67	
33 14 13 23-0275 EA 16" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,553.08	58.72
<i>For DR 25, Deduct</i>	-86.14	
33 14 13 23-0276 EA 18" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,677.56	78.30
<i>For DR 25, Deduct</i>	-151.26	
33 14 13 23-0277 EA 20" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,325.73	97.86
<i>For DR 25, Deduct</i>	-187.80	
33 14 13 23-0278 EA 24" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,692.50	132.12
<i>For DR 25, Deduct</i>	-265.70	
33 14 13 23-0279 11-1/4 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)		
33 14 13 23-0280 EA 4" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	134.34	11.65
<i>For DR 25, Deduct</i>	-6.66	
33 14 13 23-0281 EA 6" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	266.00	13.11
<i>For DR 25, Deduct</i>	-14.39	
33 14 13 23-0282 EA 8" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	336.87	14.56
<i>For DR 25, Deduct</i>	-18.46	
33 14 13 23-0283 EA 10" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	477.44	23.49
<i>For DR 25, Deduct</i>	-25.83	
33 14 13 23-0284 EA 12" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	639.30	39.14
<i>For DR 25, Deduct</i>	-33.66	
33 14 13 23-0285 EA 14" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,221.74	46.98
<i>For DR 25, Deduct</i>	-67.67	
33 14 13 23-0286 EA 16" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,553.08	58.72
<i>For DR 25, Deduct</i>	-86.14	
33 14 13 23-0287 EA 18" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,677.56	78.30
<i>For DR 25, Deduct</i>	-151.26	
33 14 13 23-0288 EA 20" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,325.73	97.86
<i>For DR 25, Deduct</i>	-187.80	
33 14 13 23-0289 EA 24" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,692.50	132.12
<i>For DR 25, Deduct</i>	-265.70	
33 14 13 23-0290 Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0245)		
33 14 13 23-0291 EA 4" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	206.76	13.11
<i>For DR 25, Deduct</i>	-10.83	
33 14 13 23-0292 EA 6" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	398.24	14.56
<i>For DR 25, Deduct</i>	-22.15	
33 14 13 23-0293 EA 8" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	555.34	16.51
<i>For DR 25, Deduct</i>	-31.34	
33 14 13 23-0294 EA 10" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,145.38	29.36
<i>For DR 25, Deduct</i>	-65.20	
33 14 13 23-0295 EA 12" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,400.98	58.72
<i>For DR 25, Deduct</i>	-77.01	
33 14 13 23-0296 EA 14" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,525.95	73.40
<i>For DR 25, Deduct</i>	-142.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0297 EA 16" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,128.27	88.08
For DR 25, Deduct	-177.12	
33 14 13 23-0298 EA 18" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,947.97	117.44
For DR 25, Deduct	-222.79	
33 14 13 23-0299 EA 20" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,741.77	146.80
For DR 25, Deduct	-266.89	
33 14 13 23-0300 EA 24" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	6,492.31	99.82
For DR 25, Deduct	-377.56	
33 14 13 23-0301 Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0245)</small>		
33 14 13 23-0302 EA 6" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	397.00	18.93
For DR 25, Deduct	-21.55	
33 14 13 23-0303 EA 8" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	539.44	20.39
For DR 25, Deduct	-29.92	
33 14 13 23-0304 EA 8" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	552.98	21.12
For DR 25, Deduct	-30.64	
33 14 13 23-0305 EA 10" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	718.61	29.36
For DR 25, Deduct	-39.59	
33 14 13 23-0306 EA 10" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	971.98	30.09
For DR 25, Deduct	-54.71	
33 14 13 23-0307 EA 10" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,039.62	30.82
For DR 25, Deduct	-58.68	
33 14 13 23-0308 EA 12" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,103.79	45.02
For DR 25, Deduct	-60.83	
33 14 13 23-0309 EA 12" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,266.28	45.75
For DR 25, Deduct	-70.49	
33 14 13 23-0310 EA 12" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,343.10	46.49
For DR 25, Deduct	-75.01	
33 14 13 23-0311 EA 12" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,368.88	50.89
For DR 25, Deduct	-76.03	
33 14 13 23-0312 EA 14" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,075.71	52.84
For DR 25, Deduct	-118.20	
33 14 13 23-0313 EA 14" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,159.02	53.58
For DR 25, Deduct	-123.11	
33 14 13 23-0314 EA 14" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,242.54	54.31
For DR 25, Deduct	-128.03	
33 14 13 23-0315 EA 14" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,332.91	58.72
For DR 25, Deduct	-132.93	
33 14 13 23-0316 EA 14" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,430.46	66.55
For DR 25, Deduct	-137.84	
33 14 13 23-0317 EA 16" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,590.24	64.59
For DR 25, Deduct	-147.66	
33 14 13 23-0318 EA 16" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,672.05	64.59
For DR 25, Deduct	-152.57	
33 14 13 23-0319 EA 16" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,755.37	65.33
For DR 25, Deduct	-157.48	
33 14 13 23-0320 EA 16" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,838.69	66.06
For DR 25, Deduct	-162.39	
33 14 13 23-0321 EA 16" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,944.97	78.30
For DR 25, Deduct	-167.30	
33 14 13 23-0322 EA 16" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,034.64	82.21
For DR 25, Deduct	-172.21	
33 14 13 23-0323 EA 18" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,201.66	84.16
For DR 25, Deduct	-182.00	
33 14 13 23-0324 EA 18" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,285.55	84.90
For DR 25, Deduct	-186.95	
33 14 13 23-0325 EA 18" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,368.86	85.63
For DR 25, Deduct	-191.86	
33 14 13 23-0326 EA 18" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,459.50	90.04
For DR 25, Deduct	-196.77	
33 14 13 23-0327 EA 18" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,556.98	97.86
For DR 25, Deduct	-201.67	
33 14 13 23-0328 EA 18" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,646.08	101.79
For DR 25, Deduct	-206.55	
33 14 13 23-0329 EA 18" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,759.45	107.65
For DR 25, Deduct	-212.65	
33 14 13 23-0330 EA 20" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,060.31	103.74
For DR 25, Deduct	-231.17	
33 14 13 23-0331 EA 20" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,201.52	104.47
For DR 25, Deduct	-239.55	
33 14 13 23-0332 EA 20" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,257.17	105.21
For DR 25, Deduct	-242.81	
33 14 13 23-0333 EA 20" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,320.23	109.61
For DR 25, Deduct	-246.06	
33 14 13 23-0334 EA 20" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,390.08	117.44
For DR 25, Deduct	-249.31	
33 14 13 23-0335 EA 20" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,485.78	121.35
For DR 25, Deduct	-254.58	
33 14 13 23-0336 EA 20" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,585.41	127.23
For DR 25, Deduct	-259.86	
33 14 13 23-0337 EA 20" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,663.58	137.02
For DR 25, Deduct	-263.37	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0338	EA		24" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,782.74	137.99
			<i>For DR 25, Deduct</i>	-270.41	
33 14 13 23-0339	EA		24" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,842.85	138.73
			<i>For DR 25, Deduct</i>	-273.92	
33 14 13 23-0340	EA		24" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,902.94	139.46
			<i>For DR 25, Deduct</i>	-277.44	
33 14 13 23-0341	EA		24" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,150.12	143.87
			<i>For DR 25, Deduct</i>	-291.74	
33 14 13 23-0342	EA		24" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,404.14	151.69
			<i>For DR 25, Deduct</i>	-306.05	
33 14 13 23-0343	EA		24" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,650.34	155.61
			<i>For DR 25, Deduct</i>	-320.35	
33 14 13 23-0344	EA		24" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,900.47	161.48
			<i>For DR 25, Deduct</i>	-334.65	
33 14 13 23-0345	EA		24" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,158.43	171.27
			<i>For DR 25, Deduct</i>	-348.95	
33 14 13 23-0346	EA		24" x 20" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,416.37	181.06
			<i>For DR 25, Deduct</i>	-363.26	
33 14 13 23-0347			Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0245)</small>		
33 14 13 23-0348	EA		4" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	287.35	23.30
			<i>For DR 25, Deduct</i>	-14.44	
33 14 13 23-0349	EA		6" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	514.46	26.22
			<i>For DR 25, Deduct</i>	-27.72	
33 14 13 23-0350	EA		8" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	711.49	29.13
			<i>For DR 25, Deduct</i>	-39.19	
33 14 13 23-0351	EA		10" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,451.70	46.98
			<i>For DR 25, Deduct</i>	-81.47	
33 14 13 23-0352	EA		12" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,722.19	58.72
			<i>For DR 25, Deduct</i>	-96.29	
33 14 13 23-0353	EA		14" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,130.69	78.30
			<i>For DR 25, Deduct</i>	-178.45	
33 14 13 23-0354	EA		16" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,885.27	97.86
			<i>For DR 25, Deduct</i>	-221.38	
33 14 13 23-0355	EA		18" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,955.24	156.59
			<i>For DR 25, Deduct</i>	-278.52	
33 14 13 23-0356	EA		20" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,951.77	195.74
			<i>For DR 25, Deduct</i>	-333.62	
33 14 13 23-0357	EA		24" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	8,393.84	264.24
			<i>For DR 25, Deduct</i>	-471.92	
33 14 13 23-0358			Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0245)</small>		
33 14 13 23-0359	EA		6" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	498.78	24.76
			<i>For DR 25, Deduct</i>	-26.96	
33 14 13 23-0360	EA		8" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	676.53	26.22
			<i>For DR 25, Deduct</i>	-37.45	
33 14 13 23-0361	EA		8" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	693.90	27.67
			<i>For DR 25, Deduct</i>	-38.31	
33 14 13 23-0362	EA		10" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,041.01	35.23
			<i>For DR 25, Deduct</i>	-58.23	
33 14 13 23-0363	EA		10" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,213.29	36.70
			<i>For DR 25, Deduct</i>	-68.39	
33 14 13 23-0364	EA		10" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,332.55	38.17
			<i>For DR 25, Deduct</i>	-75.37	
33 14 13 23-0365	EA		12" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,369.39	50.89
			<i>For DR 25, Deduct</i>	-76.06	
33 14 13 23-0366	EA		12" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,573.10	52.36
			<i>For DR 25, Deduct</i>	-88.10	
33 14 13 23-0367	EA		12" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,670.27	53.83
			<i>For DR 25, Deduct</i>	-93.76	
33 14 13 23-0368	EA		12" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,709.00	62.63
			<i>For DR 25, Deduct</i>	-95.02	
33 14 13 23-0369	EA		14" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,579.94	58.72
			<i>For DR 25, Deduct</i>	-147.75	
33 14 13 23-0370	EA		14" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,684.88	60.19
			<i>For DR 25, Deduct</i>	-153.87	
33 14 13 23-0371	EA		14" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,790.93	61.66
			<i>For DR 25, Deduct</i>	-160.06	
33 14 13 23-0372	EA		14" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,911.24	70.46
			<i>For DR 25, Deduct</i>	-166.22	
33 14 13 23-0373	EA		14" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,044.47	86.12
			<i>For DR 25, Deduct</i>	-172.33	
33 14 13 23-0374	EA		16" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,216.75	70.46
			<i>For DR 25, Deduct</i>	-184.55	
33 14 13 23-0375	EA		16" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,323.06	71.93
			<i>For DR 25, Deduct</i>	-190.75	
33 14 13 23-0376	EA		16" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,428.23	73.40
			<i>For DR 25, Deduct</i>	-196.89	
33 14 13 23-0377	EA		16" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,548.45	82.21
			<i>For DR 25, Deduct</i>	-203.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0378 EA 16" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,608.83	97.86
For DR 25, Deduct	-204.79	
33 14 13 23-0379 EA 16" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,799.48	105.70
For DR 25, Deduct	-215.29	
33 14 13 23-0380 EA 18" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,972.25	90.04
For DR 25, Deduct	-227.53	
33 14 13 23-0381 EA 18" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,078.31	91.51
For DR 25, Deduct	-233.72	
33 14 13 23-0382 EA 18" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,183.66	92.97
For DR 25, Deduct	-239.86	
33 14 13 23-0383 EA 18" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,302.33	101.79
For DR 25, Deduct	-245.93	
33 14 13 23-0384 EA 18" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,436.78	117.44
For DR 25, Deduct	-252.11	
33 14 13 23-0385 EA 18" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,554.37	125.27
For DR 25, Deduct	-258.23	
33 14 13 23-0386 EA 18" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,704.69	137.02
For DR 25, Deduct	-265.84	
33 14 13 23-0387 EA 20" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,035.76	109.61
For DR 25, Deduct	-288.99	
33 14 13 23-0388 EA 20" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,213.08	111.08
For DR 25, Deduct	-299.46	
33 14 13 23-0389 EA 20" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,284.24	112.55
For DR 25, Deduct	-303.55	
33 14 13 23-0390 EA 20" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,369.36	121.35
For DR 25, Deduct	-307.60	
33 14 13 23-0391 EA 20" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,468.18	137.02
For DR 25, Deduct	-311.65	
33 14 13 23-0392 EA 20" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,592.91	144.84
For DR 25, Deduct	-318.19	
33 14 13 23-0393 EA 20" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,727.66	156.59
For DR 25, Deduct	-324.87	
33 14 13 23-0394 EA 20" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,839.85	176.16
For DR 25, Deduct	-329.25	
33 14 13 23-0395 EA 24" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,888.65	143.87
For DR 25, Deduct	-336.06	
33 14 13 23-0396 EA 24" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,997.77	145.34
For DR 25, Deduct	-342.43	
33 14 13 23-0397 EA 24" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,074.27	146.80
For DR 25, Deduct	-346.84	
33 14 13 23-0398 EA 24" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,389.51	155.61
For DR 25, Deduct	-364.70	
33 14 13 23-0399 EA 24" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,718.57	171.27
For DR 25, Deduct	-382.56	
33 14 13 23-0400 EA 24" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,031.89	179.10
For DR 25, Deduct	-400.42	
33 14 13 23-0401 EA 24" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,354.33	190.84
For DR 25, Deduct	-418.36	
33 14 13 23-0402 EA 24" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,690.52	210.41
For DR 25, Deduct	-436.18	
33 14 13 23-0403 EA 24" x 20" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	8,027.98	229.99
For DR 25, Deduct	-454.08	
33 14 13 23-0404 Couplings, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0245)</small>		
33 14 13 23-0405 EA 4" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	104.48	11.65
For DR 25, Deduct	-4.87	
33 14 13 23-0406 EA 6" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	193.78	13.11
For DR 25, Deduct	-10.05	
33 14 13 23-0407 EA 8" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	233.11	14.56
For DR 25, Deduct	-12.24	
33 14 13 23-0408 EA 10" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	332.31	23.49
For DR 25, Deduct	-17.12	
33 14 13 23-0409 EA 12" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	527.55	29.36
For DR 25, Deduct	-28.13	
33 14 13 23-0410 EA 14" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	913.74	39.14
For DR 25, Deduct	-50.12	
33 14 13 23-0411 EA 16" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,082.76	48.93
For DR 25, Deduct	-59.09	
33 14 13 23-0412 EA 18" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,587.01	78.30
For DR 25, Deduct	-145.83	
33 14 13 23-0413 EA 20" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,901.55	97.86
For DR 25, Deduct	-162.35	
33 14 13 23-0414 EA 24" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,084.69	132.12
For DR 25, Deduct	-229.23	
33 14 13 23-0415 Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0245)</small>		
33 14 13 23-0416 EA 4" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	129.20	11.65
For DR 25, Deduct	-6.35	
33 14 13 23-0417 EA 6" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	175.23	13.11
For DR 25, Deduct	-8.94	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0418	EA		8" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	254.24	14.56
			<i>For DR 25, Deduct</i>	-13.51	
33 14 13 23-0419	EA		10" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	348.79	23.49
			<i>For DR 25, Deduct</i>	-18.11	
33 14 13 23-0420	EA		12" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	559.14	39.14
			<i>For DR 25, Deduct</i>	-28.85	
33 14 13 23-0421	EA		14" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,476.67	46.98
			<i>For DR 25, Deduct</i>	-82.96	
33 14 13 23-0422	EA		16" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,998.26	58.72
			<i>For DR 25, Deduct</i>	-112.85	
33 14 13 23-0423	EA		18" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,462.93	78.30
			<i>For DR 25, Deduct</i>	-138.38	
33 14 13 23-0424	EA		20" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,943.10	97.86
			<i>For DR 25, Deduct</i>	-164.84	
33 14 13 23-0425	EA		24" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,997.99	132.12
			<i>For DR 25, Deduct</i>	-224.03	
33 14 13 23-0426			AWWA C906, High Density Polyethylene (HDPE) Pressure Piping <small>(33 14 13 23)</small>		
			Note: ASTM D3350 pipe, ASTM D2657 heat fusion.		
33 14 13 23-0427			High Density Polyethylene (HDPE) Pressure Pipe <small>(33 14 13 23-0426)</small>		
33 14 13 23-0428	LF		3" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	7.03	2.77
			<i>For SDR 19, Add</i>	0.13	
			<i>For SDR 17, Add</i>	0.32	
			<i>For SDR 15.5, Add</i>	0.47	
			<i>For SDR 13.5, Add</i>	0.73	
			<i>For SDR 11, Add</i>	1.18	
33 14 13 23-0429	LF		4" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	9.00	3.51
			<i>For SDR 26, Deduct</i>	-0.36	
			<i>For SDR 19, Add</i>	0.18	
			<i>For SDR 17, Add</i>	0.44	
			<i>For SDR 15.5, Add</i>	0.64	
			<i>For SDR 13.5, Add</i>	1.00	
			<i>For SDR 11, Add</i>	1.61	
33 14 13 23-0430	LF		6" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	12.76	4.26
			<i>For SDR 26, Deduct</i>	-0.78	
			<i>For SDR 19, Add</i>	0.38	
			<i>For SDR 17, Add</i>	0.94	
			<i>For SDR 15.5, Add</i>	1.38	
			<i>For SDR 13.5, Add</i>	2.16	
			<i>For SDR 11, Add</i>	3.47	
33 14 13 23-0431	LF		8" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	16.80	4.79
			<i>For SDR 26, Deduct</i>	-1.32	
			<i>For SDR 19, Add</i>	0.65	
			<i>For SDR 17, Add</i>	1.60	
			<i>For SDR 15.5, Add</i>	2.35	
			<i>For SDR 13.5, Add</i>	3.67	
			<i>For SDR 11, Add</i>	5.90	
33 14 13 23-0432	LF		10" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	21.86	5.33
			<i>For SDR 26, Deduct</i>	-2.06	
			<i>For SDR 19, Add</i>	1.01	
			<i>For SDR 17, Add</i>	2.49	
			<i>For SDR 15.5, Add</i>	3.65	
			<i>For SDR 13.5, Add</i>	5.70	
			<i>For SDR 11, Add</i>	9.17	
33 14 13 23-0433	LF		12" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	27.99	59.60
			<i>For SDR 26, Deduct</i>	-2.97	
			<i>For SDR 19, Add</i>	1.46	
			<i>For SDR 17, Add</i>	3.60	
			<i>For SDR 15.5, Add</i>	5.26	
			<i>For SDR 13.5, Add</i>	8.22	
			<i>For SDR 11, Add</i>	13.23	
33 14 13 23-0434	LF		14" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	32.32	6.70
			<i>For SDR 26, Deduct</i>	-3.49	
			<i>For SDR 19, Add</i>	1.71	
			<i>For SDR 17, Add</i>	4.23	
			<i>For SDR 15.5, Add</i>	6.19	
			<i>For SDR 13.5, Add</i>	9.66	
			<i>For SDR 11, Add</i>	15.55	
33 14 13 23-0435	LF		16" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	39.75	7.45
			<i>For SDR 26, Deduct</i>	-4.56	
			<i>For SDR 19, Add</i>	2.24	
			<i>For SDR 17, Add</i>	5.52	
			<i>For SDR 15.5, Add</i>	8.09	
			<i>For SDR 13.5, Add</i>	12.62	
			<i>For SDR 11, Add</i>	20.31	
33 14 13 23-0436	LF		18" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	49.33	8.94
			<i>For SDR 26, Deduct</i>	-5.76	
			<i>For SDR 19, Add</i>	2.83	
			<i>For SDR 17, Add</i>	6.98	
			<i>For SDR 15.5, Add</i>	10.22	
			<i>For SDR 13.5, Add</i>	15.95	
			<i>For SDR 11, Add</i>	25.67	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0437	LF		20" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	67.67	10.64
			<i>For SDR 26, Deduct</i>	-8.50	
			<i>For SDR 19, Add</i>	4.18	
			<i>For SDR 17, Add</i>	10.31	
			<i>For SDR 15.5, Add</i>	15.10	
			<i>For SDR 13.5, Add</i>	23.56	
			<i>For SDR 11, Add</i>	37.92	
33 14 13 23-0438	LF		24" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	81.41	12.77
			<i>For SDR 26, Deduct</i>	-10.24	
			<i>For SDR 19, Add</i>	5.03	
			<i>For SDR 17, Add</i>	12.41	
			<i>For SDR 15.5, Add</i>	18.18	
			<i>For SDR 13.5, Add</i>	28.38	
			<i>For SDR 11, Add</i>	45.67	
33 14 13 23-0439			90 Degree Elbows, High Density Polyethylene (HDPE) Pressure Piping ^(33 14 13 23-0426)		
33 14 13 23-0440	EA		3" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	54.38	14.56
			<i>For SDR 26, Deduct</i>	-1.96	
			<i>For SDR 19, Add</i>	0.96	
			<i>For SDR 17, Add</i>	2.38	
			<i>For SDR 15.5, Add</i>	3.48	
			<i>For SDR 13.5, Add</i>	5.43	
			<i>For SDR 11, Add</i>	8.74	
33 14 13 23-0441	EA		4" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	61.29	16.19
			<i>For SDR 26, Deduct</i>	-2.34	
			<i>For SDR 19, Add</i>	1.15	
			<i>For SDR 17, Add</i>	2.83	
			<i>For SDR 15.5, Add</i>	4.15	
			<i>For SDR 13.5, Add</i>	6.47	
			<i>For SDR 11, Add</i>	10.41	
33 14 13 23-0442	EA		6" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	89.35	18.50
			<i>For SDR 26, Deduct</i>	-6.21	
			<i>For SDR 19, Add</i>	3.05	
			<i>For SDR 17, Add</i>	7.53	
			<i>For SDR 15.5, Add</i>	11.03	
			<i>For SDR 13.5, Add</i>	17.21	
			<i>For SDR 11, Add</i>	27.71	
33 14 13 23-0443	EA		8" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	135.59	21.60
			<i>For SDR 26, Deduct</i>	-12.98	
			<i>For SDR 19, Add</i>	6.37	
			<i>For SDR 17, Add</i>	15.74	
			<i>For SDR 15.5, Add</i>	23.05	
			<i>For SDR 13.5, Add</i>	35.97	
			<i>For SDR 11, Add</i>	57.90	
33 14 13 23-0444	EA		10" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	204.55	28.84
			<i>For SDR 26, Deduct</i>	-21.67	
			<i>For SDR 19, Add</i>	10.64	
			<i>For SDR 17, Add</i>	26.27	
			<i>For SDR 15.5, Add</i>	38.47	
			<i>For SDR 13.5, Add</i>	60.05	
			<i>For SDR 11, Add</i>	96.65	
33 14 13 23-0445	EA		12" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	302.56	43.17
			<i>For SDR 26, Deduct</i>	-31.73	
			<i>For SDR 19, Add</i>	15.58	
			<i>For SDR 17, Add</i>	38.47	
			<i>For SDR 15.5, Add</i>	56.34	
			<i>For SDR 13.5, Add</i>	87.93	
			<i>For SDR 11, Add</i>	141.53	
33 14 13 23-0446	EA		14" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	379.11	57.61
			<i>For SDR 26, Deduct</i>	-37.83	
			<i>For SDR 19, Add</i>	18.58	
			<i>For SDR 17, Add</i>	45.86	
			<i>For SDR 15.5, Add</i>	67.16	
			<i>For SDR 13.5, Add</i>	104.83	
			<i>For SDR 11, Add</i>	168.72	
33 14 13 23-0447	EA		16" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	506.03	86.32
			<i>For SDR 26, Deduct</i>	-45.30	
			<i>For SDR 19, Add</i>	22.24	
			<i>For SDR 17, Add</i>	54.92	
			<i>For SDR 15.5, Add</i>	80.43	
			<i>For SDR 13.5, Add</i>	125.53	
			<i>For SDR 11, Add</i>	202.05	
33 14 13 23-0448	EA		18" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	627.67	97.10
			<i>For SDR 26, Deduct</i>	-61.65	
			<i>For SDR 19, Add</i>	30.27	
			<i>For SDR 17, Add</i>	74.73	
			<i>For SDR 15.5, Add</i>	109.45	
			<i>For SDR 13.5, Add</i>	170.83	
			<i>For SDR 11, Add</i>	274.96	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0449 EA 20" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	839.81	110.21
For SDR 26, Deduct	-92.71	
For SDR 19, Add	45.52	
For SDR 17, Add	112.38	
For SDR 15.5, Add	164.58	
For SDR 13.5, Add	256.89	
For SDR 11, Add	413.48	
33 14 13 23-0450 EA 24" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	1,063.64	129.54
For SDR 26, Deduct	-123.77	
For SDR 19, Add	60.77	
For SDR 17, Add	150.03	
For SDR 15.5, Add	219.72	
For SDR 13.5, Add	342.94	
For SDR 11, Add	551.99	
33 14 13 23-0451 Tees, High Density Polyethylene (HDPE) Pressure Piping (33 14 13 23-0426)		
33 14 13 23-0452 EA 3" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	59.62	15.24
For SDR 26, Deduct	-2.56	
For SDR 19, Add	1.26	
For SDR 17, Add	3.11	
For SDR 15.5, Add	4.55	
For SDR 13.5, Add	7.10	
For SDR 11, Add	11.43	
33 14 13 23-0453 EA 4" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	68.23	17.27
For SDR 26, Deduct	-3.02	
For SDR 19, Add	1.48	
For SDR 17, Add	3.66	
For SDR 15.5, Add	5.36	
For SDR 13.5, Add	8.36	
For SDR 11, Add	13.46	
33 14 13 23-0454 EA 6" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	102.76	19.93
For SDR 26, Deduct	-7.89	
For SDR 19, Add	3.87	
For SDR 17, Add	9.56	
For SDR 15.5, Add	14.00	
For SDR 13.5, Add	21.85	
For SDR 11, Add	35.18	
33 14 13 23-0455 EA 8" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	179.76	23.55
For SDR 26, Deduct	-20.01	
For SDR 19, Add	9.82	
For SDR 17, Add	24.26	
For SDR 15.5, Add	35.52	
For SDR 13.5, Add	55.44	
For SDR 11, Add	89.24	
33 14 13 23-0456 EA 10" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	247.41	34.57
For SDR 26, Deduct	-26.36	
For SDR 19, Add	12.94	
For SDR 17, Add	31.95	
For SDR 15.5, Add	46.80	
For SDR 13.5, Add	73.04	
For SDR 11, Add	117.56	
33 14 13 23-0457 EA 12" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	351.77	51.86
For SDR 26, Deduct	-35.99	
For SDR 19, Add	17.67	
For SDR 17, Add	43.63	
For SDR 15.5, Add	63.90	
For SDR 13.5, Add	99.74	
For SDR 11, Add	160.53	
33 14 13 23-0458 EA 14" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	425.23	64.77
For SDR 26, Deduct	-42.35	
For SDR 19, Add	20.79	
For SDR 17, Add	51.33	
For SDR 15.5, Add	75.17	
For SDR 13.5, Add	117.34	
For SDR 11, Add	188.86	
33 14 13 23-0459 EA 16" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	565.79	97.10
For SDR 26, Deduct	-50.29	
For SDR 19, Add	24.69	
For SDR 17, Add	60.96	
For SDR 15.5, Add	89.27	
For SDR 13.5, Add	139.34	
For SDR 11, Add	224.27	
33 14 13 23-0460 EA 18" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	720.50	113.12
For SDR 26, Deduct	-69.87	
For SDR 19, Add	34.31	
For SDR 17, Add	84.70	
For SDR 15.5, Add	124.04	
For SDR 13.5, Add	193.60	
For SDR 11, Add	311.61	
33 14 13 23-0461 EA 20" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	993.01	133.62
For SDR 26, Deduct	-107.72	
For SDR 19, Add	52.89	
For SDR 17, Add	130.58	
For SDR 15.5, Add	191.22	
For SDR 13.5, Add	298.47	
For SDR 11, Add	480.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0462 EA 24" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	1,279.66	161.97
<i>For SDR 26, Deduct</i>	-145.56	
<i>For SDR 19, Add</i>	71.47	
<i>For SDR 17, Add</i>	176.46	
<i>For SDR 15.5, Add</i>	258.41	
<i>For SDR 13.5, Add</i>	403.34	
<i>For SDR 11, Add</i>	649.20	
33 14 13 26 Galvanized Steel Public Water Utility Distribution Piping (33 14 13)		
See CSI section 22 11 16 00-0013 for galvanized steel pipe.		
33 14 13 36 Steel Public Water Utility Distribution Piping (33 14 13)		
33 14 13 36-0001 Steel Piping (33 14 13 36)		
33 14 13 36-0002 Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0001)		
Note: ASTM A252 steel pipe.		
33 14 13 36-0003 Up To 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)		
33 14 13 36-0004 LF 8" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	109.05	26.37
<i>For <100, Add</i>	11.45	
<i>For >1,000, Deduct</i>	-5.45	
33 14 13 36-0005 LF 8" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	131.05	26.37
<i>For <100, Add</i>	12.55	
<i>For >1,000, Deduct</i>	-6.55	
33 14 13 36-0006 LF 10" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	130.11	28.77
<i>For <100, Add</i>	13.04	
<i>For >1,000, Deduct</i>	-6.51	
33 14 13 36-0007 LF 10" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	157.92	28.77
<i>For <100, Add</i>	14.43	
<i>For >1,000, Deduct</i>	-7.90	
33 14 13 36-0008 LF 12" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	158.13	30.15
<i>For <100, Add</i>	14.76	
<i>For >1,000, Deduct</i>	-7.91	
33 14 13 36-0009 LF 12" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	179.76	30.15
<i>For <100, Add</i>	15.84	
<i>For >1,000, Deduct</i>	-8.99	
33 14 13 36-0010 LF 14" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	192.02	33.31
<i>For <100, Add</i>	17.17	
<i>For >1,000, Deduct</i>	-9.60	
33 14 13 36-0011 LF 14" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	209.30	33.31
<i>For <100, Add</i>	18.04	
<i>For >1,000, Deduct</i>	-10.47	
33 14 13 36-0012 LF 16" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	203.83	35.17
<i>For <100, Add</i>	18.19	
<i>For >1,000, Deduct</i>	-10.19	
33 14 13 36-0013 LF 16" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	217.18	35.17
<i>For <100, Add</i>	18.85	
<i>For >1,000, Deduct</i>	-10.86	
33 14 13 36-0014 LF 18" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	253.12	39.56
<i>For <100, Add</i>	21.65	
<i>For >1,000, Deduct</i>	-12.66	
33 14 13 36-0015 LF 20" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	275.00	39.56
<i>For <100, Add</i>	22.74	
<i>For >1,000, Deduct</i>	-13.75	
33 14 13 36-0016 5/16" To 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)		
33 14 13 36-0017 LF 12" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	220.40	53.24
<i>For <100, Add</i>	19.39	
<i>For >1,000, Deduct</i>	-11.02	
33 14 13 36-0018 LF 14" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	261.87	58.56
<i>For <100, Add</i>	22.34	
<i>For >1,000, Deduct</i>	-13.09	
33 14 13 36-0019 LF 16" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	291.12	61.22
<i>For <100, Add</i>	24.32	
<i>For >1,000, Deduct</i>	-14.56	
33 14 13 36-0020 LF 18" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	328.43	69.21
<i>For <100, Add</i>	27.40	
<i>For >1,000, Deduct</i>	-16.42	
33 14 13 36-0021 LF 18" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	343.26	69.21
<i>For <100, Add</i>	28.14	
<i>For >1,000, Deduct</i>	-17.16	
33 14 13 36-0022 LF 20" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	356.98	69.21
<i>For <100, Add</i>	28.83	
<i>For >1,000, Deduct</i>	-17.85	
33 14 13 36-0023 LF 20" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	372.80	69.21
<i>For <100, Add</i>	29.62	
<i>For >1,000, Deduct</i>	-18.64	
33 14 13 36-0024 LF 24" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	432.21	79.86
<i>For <100, Add</i>	34.16	
<i>For >1,000, Deduct</i>	-21.61	

33 Utilities
33 10 Water Utilities
33 14 Water Utility Transmission and Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0025	LF		24" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	481.15	79.86
			<i>For <100, Add</i>	36.61	
			<i>For >1,000, Deduct</i>	-24.06	
33 14 13 36-0026	LF		24" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	601.29	79.86
			<i>For <100, Add</i>	42.61	
			<i>For >1,000, Deduct</i>	-30.06	
33 14 13 36-0027	LF		30" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	537.61	93.16
			<i>For <100, Add</i>	41.52	
			<i>For >1,000, Deduct</i>	-26.88	
33 14 13 36-0028	LF		30" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	557.63	93.16
			<i>For <100, Add</i>	42.52	
			<i>For >1,000, Deduct</i>	-27.88	
33 14 13 36-0029	LF		30" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	746.49	93.16
			<i>For <100, Add</i>	51.96	
			<i>For >1,000, Deduct</i>	-37.32	
33 14 13 36-0030	LF		36" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	641.43	93.16
			<i>For <100, Add</i>	46.71	
			<i>For >1,000, Deduct</i>	-32.07	
33 14 13 36-0031	LF		36" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	751.92	111.80
			<i>For <100, Add</i>	55.16	
			<i>For >1,000, Deduct</i>	-37.60	
33 14 13 36-0032	LF		36" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	898.38	111.80
			<i>For <100, Add</i>	62.49	
			<i>For >1,000, Deduct</i>	-44.92	
33 14 13 36-0033	LF		36" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	861.80	111.80
			<i>For <100, Add</i>	60.66	
			<i>For >1,000, Deduct</i>	-43.09	
33 14 13 36-0034	LF		42" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,322.85	125.11
			<i>For <100, Add</i>	85.66	
			<i>For >1,000, Deduct</i>	-66.14	
33 14 13 36-0035	LF		42" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	800.53	125.11
			<i>For <100, Add</i>	59.55	
			<i>For >1,000, Deduct</i>	-40.03	
33 14 13 36-0036	LF		48" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,517.10	141.07
			<i>For <100, Add</i>	97.82	
			<i>For >1,000, Deduct</i>	-75.86	
33 14 13 36-0037	LF		48" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	878.10	141.07
			<i>For <100, Add</i>	65.87	
			<i>For >1,000, Deduct</i>	-43.91	
33 14 13 36-0038	LF		54" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,588.68	159.71
			<i>For <100, Add</i>	104.53	
			<i>For >1,000, Deduct</i>	-79.43	
33 14 13 36-0039	LF		54" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,755.54	159.71
			<i>For <100, Add</i>	112.87	
			<i>For >1,000, Deduct</i>	-87.78	
33 14 13 36-0040	LF		60" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,962.64	186.33
			<i>For <100, Add</i>	127.41	
			<i>For >1,000, Deduct</i>	-98.13	
33 14 13 36-0041	LF		66" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,369.38	186.33
			<i>For <100, Add</i>	97.75	
			<i>For >1,000, Deduct</i>	-68.47	
33 14 13 36-0042	LF		72" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,512.33	153.01
			<i>For <100, Add</i>	121.52	
			<i>For >1,000, Deduct</i>	-75.62	
33 14 13 36-0043	LF		78" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	2,852.13	153.01
			<i>For <100, Add</i>	188.51	
			<i>For >1,000, Deduct</i>	-142.61	

33 14 13 36-0044 Flexible Couplings (Dresser Style 38) (33 14 13 36-0001)

33 14 13 36-0045	EA		2" Dresser Coupling For Plain End Welded Steel Pipe.....	112.40	26.64
33 14 13 36-0046	EA		3" Dresser Coupling For Plain End Welded Steel Pipe.....	166.33	51.24
33 14 13 36-0047	EA		4" Dresser Coupling For Plain End Welded Steel Pipe.....	221.36	67.64
33 14 13 36-0048	EA		6" Dresser Coupling For Plain End Welded Steel Pipe.....	352.63	102.47
33 14 13 36-0049	EA		8" Dresser Coupling For Plain End Welded Steel Pipe.....	461.25	129.11
33 14 13 36-0050	EA		10" Dresser Coupling For Plain End Welded Steel Pipe.....	623.62	152.06
33 14 13 36-0051	EA		12" Dresser Coupling For Plain End Welded Steel Pipe.....	740.84	190.59
33 14 13 36-0052	EA		14" Dresser Coupling For Plain End Welded Steel Pipe.....	797.49	190.59
33 14 13 36-0053	EA		16" Dresser Coupling For Plain End Welded Steel Pipe.....	842.82	202.75
33 14 13 36-0054	EA		18" Dresser Coupling For Plain End Welded Steel Pipe.....	923.25	233.17
33 14 13 36-0055	EA		20" Dresser Coupling For Plain End Welded Steel Pipe.....	1,006.98	263.59
33 14 13 36-0056	EA		24" Dresser Coupling For Plain End Welded Steel Pipe.....	1,268.13	278.80
33 14 13 36-0057	EA		30" Dresser Coupling For Plain End Welded Steel Pipe.....	1,518.50	304.14
33 14 13 36-0058	EA		36" Dresser Coupling For Plain End Welded Steel Pipe.....	1,779.81	342.15
33 14 13 36-0059	EA		42" Dresser Coupling For Plain End Welded Steel Pipe.....	2,053.73	385.24
33 14 13 36-0060	EA		48" Dresser Coupling For Plain End Welded Steel Pipe.....	2,389.13	443.53
33 14 13 36-0061	EA		54" Dresser Coupling For Plain End Welded Steel Pipe.....	2,650.76	506.89
33 14 13 36-0062	EA		60" Dresser Coupling For Plain End Welded Steel Pipe.....	3,055.31	633.61
33 14 13 36-0063	EA		66" Dresser Coupling For Plain End Welded Steel Pipe.....	3,522.82	770.48
33 14 13 36-0064	EA		72" Dresser Coupling For Plain End Welded Steel Pipe.....	4,199.32	912.41

33 14 13 39 Copper Public Water Utility Distribution Piping (33 14 13)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 39-0001 Type L Copper Water Distribution Piping <small>(33 14 13 39)</small>		
33 14 13 39-0002 LF 1/2" Type L Copper Water Distribution Pipe	6.84	1.89
33 14 13 39-0003 LF 3/4" Type L Copper Water Distribution Pipe	8.57	2.12
33 14 13 39-0004 LF 1" Type L Copper Water Distribution Pipe	11.33	2.35
33 14 13 39-0005 LF 1-1/4" Type L Copper Water Distribution Pipe	14.16	2.82
33 14 13 39-0006 LF 1-1/2" Type L Copper Water Distribution Pipe	17.43	3.77
33 14 13 39-0007 LF 2" Type L Copper Water Distribution Pipe	25.31	4.71
33 14 13 39-0008 LF 2-1/2" Type L Copper Water Distribution Pipe	32.05	5.66
33 14 13 39-0009 LF 3" Type L Copper Water Distribution Pipe	40.15	6.22
33 14 13 39-0010 LF 3-1/2" Type L Copper Water Distribution Pipe	53.97	7.82
33 14 13 39-0011 LF 4" Type L Copper Water Distribution Pipe	71.24	9.89
33 14 13 39-0012 LF 5" Type L Copper Water Distribution Pipe	114.48	12.34
33 14 13 39-0013 LF 6" Type L Copper Water Distribution Pipe	147.81	14.89
33 14 13 39-0014 LF 8" Type L Copper Water Distribution Pipe	254.00	16.67
33 14 13 39-0015 Type K Copper Water Distribution Piping <small>(33 14 13 39)</small>		
33 14 13 39-0016 LF 1/2" Type K Copper Water Distribution Pipe	7.27	1.89
33 14 13 39-0017 LF 3/4" Type K Copper Water Distribution Pipe	10.11	2.12
33 14 13 39-0018 LF 1" Type K Copper Water Distribution Pipe	12.86	2.35
33 14 13 39-0019 LF 1-1/4" Type K Copper Water Distribution Pipe	15.10	2.82
33 14 13 39-0020 LF 1-1/2" Type K Copper Water Distribution Pipe	18.82	3.77
33 14 13 39-0021 LF 2" Type K Copper Water Distribution Pipe	27.19	4.71
33 14 13 39-0022 LF 2-1/2" Type K Copper Water Distribution Pipe	37.26	5.66
33 14 13 39-0023 LF 3" Type K Copper Water Distribution Pipe	47.95	6.22
33 14 13 39-0024 LF 3-1/2" Type K Copper Water Distribution Pipe	63.14	7.82
33 14 13 39-0025 LF 4" Type K Copper Water Distribution Pipe	85.16	9.89
33 14 13 39-0026 LF 5" Type K Copper Water Distribution Pipe	143.29	12.34
33 14 13 39-0027 LF 6" Type K Copper Water Distribution Pipe	199.62	14.89
33 14 13 39-0028 LF 8" Type K Copper Water Distribution Pipe	349.60	16.67
33 14 13 43 Public Water Utility Distribution Piping Coatings and Wraps <small>(33 14 13)</small>		
33 14 13 43-0001 Pipe Coatings <small>(33 14 13 43)</small>		
33 14 13 43-0002 Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating <small>(33 14 13 43-0001)</small>		
Note: Applied at fabrication shop.		
33 14 13 43-0003 LF 12" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	4.61	
33 14 13 43-0004 LF 14" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	6.12	
33 14 13 43-0005 LF 16" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	6.99	
33 14 13 43-0006 LF 18" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	7.34	
33 14 13 43-0007 LF 20" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	7.91	
33 14 13 43-0008 LF 24" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	9.21	
33 14 13 43-0009 LF 30" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	12.10	
33 14 13 43-0010 LF 36" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	19.11	
33 14 13 43-0011 LF 42" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	41.20	
33 14 13 43-0012 LF 48" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	47.08	
33 14 13 43-0013 LF 54" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	52.97	
33 14 13 43-0014 LF 60" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	58.85	
33 14 13 43-0015 LF 66" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	64.74	
33 14 13 43-0016 LF 72" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	70.59	
33 14 13 43-0017 LF 78" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	76.51	
33 14 13 43-0018 Cement Coating With Fiberglass Or Wire Mesh Reinforcing <small>(33 14 13 43-0001)</small>		
Note: Applied at fabrication shop. Thickness ranging between 1" and 2".		
33 14 13 43-0019 LF 4" Diameter Cement Coated Pipe 1" To 2" Mesh	8.73	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0020 LF 6" Diameter Cement Coated Pipe 1" To 2" Mesh	10.75	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0021 LF 8" Diameter Cement Coated Pipe 1" To 2" Mesh	13.44	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0022 LF 10" Diameter Cement Coated Pipe 1" To 2" Mesh	14.97	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0023 LF 12" Diameter Cement Coated Pipe 1" To 2" Mesh	16.91	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0024 LF 14" Diameter Cement Coated Pipe 1" To 2" Mesh	19.79	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0025 LF 16" Diameter Cement Coated Pipe 1" To 2" Mesh	22.48	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0026 LF 18" Diameter Cement Coated Pipe 1" To 2" Mesh	25.36	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0027 LF 20" Diameter Cement Coated Pipe 1" To 2" Mesh	28.19	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0028 LF 24" Diameter Cement Coated Pipe 1" To 2" Mesh	33.81	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0029 LF 30" Diameter Cement Coated Pipe 1" To 2" Mesh	42.26	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0030 LF 36" Diameter Cement Coated Pipe 1" To 2" Mesh	50.72	
Note: Reinforcing applied at fabrication shop.		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0031	LF		42" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	25.10	
33 14 13 43-0032	LF		48" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	28.68	
33 14 13 43-0033	LF		54" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	32.27	
33 14 13 43-0034	LF		60" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	35.85	
33 14 13 43-0035	LF		66" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	39.44	
33 14 13 43-0036	LF		72" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	43.02	
33 14 13 43-0037	LF		78" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	46.61	
33 14 13 43-0038			Pipe Lining <small>(33 14 13 43)</small>		
33 14 13 43-0039			Cement Pipe Lining <small>(33 14 13 43-0038)</small> Note: Shop applied.		
33 14 13 43-0040	LF		4" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	12.90 1.16	
33 14 13 43-0041	LF		6" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	16.01 1.43	
33 14 13 43-0042	LF		8" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	19.57 1.79	
33 14 13 43-0043	LF		10" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	25.35 2.24	
33 14 13 43-0044	LF		12" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	31.16 2.69	
33 14 13 43-0045	LF		14" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	39.64 3.15	
33 14 13 43-0046	LF		16" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	51.07 3.58	
33 14 13 43-0047	LF		18" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	60.88 3.43	
33 14 13 43-0048	LF		20" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	73.31 3.82	
33 14 13 43-0049	LF		24" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	88.85 4.58	
33 14 13 43-0050	LF		30" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	107.07 5.72	
33 14 13 43-0051	LF		36" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	128.84 6.87	
33 14 13 43-0052	LF		42" Outside Diameter, 3/8" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	150.34 5.89	
33 14 13 43-0053	LF		48" Outside Diameter, 3/8" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	171.76 6.74	
33 14 13 43-0054	LF		54" Outside Diameter, 3/8" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	193.26 7.58	
33 14 13 43-0055	LF		60" Outside Diameter, 3/8" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	214.77 8.42	
33 14 13 43-0056	LF		66" Outside Diameter, 7/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	236.18 4.94	
33 14 13 43-0057	LF		72" Outside Diameter, 7/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	257.69 5.39	
33 14 13 43-0058	LF		78" Outside Diameter, 7/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	279.19 5.84	
33 14 13 43-0059			Cement Fitting Lining <small>(33 14 13 43-0038)</small> Note: Shop applied.		
33 14 13 43-0060	EA		4" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	12.90 1.16	
33 14 13 43-0061	EA		6" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	16.01 1.43	
33 14 13 43-0062	EA		8" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	24.91 2.33	
33 14 13 43-0063	EA		10" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	40.91 3.58	
33 14 13 43-0064	EA		12" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	62.32 5.39	
33 14 13 43-0065	EA		14" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	91.98 7.25	
33 14 13 43-0066	EA		16" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	134.99 9.31	
33 14 13 43-0067	EA		18" Outside Diameter, 5/16" Thick Cement Fittings Lining..... <i>For 1/2" Thick, Add</i>	182.65 10.30	
33 14 13 43-0068	EA		20" Outside Diameter, 5/16" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	244.22 12.71	
33 14 13 43-0069	EA		24" Outside Diameter, 5/16" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	355.37 18.32	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 14 13 43-0070				8 Mil Polyethylene Encasement Tubing (33 14 13 43)		
Note: ANSI/AWWA C105/A21.5-99 section 4.2.						
33 14 13 43-0071	LF			3" To 8" Diameter, 8 Mil Polyethylene Encasement Tubing.....	0.88	
33 14 13 43-0072	LF			10" To 12" Diameter, 8 Mil Polyethylene Encasement Tubing.....	1.48	
33 14 13 43-0073	LF			14" To 16" Diameter, 8 Mil Polyethylene Encasement Tubing.....	1.86	
33 14 13 43-0074	LF			18" To 20" Diameter, 8 Mil Polyethylene Encasement Tubing.....	2.36	
33 14 13 43-0075	LF			24" Diameter, 8 Mil Polyethylene Encasement Tubing.....	3.28	
33 14 13 43-0076	LF			30" Diameter, 8 Mil Polyethylene Encasement Tubing.....	4.24	
33 14 13 43-0077	LF			36" To 42" Diameter, 8 Mil Polyethylene Encasement Tubing.....	5.38	
33 14 13 43-0078	LF			48" Diameter, 8 Mil Polyethylene Encasement Tubing.....	6.42	
33 14 13 43-0079	LF			54" Diameter, 8 Mil Polyethylene Encasement Tubing.....	7.66	
33 14 13 43-0080	LF			60" Diameter, 8 Mil Polyethylene Encasement Tubing.....	8.54	

33 14 13 53 Public Water Utility Distribution Piping Saddles And Adapters (33 14 13)

33 14 13 53-0001				Double Stud Stainless Steel Service Saddles (33 14 13 53)		
Note: 1/2" listed taps are compression, 3/4" to 2" are either compression or NPT.						
33 14 13 53-0002	EA			4" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	251.64	
33 14 13 53-0003	EA			4" Diameter x 1-1/4" Or 1-1/2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	355.98	
33 14 13 53-0004	EA			4" Diameter x 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	367.46	
33 14 13 53-0005	EA			6" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	302.26	
33 14 13 53-0006	EA			6" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	380.96	
33 14 13 53-0007	EA			8" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	315.67	
33 14 13 53-0008	EA			8" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	398.83	
33 14 13 53-0009	EA			10" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	356.00	
33 14 13 53-0010	EA			10" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	420.14	
33 14 13 53-0011	EA			12" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	371.11	
33 14 13 53-0012	EA			12" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	431.49	

33 14 13 53-0013 Double Bale Epoxy Coated Ductile Iron Body Service Saddles (33 14 13 53)

Note: Electro-galvanized steel bales. 5/8" listed taps are compression. 3/4" to 2" are either compression or NPT. 2-1/2", 3" or 4" are NPT.						
33 14 13 53-0014	EA			1-1/4" To 1-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	208.88	
33 14 13 53-0015	EA			2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	209.03	
33 14 13 53-0016	EA			2" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	222.37	
33 14 13 53-0017	EA			2-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	212.64	
33 14 13 53-0018	EA			3" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	227.53	
33 14 13 53-0019	EA			3" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	251.99	
33 14 13 53-0020	EA			3" Diameter x 2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	268.04	
33 14 13 53-0021	EA			4" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	244.89	
33 14 13 53-0022	EA			4" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	269.57	
33 14 13 53-0023	EA			4" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	283.23	
33 14 13 53-0024	EA			5" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	258.36	
33 14 13 53-0025	EA			5" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	283.85	
33 14 13 53-0026	EA			5" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	297.42	
33 14 13 53-0027	EA			6" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	272.32	
33 14 13 53-0028	EA			6" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	297.04	
33 14 13 53-0029	EA			6" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	310.44	
33 14 13 53-0030	EA			6" Diameter x 3" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	458.06	
33 14 13 53-0031	EA			6" Diameter x 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	469.53	
33 14 13 53-0032	EA			8" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	295.12	
33 14 13 53-0033	EA			8" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	325.09	
33 14 13 53-0034	EA			8" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	337.49	
33 14 13 53-0035	EA			8" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	543.13	
33 14 13 53-0036	EA			10" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	330.97	
33 14 13 53-0037	EA			10" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	367.00	
33 14 13 53-0038	EA			10" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	607.19	
33 14 13 53-0039	EA			12" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	360.39	
33 14 13 53-0040	EA			12" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	398.51	
33 14 13 53-0041	EA			12" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	412.72	
33 14 13 53-0042	EA			12" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	678.40	
33 14 13 53-0043	EA			14" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	421.64	
33 14 13 53-0044	EA			14" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	451.44	
33 14 13 53-0045	EA			14" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	486.41	
33 14 13 53-0046	EA			14" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	835.66	
33 14 13 53-0047	EA			15" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	433.13	
33 14 13 53-0048	EA			15" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	494.03	
33 14 13 53-0049	EA			15" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	514.60	
33 14 13 53-0050	EA			15" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	898.53	
33 14 13 53-0051	EA			16" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	452.60	
33 14 13 53-0052	EA			16" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	515.74	
33 14 13 53-0053	EA			16" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	536.87	
33 14 13 53-0054	EA			16" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	935.09	
33 14 13 53-0055	EA			18" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	501.59	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14	13 53-0056	EA	18" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	580.73	
33 14	13 53-0057	EA	20" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	572.62	
33 14	13 53-0058	EA	20" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	634.21	
33 14	13 53-0059	EA	24" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	598.11	
33 14	13 53-0060	EA	24" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	675.82	
33 14 13 53-0061 Double Bale Bronze Service Saddles (33 14 13 53)					
33 14	13 53-0062	EA	4" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	290.44	
33 14	13 53-0063	EA	4" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	317.77	
33 14	13 53-0064	EA	6" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	330.34	
33 14	13 53-0065	EA	6" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	357.92	
33 14	13 53-0066	EA	8" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	368.53	
33 14	13 53-0067	EA	8" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	387.33	
33 14	13 53-0068	EA	10" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	356.60	
33 14	13 53-0069	EA	10" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	379.41	
33 14	13 53-0070	EA	12" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	454.07	
33 14	13 53-0071	EA	12" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	491.31	
33 14	13 53-0072	EA	14" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	686.64	
33 14	13 53-0073	EA	14" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	776.39	
33 14	13 53-0074	EA	16" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	799.18	
33 14	13 53-0075	EA	16" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	892.71	
33 14 13 53-0076 Stainless Steel Double Straps, Bronze Body Service Saddle (33 14 13 53)					
Note: Taps are compression or NPT.					
33 14	13 53-0077	EA	4" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	305.51	
33 14	13 53-0078	EA	4" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	336.79	
33 14	13 53-0079	EA	6" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	348.14	
33 14	13 53-0080	EA	6" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	378.25	
33 14	13 53-0081	EA	8" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	390.53	
33 14	13 53-0082	EA	8" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	410.51	
33 14	13 53-0083	EA	10" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	440.47	
33 14	13 53-0084	EA	10" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	471.56	
33 14	13 53-0085	EA	12" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	474.23	
33 14	13 53-0086	EA	12" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	514.07	
33 14	13 53-0087	EA	14" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	736.60	
33 14	13 53-0088	EA	14" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	847.04	
33 14	13 53-0089	EA	16" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	858.46	
33 14	13 53-0090	EA	16" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	935.73	
33 14	13 53-0091	EA	18" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,747.40	
33 14	13 53-0092	EA	18" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,747.40	
33 14	13 53-0093	EA	20" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,813.62	
33 14	13 53-0094	EA	20" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,813.62	
33 14	13 53-0095	EA	24" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,946.74	
33 14	13 53-0096	EA	24" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,946.74	
33 14 13 53-0097 Ductile Iron Mechanical Joint Tapping Sleeve (33 14 13 53)					
33 14	13 53-0098	EA	4" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,373.66	
33 14	13 53-0099	EA	6" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,658.11	
33 14	13 53-0100	EA	8" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,983.68	
33 14	13 53-0101	EA	8" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	2,100.17	
33 14	13 53-0102	EA	10" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,207.57	
33 14	13 53-0103	EA	10" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,370.89	
33 14	13 53-0104	EA	10" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,440.53	
33 14	13 53-0105	EA	12" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,379.76	
33 14	13 53-0106	EA	12" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,542.41	
33 14	13 53-0107	EA	12" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,939.80	
33 14	13 53-0108	EA	12" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	4,040.13	
33 14	13 53-0109	EA	14" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,790.18	
33 14	13 53-0110	EA	14" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,974.06	
33 14	13 53-0111	EA	14" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,056.34	
33 14	13 53-0112	EA	14" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,091.32	
33 14	13 53-0113	EA	14" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,351.68	
33 14	13 53-0114	EA	16" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,338.89	
33 14	13 53-0115	EA	16" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,361.87	
33 14	13 53-0116	EA	16" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,567.44	
33 14	13 53-0117	EA	16" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,615.36	
33 14	13 53-0118	EA	16" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,668.19	
33 14	13 53-0119	EA	16" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,793.13	
33 14	13 53-0120	EA	16" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,042.34	
33 14	13 53-0121	EA	18" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,227.73	
33 14	13 53-0122	EA	18" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,692.83	
33 14	13 53-0123	EA	18" Diameter x 8", 10", 12" Or 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,821.93	
33 14	13 53-0124	EA	18" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,214.68	
33 14	13 53-0125	EA	20" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,557.28	
33 14	13 53-0126	EA	20" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,202.68	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 53-0204	EA	16" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,248.10	
33 14 13 53-0205	EA	16" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,734.70	
33 14 13 53-0206	EA	16" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,064.48	
33 14 13 53-0207	EA	18" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,095.37	
33 14 13 53-0208	EA	18" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,466.82	
33 14 13 53-0209	EA	18" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,664.00	
33 14 13 53-0210	EA	18" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,091.47	
33 14 13 53-0211	EA	18" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,657.35	
33 14 13 53-0212	EA	20" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,338.35	
33 14 13 53-0213	EA	20" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,708.85	
33 14 13 53-0214	EA	20" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,868.86	
33 14 13 53-0215	EA	20" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,665.20	
33 14 13 53-0216	EA	20" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,108.01	
33 14 13 53-0217	EA	24" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,960.44	
33 14 13 53-0218	EA	24" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,012.32	
33 14 13 53-0219	EA	24" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,204.40	
33 14 13 53-0220	EA	24" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,155.14	
33 14 13 53-0221	EA	24" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,662.12	

33 14 13 53-0222 Ductile Iron Body, Flanged Coupling Adapter (33 14 13 53)

33 14 13 53-0223	EA	3" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	328.77	59.74
33 14 13 53-0224	EA	4" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	411.90	75.33
33 14 13 53-0225	EA	6" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	541.46	103.90
33 14 13 53-0226	EA	8" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	702.14	122.09
33 14 13 53-0227	EA	10" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,104.41	137.67
33 14 13 53-0228	EA	12" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,233.73	155.86

33 14 13 53-0229 Steel Body, Flanged Coupling Adapter (33 14 13 53)

33 14 13 53-0230	EA	3" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	480.63	59.74
33 14 13 53-0231	EA	4" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	568.16	75.33
33 14 13 53-0232	EA	6" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	758.52	103.90
33 14 13 53-0233	EA	8" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	928.05	122.09
33 14 13 53-0234	EA	10" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,133.39	137.67
33 14 13 53-0235	EA	12" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,320.88	155.86
33 14 13 53-0236	EA	14" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,569.74	171.44
33 14 13 53-0237	EA	16" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,859.65	187.03
33 14 13 53-0238	EA	18" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,196.68	205.73
33 14 13 53-0239	EA	20" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,596.41	226.30

33 14 13 53-0240 Steel Body, Flanged-Lock Restrained Coupling Adapters (33 14 13 53)

33 14 13 53-0241	EA	4" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	422.06	75.33
33 14 13 53-0242	EA	6" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	566.53	103.90
33 14 13 53-0243	EA	8" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	627.12	122.09
33 14 13 53-0244	EA	10" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	916.85	137.67
33 14 13 53-0245	EA	12" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,168.34	155.86
33 14 13 53-0246	EA	14" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,310.51	171.44
33 14 13 53-0247	EA	16" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,540.93	187.03
33 14 13 53-0248	EA	18" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,729.40	205.73
33 14 13 53-0249	EA	20" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	2,079.01	226.30
33 14 13 53-0250	EA	24" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	2,505.14	248.95
33 14 13 53-0251	EA	30" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	5,224.89	273.78
33 14 13 53-0252	EA	36" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	7,053.44	301.22

33 14 13 53-0253 Ductile Iron Body, Omni Coupling System (33 14 13 53)

33 14 13 53-0254	EA	2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	148.21	41.56
33 14 13 53-0255	EA	2-1/2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	182.88	49.35
33 14 13 53-0256	EA	3" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	226.44	59.74
33 14 13 53-0257	EA	4" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	284.34	75.33
33 14 13 53-0258	EA	6" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	379.27	103.90
33 14 13 53-0259	EA	8" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	460.92	122.09
33 14 13 53-0260	EA	10" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	576.27	137.67
33 14 13 53-0261	EA	12" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	674.07	155.86
33 14 13 53-0262	EA	14" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	949.06	171.44
33 14 13 53-0263	EA	16" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	1,184.72	187.03

33 14 19 Valves and Hydrants for Water Utility Service (33 14)

Note: Flanged valves excludes bolt and gasket set.

33 14 19 00-0001 Accessories For Valves (33 14 19)

33 14 19 00-0002	EA	1' Valve Extension Stem	109.91	
		For Each Additional LF, Add	7.99	
33 14 19 00-0003	EA	Up to 80" Long Indicator Post Telescoping Barrel Assembly	1,531.23	102.47
		Note: Excludes valve.		
33 14 19 00-0004	EA	>80" To 114" Long Indicator Post Telescoping Barrel Assembly	1,736.94	112.72
		Note: Excludes valve.		
33 14 19 00-0005	EA	Adjust Water Valve Box To Grade	102.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0006	Water Utility Distribution Valves (33 14 19)	
33 14 19 00-0007	Angle Valves (33 14 19 00-0006)	
	Note: For connecting meters to water service.	
33 14 19 00-0008	Threaded, Class 150, Bronze Angle Valve (33 14 19 00-0007)	
	Note: Nibco T-335Y	
33 14 19 00-0009 EA	1/2" Threaded, Class 150, Bronze Angle Valve.....	97.25
33 14 19 00-0010 EA	3/4" Threaded, Class 150, Bronze Angle Valve.....	131.15
33 14 19 00-0011 EA	1" Threaded, Class 150, Bronze Angle Valve.....	176.39
33 14 19 00-0012 EA	1-1/4" Threaded, Class 150, Bronze Angle Valve.....	227.07
33 14 19 00-0013 EA	1-1/2" Threaded, Class 150, Bronze Angle Valve.....	283.27
33 14 19 00-0014 EA	2" Threaded, Class 150, Bronze Angle Valve.....	421.53
33 14 19 00-0015 EA	2-1/2" Threaded, Class 150, Bronze Angle Valve.....	674.14
33 14 19 00-0016 EA	3" Threaded, Class 150, Bronze Angle Valve.....	1,021.37
33 14 19 00-0017	Butterfly Valves (33 14 19 00-0006)	
33 14 19 00-0018	Lug Type Flanged, Cast Iron Disc, Butterfly Valves (33 14 19 00-0017)	
	Note: ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin	
33 14 19 00-0019 EA	3" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 3,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8).....	1,806.76
33 14 19 00-0020 EA	3" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 3,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8).....	2,006.76
33 14 19 00-0021 EA	4" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 4,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8).....	1,954.97
33 14 19 00-0022 EA	4" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 4,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8).....	2,154.97
33 14 19 00-0023 EA	6" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 6,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8).....	2,244.43
33 14 19 00-0024 EA	6" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 6,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8).....	2,444.43
33 14 19 00-0025 EA	8" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 8,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8).....	2,542.41
33 14 19 00-0026 EA	8" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 8,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8).....	2,741.41
33 14 19 00-0027 EA	10" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 10,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8).....	3,186.81
33 14 19 00-0028 EA	10" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 10,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8).....	4,535.66
33 14 19 00-0029 EA	12" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 12,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8).....	3,652.31
33 14 19 00-0030 EA	12" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 12,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8).....	3,852.31
33 14 19 00-0031 EA	14" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD12).....	4,922.77
33 14 19 00-0032 EA	14" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW12).....	5,445.77
33 14 19 00-0033 EA	16" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD16).....	5,725.55
33 14 19 00-0034 EA	16" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW20).....	6,367.55
33 14 19 00-0035 EA	18" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD24).....	7,158.68
33 14 19 00-0036 EA	18" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW24).....	7,838.68
33 14 19 00-0037 EA	20" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 20,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD24).....	8,200.69
33 14 19 00-0038 EA	20" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 20,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW24).....	8,879.69



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0039			Lug Type Flanged, Ductile Iron Disc, Butterfly Valves <small>(33 14 19 00-0017)</small> Note: ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin		
33 14 19 00-0040	EA		24" Chainwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-CW20)	13,357.61	1,576.49
33 14 19 00-0041	EA		24" Cylinder Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12-PC10)	20,601.61	1,576.49
33 14 19 00-0042	EA		24" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-HD20)	13,316.61	1,576.49
33 14 19 00-0043	EA		30" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,30,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24)	27,576.90	2,487.92
33 14 19 00-0044	EA		36" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,36,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24)	32,582.54	3,317.23
33 14 19 00-0045	EA		42" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,42,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD32)	41,120.80	4,975.84
33 14 19 00-0046	EA		48" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,48,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR4L-HD24)	55,964.75	6,219.80
33 14 19 00-0047	EA		54" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,54,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD24)	88,912.70	7,463.76
33 14 19 00-0048	EA		60" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,60,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD36)	111,451.63	8,956.51
33 14 19 00-0049	EA		72" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,72,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR8L-HD36)	159,862.76	10,747.81
33 14 19 00-0050	LF		3/16" Link, 316 Stainless Steel Chain For Use With Dezurik Chainwheel	26.02	
33 14 19 00-0051	EA		316 Stainless Steel Closing Link For Use With Dezurik Chainwheel	11.38	
Note: One required per valve.					
33 14 19 00-0052			Check Valves <small>(33 14 19 00-0006)</small>		
33 14 19 00-0053			Flanged, Swing Type Gravity Operated Check Valves <small>(33 14 19 00-0052)</small> Note: AWWA C508. Bronze disc facing. Mueller A-2600-6.		
33 14 19 00-0054	EA		2-1/2" Flanged, Swing Type Gravity Operated Check Valve	854.79	148.58
33 14 19 00-0055	EA		3" Flanged, Swing Type Gravity Operated Check Valve	886.51	174.21
33 14 19 00-0056	EA		4" Flanged, Swing Type Gravity Operated Check Valve	1,262.31	220.32
33 14 19 00-0057	EA		4" x 6" Flanged, Swing Type Gravity Operated Check Valve	1,705.46	331.50
33 14 19 00-0058	EA		4" x 8" Flanged, Swing Type Gravity Operated Check Valve	1,780.15	370.22
33 14 19 00-0059	EA		6" Flanged, Swing Type Gravity Operated Check Valve	1,703.01	368.90
33 14 19 00-0060	EA		6" x 8" Flanged, Swing Type Gravity Operated Check Valve	2,203.81	419.33
33 14 19 00-0061	EA		6" x 10" Flanged, Swing Type Gravity Operated Check Valve	2,310.36	471.37
33 14 19 00-0062	EA		8" Flanged, Swing Type Gravity Operated Check Valve	2,400.89	471.37
33 14 19 00-0063	EA		10" Flanged, Swing Type Gravity Operated Check Valve	3,974.53	573.85
33 14 19 00-0064	EA		12" Flanged, Swing Type Gravity Operated Check Valve	5,959.48	430.39
33 14 19 00-0065	EA		14" Flanged, Swing Type Gravity Operated Check Valve	8,379.37	934.22
33 14 19 00-0066	EA		16" Flanged, Swing Type Gravity Operated Check Valve	11,058.60	1,027.64
33 14 19 00-0067	EA		18" Flanged, Swing Type Gravity Operated Check Valve	15,901.13	1,139.74
33 14 19 00-0068	EA		20" Flanged, Swing Type Gravity Operated Check Valve	18,495.96	1,284.55
33 14 19 00-0069			Combination Air Release Valves <small>(33 14 19 00-0006)</small>		
33 14 19 00-0070	EA		1" Combination Air Release Valve	459.30	21.52
33 14 19 00-0071	EA		2" Combination Air Release Valve	742.47	36.89
33 14 19 00-0072			Corporation Stop And Curb Valve <small>(33 14 19 00-0006)</small> Note: AWWA C800		
33 14 19 00-0073			Ball Corporation Valves <small>(33 14 19 00-0072)</small> Note: Mueller B-25000.		
33 14 19 00-0074	EA		3/4" Ball Corporation Valve (Mueller B-25000)	79.63	21.52
33 14 19 00-0075	EA		1" Ball Corporation Valve (Mueller B-25000)	99.96	26.64
33 14 19 00-0076	EA		1-1/2" Ball Corporation Valve (Mueller B-25000)	177.69	38.94
33 14 19 00-0077	EA		2" Ball Corporation Valve (Mueller B-25000)	265.81	46.11
33 14 19 00-0078			Gate Valve, AWWA C500 And C509 <small>(33 14 19 00-0006)</small>		
33 14 19 00-0079			Gate Valve, Flanged <small>(33 14 19 00-0078)</small> Note: Mueller A-2380-6.		
33 14 19 00-0080	EA		2" Gate Valve, Flanged	547.94	136.60
33 14 19 00-0081	EA		2-1/2" Gate Valve, Flanged	636.65	148.58
33 14 19 00-0082	EA		3" Gate Valve, Flanged	752.46	174.21
33 14 19 00-0083	EA		4" Gate Valve, Flanged	1,033.74	218.26



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0084 EA 6" Gate Valve, Flanged.....	1,261.12	368.90
33 14 19 00-0085 EA 8" Gate Valve, Flanged.....	1,833.12	471.37
33 14 19 00-0086 EA 10" Gate Valve, Flanged.....	2,699.81	573.85
33 14 19 00-0087 EA 12" Gate Valve, Flanged.....	3,254.37	430.39
33 14 19 00-0088 EA 14" Gate Valve, Flanged.....	6,884.30	934.22
33 14 19 00-0089 EA 16" Gate Valve, Flanged.....	8,923.52	1,027.64
33 14 19 00-0090 EA 18" Gate Valve, Flanged.....	13,928.35	1,139.74
33 14 19 00-0091 EA 20" Gate Valve, Flanged.....	16,622.84	1,284.55
33 14 19 00-0092 Resilient Wedge Gate Valve, Flanged (33 14 19 00-0078)		
Note: Mueller A-2360-6.		
33 14 19 00-0093 EA 2" Resilient Wedge Gate Valve, Flanged.....	526.61	136.60
33 14 19 00-0094 EA 2-1/2" Resilient Wedge Gate Valve, Flanged.....	611.16	148.58
33 14 19 00-0095 EA 3" Resilient Wedge Gate Valve, Flanged.....	722.21	174.21
33 14 19 00-0096 EA 4" Resilient Wedge Gate Valve, Flanged.....	999.93	218.26
33 14 19 00-0097 EA 6" Resilient Wedge Gate Valve, Flanged.....	1,215.92	368.90
33 14 19 00-0098 EA 8" Resilient Wedge Gate Valve, Flanged.....	1,762.51	471.37
33 14 19 00-0099 EA 10" Resilient Wedge Gate Valve, Flanged.....	2,587.60	573.85
33 14 19 00-0100 EA 12" Resilient Wedge Gate Valve, Flanged.....	3,118.89	430.39
33 14 19 00-0101 Gate Valve, Mechanical Joint (33 14 19 00-0078)		
Note: Mueller A-2380-20.		
33 14 19 00-0102 EA 2" Gate Valve, Mechanical Joint.....	648.55	109.13
33 14 19 00-0103 EA 2-1/2" Gate Valve, Mechanical Joint.....	715.26	136.80
33 14 19 00-0104 EA 3" Gate Valve, Mechanical Joint.....	894.37	165.49
33 14 19 00-0105 EA 4" Gate Valve, Mechanical Joint.....	1,080.95	218.26
33 14 19 00-0106 EA 6" Gate Valve, Mechanical Joint.....	1,346.53	256.18
33 14 19 00-0107 EA 8" Gate Valve, Mechanical Joint.....	1,912.56	307.42
33 14 19 00-0108 EA 10" Gate Valve, Mechanical Joint.....	2,734.05	358.65
33 14 19 00-0109 EA 12" Gate Valve, Mechanical Joint.....	3,409.86	430.39
33 14 19 00-0110 EA 14" Gate Valve, Mechanical Joint.....	7,285.02	572.21
33 14 19 00-0111 EA 16" Gate Valve, Mechanical Joint.....	9,357.97	642.27
33 14 19 00-0112 EA 18" Gate Valve, Mechanical Joint.....	14,706.55	712.34
33 14 19 00-0113 EA 20" Gate Valve, Mechanical Joint.....	17,462.47	802.84
33 14 19 00-0114 Resilient Wedge Gate Valve, Mechanical Joint (33 14 19 00-0078)		
Note: Mueller A-2360-20.		
33 14 19 00-0115 EA 2" Resilient Wedge Gate Valve, Mechanical Joint.....	624.19	109.13
33 14 19 00-0116 EA 3" Resilient Wedge Gate Valve, Mechanical Joint.....	862.48	165.49
33 14 19 00-0117 EA 4" Resilient Wedge Gate Valve, Mechanical Joint.....	1,044.47	218.26
33 14 19 00-0118 EA 6" Resilient Wedge Gate Valve, Mechanical Joint.....	1,299.32	256.18
33 14 19 00-0119 EA 8" Resilient Wedge Gate Valve, Mechanical Joint.....	1,839.12	307.42
33 14 19 00-0120 EA 10" Resilient Wedge Gate Valve, Mechanical Joint.....	2,619.90	358.65
33 14 19 00-0121 EA 12" Resilient Wedge Gate Valve, Mechanical Joint.....	3,265.55	430.39
33 14 19 00-0122 Resilient Wedge Gate Valve, Mechanical Joint X Flange Joint (33 14 19 00-0078)		
Note: Mueller A-2361.		
33 14 19 00-0123 EA 14" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	7,620.73	934.22
33 14 19 00-0124 EA 16" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	8,285.59	1,027.64
33 14 19 00-0125 EA 18" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	12,882.28	1,139.74
33 14 19 00-0126 EA 20" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	15,369.69	1,284.55
33 14 19 00-0127 EA 24" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	21,810.61	1,576.49
33 14 19 00-0128 Gate Valve, Threaded, WW-V-51 Class A, Type 1 (33 14 19 00-0078)		
Note: NIBCO T-113.		
33 14 19 00-0129 EA 1/4" Gate Valve, Bronze, Threaded.....	57.14	17.92
33 14 19 00-0130 EA 3/8" Gate Valve, Bronze, Threaded.....	58.84	17.92
33 14 19 00-0131 EA 1/2" Gate Valve, Bronze, Threaded.....	58.30	17.92
33 14 19 00-0132 EA 3/4" Gate Valve, Bronze, Threaded.....	75.06	24.20
33 14 19 00-0133 EA 1" Gate Valve, Bronze, Threaded.....	92.56	29.27
33 14 19 00-0134 EA 1-1/4" Gate Valve, Bronze, Threaded.....	125.80	37.05
33 14 19 00-0135 EA 1-1/2" Gate Valve, Bronze, Threaded.....	145.97	42.84
33 14 19 00-0136 EA 2" Gate Valve, Bronze, Threaded.....	177.11	50.08
33 14 19 00-0137 EA 2-1/2" Gate Valve, Bronze, Threaded.....	341.12	68.35
33 14 19 00-0138 EA 3" Gate Valve, Bronze, Threaded.....	408.88	78.39
33 14 19 00-0139 Globe Valve, AWWA (33 14 19 00-0006)		
33 14 19 00-0140 Globe Valve, Threaded, WW-V-51 Class B, Type 1 (33 14 19 00-0139)		
Note: NIBCO T-235.		
33 14 19 00-0141 EA 1/8" Globe Valve, Threaded.....	80.82	17.92
33 14 19 00-0142 EA 1/4" Globe Valve, Threaded.....	77.38	17.92
33 14 19 00-0143 EA 3/8" Globe Valve, Threaded.....	79.08	17.92
33 14 19 00-0144 EA 1/2" Globe Valve, Threaded.....	80.82	17.92
33 14 19 00-0145 EA 3/4" Globe Valve, Threaded.....	109.75	24.20
33 14 19 00-0146 EA 1" Globe Valve, Threaded.....	153.96	29.27

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0147 EA 1-1/4" Globe Valve, Threaded.....	225.04	37.05
33 14 19 00-0148 EA 1-1/2" Globe Valve, Threaded.....	268.64	42.84
33 14 19 00-0149 EA 2" Globe Valve, Threaded.....	374.74	50.08
33 14 19 00-0150 EA 2-1/2" Globe Valve, Threaded.....	687.75	68.35
33 14 19 00-0151 EA 3" Globe Valve, Threaded.....	941.47	78.80
33 14 19 00-0152 Tapping Valve, AWWA C500 And C509 <small>(33 14 19 00-0006)</small>		
33 14 19 00-0153 Tapping Valve, AWWA C500 And C509 <small>(33 14 19 00-0152)</small>		
Note: Flanged inlet X mechanical joint, Mueller H-667.		
33 14 19 00-0154 EA 2" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	751.28	136.60
33 14 19 00-0155 EA 3" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	967.32	174.21
33 14 19 00-0156 EA 4" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	1,241.28	218.26
33 14 19 00-0157 EA 6" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	1,578.26	368.90
33 14 19 00-0158 EA 8" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	2,239.86	471.37
33 14 19 00-0159 EA 10" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	3,194.09	573.85
33 14 19 00-0160 EA 12" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	4,646.18	430.39
33 14 19 00-0161 EA 14" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	8,315.91	934.22
33 14 19 00-0162 EA 16" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	10,439.48	1,027.64
33 14 19 00-0163 EA 18" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	16,616.39	1,139.74
33 14 19 00-0164 Fire Hydrants <small>(33 14 19)</small>		
Note: Breakaway type.		
33 14 19 00-0165 Three Way, Standard (Traditional) Model Fire Hydrant <small>(33 14 19 00-0164)</small>		
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0166 EA 1-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,549.63	268.72
33 14 19 00-0167 EA 2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,616.14	268.72
33 14 19 00-0168 EA 2-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,682.82	268.72
33 14 19 00-0169 EA 3' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,768.38	287.92
33 14 19 00-0170 EA 3-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,834.96	287.92
33 14 19 00-0171 EA 4' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,925.59	311.91
33 14 19 00-0172 EA 4-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,992.06	311.91
33 14 19 00-0173 EA 5' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,082.71	335.90
33 14 19 00-0174 EA 5-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,149.28	335.90
33 14 19 00-0175 EA 6' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,239.75	359.90
33 14 19 00-0176 EA 6-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,330.29	383.89
33 14 19 00-0177 EA 7' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,444.73	431.88
33 14 19 00-0178 EA 1-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,610.33	268.72
33 14 19 00-0179 EA 2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,696.64	268.72
33 14 19 00-0180 EA 2-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,782.74	268.72
33 14 19 00-0181 EA 3' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,888.04	287.92
33 14 19 00-0182 EA 3-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,974.14	287.92
33 14 19 00-0183 EA 4' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,084.55	311.91
33 14 19 00-0184 EA 4-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,170.54	311.91
33 14 19 00-0185 EA 5' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,280.72	335.90
33 14 19 00-0186 EA 5-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,366.80	335.90
33 14 19 00-0187 EA 6' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,476.75	359.90
33 14 19 00-0188 EA 6-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,587.05	383.89
33 14 19 00-0189 EA 7' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,720.99	431.88
33 14 19 00-0190 Two Way, Standard (Traditional) Model Fire Hydrant <small>(33 14 19 00-0164)</small>		
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0191 EA 1-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,184.55	268.72
33 14 19 00-0192 EA 2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,250.83	268.72
33 14 19 00-0193 EA 2-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,317.49	268.72
33 14 19 00-0194 EA 3' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,403.33	287.92
33 14 19 00-0195 EA 3-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,469.69	287.92
33 14 19 00-0196 EA 4' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,560.17	311.91
33 14 19 00-0197 EA 4-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,626.74	311.91
33 14 19 00-0198 EA 5' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,717.45	335.90
33 14 19 00-0199 EA 5-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,783.88	335.90
33 14 19 00-0200 EA 6' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,874.71	359.90
33 14 19 00-0201 EA 6-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,964.83	383.89
33 14 19 00-0202 EA 7' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,079.41	431.88
33 14 19 00-0203 EA 1-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,278.31	268.72
33 14 19 00-0204 EA 2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,364.43	268.72
33 14 19 00-0205 EA 2-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,450.42	268.72
33 14 19 00-0206 EA 3' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,555.94	287.92
33 14 19 00-0207 EA 3-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,641.82	287.92
33 14 19 00-0208 EA 4' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,752.08	311.91
33 14 19 00-0209 EA 4-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,838.01	311.91
33 14 19 00-0210 EA 5' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,948.47	335.90
33 14 19 00-0211 EA 5-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,034.35	335.90
33 14 19 00-0212 EA 6' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,144.60	359.90
33 14 19 00-0213 EA 6-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,254.48	383.89
33 14 19 00-0214 EA 7' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,388.89	431.88



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0215	Three Way, Modern Model Fire Hydrant (33 14 19 00-0164)	
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0216 EA 1-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,704.85	268.72
33 14 19 00-0217 EA 2' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,790.84	268.72
33 14 19 00-0218 EA 2-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,877.09	268.72
33 14 19 00-0219 EA 3' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,982.44	287.92
33 14 19 00-0220 EA 3-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,068.49	287.92
33 14 19 00-0221 EA 4' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,178.58	311.91
33 14 19 00-0222 EA 4-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,264.75	311.91
33 14 19 00-0223 EA 5' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,374.86	335.90
33 14 19 00-0224 EA 5-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,460.94	335.90
33 14 19 00-0225 EA 6' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,571.04	335.90
33 14 19 00-0226 EA 6-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,681.39	383.89
33 14 19 00-0227 EA 7' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,814.43	383.89
33 14 19 00-0228	Two Way, Modern Model Fire Hydrant (33 14 19 00-0164)	
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0229 EA 1-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,626.59	268.72
33 14 19 00-0230 EA 2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,692.03	268.72
33 14 19 00-0231 EA 2-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,758.20	268.72
33 14 19 00-0232 EA 3' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,842.07	287.92
33 14 19 00-0233 EA 3-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,907.49	287.92
33 14 19 00-0234 EA 4' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,996.90	311.91
33 14 19 00-0235 EA 4-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,062.30	311.91
33 14 19 00-0236 EA 5' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,151.79	335.90
33 14 19 00-0237 EA 5-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,217.02	335.90
33 14 19 00-0238 EA 6' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,306.46	359.90
33 14 19 00-0239 EA 6-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,395.96	383.89
33 14 19 00-0240 EA 7' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,508.56	431.88
33 14 19 00-0241	Safetop Model With Breakable Section (33 14 19 00-0164)	
Note: Prices listed are for mechanical joint. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0242 EA 4" Safetop Model Fire Hydrant Breakable With 5' Burial Section.....	3,010.24	383.89
33 14 19 00-0243 EA 6" Safetop Model Fire Hydrant Breakable With 5' Burial Section.....	3,143.08	383.89
33 14 19 00-0244 EA 8" Safetop Model Fire Hydrant Breakable With 5' Burial Section.....	3,347.92	383.89
33 14 19 00-0245	Fire Hydrant Extension Kits (33 14 19 00-0164)	
33 14 19 00-0246 EA 6" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	543.17	23.99
33 14 19 00-0247 EA 12" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	644.72	29.99
33 14 19 00-0248 EA 18" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	701.73	35.99
33 14 19 00-0249 EA 24" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	796.04	44.39
33 14 19 00-0250 EA 30" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,211.47	46.19
33 14 19 00-0251 EA 36" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,294.52	47.99
33 14 19 00-0252 EA 42" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,313.46	50.38
33 14 19 00-0253 EA 48" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,386.95	53.98
33 14 19 00-0254 EA 54" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,526.70	64.78
33 14 19 00-0255 EA 60" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,606.77	77.98
33 14 19 00-0256 EA 6" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	604.38	26.88
33 14 19 00-0257 EA 12" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	714.84	32.63
33 14 19 00-0258 EA 18" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	819.57	39.34
33 14 19 00-0259 EA 24" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	914.09	48.95
33 14 19 00-0260 EA 30" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,258.90	50.87
33 14 19 00-0261 EA 36" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,342.97	52.78
33 14 19 00-0262 EA 42" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,400.26	55.67
33 14 19 00-0263 EA 48" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,640.23	59.50
33 14 19 00-0264 EA 54" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,794.87	71.02
33 14 19 00-0265 EA 60" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,881.00	85.42
33 14 19 00-0266	Removal And Reinstallation Of Standard Fire Hydrant (33 14 19 00-0164)	
Note: Includes all necessary fittings for resetting, storage and cleaning. Excludes excavation, backfill and thrust blocking around fire hydrant.		
33 14 19 00-0267 EA Up To 5' Burial Section, Removal And Reinstallation Of Fire Hydrant.....	767.78	
33 14 19 00-0268 EA >5' Burial Section, Removal And Reinstallation Of Fire Hydrant.....	1,119.68	
33 14 19 00-0269 EA Reset Fire Hydrant Upper Barrel.....	989.40	
Note: Includes Safety Repair Kit		
33 14 19 00-0270	Yard Hydrants (33 14 19)	
Note: With 3/4" hose thread outlet.		
33 14 19 00-0271 EA 2' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	352.68	33.38
33 14 19 00-0272 EA 4' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	379.19	33.38
33 14 19 00-0273 EA 6' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	405.70	33.38
33 14 19 00-0274 EA 2' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	310.95	42.28
33 14 19 00-0275 EA 4' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	325.60	42.28
33 14 19 00-0276 EA 6' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	340.25	42.28

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 19 00-0277	Sanitary Yard Hydrants <small>(33 14 19)</small>		
	Note: With 3/4" hose thread outlet.		
33 14 19 00-0278	EA 2' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,605.08	69.55
33 14 19 00-0279	EA 4' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,687.92	69.55
33 14 19 00-0280	EA 6' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,770.76	69.55
33 14 19 00-0281	Flushing Hydrants <small>(33 14 19)</small>		
33 14 19 00-0282	EA 2" Inlet x 2-1/2" Outlet Steel Flushing Hydrant, 3' Bury Depth	803.37	42.87
33 14 23	Enclosures for Water Utility Piping and Valves <small>(33 14)</small>		
	See CSI section 22 11 19 00-0449 for Enclosures.		
33 14 23 00-0001	Roadway Utility Box <small>(33 14 23)</small>		
33 14 23 00-0002	Utility Box <small>(33 14 23 00-0001)</small>		
	Note: Christy Concrete Products.		
33 14 23 00-0003	B3 Utility Box, 9-3/8" x 15-1/2" <small>(33 14 23 00-0002)</small>		
33 14 23 00-0004	EA 9-3/8" x 15-1/2" Precast Concrete Utility Box.....	111.29	50.76
33 14 23 00-0005	EA Cast Iron Lid For 9-3/8" x 15-1/2" Utility Box.....	111.60	5.64
33 14 23 00-0006	EA Reinforced Concrete Lid For 9-3/8" x 15-1/2" Utility Box	46.57	5.64
33 14 23 00-0007	EA Steel Checkered Plate Cover For 9-3/8" x 15-1/2" Utility Box.....	243.82	5.64
33 14 23 00-0008	EA 12-1/8" x 18-5/8" Reinforced Concrete Slab For 9-3/8" x 15-1/2" Utility Box	66.14	11.28
33 14 23 00-0009	EA 3" High Reinforced Concrete Base For 9-3/8" x 15-1/2" Utility Box	94.87	11.28
33 14 23 00-0010	B9 Utility Box, 10-1/4" x 17-1/4" <small>(33 14 23 00-0002)</small>		
33 14 23 00-0011	EA 10-1/4" x 17-1/4" Precast Concrete Utility Box.....	135.11	67.68
33 14 23 00-0012	EA Cast Iron Lid For 10-1/4" x 17-1/4" Utility Box.....	130.75	6.76
33 14 23 00-0013	EA Reinforced Concrete Lid For 10-1/4" x 17-1/4" Utility Box	51.71	6.76
33 14 23 00-0014	EA Steel Checkered Plate Cover For 10-1/4" x 17-1/4" Utility Box	255.78	5.64
33 14 23 00-0015	EA 13" x 19-3/4" Reinforced Concrete Slab For 10-1/4" x 17-1/4" Utility Box.....	74.04	11.28
33 14 23 00-0016	EA 5-3/4" High Reinforced Concrete Base For 10-1/4" x 17-1/4" Utility Box	99.21	16.92
33 14 23 00-0017	EA 12" High Reinforced Concrete Extension For 10-1/4" x 17-1/4" Utility Box.....	117.96	31.02
33 14 23 00-0018	B12 Utility Box, 12" x 20" <small>(33 14 23 00-0002)</small>		
33 14 23 00-0019	EA 12" x 20" Precast Concrete Utility Box.....	148.50	73.31
33 14 23 00-0020	EA Cast Iron Lid For 12" x 20" Utility Box.....	235.28	8.46
33 14 23 00-0021	EA Reinforced Concrete Lid For 12" x 20" Utility Box.....	69.43	11.28
33 14 23 00-0022	EA Steel Checkered Plate Cover For 12" x 20" Utility Box	344.16	11.28
33 14 23 00-0023	EA 12" High Reinforced Concrete Extension For 12" x 20" Utility Box	153.77	39.48
33 14 23 00-0024	B16 Utility Box, 12" x 22-1/4" <small>(33 14 23 00-0002)</small>		
33 14 23 00-0025	EA 12" x 22-1/4" Precast Concrete Utility Box.....	170.96	85.72
33 14 23 00-0026	EA Cast Iron Lid For 12" x 22-1/4" Utility Box.....	265.92	11.28
33 14 23 00-0027	EA Reinforced Concrete Lid For 12" x 22-1/4" Utility Box.....	85.72	11.28
33 14 23 00-0028	EA Steel Checkered Plate Cover For 12" x 22-1/4" Utility Box	346.10	11.28
33 14 23 00-0029	EA 16" x 27" Reinforced Concrete Slab For 12" x 22-1/4" Utility Box	120.47	19.18
33 14 23 00-0030	EA 12" High Reinforced Concrete Extension For 12" x 22-1/4" Utility Box	156.47	39.48
33 14 23 00-0031	B30 Utility Box, 13-1/4" x 24" <small>(33 14 23 00-0002)</small>		
33 14 23 00-0032	EA 13-1/4" x 24" Precast Concrete Utility Box (Christy B30BOX)	205.92	101.51
33 14 23 00-0033	EA Reinforced Concrete Lid For 13-1/4" x 24" Utility Box (Christy B30D)	115.54	18.05
33 14 23 00-0034	EA Steel Checkered Plate Cover For 13-1/4" x 24" Utility Box (Christy B30-61G).....	427.89	14.66
33 14 23 00-0035	EA 16" x 27" Reinforced Concrete Slab For 13-1/4" x 24" Utility Box (Christy B30SL).....	120.47	19.18
33 14 23 00-0036	EA 5-1/2" High Reinforced Concrete Base For 13-1/4" x 24" Utility Box (Christy B30BA)	184.63	31.59
33 14 23 00-0037	EA 6" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X6)	144.09	21.43
33 14 23 00-0038	EA 12" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X12)	202.73	50.76
33 14 23 00-0039	B36 Utility Box, 17-1/4" x 30" <small>(33 14 23 00-0002)</small>		
33 14 23 00-0040	EA 17-1/4" x 30" Precast Concrete Utility Box (Christy B36BOX)	269.06	128.59
33 14 23 00-0041	EA Reinforced Concrete Lid For 17-1/4" x 30" Utility Box (Christy B36D)	188.33	31.02
33 14 23 00-0042	EA Steel Checkered Plate Cover For 17-1/4" x 30" Utility Box (Christy B36-61D)	536.48	21.43
33 14 23 00-0043	EA 20" x 34" Reinforced Concrete Slab For 17-1/4" x 30" Utility Box (Christy B36SL).....	170.10	40.61
33 14 23 00-0044	EA 6" High Reinforced Concrete Base For 17-1/4" x 30" Utility Box (Christy B36BA)	287.11	45.11
33 14 23 00-0045	EA 12" High Reinforced Concrete Extension For 17-1/4" x 30" Utility Box (Christy B36X12)	270.61	65.42
33 14 23 00-0046	B40 Utility Box, 24-1/2" x 36" <small>(33 14 23 00-0002)</small>		
33 14 23 00-0047	EA 24-1/2" x 36" Precast Concrete Utility Box.....	555.61	198.52
33 14 23 00-0048	EA Reinforced Concrete Lid For 24-1/2" x 36" Utility Box.....	515.03	74.44
33 14 23 00-0049	EA Steel Checkered Plate Cover For 24-1/2" x 36" Utility Box.....	762.07	32.71
33 14 23 00-0050	EA 30" x 40" Reinforced Concrete Slab For 24-1/2" x 36" Utility Box	421.38	69.94
33 14 23 00-0051	EA 10" High Reinforced Concrete Extension For 24-1/2" x 36" Utility Box	447.06	73.31



		MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 23 00-0052		B48 Utility Box, 30-1/4" x 48-1/4" (33 14 23 00-0002)		
	EA	30-1/4" x 48-1/4" Precast Concrete Utility Box.....	703.44	225.59
	EA	1 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box	710.55	122.94
	EA	2 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box	894.91	122.94
	EA	2 Piece Steel Checkered Plate Cover For 30-1/4" x 48-1/4" Utility Box.....	1,206.61	56.40
	EA	36" x 53" Reinforced Concrete Slab For 30-1/4" x 48-1/4" Utility Box.....	613.97	152.27
	EA	10" High Reinforced Concrete Extension For 30-1/4" x 48-1/4" Utility Box.....	552.92	102.64
33 14 23 00-0059		Roadway Or Curb Valve Boxes (33 14 23)		
33 14 23 00-0060		Round Head, Cast Iron Service, Roadway Or Valve Boxes (33 14 23 00-0059)		
	EA	36" To 48" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	288.41	13.52
		Note: Includes cover, top section and bottom section.		
	EA	36" To 54" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	337.77	13.52
		Note: Includes cover, top section and bottom section.		
	EA	42" To 60" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	340.05	13.52
		Note: Includes cover, top section and bottom section.		
	EA	9" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	83.35	6.76
	EA	16" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	96.42	6.76
	EA	24" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	116.08	6.76
	EA	36" To 48" High, Screw Type, 4-1/4" Shaft, Round Head, Cast Iron Roadway Box.....	439.23	16.91
		Note: Includes cover, top section and bottom section.		
	EA	45" To 54" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	767.71	23.67
		Note: Includes cover, top section, bottom section and #6 round base.		
	EA	45" To 66" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	859.79	23.67
		Note: Includes cover, top section, bottom section and #6 round base.		
	EA	24" To 36" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	457.49	16.91
		Note: Includes cover, top section and bottom section.		
	EA	36" To 48" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	479.49	16.91
		Note: Includes cover, top section and bottom section.		
	EA	24" To 36" High, Two Piece, Slip Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	462.69	16.91
		Note: Includes cover, top section and bottom section.		
	EA	12" Extension For Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	166.91	6.76
	EA	18" To 24" High Round Head Cast Iron Roadway Or Curb Valve Boxes	272.19	27.82
	EA	22" To 28" High Round Head Cast Iron Roadway Or Curb Valve Boxes	282.19	28.94
	EA	30" To 36" High Round Head Cast Iron Roadway Or Curb Valve Boxes	314.40	30.04
	EA	36" To 48" High Round Head Cast Iron Roadway Or Curb Valve Box	441.00	31.72
	EA	48" To 60" High Round Head Cast Iron Roadway Or Curb Valve Boxes	534.53	33.38
	EA	18" Cast Iron Service Box Extension Section	127.07	
33 14 23 00-0080		Plastic Roadway Grade Water Meter Box And Cover (33 14 23 00-0059)		
	EA	12" Wide x 16" Long x 16" Deep Plastic Meter Box And Cover	267.43	38.95
	EA	9-3/4" Wide x 19-1/4" Long x 16" Deep Oval Plastic Meter Box And Cover	200.81	27.82
	EA	Cast Iron Lid For Plastic Meter Box	59.28	
33 14 23 00-0084		Traffic Valve Box And Lid (33 14 23 00-0059)		
	EA	10-3/8" ID x 12" Traffic Valve Box And 11" OD Cast Iron Lid (Christy G-5).....	204.45	
	EA	14-1/2" ID x 12" Traffic Valve Box And 13-1/4" OD Cast Iron Lid (Christy G-12).....	665.37	
33 19		Water Utility Metering Equipment (33 19)		
33 19 13		Positive Displacement Water Meters (33 19)		
33 19 13 23		Nutating Disc Water Meters (33 19 13)		
33 19 13 23-0001		Bronze Disk Type Water Service Meters (33 19 13 23)		
	EA	5/8" Diameter, 0 To 20 GPM, Screwed, Disk Type, Bronze Water Supply Meter	305.05	57.86
	EA	3/4" Diameter, 0 To 30 GPM, Screwed, Disk Type, Bronze Water Supply Meter	383.65	68.99
	EA	1" Diameter, 0 To 50 GPM, Screwed, Disk Type, Bronze Water Supply Meter	515.99	79.00
	EA	1-1/2" Diameter, 0 To 100 GPM, Screwed, Disk Type, Bronze Water Supply Meter	1,005.91	117.95
	EA	2" Diameter, 0 To 160 GPM, Screwed, Disk Type, Bronze Water Supply Meter	1,363.29	153.56
33 19 13 23-0007		Magnetic Driven, Positive Displacement Type Water Service Meters (33 19 13 23)		
	EA	5/8" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	538.75	57.86
		<i>For Owner Furnished Material, Deduct</i>	-480.18	
	EA	3/4" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	614.25	68.99
		<i>For Owner Furnished Material, Deduct</i>	-544.70	
	EA	1" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	915.28	79.00
		<i>For Owner Furnished Material, Deduct</i>	-835.79	
	EA	1-1/2" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	1,549.41	117.95
		<i>For Owner Furnished Material, Deduct</i>	-1,431.04	
	EA	2" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	1,918.00	153.56
		<i>For Owner Furnished Material, Deduct</i>	-1,763.45	

33	33 Utilities
	33 10 Water Utilities
	33 19 Water Utility Metering Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 19 13 23-0013 EA Electronic Transmitter.....	437.02	27.82
Note: For use with transmitting meter valve.		
For Owner Furnished Material, Deduct		
	-409.20	

33 19 16 Velocity-Type Water Meters (33 19)

33 19 16 23 Turbine Water Meters (33 19 16)

33 19 16 23-0001 Flanged Turbine Water Service Meter (33 19 16 23)

33 19 16 23-0002 Vertical Turbine Meters (33 19 16 23-0001)

33 19 16 23-0003 EA 1-1/2" Diameter, 0 - 100 GPM Vertical Turbine Meter, Flanged.....	621.21	107.60
33 19 16 23-0004 EA 2" Diameter, 0 - 160 GPM Vertical Turbine Meter, Flanged.....	864.08	136.60
33 19 16 23-0005 EA 3" Diameter, 0 - 350 GPM Vertical Turbine Meter, Flanged.....	1,662.61	174.21
33 19 16 23-0006 EA 4" Diameter, 0 - 650 GPM Vertical Turbine Meter, Flanged.....	2,494.05	272.58
33 19 16 23-0007 EA 6" Diameter, 0 - 1,300 GPM Vertical Turbine Meter, Flanged.....	4,551.97	368.90

33 19 16 23-0008 Horizontal Turbine Meters (33 19 16 23-0001)

33 19 16 23-0009 EA 1-1/2" Diameter, 0 - 120 GPM Horizontal Turbine Meter, Flanged	945.46	107.60
33 19 16 23-0010 EA 2" Diameter, 0 - 160 GPM Horizontal Turbine Meter, Flanged.....	1,326.98	136.60
33 19 16 23-0011 EA 3" Diameter, 0 - 600 GPM Horizontal Turbine Meter, Flanged.....	1,848.20	174.21
33 19 16 23-0012 EA 4" Diameter, 0 - 1,000 GPM Horizontal Turbine Meter, Flanged.....	2,739.37	272.58
33 19 16 23-0013 EA 6" Diameter, 0 - 2,000 GPM Horizontal Turbine Meter, Flanged.....	5,445.78	368.90
33 19 16 23-0014 EA 8" Diameter, 0 - 3,500 GPM Horizontal Turbine Meter, Flanged.....	7,252.91	471.37
33 19 16 23-0015 EA 10" Diameter, 0 - 5,500 GPM Horizontal Turbine Meter, Flanged.....	10,039.95	573.85
33 19 16 23-0016 EA 12" Diameter, 0 - 6,600 GPM Horizontal Turbine Meter, Flanged.....	12,345.22	904.83

33 19 19 Compound Water Meters (33 19)

33 19 19 00-0001 Flanged Compound Type Water Service Meter (33 19 19)

33 19 19 00-0002 EA 2" Diameter, 0 To 160 GPM, Flanged And Bronze, Compound Type Water Service Meter	2,438.38	136.60
33 19 19 00-0003 EA 3" Diameter, 0 To 320 GPM, Flanged And Bronze, Compound Type Water Service Meter	3,066.26	174.21
33 19 19 00-0004 EA 4" Diameter, 0 To 500 GPM, Flanged And Bronze, Compound Type Water Service Meter	5,051.76	272.58
33 19 19 00-0005 EA 6" Diameter, 0 To 1,000 GPM, Flanged And Bronze, Compound Type Water Service Meter	7,054.21	368.90
33 19 19 00-0006 EA 8" Diameter, 0 To 1,600 GPM, Flanged And Bronze, Compound Type Water Service Meter	14,183.68	471.37
33 19 19 00-0007 EA 10" Diameter, 0 To 2,500 GPM, Flanged And Bronze, Compound Type Water Service Meter	24,046.54	573.85

33 19 23 Magnetic Water Meters (33 19)

33 19 23 00-0001 Flanged Electromagnetic Flow (EMF) Water Meter (33 19 23)

33 19 23 00-0002 EA 2" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	8,104.75	136.60
33 19 23 00-0003 EA 3" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	11,425.11	174.21
33 19 23 00-0004 EA 4" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	13,114.62	272.58

33 19 26 Ultrasonic Water Meters (33 19)

33 19 26 00-0001 Ultrasonic Water Service Meters (Mastermeter Octive) (33 19 26)

33 19 26 00-0002 EA 3" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive).....	4,086.06	174.21
33 19 26 00-0003 EA 4" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive).....	4,708.46	272.58
33 19 26 00-0004 EA 6" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive).....	6,929.21	368.90
33 19 26 00-0005 EA 8" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive).....	9,981.60	471.37

33 30 Sanitary Sewerage Utilities (33)

33 31 Sanitary Sewerage Piping (33 30)

33 31 11 Public Sanitary Sewerage Gravity Piping (33 31)

Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 31 11 00-0001 Cast Iron Service Saddles With U Bolt (33 31 11)

33 31 11 00-0002 EA 2" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt.....	113.35	
33 31 11 00-0003 EA 3" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	113.95	
33 31 11 00-0004 EA 3" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt.....	125.43	
33 31 11 00-0005 EA 4" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	121.34	
33 31 11 00-0006 EA 4" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	136.90	
33 31 11 00-0007 EA 4" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	153.97	
33 31 11 00-0008 EA 4" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	182.37	
33 31 11 00-0009 EA 6" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	154.29	
33 31 11 00-0010 EA 6" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	168.65	
33 31 11 00-0011 EA 6" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	194.57	
33 31 11 00-0012 EA 2" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt	157.93	
33 31 11 00-0013 EA 4" Diameter x 1-1/2" Tapped Wye Cast Iron Service Saddle With U Bolt	124.70	
33 31 11 00-0014 EA 4" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt	136.18	
33 31 11 00-0015 EA 4" Diameter x 3" Hub Wye Cast Iron Service Saddle With U Bolt.....	161.84	
33 31 11 00-0016 EA 4" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt.....	192.03	



		MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
					33 31 11 00-0017 EA 6" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt.....	206.61	
33 31 11 00-0018					Plastic Sewer And Drain Piping (33 31 11)		
33 31 11 00-0019					Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe (33 31 11 00-0018)		
					33 31 11 00-0020 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	9.28	3.84
					33 31 11 00-0021 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	11.24	4.53
					33 31 11 00-0022 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	15.46	5.49
					33 31 11 00-0023 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	19.25	6.41
					33 31 11 00-0024 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	26.14	7.45
					33 31 11 00-0025 LF 8" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	34.83	8.66
					33 31 11 00-0026 LF 10" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	47.13	8.97
					33 31 11 00-0027 LF 12" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	61.51	9.29
33 31 11 00-0028					Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe (33 31 11 00-0018)		
					Note: D-2729 PVC pipe.		
					33 31 11 00-0029 LF 3" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	12.04	5.49
					33 31 11 00-0030 LF 4" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	14.13	6.41
					33 31 11 00-0031 LF 6" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	17.49	7.45
33 31 11 00-0032					Polyvinyl Chloride (PVC) Sewer And Drain Fittings (33 31 11 00-0018)		
33 31 11 00-0033					1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
					33 31 11 00-0034 EA 1-1/2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	25.01	12.92
					33 31 11 00-0035 EA 2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	32.16	16.70
					33 31 11 00-0036 EA 3" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	55.91	22.43
					33 31 11 00-0037 EA 4" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	85.98	25.93
					33 31 11 00-0038 EA 6" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	337.39	33.70
					33 31 11 00-0039 EA 8" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	559.24	45.35
					33 31 11 00-0040 EA 10" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	738.33	60.39
33 31 11 00-0041					1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
					33 31 11 00-0042 EA 1-1/2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	26.31	12.92
					33 31 11 00-0043 EA 2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	32.05	16.70
					33 31 11 00-0044 EA 3" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	53.96	22.43
					33 31 11 00-0045 EA 4" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	76.45	25.93
					33 31 11 00-0046 EA 6" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	313.12	33.70
					33 31 11 00-0047 EA 8" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	502.83	45.35
					33 31 11 00-0048 EA 10" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	572.39	60.39
					33 31 11 00-0049 EA 12" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	850.06	80.44
33 31 11 00-0050					Long Sweep 1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
					33 31 11 00-0051 EA 1-1/2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	40.58	12.72
					33 31 11 00-0052 EA 2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	41.26	16.70
					33 31 11 00-0053 EA 3" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	80.07	22.92
					33 31 11 00-0054 EA 4" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	131.93	27.97
					33 31 11 00-0055 EA 6" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	252.36	32.34
					33 31 11 00-0056 EA 8" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	437.72	36.90
					33 31 11 00-0057 EA 10" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	710.33	43.01
					33 31 11 00-0058 EA 12" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	1,069.96	50.14
33 31 11 00-0059					1/16 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
					33 31 11 00-0060 EA 1-1/2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	29.08	12.92
					33 31 11 00-0061 EA 2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	34.87	16.70
					33 31 11 00-0062 EA 3" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	62.07	22.43
					33 31 11 00-0063 EA 4" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	91.49	25.93
					33 31 11 00-0064 EA 6" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	418.12	33.70
					33 31 11 00-0065 EA 8" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	676.77	45.35
					33 31 11 00-0066 EA 10" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	765.09	60.39
					33 31 11 00-0067 EA 12" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	785.83	80.44
33 31 11 00-0068					Reducers, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
					33 31 11 00-0069 EA 2" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	33.41	14.74
					33 31 11 00-0070 EA 3" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	62.38	17.59
					33 31 11 00-0071 EA 3" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	59.25	19.40
					33 31 11 00-0072 EA 4" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	91.44	21.20
					33 31 11 00-0073 EA 4" x 3" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	98.42	24.06
					33 31 11 00-0074 EA 6" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	297.50	29.78
					33 31 11 00-0075 EA 8" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	629.96	39.49
					33 31 11 00-0076 EA 10" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	161.45	43.12
					33 31 11 00-0077 EA 10" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	221.48	47.03
					33 31 11 00-0078 EA 10" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	208.74	52.82
					33 31 11 00-0079 EA 12" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	656.51	57.09

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0080 EA 12" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	693.69	62.88
33 31 11 00-0081 EA 12" x 10" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	735.00	70.42
33 31 11 00-0082 Sanitary Tees, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0083 EA 1-1/2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	39.32	19.52
33 31 11 00-0084 EA 2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	52.21	25.25
33 31 11 00-0085 EA 3" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	88.35	33.31
33 31 11 00-0086 EA 4" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	135.14	41.37
33 31 11 00-0087 EA 6" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	493.37	45.35
33 31 11 00-0088 EA 8" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	640.57	60.39
33 31 11 00-0089 Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0090 EA 1-1/2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	49.39	19.52
33 31 11 00-0091 EA 2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	58.06	25.25
33 31 11 00-0092 EA 3" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	95.83	33.31
33 31 11 00-0093 EA 4" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	147.39	41.37
33 31 11 00-0094 EA 6" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	447.43	45.35
33 31 11 00-0095 EA 8" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	553.30	60.39
33 31 11 00-0096 EA 10" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	727.95	80.59
33 31 11 00-0097 EA 12" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	1,147.38	107.56
33 31 11 00-0098 Reducing Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0099 EA 2" x 1-1/2" x 1-1/2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	65.21	19.52
33 31 11 00-0100 EA 2" x 2" x 1" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	73.45	25.25
33 31 11 00-0101 EA 3" x 3" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	85.43	33.31
33 31 11 00-0102 EA 4" x 4" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	130.59	41.37
33 31 11 00-0103 EA 4" x 4" x 3" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	142.08	41.37
33 31 11 00-0104 Double Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0105 EA 1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	80.71	25.25
33 31 11 00-0106 EA 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	105.15	33.31
33 31 11 00-0107 EA 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	209.87	44.96
33 31 11 00-0108 EA 4" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	370.44	54.38
33 31 11 00-0109 EA 2" x 2" x 1-1/2" x 1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	100.38	33.31
33 31 11 00-0110 EA 3" x 3" x 2" x 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	173.46	44.96
33 31 11 00-0111 EA 4" x 4" x 3" x 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	310.30	54.38
33 31 11 00-0112 Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0113 EA 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	61.96	19.52
33 31 11 00-0114 EA 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	77.67	25.25
33 31 11 00-0115 EA 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	154.77	33.31
33 31 11 00-0116 EA 4" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	279.57	41.37
33 31 11 00-0117 EA 2" x 2" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	120.36	25.25
33 31 11 00-0118 EA 3" x 3" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	193.44	33.31
33 31 11 00-0119 EA 3" x 3" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	139.65	33.31
33 31 11 00-0120 EA 4" x 4" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	261.45	41.37
33 31 11 00-0121 EA 4" x 4" x 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	278.03	41.37
33 31 11 00-0122 Double Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0123 EA 1-1/2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	90.46	25.25
33 31 11 00-0124 EA 2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	106.23	33.31
33 31 11 00-0125 EA 3" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	165.12	44.96
33 31 11 00-0126 EA 4" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	596.45	54.38
33 31 11 00-0127 EA 6" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	1,959.56	60.20
33 31 11 00-0128 Cleanout Tees With Plug, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0129 EA 4" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain.....	473.08	102.91
33 31 11 00-0130 EA 6" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain.....	1,125.18	132.77
33 31 11 00-0131 EA 8" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain.....	1,433.69	187.09
33 31 11 00-0132 EA 10" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain.....	1,980.74	300.96
33 31 11 00-0133 Couplings, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0134 EA 1-1/2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain.....	24.33	12.92
33 31 11 00-0135 EA 2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain.....	30.39	16.61
33 31 11 00-0136 EA 3" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain.....	47.52	22.24
33 31 11 00-0137 EA 4" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain.....	62.06	25.93
33 31 11 00-0138 EA 6" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain.....	178.68	33.70
33 31 11 00-0139 EA 8" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain.....	437.98	45.35



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0140	EA		10" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	664.01	60.39
33 31 11 00-0141	EA		12" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	1,097.52	80.44
33 31 11 00-0142			Adapters, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0143	EA		4" Male, Plastic Pipe x Malleable Iron Pipe Adapter, Drain And Sewer Fitting	124.20	71.94
33 31 11 00-0144	EA		2" x 3" x 3" Downspout Adapter, Drain And Sewer Fitting	87.54	54.72
33 31 11 00-0145	EA		2" x 3" x 4" Downspout Adapter, Drain And Sewer Fitting	89.92	54.72
33 31 11 00-0146	EA		3" x 4" x 4" Downspout Adapter, Drain And Sewer Fitting	96.25	54.72
33 31 11 00-0147	EA		4" Hub, Cast Iron Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting.....	125.94	71.94
33 31 11 00-0148	EA		4" Spigot, Clay Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting	120.88	71.94
33 31 11 00-0149	EA		4" Spigot, Fiberglass Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting.....	112.56	71.94
33 31 11 00-0150	EA		4" Drain Grate, Drain And Sewer Fitting	61.64	36.99
33 31 11 00-0151			Caps, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0152	EA		3" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	35.35	13.88
33 31 11 00-0153	EA		4" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	58.80	17.29
33 31 11 00-0154	EA		6" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	112.15	22.34
33 31 11 00-0155			Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0156	EA		1-1/2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	22.26	12.92
33 31 11 00-0157	EA		2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	28.99	16.70
33 31 11 00-0158	EA		3" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	43.10	22.43
33 31 11 00-0159	EA		4" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	56.93	25.93
33 31 11 00-0160	EA		6" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	98.30	33.70
33 31 11 00-0161	EA		8" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	375.27	45.35
33 31 11 00-0162			Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0018)		
			Note: ASTM 3034.		
33 31 11 00-0163	LF		4" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	16.76	6.41
33 31 11 00-0164	LF		6" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	22.42	7.45
33 31 11 00-0165	LF		8" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	30.10	8.66
33 31 11 00-0166	LF		10" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	37.09	8.97
33 31 11 00-0167	LF		12" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	45.54	9.29
33 31 11 00-0168	LF		15" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	59.68	9.62
33 31 11 00-0169	LF		18" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	75.86	9.97
33 31 11 00-0170	LF		21" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	98.77	10.82
33 31 11 00-0171	LF		24" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	119.95	11.67
33 31 11 00-0172	LF		27" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	149.24	13.70
33 31 11 00-0173			Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0018)		
			Note: ASTM 3034.		
33 31 11 00-0174	LF		4" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	15.28	6.41
33 31 11 00-0175	LF		6" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	19.84	7.45
33 31 11 00-0176	LF		8" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	25.94	8.66
33 31 11 00-0177			Gasketed SDR 35 Polyvinyl Chloride (PVC) Fittings (33 31 11 00-0018)		
			Note: ASTM 3034.		
33 31 11 00-0178			1/4 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0179	EA		4" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	81.83	23.56
33 31 11 00-0180	EA		6" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	123.93	27.40
33 31 11 00-0181	EA		8" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	268.51	31.04
33 31 11 00-0182	EA		10" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	788.96	36.53
33 31 11 00-0183	EA		12" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,019.74	46.57
33 31 11 00-0184			1/8 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0185	EA		4" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	73.08	23.56
33 31 11 00-0186	EA		6" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	114.28	27.40
33 31 11 00-0187	EA		8" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	244.12	31.04
33 31 11 00-0188	EA		10" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	559.38	36.53
33 31 11 00-0189	EA		12" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	801.45	46.57
33 31 11 00-0190	EA		15" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,730.40	65.74
33 31 11 00-0191	EA		18" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,749.45	93.14
33 31 11 00-0192	EA		21" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	4,599.01	123.27
33 31 11 00-0193	EA		24" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	6,272.16	164.35
33 31 11 00-0194			Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0195	EA		4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	123.96	35.34
33 31 11 00-0196	EA		6" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	206.13	39.17
33 31 11 00-0197	EA		6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	232.71	41.09
33 31 11 00-0198	EA		8" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	257.77	43.00
33 31 11 00-0199	EA		8" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	296.79	44.92

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0200	EA		8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	583.02	46.84
33 31 11 00-0201	EA		10" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	751.21	47.94
33 31 11 00-0202	EA		10" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	852.97	50.22
33 31 11 00-0203	EA		10" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,267.69	52.13
33 31 11 00-0204	EA		10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,657.17	54.78
33 31 11 00-0205	EA		12" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	924.57	58.35
33 31 11 00-0206	EA		12" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	982.14	60.27
33 31 11 00-0207	EA		12" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,410.29	62.19
33 31 11 00-0208	EA		12" x 10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	2,043.49	64.83
33 31 11 00-0209	EA		12" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	2,304.06	69.85
33 31 11 00-0210			Wyes, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0211	EA		4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	117.18	35.34
33 31 11 00-0212	EA		6" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	183.51	39.17
33 31 11 00-0213	EA		6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	202.34	41.09
33 31 11 00-0214	EA		8" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	248.07	43.00
33 31 11 00-0215	EA		8" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	285.23	44.92
33 31 11 00-0216	EA		8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	444.82	46.84
33 31 11 00-0217	EA		10" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	685.48	48.31
33 31 11 00-0218	EA		10" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	698.90	50.22
33 31 11 00-0219	EA		10" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,060.25	52.13
33 31 11 00-0220	EA		10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,174.28	54.78
33 31 11 00-0221	EA		12" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	869.81	58.35
33 31 11 00-0222	EA		12" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	897.09	60.27
33 31 11 00-0223	EA		12" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,293.71	62.19
33 31 11 00-0224	EA		12" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,562.66	64.83
33 31 11 00-0225	EA		12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,630.80	69.85
33 31 11 00-0226	EA		15" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	2,010.57	84.01
33 31 11 00-0227	EA		15" x 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	2,232.16	89.03
33 31 11 00-0228	EA		15" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	2,795.52	98.61
33 31 11 00-0229			Couplings, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0230	EA		4" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	81.05	23.56
33 31 11 00-0231	EA		6" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	129.08	27.40
33 31 11 00-0232	EA		8" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	193.73	31.22
33 31 11 00-0233	EA		10" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	375.35	36.53
33 31 11 00-0234	EA		12" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	534.53	46.57
33 31 11 00-0235	EA		15" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,054.91	65.74
33 31 11 00-0236	EA		18" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,995.46	93.14
33 31 11 00-0237	EA		21" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	3,341.65	123.27
33 31 11 00-0238	EA		24" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	4,842.69	164.35
33 31 11 00-0239			Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0240	EA		6" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	162.37	25.48
33 31 11 00-0241	EA		8" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	236.04	27.40
33 31 11 00-0242	EA		8" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	248.75	29.31
33 31 11 00-0243	EA		10" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	572.97	31.96
33 31 11 00-0244	EA		10" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	659.57	33.88
33 31 11 00-0245	EA		12" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	737.28	36.98
33 31 11 00-0246	EA		12" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	847.51	38.90
33 31 11 00-0247	EA		12" x 10" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	972.90	41.55
33 31 11 00-0248	EA		15" x 12" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,467.13	56.15
33 31 11 00-0249			Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0250	EA		6" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	132.02	
33 31 11 00-0251	EA		8" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	175.60	
33 31 11 00-0252	EA		8" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	179.79	
33 31 11 00-0253	EA		10" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	303.51	
33 31 11 00-0254	EA		10" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	321.05	
33 31 11 00-0255	EA		10" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	622.72	
33 31 11 00-0256	EA		12" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	344.65	
33 31 11 00-0257	EA		12" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	377.52	
33 31 11 00-0258	EA		12" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	864.58	
33 31 11 00-0259	EA		12" x 10" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	1,022.86	
33 31 11 00-0260	EA		15" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	390.97	
33 31 11 00-0261	EA		15" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	419.66	
33 31 11 00-0262			Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0263	EA		6" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	141.84	
33 31 11 00-0264	EA		8" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	175.60	
33 31 11 00-0265	EA		8" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	193.16	
33 31 11 00-0266	EA		10" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	277.50	
33 31 11 00-0267	EA		10" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	318.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0268 EA 10" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	491.79	
33 31 11 00-0269 EA 12" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	342.56	
33 31 11 00-0270 EA 12" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	375.54	
33 31 11 00-0271 EA 12" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	571.39	
33 31 11 00-0272 EA 12" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	699.22	
33 31 11 00-0273 EA 15" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	389.68	
33 31 11 00-0274 EA 15" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	409.94	
33 31 11 00-0275 EA 15" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	699.53	
33 31 11 00-0276 EA 15" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	776.67	
33 31 11 00-0277 EA 15" x 12" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	1,108.20	
33 31 11 00-0278	Couplings And Plug Fittings (33 31 11)	
33 31 11 00-0279	Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Couplings (33 31 11 00-0279)	
Note: For cast iron or plastic to cast iron to plastic pipe. Includes stainless steel clamps.		
33 31 11 00-0280 EA 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150)	18.81	6.76
33 31 11 00-0281 EA 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22)	20.59	7.89
33 31 11 00-0282 EA 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33)	23.78	9.02
33 31 11 00-0283 EA 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44)	26.91	9.59
33 31 11 00-0284 EA 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55)	32.81	10.15
33 31 11 00-0285 EA 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66)	38.75	11.28
33 31 11 00-0286 EA 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88)	49.07	12.41
33 31 11 00-0287 EA 10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010)	60.40	12.97
33 31 11 00-0288 EA 12" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1212)	99.06	13.54
33 31 11 00-0289 EA 15" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1515)	134.51	14.66
33 31 11 00-0290 EA 18" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1818)	258.28	15.22
33 31 11 00-0291 EA 21" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2121)	299.94	16.08
33 31 11 00-0292 EA 24" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2424)	332.21	16.92
33 31 11 00-0293 EA 27" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2727)	397.83	18.05
33 32	Sanitary Sewerage Equipment (33 30)	
33 32 16	Packaged Wastewater Grinder Pump Assemblies (33 32)	
33 32 16 00-0001	Submersible Grinder Pumps, Cast Iron With Bronze Impeller (33 32 16)	
33 32 16 00-0002 EA 2 HP Submersible Grinder Pump, 200/208, 230 Volt, 1 Phase, 3450 RPM, 1-1/2" Threaded Discharge.....	2,153.18	334.08
Note: Zoeller 840 series.		
33 32 16 00-0003 EA 2 HP Submersible Grinder Pump, 200/208, 230, 460 Volt, 3 Phase, 3450 RPM, 1-1/2" Threaded Discharge.....	2,122.48	334.08
Note: Zoeller 840 series.		
33 32 16 00-0004 EA Simplex Control Panel With Auto Reversing Switch	1,019.77	111.32
Note: For Zoeller 840 series grinder pump.		
33 32 16 00-0005 EA Duplex Control Panel With Auto Reversing Switch.....	1,590.26	111.32
Note: For Zoeller 840 series grinder pump.		
33 32 16 00-0006 EA Grinder Pump, 120 Gallon Sewage Basin, 1 HP, 120 V (Environment One 2012-74).....	12,460.00	
33 32 16 00-0007	Submersible Grinder Pumps (33 32 16)	
Note: Includes 50' of cord with pumps unless otherwise noted.		
33 32 16 00-0008 EA 2 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof	3,767.26	678.52
33 32 16 00-0009 EA 3 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof	5,645.24	791.61
33 32 16 00-0010 EA 5 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof	6,909.93	1,017.78
33 34	Onsite Wastewater Disposal (33 30)	
Note: Excludes distribution field piping, trenching or excavation.		
33 34 13	Septic Tanks (33 34)	
33 34 13 13	Concrete Septic Tanks (33 34 13)	
33 34 13 13-0001	Precast Concrete Septic Tank (33 34 13 13)	
Note: Includes external coating.		
33 34 13 13-0002 EA 1,000 Gallon Precast Septic Tank	3,847.41	678.52
For Non-Traffic Rated, Deduct		
	-753.53	
33 34 13 13-0003 EA 1,250 Gallon Precast Septic Tank	4,630.71	748.98
For Non-Traffic Rated, Deduct		
	-927.79	
33 34 13 13-0004 EA 1,500 Gallon Precast Septic Tank	5,383.53	819.32
For Non-Traffic Rated, Deduct		
	-1,094.40	
33 34 13 13-0005 EA 2,000 Gallon Precast Septic Tank	6,927.20	890.56
For Non-Traffic Rated, Deduct		
	-1,459.24	
33 34 13 13-0006 EA 2,500 Gallon Precast Septic Tank	8,236.68	1,229.82
For Non-Traffic Rated, Deduct		
	-1,682.99	
33 34 13 13-0007 EA 4,000 Gallon Precast Septic Tank	22,065.11	1,696.31
For Non-Traffic Rated, Deduct		
	-4,996.08	
33 34 13 13-0008 EA 5,000 Gallon Precast Septic Tank	40,179.77	2,544.47
For Non-Traffic Rated, Deduct		
	-9,266.86	
33 34 13 13-0009 EA 7,500 Gallon Precast Septic Tank	44,979.97	3,562.25
For Non-Traffic Rated, Deduct		
	-10,161.24	
33 34 13 13-0010 EA 10,000 Gallon Precast Septic Tank	55,163.94	4,262.04
For Non-Traffic Rated, Deduct		
	-12,490.48	

33 Utilities**33 30 Sanitary Sewerage Utilities****33 34 Onsite Wastewater Disposal**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 34 13 13-0011 EA 12,500 Gallon Precast Septic Tank..... <i>For Non-Traffic Rated, Deduct</i>	65,157.79 -14,663.82	5,279.82
33 34 13 23 Fiberglass Septic Tank (33 34 13)		
33 34 13 23-0001 Fiberglass Septic Tank (33 34 13 23)		
33 34 13 23-0002 EA 1,000 Gallon Fiberglass Septic Tank.....	4,044.96	508.89
33 34 13 23-0003 EA 1,250 Gallon Fiberglass Septic Tank.....	4,764.61	678.52
33 34 13 23-0004 EA 1,500 Gallon Fiberglass Septic Tank.....	5,481.59	614.97
33 34 13 23-0005 EA 2,000 Gallon Fiberglass Septic Tank.....	9,158.64	665.74
33 34 13 23-0006 EA 2,500 Gallon Fiberglass Septic Tank.....	11,500.00	922.79
33 34 13 23-0007 EA 4,000 Gallon Fiberglass Septic Tank.....	18,232.39	1,272.23
33 34 13 23-0008 EA 5,000 Gallon Fiberglass Septic Tank.....	27,060.92	1,908.34
33 34 13 23-0009 EA 7,500 Gallon Fiberglass Septic Tank.....	37,152.41	2,671.69
33 34 13 23-0010 EA 10,000 Gallon Fiberglass Septic Tank.....	45,590.11	3,193.24
33 34 13 33 Polyethylene Septic Tank (33 34 13)		
33 34 13 33-0001 High Density Polyethylene (HDPE) Septic Tank (33 34 13 33)		
33 34 13 33-0002 EA 300 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank.....	1,207.67	204.94
33 34 13 33-0003 EA 500 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank.....	1,870.77	230.57
33 34 13 33-0004 EA 900 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,606.30	281.80
33 34 13 33-0005 EA 1,000 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,674.00	307.42
33 34 13 33-0006 EA 1,250 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	3,101.78	333.04
33 34 13 33-0007 EA 1,500 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	3,727.22	358.65
33 34 13 33-0008 EA 750 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,628.01	256.18
33 34 13 33-0009 EA 1,000 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,862.27	307.42
33 34 13 33-0010 EA 1,250 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	3,370.06	333.04
33 34 13 33-0011 EA 1,500 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	3,962.56	358.65
33 34 51 Drainage Field System (33 34)		
33 34 51 00-0001 Leaching Pit - Precast Concrete (33 34 51)		
Note: Includes external coating.		
33 34 51 00-0002 EA 3' Diameter, 3' High, Precast Concrete Leaching Pit.....	935.74	99.52
33 34 51 00-0003 EA 4' Diameter, 3' High, Precast Concrete Leaching Pit.....	1,322.26	141.36
33 34 51 00-0004 EA 6' Diameter, 3' High, Precast Concrete Leaching Pit.....	1,761.23	169.63
33 34 51 00-0005 EA 8' Diameter, 4' High, Precast Concrete Leaching Pit.....	2,863.71	282.72
33 34 51 00-0006 EA 10' Diameter, 4' High, Precast Concrete Leaching Pit.....	4,188.37	395.80
33 34 53 Distribution Chambers (33 34)		
33 34 53 13 Drainage Field Concrete Distribution Chambers (33 34 53)		
33 34 53 13-0001 Concrete Distribution Boxes (33 34 53 13)		
Note: Includes internal and external coating.		
33 34 53 13-0002 EA 3 Outlet Concrete Distribution Box.....	335.70	72.54
33 34 53 13-0003 EA 5 Outlet Concrete Distribution Box.....	390.62	87.05
33 34 53 13-0004 EA 8 Outlet Concrete Distribution Box.....	685.56	101.56
33 34 53 13-0005 EA 12 Outlet Concrete Distribution Box.....	1,355.44	174.11
33 34 53 13-0006 Leaching Field Chambers - Precast Concrete (33 34 53 13)		
33 34 53 13-0007 EA Standard Leaching Field Chamber 13' x 3'-7" x 1'-4".....	1,104.34	85.51
33 34 53 13-0008 EA Heavy Duty Leaching Field Chamber 13' x 3'-9" x 1'-6".....	1,345.08	116.60
33 34 56 Drainage Field Dosing Chambers (33 34)		
33 34 56 00-0001 Dosing Siphon (33 34 56)		
33 34 56 00-0002 EA Dosing Siphon With Electrical Connection And Solenoid Valve.....	5,531.82	
33 34 56 00-0003 EA Solar Power Control For Dosing Siphon.....	3,798.44	
33 34 56 00-0004 EA Electrical Power Control For Dosing Siphon.....	3,649.76	
33 40 Stormwater Utilities (33)		
33 41 Subdrainage (33 40)		
33 41 16 Subdrainage Piping (33 41)		
33 41 16 13 Subdrainage Piping (33 41 16)		
See CSI section 33 42 11 00-0239 for polyethylene drain pipe.		
33 41 16 13-0001 Corrugated High Density Polyethylene (HDPE) Drainage Piping (33 41 16 13)		
33 41 16 13-0002 Single Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 41 16 13-0001)		
Note: Excludes couplings and gaskets.		



Utilities	33	CS
Stormwater Utilities	33 40	
Subdrainage	33 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0003 Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 41 16 13-0002)</small>		
33 41 16 13-0004 LF 4" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	5.40	4.45
For <100, Add	0.94	
For >1,000, Deduct	-0.49	
33 41 16 13-0005 LF 6" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	6.89	4.76
For <100, Add	1.06	
For >1,000, Deduct	-0.58	
33 41 16 13-0006 LF 8" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	8.76	5.00
For <100, Add	1.19	
For >1,000, Deduct	-0.69	
33 41 16 13-0007 LF 10" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	12.11	5.16
For <100, Add	1.38	
For >1,000, Deduct	-0.86	
33 41 16 13-0008 LF 12" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	14.30	5.63
For <100, Add	1.56	
For >1,000, Deduct	-1.00	
33 41 16 13-0009 LF 15" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	18.97	6.35
For <100, Add	1.90	
For >1,000, Deduct	-1.27	
33 41 16 13-0010 LF 18" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	30.61	10.85
For <100, Add	3.16	
For >1,000, Deduct	-2.07	
33 41 16 13-0011 LF 24" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	42.78	11.92
For <100, Add	3.93	
For >1,000, Deduct	-2.74	
33 41 16 13-0012 Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 41 16 13-0002)</small>		
33 41 16 13-0013 LF 4" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	5.27	4.45
For <100, Add	0.93	
For >1,000, Deduct	-0.49	
33 41 16 13-0014 LF 6" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	6.83	4.76
For <100, Add	1.06	
For >1,000, Deduct	-0.58	
33 41 16 13-0015 LF 8" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	11.35	5.00
For <100, Add	1.32	
For >1,000, Deduct	-0.82	
33 41 16 13-0016 LF 10" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	13.47	5.16
For <100, Add	1.45	
For >1,000, Deduct	-0.93	
33 41 16 13-0017 LF 12" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	15.79	5.63
For <100, Add	1.63	
For >1,000, Deduct	-1.07	
33 41 16 13-0018 LF 15" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	18.81	6.35
For <100, Add	1.89	
For >1,000, Deduct	-1.26	
33 41 16 13-0019 LF 18" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	29.63	10.85
For <100, Add	3.11	
For >1,000, Deduct	-2.02	
33 41 16 13-0020 LF 24" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	41.22	11.92
For <100, Add	3.85	
For >1,000, Deduct	-2.66	
33 41 16 13-0021 Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings <small>(33 41 16 13-0001)</small>		
Note: Excludes couplings and gaskets.		
33 41 16 13-0022 Tees, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 41 16 13-0021)</small>		
33 41 16 13-0023 EA 4" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	40.17	21.92
33 41 16 13-0024 EA 6" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	47.74	25.58
33 41 16 13-0025 EA 8" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	76.67	31.06
33 41 16 13-0026 EA 10" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	98.31	38.37
33 41 16 13-0027 EA 12" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	145.06	45.68
33 41 16 13-0028 EA 15" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	311.90	59.69
33 41 16 13-0029 EA 18" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	373.68	80.39
33 41 16 13-0030 EA 24" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	702.25	91.36
33 41 16 13-0031 Wyes, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 41 16 13-0021)</small>		
33 41 16 13-0032 EA 4" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	41.26	21.92
33 41 16 13-0033 EA 6" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	51.30	25.58
33 41 16 13-0034 EA 8" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	113.91	31.06
33 41 16 13-0035 45 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 41 16 13-0021)</small>		
33 41 16 13-0036 EA 4" 45 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	27.15	14.62



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 41 16 13-0037			90 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 41 16 13-0021)</small>		
33 41 16 13-0038	EA		4" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	28.29	14.62
33 41 16 13-0039	EA		6" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	36.43	17.05
33 41 16 13-0040	EA		8" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	53.76	20.71
33 41 16 13-0041	EA		10" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	70.72	25.58
33 41 16 13-0042			Perforated Polyvinyl Chloride (PVC) Drainage Piping, D2729 <small>(33 41 16 13)</small>		
			Note: Includes fittings, couplings, elbows, etc.		
33 41 16 13-0043	LF		3" Perforated Polyvinyl Chloride (PVC) Drainage Piping	5.94	3.79
			For <100, Add	0.87	
			For >1,000, Deduct	-0.49	
33 41 16 13-0044	LF		4" Perforated Polyvinyl Chloride (PVC) Drainage Piping	6.49	4.10
			For <100, Add	0.94	
			For >1,000, Deduct	-0.53	
33 41 16 13-0045	LF		6" Perforated Polyvinyl Chloride (PVC) Drainage Piping	9.03	4.91
			For <100, Add	1.19	
			For >1,000, Deduct	-0.70	
33 41 16 13-0046	LF		8" Perforated Polyvinyl Chloride (PVC) Drainage Piping	13.83	6.13
			For <100, Add	1.61	
			For >1,000, Deduct	-1.00	
33 41 16 13-0047	LF		10" Perforated Polyvinyl Chloride (PVC) Drainage Piping	21.78	6.39
			For <100, Add	2.05	
			For >1,000, Deduct	-1.41	
33 41 16 13-0048	LF		12" Perforated Polyvinyl Chloride (PVC) Drainage Piping	27.58	6.97
			For <100, Add	2.42	
			For >1,000, Deduct	-1.73	
33 41 16 13-0049	LF		15" Perforated Polyvinyl Chloride (PVC) Drainage Piping	48.31	7.86
			For <100, Add	3.59	
			For >1,000, Deduct	-2.81	
33 41 16 13-0050			Perforated Non Reinforced Concrete Drainage Piping, C444 <small>(33 41 16 13)</small>		
33 41 16 13-0051	LF		6" Perforated Non Reinforced Concrete Drainage Pipe	32.72	11.36
			For Extra Strength, Add	1.94	
			For >1,000, Deduct	-1.64	
33 41 16 13-0052	LF		8" Perforated Non Reinforced Concrete Drainage Pipe	38.37	12.62
			For Extra Strength, Add	2.39	
			For >1,000, Deduct	-1.92	
33 41 16 13-0053	LF		10" Perforated Non Reinforced Concrete Drainage Pipe	43.49	13.89
			For Extra Strength, Add	2.78	
			For >1,000, Deduct	-2.17	
33 41 16 13-0054	LF		12" Perforated Non Reinforced Concrete Drainage Pipe	51.29	15.15
			For Extra Strength, Add	3.49	
			For >1,000, Deduct	-2.56	
33 41 16 13-0055			Extra Strength Porous Non Reinforced Concrete Drainage Piping, C654 <small>(33 41 16 13)</small>		
			Note: Bell and spigot or tongue and groove. With seals and gaskets.		
33 41 16 13-0056	LF		6" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	26.72	11.36
			For >1,000, Deduct	-1.34	
33 41 16 13-0057	LF		8" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	29.55	12.62
			For >1,000, Deduct	-1.48	
33 41 16 13-0058	LF		10" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	32.61	13.89
			For >1,000, Deduct	-1.63	
33 41 16 13-0059	LF		12" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	37.36	14.42
			For >1,000, Deduct	-1.87	
33 41 16 13-0060	LF		15" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	43.57	16.23
			For >1,000, Deduct	-2.18	
33 41 16 13-0061	LF		18" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	53.88	20.74
			For >1,000, Deduct	-2.69	
33 41 16 13-0062	LF		21" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	67.25	26.59
			For >1,000, Deduct	-3.36	
33 41 16 13-0063	LF		24" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	82.01	32.45
			For >1,000, Deduct	-4.10	
33 41 16 13-0064			Standard Strength Porous Non Reinforced Concrete Drainage Piping, C654 <small>(33 41 16 13)</small>		
33 41 16 13-0065	LF		6" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	24.74	11.36
			For >1,000, Deduct	-1.24	
33 41 16 13-0066	LF		8" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	31.75	12.62
			For >1,000, Deduct	-1.59	
33 41 16 13-0067	LF		10" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	40.55	13.89
			For >1,000, Deduct	-2.03	
33 41 16 13-0068	LF		12" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	49.53	15.15
			For >1,000, Deduct	-2.48	
33 41 16 13-0069	LF		15" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	56.83	16.85
			For >1,000, Deduct	-2.84	
33 41 16 13-0070	LF		18" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	73.79	21.02
			For >1,000, Deduct	-3.69	



	Utilities	33	
	Stormwater Utilities	33 40	33
	Subdrainage	33 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0071 Perforated Vitrified Clay Drainage Piping, C700 <small>(33 41 16 13)</small>		
33 41 16 13-0072 LF 4" Perforated Vitrified Clay Drainage Pipe.....	23.57	12.62
33 41 16 13-0073 LF 6" Perforated Vitrified Clay Drainage Pipe.....	28.13	14.20
33 41 16 13-0074 LF 8" Perforated Vitrified Clay Drainage Pipe.....	32.06	14.20
33 41 16 13-0075 LF 10" Perforated Vitrified Clay Drainage Pipe.....	42.95	17.35
33 41 16 13-0076 LF 12" Perforated Vitrified Clay Drainage Pipe.....	51.03	18.93
33 41 16 13-0077 Geotextile Filter Fabric Sock <small>(33 41 16 13)</small>		
33 41 16 13-0078 LF 3" Geotextile Filter Fabric Sock.....	0.76	
33 41 16 13-0079 LF 4" Geotextile Filter Fabric Sock.....	0.99	
33 41 16 13-0080 LF 6" Geotextile Filter Fabric Sock.....	1.51	
33 41 16 13-0081 LF 8" Geotextile Filter Fabric Sock.....	2.03	
33 41 16 13-0082 LF 10" Geotextile Filter Fabric Sock.....	3.06	
33 41 16 13-0083 LF 12" Geotextile Filter Fabric Sock.....	4.24	
33 41 16 13-0084 LF 15" Geotextile Filter Fabric Sock.....	5.12	
33 41 16 13-0085 Strip-Perforated, Galvanized, Corrugated Steel Pipe <small>(33 41 16 13)</small>		
Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 13-0086 LF 6" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	22.76	5.41
For Full Perforated, Add	1.19	
33 41 16 13-0087 LF 8" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	28.85	6.56
For Full Perforated, Add	1.57	
33 41 16 13-0088 LF 10" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	36.38	8.32
For Full Perforated, Add	1.97	
33 41 16 13-0089 LF 12" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	40.31	9.84
For Full Perforated, Add	2.06	
33 41 16 13-0090 LF 15" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	46.30	10.18
For Full Perforated, Add	2.59	
33 41 16 13-0091 LF 18" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	52.42	10.55
For Full Perforated, Add	3.13	
33 41 16 13-0092 LF 21" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	60.06	11.38
For Full Perforated, Add	3.73	
33 41 16 13-0093 Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <small>(33 41 16 13)</small>		
Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 13-0094 LF 6" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	24.68	5.41
For Full Perforated, Add	1.39	
33 41 16 13-0095 LF 8" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	31.45	6.56
For Full Perforated, Add	1.83	
33 41 16 13-0096 LF 10" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	39.56	8.32
For Full Perforated, Add	2.29	
33 41 16 13-0097 LF 12" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	43.40	9.84
For Full Perforated, Add	2.37	
33 41 16 13-0098 LF 15" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	50.11	10.18
For Full Perforated, Add	2.98	
33 41 16 13-0099 LF 18" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	56.95	10.55
For Full Perforated, Add	3.59	
33 41 16 13-0100 LF 21" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	65.34	11.38
For Full Perforated, Add	4.26	
33 41 16 13-0101 Strip-Perforated, Corrugated Aluminum Pipe <small>(33 41 16 13)</small>		
Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 13-0102 LF 6" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	25.30	5.41
For Full Perforated, Add	1.45	
33 41 16 13-0103 LF 8" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	32.25	6.56
For Full Perforated, Add	1.91	
33 41 16 13-0104 LF 10" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	40.58	8.32
For Full Perforated, Add	2.39	
33 41 16 13-0105 LF 12" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	51.02	9.84
For Full Perforated, Add	3.14	
33 41 16 13-0106 LF 15" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	59.60	10.18
For Full Perforated, Add	3.92	
33 41 16 13-0107 LF 18" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	68.46	10.55
For Full Perforated, Add	4.74	
33 41 16 13-0108 LF 21" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	78.75	11.38
For Full Perforated, Add	5.60	
33 41 16 13-0109 Prefabricated Composite Drains <small>(33 41 16 13)</small>		
33 41 16 13-0110 Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE) <small>(33 41 16 13-0109)</small>		
Note: Excludes excavation and backfill. See CSI section 31 23 16 13-0000 for excavation and backfill.		
33 41 16 13-0111 LF 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	10.48	2.13
For External Typar Geotextile Wrap, Add	1.95	
33 41 16 13-0112 EA Coupler For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	47.36	

33	Utilities
33 40	Stormwater Utilities
33 41	Subdrainage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41	16 13-0113	EA	End Cap For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	47.36	
33 41	16 13-0114	EA	Side Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	92.59	
33 41	16 13-0115	EA	End Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	92.59	
33 41	16 13-0116	LF	18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	16.81	2.66
			<i>For External Typar Geotextile Wrap, Add</i>	2.93	
33 41	16 13-0117	EA	Coupler For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	70.58	
33 41	16 13-0118	EA	End Cap For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	70.58	
33 41	16 13-0119	EA	Side Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	121.94	
33 41	16 13-0120	EA	End Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	121.94	

33 41 19 Underslab Drainage (33 41)**33 41 19 13 Underslab Drainage Piping** (33 41 19)

33 41 19 13-0001	Capillary Water Barrier Underslab Drainage (33 41 19 13)				
	Note: Consists of a layer of fine granular material overlying a coarse layer.				
33 41 19 13-0002	CY	2" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	68.58		
33 41 19 13-0003	CY	4" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	66.17		
33 41 19 13-0004	CY	6" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	65.21		
33 41 19 13-0005	CY	8" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	63.77		

33 42 Stormwater Conveyance (33 42)

Note: Piping includes hydrostatic testing, disinfecting and warning tape. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 42 11 Stormwater Gravity Piping (33 42)**33 42 11 00-0001 Reinforced Concrete Piping** (33 42 11)**33 42 11 00-0002 Class 3 Reinforced Concrete Pipe Without Gaskets** (33 42 11 00-0001)

33 42 11 00-0003	LF	12" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	49.32	15.15
		<i>For Class 4, Add</i>	2.63	
		<i>For Class 5, Add</i>	5.54	
		<i>For >1,000, Deduct</i>	-2.47	
33 42 11 00-0004	LF	15" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	59.53	16.85
		<i>For Class 4, Add</i>	3.37	
		<i>For Class 5, Add</i>	7.09	
		<i>For >1,000, Deduct</i>	-2.98	
33 42 11 00-0005	LF	18" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	67.32	21.02
		<i>For Class 4, Add</i>	3.54	
		<i>For Class 5, Add</i>	7.46	
		<i>For >1,000, Deduct</i>	-3.37	
33 42 11 00-0006	LF	21" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	86.34	26.50
		<i>For Class 4, Add</i>	4.61	
		<i>For Class 5, Add</i>	9.70	
		<i>For >1,000, Deduct</i>	-4.32	
33 42 11 00-0007	LF	24" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	100.82	32.18
		<i>For Class 4, Add</i>	5.21	
		<i>For Class 5, Add</i>	10.97	
		<i>For >1,000, Deduct</i>	-5.04	
33 42 11 00-0008	LF	27" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	128.37	41.40
		<i>For Class 4, Add</i>	6.58	
		<i>For Class 5, Add</i>	13.85	
		<i>For >1,000, Deduct</i>	-6.42	
33 42 11 00-0009	LF	30" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	136.67	42.75
		<i>For Class 4, Add</i>	7.11	
		<i>For Class 5, Add</i>	14.98	
		<i>For >1,000, Deduct</i>	-6.83	
33 42 11 00-0010	LF	36" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	170.26	48.58
		<i>For Class 4, Add</i>	9.65	
		<i>For Class 5, Add</i>	20.31	
		<i>For >1,000, Deduct</i>	-8.51	
33 42 11 00-0011	LF	42" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	222.54	53.44
		<i>For Class 4, Add</i>	13.96	
		<i>For Class 5, Add</i>	29.39	
		<i>For >1,000, Deduct</i>	-11.13	
33 42 11 00-0012	LF	48" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	267.29	59.51
		<i>For Class 4, Add</i>	17.32	
		<i>For Class 5, Add</i>	36.45	
		<i>For >1,000, Deduct</i>	-13.36	
33 42 11 00-0013	LF	54" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	333.82	68.01
		<i>For Class 4, Add</i>	22.48	
		<i>For Class 5, Add</i>	47.33	
		<i>For >1,000, Deduct</i>	-16.69	
33 42 11 00-0014	LF	60" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	403.77	78.90
		<i>For Class 4, Add</i>	27.65	
		<i>For Class 5, Add</i>	58.21	
		<i>For >1,000, Deduct</i>	-20.19	
33 42 11 00-0015	LF	66" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	629.31	87.45
		<i>For Class 4, Add</i>	47.97	
		<i>For Class 5, Add</i>	100.99	
		<i>For >1,000, Deduct</i>	-31.47	



	Utilities	33
	Stormwater Utilities	33 40
	Stormwater Conveyance	33 42

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0016	LF		72" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	735.48	95.22
			<i>For Class 4, Add</i>	56.95	
			<i>For Class 5, Add</i>	119.89	
			<i>For >1,000, Deduct</i>	-36.77	
33 42 11 00-0017	LF		78" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	885.92	106.88
			<i>For Class 4, Add</i>	69.62	
			<i>For Class 5, Add</i>	146.58	
			<i>For >1,000, Deduct</i>	-44.30	
33 42 11 00-0018	LF		84" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	1,145.01	119.03
			<i>For Class 4, Add</i>	92.62	
			<i>For Class 5, Add</i>	194.99	
			<i>For >1,000, Deduct</i>	-57.25	
33 42 11 00-0019	LF		14" x 23" Elliptical Reinforced Concrete Pipe Without Gaskets (18" Diameter Equivalent Round Size).....	120.64	27.94
			<i>For Class 4, Add</i>	7.67	
			<i>For Class 5, Add</i>	16.14	
			<i>For Horizontal Elliptical - II (HE- II), Add</i>	8.07	
			<i>For Horizontal Elliptical - III (HE- III), Add</i>	17.76	
			<i>For Horizontal Elliptical - IV (HE- IV), Add</i>	38.74	
			<i>For >1,000, Deduct</i>	-6.03	
33 42 11 00-0020	LF		19" x 30" Elliptical Reinforced Concrete Pipe Without Gaskets (24" Diameter Equivalent Round Size).....	166.73	42.80
			<i>For Class 4, Add</i>	10.03	
			<i>For Class 5, Add</i>	21.12	
			<i>For Horizontal Elliptical - II (HE- II), Add</i>	10.56	
			<i>For Horizontal Elliptical - III (HE- III), Add</i>	23.23	
			<i>For Horizontal Elliptical - IV (HE- IV), Add</i>	50.68	
			<i>For >1,000, Deduct</i>	-8.34	
33 42 11 00-0021	LF		22" x 34" Elliptical Reinforced Concrete Pipe Without Gaskets (27" Diameter Equivalent Round Size).....	196.70	55.06
			<i>For Class 4, Add</i>	11.21	
			<i>For Class 5, Add</i>	23.61	
			<i>For Horizontal Elliptical - II (HE- II), Add</i>	11.80	
			<i>For Horizontal Elliptical - III (HE- III), Add</i>	25.97	
			<i>For Horizontal Elliptical - IV (HE- IV), Add</i>	56.66	
			<i>For >1,000, Deduct</i>	-9.84	
33 42 11 00-0022	LF		24" x 38" Elliptical Reinforced Concrete Pipe Without Gaskets (30" Diameter Equivalent Round Size).....	208.98	57.53
			<i>For Class 4, Add</i>	12.05	
			<i>For Class 5, Add</i>	25.36	
			<i>For Horizontal Elliptical - II (HE- II), Add</i>	12.68	
			<i>For Horizontal Elliptical - III (HE- III), Add</i>	27.89	
			<i>For Horizontal Elliptical - IV (HE- IV), Add</i>	60.86	
			<i>For >1,000, Deduct</i>	-10.45	
33 42 11 00-0023	LF		27" x 42" Elliptical Reinforced Concrete Pipe Without Gaskets (33" Diameter Equivalent Round Size).....	240.96	60.75
			<i>For Class 4, Add</i>	14.65	
			<i>For Class 5, Add</i>	30.84	
			<i>For Horizontal Elliptical - II (HE- II), Add</i>	15.42	
			<i>For Horizontal Elliptical - III (HE- III), Add</i>	33.92	
			<i>For Horizontal Elliptical - IV (HE- IV), Add</i>	74.01	
			<i>For >1,000, Deduct</i>	-12.05	
33 42 11 00-0024	LF		29" x 45" Elliptical Reinforced Concrete Pipe Without Gaskets (36" Diameter Equivalent Round Size).....	272.93	63.95
			<i>For Class 4, Add</i>	17.25	
			<i>For Class 5, Add</i>	36.31	
			<i>For Horizontal Elliptical - II (HE- II), Add</i>	18.16	
			<i>For Horizontal Elliptical - III (HE- III), Add</i>	39.95	
			<i>For Horizontal Elliptical - IV (HE- IV), Add</i>	87.15	
			<i>For >1,000, Deduct</i>	-13.65	
33 42 11 00-0025	LF		34" x 53" Elliptical Reinforced Concrete Pipe Without Gaskets (42" Diameter Equivalent Round Size).....	334.12	70.38
			<i>For Class 4, Add</i>	22.19	
			<i>For Class 5, Add</i>	46.72	
			<i>For Horizontal Elliptical - II (HE- II), Add</i>	23.36	
			<i>For Horizontal Elliptical - III (HE- III), Add</i>	51.39	
			<i>For Horizontal Elliptical - IV (HE- IV), Add</i>	112.12	
			<i>For >1,000, Deduct</i>	-16.71	
33 42 11 00-0026	LF		38" x 60" Elliptical Reinforced Concrete Pipe Without Gaskets (48" Diameter Equivalent Round Size).....	403.68	79.15
			<i>For Class 4, Add</i>	27.61	
			<i>For Class 5, Add</i>	58.12	
			<i>For Horizontal Elliptical - II (HE- II), Add</i>	29.06	
			<i>For Horizontal Elliptical - III (HE- III), Add</i>	63.93	
			<i>For Horizontal Elliptical - IV (HE- IV), Add</i>	139.49	
			<i>For >1,000, Deduct</i>	-20.18	
33 42 11 00-0027	LF		43" x 68" Elliptical Reinforced Concrete Pipe Without Gaskets (54" Diameter Equivalent Round Size).....	459.46	90.46
			<i>For Class 4, Add</i>	31.37	
			<i>For Class 5, Add</i>	66.05	
			<i>For Horizontal Elliptical - II (HE- II), Add</i>	33.02	
			<i>For Horizontal Elliptical - III (HE- III), Add</i>	72.65	
			<i>For Horizontal Elliptical - IV (HE- IV), Add</i>	158.51	
			<i>For >1,000, Deduct</i>	-22.97	
33 42 11 00-0028	LF		48" x 76" Elliptical Reinforced Concrete Pipe Without Gaskets (60" Diameter Equivalent Round Size).....	570.40	104.94
			<i>For Class 4, Add</i>	39.95	
			<i>For Class 5, Add</i>	84.10	
			<i>For Horizontal Elliptical - II (HE- II), Add</i>	42.05	
			<i>For Horizontal Elliptical - III (HE- III), Add</i>	92.51	
			<i>For Horizontal Elliptical - IV (HE- IV), Add</i>	201.84	
			<i>For >1,000, Deduct</i>	-28.52	
33 42 11 00-0029	LF		53" x 83" Elliptical Reinforced Concrete Pipe without Gaskets (66" Diameter Equivalent Round Size).....	651.85	115.62
			<i>For Class 4, Add</i>	46.23	
			<i>For Class 5, Add</i>	97.33	
			<i>For >1,000, Deduct</i>	-32.59	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0030 LF 58" x 91" Elliptical Reinforced Concrete Pipe without Gaskets (72" Diameter Equivalent Round Size).....	793.18	126.31
For Class 4, Add	58.16	
For Class 5, Add	122.45	
For >1,000, Deduct	-39.66	
33 42 11 00-0031 LF 63" x 98" Elliptical Reinforced Concrete Pipe without Gaskets (78" Diameter Equivalent Round Size).....	949.23	142.83
For Class 4, Add	70.84	
For Class 5, Add	149.14	
For >1,000, Deduct	-47.46	
33 42 11 00-0032 LF 68" x 106" Elliptical Reinforced Concrete Pipe without Gaskets (84" Diameter Equivalent Round Size).....	1,026.80	158.38
For Class 4, Add	76.06	
For Class 5, Add	160.13	
For >1,000, Deduct	-51.34	
33 42 11 00-0033 LF 72" x 113" Elliptical Reinforced Concrete Pipe without Gaskets (90" Diameter Equivalent Round Size).....	1,322.26	166.15
For Class 4, Add	103.06	
For Class 5, Add	216.96	
For >1,000, Deduct	-66.11	
33 42 11 00-0034 LF 77" x 121" Elliptical Reinforced Concrete Pipe without Gaskets (96" Diameter Equivalent Round Size).....	1,536.09	173.92
For Class 4, Add	122.30	
For Class 5, Add	257.46	
For >1,000, Deduct	-76.80	
33 42 11 00-0035 Concrete Reducing Wye Without Gaskets (33 42 11 00-0001)		
33 42 11 00-0036 EA 12" Concrete Reducing Wye Without Gaskets.....	629.15	57.69
33 42 11 00-0037 EA 15" Concrete Reducing Wye Without Gaskets.....	754.21	70.31
33 42 11 00-0038 EA 18" Concrete Reducing Wye Without Gaskets.....	934.13	77.53
33 42 11 00-0039 EA 21" Concrete Reducing Wye Without Gaskets.....	1,070.47	95.56
33 42 11 00-0040 EA 24" Concrete Reducing Wye Without Gaskets.....	1,208.19	115.39
33 42 11 00-0041 Concrete Pipe Joint Gaskets (33 42 11 00-0001)		
33 42 11 00-0042 EA 12" Diameter Concrete Pipe Joint Gasket.....	6.14	
33 42 11 00-0043 EA 15" Diameter Concrete Pipe Joint Gasket.....	7.26	
33 42 11 00-0044 EA 18" Diameter Concrete Pipe Joint Gasket.....	8.42	
33 42 11 00-0045 EA 21" Diameter Concrete Pipe Joint Gasket.....	10.17	
33 42 11 00-0046 EA 24" Diameter Concrete Pipe Joint Gasket.....	11.92	
33 42 11 00-0047 EA 27" Diameter Concrete Pipe Joint Gasket.....	13.28	
33 42 11 00-0048 EA 30" Diameter Concrete Pipe Joint Gasket.....	14.59	
33 42 11 00-0049 EA 36" Diameter Concrete Pipe Joint Gasket.....	17.83	
33 42 11 00-0050 EA 42" Diameter Concrete Pipe Joint Gasket.....	20.67	
33 42 11 00-0051 EA 48" Diameter Concrete Pipe Joint Gasket.....	23.84	
33 42 11 00-0052 EA 54" Diameter Concrete Pipe Joint Gasket.....	29.22	
33 42 11 00-0053 EA 60" Diameter Concrete Pipe Joint Gasket.....	43.25	
33 42 11 00-0054 EA 66" Diameter Concrete Pipe Joint Gasket.....	44.96	
33 42 11 00-0055 EA 72" Diameter Concrete Pipe Joint Gasket.....	46.62	
33 42 11 00-0056 EA 78" Diameter Concrete Pipe Joint Gasket.....	53.69	
33 42 11 00-0057 EA 84" Diameter Concrete Pipe Joint Gasket.....	64.37	
33 42 11 00-0058 Couplings (33 42 11 00-0001)		
33 42 11 00-0059 Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Couplings (33 42 11 00-0058)		
Note: For concrete to cast iron or plastic pipe. Includes stainless steel clamps. Fernco 1006.		
33 42 11 00-0060 EA 4" x 3" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	47.63	
33 42 11 00-0061 EA 4" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	43.28	
33 42 11 00-0062 EA 6" x 4" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	78.56	
33 42 11 00-0063 EA 6" x 5" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	82.04	
33 42 11 00-0064 EA 6" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	75.36	
33 42 11 00-0065 EA 8" x 6" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	121.06	
33 42 11 00-0066 EA 8" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	102.90	
33 42 11 00-0067 EA 10" x 8" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	154.68	
33 42 11 00-0068 EA 10" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	135.51	
33 42 11 00-0069 EA 12" x 10" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	188.80	
33 42 11 00-0070 EA 12" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	155.59	
33 42 11 00-0071 EA 15" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	513.60	
33 42 11 00-0072 Precast Concrete Cut Off Wall (33 42 11 00-0001)		
33 42 11 00-0073 EA 12" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	255.88	171.01
33 42 11 00-0074 EA 15" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	315.53	211.82
33 42 11 00-0075 EA 18" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	390.74	268.18
33 42 11 00-0076 EA 21" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	462.04	320.64
33 42 11 00-0077 EA 24" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	531.31	371.07
33 42 11 00-0078 EA 27" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	653.24	474.16
33 42 11 00-0079 EA 30" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	851.03	652.94
33 42 11 00-0080 EA 36" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,059.90	823.95
33 42 11 00-0081 EA 42" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,307.09	1,033.63
33 42 11 00-0082 EA 48" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,462.04	1,164.99
33 42 11 00-0083 EA 54" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,631.79	1,305.88
33 42 11 00-0084 EA 60" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,803.73	1,450.66
33 42 11 00-0085 EA 66" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,874.39	1,506.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0086 EA 72" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,936.55	1,554.62
33 42 11 00-0087 EA 78" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,998.72	1,603.21
33 42 11 00-0088 EA 84" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	2,062.57	1,651.79
33 42 11 00-0089 Strap Assembly <small>(33 42 11 00-0001)</small>		
Note: Includes drilling holes in concrete pipe, setting threaded rod, bolts, and mounting the 12' strap.		
33 42 11 00-0090 EA Up To 24" Diameter Pipe, 12' Strap Assembly	226.64	
33 42 11 00-0091 EA >24" Diameter Pipe, 12' Strap Assembly	320.00	
33 42 11 00-0092 Prestressed Concrete Cylinder Piping <small>(33 42 11)</small>		
33 42 11 00-0093 150 PSI Prestressed Concrete Cylinder Pipe And Fittings <small>(33 42 11 00-0092)</small>		
33 42 11 00-0094 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets <small>(33 42 11 00-0093)</small>		
Note: Lined-cylinder pipe (AWWA C301) up to 48". Embedded-cylinder pipe (AWWA C301) >48".		
33 42 11 00-0095 LF 12" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	140.94	15.15
For 100 PSI, Deduct	-29.83	
For >1,000, Deduct	-7.05	
33 42 11 00-0096 LF 15" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	150.29	16.85
For 100 PSI, Deduct	-31.56	
For >1,000, Deduct	-7.51	
33 42 11 00-0097 LF 18" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	163.15	21.02
For 100 PSI, Deduct	-33.28	
For >1,000, Deduct	-8.16	
33 42 11 00-0098 LF 21" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	177.90	26.50
For 100 PSI, Deduct	-35.01	
For >1,000, Deduct	-8.90	
33 42 11 00-0099 LF 24" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	192.91	32.18
For 100 PSI, Deduct	-36.74	
For >1,000, Deduct	-9.65	
33 42 11 00-0100 LF 30" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	226.32	42.75
For 100 PSI, Deduct	-41.13	
For >1,000, Deduct	-11.32	
33 42 11 00-0101 LF 36" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	250.81	48.58
For 100 PSI, Deduct	-45.53	
For >1,000, Deduct	-12.54	
33 42 11 00-0102 LF 42" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	291.62	53.44
For 100 PSI, Deduct	-54.01	
For >1,000, Deduct	-14.58	
33 42 11 00-0103 LF 48" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	334.95	59.51
For 100 PSI, Deduct	-62.48	
For >1,000, Deduct	-16.75	
33 42 11 00-0104 LF 54" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	446.58	78.75
For 100 PSI, Deduct	-83.52	
For >1,000, Deduct	-22.33	
33 42 11 00-0105 LF 60" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	538.68	91.35
For 100 PSI, Deduct	-102.04	
For >1,000, Deduct	-26.93	
33 42 11 00-0106 LF 66" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	605.56	101.25
For 100 PSI, Deduct	-115.39	
For >1,000, Deduct	-30.28	
33 42 11 00-0107 LF 72" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	675.58	110.26
For 100 PSI, Deduct	-129.52	
For >1,000, Deduct	-33.78	
33 42 11 00-0108 LF 78" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	767.48	123.76
For 100 PSI, Deduct	-147.57	
For >1,000, Deduct	-38.37	
33 42 11 00-0109 LF 84" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	859.37	137.82
For 100 PSI, Deduct	-165.63	
For >1,000, Deduct	-42.97	
33 42 11 00-0110 LF 90" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,062.68	160.88
For 100 PSI, Deduct	-208.01	
For >1,000, Deduct	-53.13	
33 42 11 00-0111 LF 96" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,251.51	183.71
For 100 PSI, Deduct	-247.26	
For >1,000, Deduct	-62.58	
33 42 11 00-0112 LF 102" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,459.30	197.32
For 100 PSI, Deduct	-294.36	
For >1,000, Deduct	-72.97	
33 42 11 00-0113 LF 108" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,649.45	209.54
For 100 PSI, Deduct	-337.53	
For >1,000, Deduct	-82.47	
33 42 11 00-0114 LF 114" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,996.59	221.76
For 100 PSI, Deduct	-419.95	
For >1,000, Deduct	-99.83	
33 42 11 00-0115 LF 120" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	2,326.55	232.94
For 100 PSI, Deduct	-498.44	
For >1,000, Deduct	-116.33	
33 42 11 00-0116 LF 126" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	2,537.20	244.13
For 100 PSI, Deduct	-547.11	
For >1,000, Deduct	-126.86	

33 Utilities

33 40 Stormwater Utilities

33 42 Stormwater Conveyance



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0117 LF 132" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... <i>For 100 PSI, Deduct</i> <i>For >1,000, Deduct</i>	2,750.99 -596.56 -137.55	255.32
33 42 11 00-0118 LF 138" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... <i>For 100 PSI, Deduct</i> <i>For >1,000, Deduct</i>	2,963.21 -645.62 -148.16	266.50
33 42 11 00-0119 LF 144" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... <i>For 100 PSI, Deduct</i> <i>For >1,000, Deduct</i>	3,175.43 -694.68 -158.77	277.69

33 42 11 00-0120 150 PSI Prestressed Concrete Cylinder 90 Degree Elbows With Gaskets (33

42 11 00-0093)		
33 42 11 00-0121 EA 12" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	444.09	141.98
33 42 11 00-0122 EA 15" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	612.89	202.82
33 42 11 00-0123 EA 18" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	785.78	270.44
33 42 11 00-0124 EA 21" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	958.68	338.04
33 42 11 00-0125 EA 24" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,161.30	420.08
33 42 11 00-0126 EA 30" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,490.67	563.41
33 42 11 00-0127 EA 36" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,862.39	680.15
33 42 11 00-0128 EA 42" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,168.52	793.83
33 42 11 00-0129 EA 48" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,438.54	906.54
33 42 11 00-0130 EA 54" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,996.28	1,131.96
33 42 11 00-0131 EA 60" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,989.86	1,575.03
33 42 11 00-0132 EA 66" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,444.86	1,743.78
33 42 11 00-0133 EA 72" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,899.84	1,912.54
33 42 11 00-0134 EA 78" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,938.55	2,193.79
33 42 11 00-0135 EA 84" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,971.04	2,475.05
33 42 11 00-0136 EA 90" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	8,269.07	2,812.55
33 42 11 00-0137 EA 96" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	9,560.88	3,150.06
33 42 11 00-0138 EA 102" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	12,737.43	3,967.05
33 42 11 00-0139 EA 108" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	15,905.02	4,760.47
33 42 11 00-0140 EA 114" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	20,640.73	6,347.29
33 42 11 00-0141 EA 120" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	25,301.32	7,934.12
33 42 11 00-0142 EA 126" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	28,625.57	8,557.51
33 42 11 00-0143 EA 132" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	31,954.02	9,180.90
33 42 11 00-0144 EA 138" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	42,097.11	9,804.30
33 42 11 00-0145 EA 144" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	38,680.25	10,427.70

33 42 11 00-0146 150 PSI Prestressed Concrete Cylinder 45 Degree Elbows With Gaskets (33

42 11 00-0093)		
33 42 11 00-0147 EA 12" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	412.06	141.98
33 42 11 00-0148 EA 15" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	571.44	202.82
33 42 11 00-0149 EA 18" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	736.80	270.44
33 42 11 00-0150 EA 21" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	902.17	338.04
33 42 11 00-0151 EA 24" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,097.25	420.08
33 42 11 00-0152 EA 30" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,402.76	525.55
33 42 11 00-0153 EA 36" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,761.91	680.15
33 42 11 00-0154 EA 42" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,052.35	793.83
33 42 11 00-0155 EA 48" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,313.58	906.54
33 42 11 00-0156 EA 54" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,820.66	1,131.96
33 42 11 00-0157 EA 60" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,820.72	1,575.03
33 42 11 00-0158 EA 66" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,263.46	1,743.78
33 42 11 00-0159 EA 72" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,706.19	1,912.54
33 42 11 00-0160 EA 78" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,486.52	2,193.79
33 42 11 00-0161 EA 84" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,260.63	2,475.05
33 42 11 00-0162 EA 90" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	7,372.53	2,812.55
33 42 11 00-0163 EA 96" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	8,478.22	3,150.06
33 42 11 00-0164 EA 102" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	11,083.63	3,937.57
33 42 11 00-0165 EA 108" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	13,798.02	4,760.47
33 42 11 00-0166 EA 114" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	18,021.09	6,347.29
33 42 11 00-0167 EA 120" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	22,169.05	7,934.12
33 42 11 00-0168 EA 126" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	24,803.64	8,557.51
33 42 11 00-0169 EA 132" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	27,442.44	10,427.70
33 42 11 00-0170 EA 138" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	30,092.12	9,804.30
33 42 11 00-0171 EA 144" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	33,048.26	10,427.70

33 42 11 00-0172 400 PSI Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0092)

33 42 11 00-0173 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11

00-0172) Note: AWWA C301		
33 42 11 00-0174 LF 30" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	267.61 -13.38	42.75
33 42 11 00-0175 LF 36" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	327.07 -16.35	48.58
33 42 11 00-0176 LF 42" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	382.15 -19.11	53.44



Utilities	33	33
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0177 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints <small>(33 42 11 00-0172)</small> Note: AWWA C301		
33 42 11 00-0178 LF 48" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	516.80 -25.84	59.47
33 42 11 00-0179 LF 54" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	621.13 -31.06	78.75
33 42 11 00-0180 LF 60" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	715.97 -35.80	91.35
33 42 11 00-0181 LF 66" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	806.31 -40.32	101.25
33 42 11 00-0182 LF 72" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints..... <i>For >1,000, Deduct</i>	978.14 -48.91	110.26
33 42 11 00-0183 Welded Joints For Prestressed Concrete Cylinder Pipe <small>(33 42 11 00-0172)</small> Note: All pipe joints to be exposed and dewatered. Internal joint welding also requires joints to be ventilated and air quality checked.		
33 42 11 00-0184 EA 30" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,130.83	
33 42 11 00-0185 EA 36" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,288.67	
33 42 11 00-0186 EA 42" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,367.59	
33 42 11 00-0187 EA 48" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,683.27	
33 42 11 00-0188 EA 54" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,762.19	
33 42 11 00-0189 EA 60" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,920.03	
33 42 11 00-0190 EA 66" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,998.95	
33 42 11 00-0191 EA 72" Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,077.87	
33 42 11 00-0192 EA 30" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,945.98	
33 42 11 00-0193 EA 36" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,945.98	
33 42 11 00-0194 EA 42" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	4,498.42	
33 42 11 00-0195 EA 48" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	4,498.42	
33 42 11 00-0196 EA 54" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	4,814.10	
33 42 11 00-0197 EA 60" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	4,814.10	
33 42 11 00-0198 EA 66" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,208.70	
33 42 11 00-0199 EA 72" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,208.70	
33 42 11 00-0200 Quick Test Joints <small>(33 42 11 00-0172)</small>		
33 42 11 00-0201 EA 30" Quick Test Joint.....	569.52	
33 42 11 00-0202 EA 36" Quick Test Joint.....	574.38	
33 42 11 00-0203 EA 42" Quick Test Joint.....	579.24	
33 42 11 00-0204 EA 48" Quick Test Joint.....	590.86	
33 42 11 00-0205 EA 54" Quick Test Joint.....	620.09	
33 42 11 00-0206 EA 60" Quick Test Joint.....	642.62	
33 42 11 00-0207 EA 66" Quick Test Joint.....	676.43	
33 42 11 00-0208 EA 72" Quick Test Joint.....	710.24	
33 42 11 00-0209 Harnessed Joints <small>(33 42 11 00-0172)</small>		
33 42 11 00-0210 Harness Clamp Restrained Joints <small>(33 42 11 00-0209)</small>		
33 42 11 00-0211 EA 30" Harness Clamp Restrained Joint.....	3,283.76	
33 42 11 00-0212 EA 36" Harness Clamp Restrained Joint.....	3,411.93	
33 42 11 00-0213 EA 42" Harness Clamp Restrained Joint.....	3,540.10	
33 42 11 00-0214 EA 48" Harness Clamp Restrained Joint.....	3,668.27	
33 42 11 00-0215 EA 54" Harness Clamp Restrained Joint.....	3,811.78	
33 42 11 00-0216 EA 60" Harness Clamp Restrained Joint.....	4,007.99	
33 42 11 00-0217 EA 66" Harness Clamp Restrained Joint.....	4,142.55	
33 42 11 00-0218 EA 72" Harness Clamp Restrained Joint.....	4,437.41	
33 42 11 00-0219 Snap Ring Restrained Joints <small>(33 42 11 00-0209)</small>		
33 42 11 00-0220 EA 30" Snap Ring Restrained Joint.....	570.97	
33 42 11 00-0221 EA 36" Snap Ring Restrained Joint.....	649.81	
33 42 11 00-0222 EA 42" Snap Ring Restrained Joint.....	864.30	
33 42 11 00-0223 EA 48" Snap Ring Restrained Joint.....	980.13	
33 42 11 00-0224 EA 54" Snap Ring Restrained Joint.....	1,111.31	
33 42 11 00-0225 EA 60" Snap Ring Restrained Joint.....	1,258.20	
33 42 11 00-0226 EA 66" Snap Ring Restrained Joint.....	1,392.76	
33 42 11 00-0227 EA 72" Snap Ring Restrained Joint.....	1,551.98	
33 42 11 00-0228 Pipe Repairs <small>(33 42 11 00-0172)</small> Note: For repair of damaged or defective lined or embedded cylinder concrete pipe. Includes 2 concrete adapters, MJDI sleeve, 20' pipe.		
33 42 11 00-0229 Lined Cylinder Pipe Repair <small>(33 42 11 00-0228)</small>		
33 42 11 00-0230 EA 30" Lined Cylinder Pipe Repair.....	5,883.88	
33 42 11 00-0231 EA 36" Lined Cylinder Pipe Repair.....	7,291.39	
33 42 11 00-0232 EA 42" Lined Cylinder Pipe Repair.....	10,156.16	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

33 42 11 00-0233	Embedded Cylinder Pipe Repair <small>(33 42 11 00-0228)</small>		
	Note: Field welded concrete enclosure assembly with concrete pipe.		
33 42 11 00-0234	EA 48" Embedded Cylinder Pipe Repair	15,334.99	
33 42 11 00-0235	EA 54" Embedded Cylinder Pipe Repair	17,837.99	
33 42 11 00-0236	EA 60" Embedded Cylinder Pipe Repair	20,357.13	
33 42 11 00-0237	EA 66" Embedded Cylinder Pipe Repair	23,003.05	
33 42 11 00-0238	EA 72" Embedded Cylinder Pipe Repair	27,762.90	
33 42 11 00-0239	High Density Polyethylene (HDPE) Piping <small>(33 42 11)</small>		
33 42 11 00-0240	Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0239)</small>		
	Note: Excludes couplings and gaskets.		
33 42 11 00-0241	Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0240)</small>		
33 42 11 00-0242	LF 4" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	14.37	6.41
	For <100, Add	2.56	
	For >1,000, Deduct	-1.36	
33 42 11 00-0243	LF 6" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	18.86	7.45
	For <100, Add	2.98	
	For >1,000, Deduct	-1.69	
33 42 11 00-0244	LF 8" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	23.25	8.66
	For <100, Add	3.47	
	For >1,000, Deduct	-2.03	
33 42 11 00-0245	LF 10" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	26.47	8.97
	For <100, Add	3.59	
	For >1,000, Deduct	-2.22	
33 42 11 00-0246	LF 12" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	27.84	9.29
	For <100, Add	3.71	
	For >1,000, Deduct	-2.32	
33 42 11 00-0247	LF 15" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	31.66	9.62
	For <100, Add	3.85	
	For >1,000, Deduct	-2.54	
33 42 11 00-0248	LF 18" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	38.47	9.97
	For <100, Add	3.99	
	For >1,000, Deduct	-2.92	
33 42 11 00-0249	LF 24" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	52.88	11.67
	For <100, Add	4.67	
	For >1,000, Deduct	-3.81	
33 42 11 00-0250	LF 30" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	75.05	15.72
	For <100, Add	6.29	
	For >1,000, Deduct	-5.32	
33 42 11 00-0251	LF 36" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	98.70	19.87
	For <100, Add	7.95	
	For >1,000, Deduct	-6.92	
33 42 11 00-0252	Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0240)</small>		
33 42 11 00-0253	LF 12" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	27.68	9.29
	For <100, Add	3.71	
	For >1,000, Deduct	-2.31	
33 42 11 00-0254	LF 15" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	32.32	9.62
	For <100, Add	3.85	
	For >1,000, Deduct	-2.58	
33 42 11 00-0255	LF 18" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	39.45	9.97
	For <100, Add	3.99	
	For >1,000, Deduct	-2.97	
33 42 11 00-0256	LF 24" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	54.44	11.67
	For <100, Add	4.67	
	For >1,000, Deduct	-3.89	
33 42 11 00-0257	LF 30" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	79.30	15.72
	For <100, Add	6.29	
	For >1,000, Deduct	-5.54	
33 42 11 00-0258	LF 36" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	101.86	19.87
	For <100, Add	7.95	
	For >1,000, Deduct	-7.08	
33 42 11 00-0259	LF 42" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	133.03	21.67
	For <100, Add	8.67	
	For >1,000, Deduct	-8.82	
33 42 11 00-0260	LF 48" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	145.02	24.45
	For <100, Add	9.78	
	For >1,000, Deduct	-9.70	
33 42 11 00-0261	Perforated, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0239)</small>		
	Note: Excludes couplings and gaskets.		
33 42 11 00-0262	Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0261)</small>		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0263	LF		4" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	15.19	6.41
			<i>For <100, Add</i>	2.56	
			<i>For >1,000, Deduct</i>	-1.40	
33 42 11 00-0264	LF		6" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	18.89	7.45
			<i>For <100, Add</i>	2.98	
			<i>For >1,000, Deduct</i>	-1.69	
33 42 11 00-0265	LF		8" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	23.25	8.66
			<i>For <100, Add</i>	3.47	
			<i>For >1,000, Deduct</i>	-2.03	
33 42 11 00-0266	LF		10" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	26.50	8.97
			<i>For <100, Add</i>	3.59	
			<i>For >1,000, Deduct</i>	-2.22	
33 42 11 00-0267	LF		12" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	27.84	9.29
			<i>For <100, Add</i>	3.71	
			<i>For >1,000, Deduct</i>	-2.32	
33 42 11 00-0268	LF		15" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	31.69	9.62
			<i>For <100, Add</i>	3.85	
			<i>For >1,000, Deduct</i>	-2.55	
33 42 11 00-0269	LF		18" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	38.49	9.97
			<i>For <100, Add</i>	3.99	
			<i>For >1,000, Deduct</i>	-2.92	
33 42 11 00-0270	LF		24" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	52.88	11.67
			<i>For <100, Add</i>	4.67	
			<i>For >1,000, Deduct</i>	-3.81	
33 42 11 00-0271	LF		30" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	75.32	15.72
			<i>For <100, Add</i>	6.29	
			<i>For >1,000, Deduct</i>	-5.34	
33 42 11 00-0272	LF		36" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	98.70	19.87
			<i>For <100, Add</i>	7.95	
			<i>For >1,000, Deduct</i>	-6.92	
33 42 11 00-0273			Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0261)</small>		
33 42 11 00-0274	LF		12" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	27.70	9.29
			<i>For <100, Add</i>	3.71	
			<i>For >1,000, Deduct</i>	-2.31	
33 42 11 00-0275	LF		15" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	32.34	9.62
			<i>For <100, Add</i>	3.85	
			<i>For >1,000, Deduct</i>	-2.58	
33 42 11 00-0276	LF		18" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	39.48	9.97
			<i>For <100, Add</i>	3.99	
			<i>For >1,000, Deduct</i>	-2.97	
33 42 11 00-0277	LF		24" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	54.44	11.67
			<i>For <100, Add</i>	4.67	
			<i>For >1,000, Deduct</i>	-3.89	
33 42 11 00-0278	LF		30" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	79.30	15.72
			<i>For <100, Add</i>	6.29	
			<i>For >1,000, Deduct</i>	-5.54	
33 42 11 00-0279	LF		36" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	101.86	19.87
			<i>For <100, Add</i>	7.95	
			<i>For >1,000, Deduct</i>	-7.08	
33 42 11 00-0280	LF		42" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	133.03	21.67
			<i>For <100, Add</i>	8.67	
			<i>For >1,000, Deduct</i>	-8.82	
33 42 11 00-0281	LF		48" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	145.02	24.45
			<i>For <100, Add</i>	9.78	
			<i>For >1,000, Deduct</i>	-9.70	
33 42 11 00-0282			Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings <small>(33 42 11 00-0239)</small>		
			Note: Excludes couplings and gaskets.		
33 42 11 00-0283			Tees, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 42 11 00-0282)</small>		
33 42 11 00-0284	EA		4" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	57.88	21.92
33 42 11 00-0285	EA		6" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	72.60	25.58
33 42 11 00-0286	EA		8" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	116.58	31.06
33 42 11 00-0287	EA		10" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	177.26	38.37
33 42 11 00-0288	EA		12" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	278.75	45.68
33 42 11 00-0289	EA		15" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	393.13	59.69
33 42 11 00-0290	EA		18" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	565.02	80.39
33 42 11 00-0291	EA		24" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	723.42	91.76
33 42 11 00-0292	EA		30" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,260.65	105.98
33 42 11 00-0293	EA		36" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,618.22	122.42

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0294 EA 42" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	2,690.32	146.17
33 42 11 00-0295 EA 48" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	3,376.17	173.58
33 42 11 00-0296 Wyes, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 42 11 00-0282)</small>		
33 42 11 00-0297 EA 4" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	84.18	21.92
33 42 11 00-0298 EA 6" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	101.46	25.58
33 42 11 00-0299 EA 8" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	134.80	31.06
33 42 11 00-0300 EA 10" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	197.35	38.37
33 42 11 00-0301 EA 12" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	343.37	45.68
33 42 11 00-0302 EA 15" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	373.30	59.69
33 42 11 00-0303 EA 18" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	526.46	80.39
33 42 11 00-0304 22-1/2 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 42 11 00-0282)</small>		
33 42 11 00-0305 EA 4" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	35.28	14.62
33 42 11 00-0306 EA 6" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	43.48	17.05
33 42 11 00-0307 EA 8" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	63.13	20.71
33 42 11 00-0308 EA 10" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	79.42	25.58
33 42 11 00-0309 EA 12" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	114.77	30.46
33 42 11 00-0310 EA 15" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	180.66	38.98
33 42 11 00-0311 EA 18" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	239.57	53.60
33 42 11 00-0312 EA 24" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	451.78	60.90
33 42 11 00-0313 EA 30" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	626.75	70.65
33 42 11 00-0314 EA 36" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	734.38	81.61
33 42 11 00-0315 EA 42" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	938.04	97.44
33 42 11 00-0316 EA 48" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,266.98	115.71
33 42 11 00-0317 45 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 42 11 00-0282)</small>		
33 42 11 00-0318 EA 4" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	38.16	14.62
33 42 11 00-0319 EA 6" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	49.47	17.05
33 42 11 00-0320 EA 8" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	66.19	20.71
33 42 11 00-0321 EA 10" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	104.32	25.58
33 42 11 00-0322 EA 12" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	114.77	30.46
33 42 11 00-0323 EA 15" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	180.16	38.98
33 42 11 00-0324 EA 18" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	279.72	53.60
33 42 11 00-0325 EA 24" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	482.80	60.90
33 42 11 00-0326 EA 30" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	628.23	70.65
33 42 11 00-0327 EA 36" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	801.24	81.61
33 42 11 00-0328 EA 42" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,196.08	97.44
33 42 11 00-0329 EA 48" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,498.25	115.71
33 42 11 00-0330 Couplings And End Caps, Corrugated High Density Polyethylene (HDPE) Pipe Fittings <small>(33 42 11 00-0239)</small>		
Note: For single and double wall high density polyethylene (HDPE) piping.		
33 42 11 00-0331 Couplings, Corrugated High Density Polyethylene (HDPE) Pipe <small>(33 42 11 00-0330)</small>		
33 42 11 00-0332 EA 4" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	1.72	
33 42 11 00-0333 EA 6" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	3.08	
33 42 11 00-0334 EA 8" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	4.74	
33 42 11 00-0335 EA 10" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	5.83	
33 42 11 00-0336 EA 12" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	6.27	
33 42 11 00-0337 EA 15" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	8.93	
33 42 11 00-0338 EA 18" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	13.21	
33 42 11 00-0339 EA 24" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	21.02	
33 42 11 00-0340 EA 30" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	32.28	
33 42 11 00-0341 EA 36" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	42.23	
33 42 11 00-0342 EA 42" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	66.39	
33 42 11 00-0343 EA 48" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	89.80	
33 42 11 00-0344 Self Adhering Gaskets, Corrugated High Density Polyethylene (HDPE) Pipe <small>(33 42 11 00-0330)</small>		
33 42 11 00-0345 EA 4" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	90.92	
33 42 11 00-0346 EA 6" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	95.20	
33 42 11 00-0347 EA 8" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	99.68	
33 42 11 00-0348 EA 10" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	104.37	
33 42 11 00-0349 EA 12" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	123.79	
33 42 11 00-0350 EA 15" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	127.81	
33 42 11 00-0351 EA 18" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	133.31	
33 42 11 00-0352 EA 24" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	151.84	
33 42 11 00-0353 EA 30" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	243.41	
33 42 11 00-0354 EA 36" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	266.61	
33 42 11 00-0355 EA 42" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	290.50	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0356 EA 48" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	352.81	
33 42 11 00-0357 End Caps, Corrugated High Density Polyethylene (HDPE) Pipe <small>(33 42 11 00-0330)</small>		
33 42 11 00-0358 EA 6" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	31.30	
33 42 11 00-0359 EA 8" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	36.72	
33 42 11 00-0360 EA 10" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	59.36	
33 42 11 00-0361 EA 12" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	100.81	
33 42 11 00-0362 EA 15" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	117.28	
33 42 11 00-0363 EA 18" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	158.46	
33 42 11 00-0364 EA 24" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	164.24	
33 42 11 00-0365 Vitrified Clay Piping <small>(33 42 11)</small>		
33 42 11 00-0366 Extra Strength Vitrified Clay Piping <small>(33 42 11 00-0365)</small>		
33 42 11 00-0367 Plain Joint, Extra Strength, Vitrified Clay Piping <small>(33 42 11 00-0366)</small>		
Note: ASTM C700.		
33 42 11 00-0368 LF 4" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	19.77	
For 3' Lengths, Add	1.68	
For 2' Lengths, Add	2.24	
For Standard Strength, Deduct	-0.56	
For >1,000, Deduct	-0.99	
33 42 11 00-0369 LF 6" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	32.85	
For 3' Lengths, Add	2.60	
For 2' Lengths, Add	3.47	
For Standard Strength, Deduct	-0.87	
For >1,000, Deduct	-1.64	
33 42 11 00-0370 LF 8" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	39.25	
For 3' Lengths, Add	3.72	
For 2' Lengths, Add	4.96	
For Standard Strength, Deduct	-1.24	
For >1,000, Deduct	-1.96	
33 42 11 00-0371 LF 10" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	46.87	
For 3' Lengths, Add	5.70	
For 2' Lengths, Add	7.60	
For Standard Strength, Deduct	-1.90	
For >1,000, Deduct	-2.34	
33 42 11 00-0372 LF 12" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	57.22	
For 3' Lengths, Add	8.04	
For 2' Lengths, Add	10.72	
For Standard Strength, Deduct	-2.68	
For >1,000, Deduct	-2.86	
33 42 11 00-0373 LF 15" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	84.11	
For 3' Lengths, Add	15.08	
For 2' Lengths, Add	20.11	
For Standard Strength, Deduct	-5.03	
For >1,000, Deduct	-4.21	
33 42 11 00-0374 LF 18" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	114.26	
For 3' Lengths, Add	21.62	
For 2' Lengths, Add	28.82	
For Standard Strength, Deduct	-7.21	
For >1,000, Deduct	-5.71	
33 42 11 00-0375 LF 21" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	168.66	
For 3' Lengths, Add	34.63	
For 2' Lengths, Add	46.18	
For Standard Strength, Deduct	-11.54	
For >1,000, Deduct	-8.43	
33 42 11 00-0376 LF 24" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	215.44	
For 3' Lengths, Add	45.24	
For 2' Lengths, Add	60.32	
For Standard Strength, Deduct	-15.08	
For >1,000, Deduct	-10.77	
33 42 11 00-0377 LF 30" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	266.53	
For 3' Lengths, Add	56.42	
For 2' Lengths, Add	75.22	
For Standard Strength, Deduct	-18.81	
For >1,000, Deduct	-13.33	
33 42 11 00-0378 LF 36" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	322.45	
For 3' Lengths, Add	68.15	
For 2' Lengths, Add	90.86	
For Standard Strength, Deduct	-22.72	
For >1,000, Deduct	-16.12	
33 42 11 00-0379 Compression Joint, Extra Strength, Vitrified Clay Piping <small>(33 42 11 00-0366)</small>		
Note: ASTM C425.		
33 42 11 00-0380 LF 4" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	28.08	
For 3' Lengths, Add	1.98	
For 2' Lengths, Add	2.64	
For Standard Strength, Deduct	-0.66	
For >1,000, Deduct	-1.40	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0381 LF 6" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	34.93	
For 3' Lengths, Add	3.23	
For 2' Lengths, Add	4.30	
For Standard Strength, Deduct	-1.08	
For >1,000, Deduct	-1.75	
33 42 11 00-0382 LF 8" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	42.04	
For 3' Lengths, Add	4.56	
For 2' Lengths, Add	6.08	
For Standard Strength, Deduct	-1.52	
For >1,000, Deduct	-2.10	
33 42 11 00-0383 LF 10" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	52.83	
For 3' Lengths, Add	7.49	
For 2' Lengths, Add	9.98	
For Standard Strength, Deduct	-2.50	
For >1,000, Deduct	-2.64	
33 42 11 00-0384 LF 12" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	63.18	
For 3' Lengths, Add	9.83	
For 2' Lengths, Add	13.11	
For Standard Strength, Deduct	-3.28	
For >1,000, Deduct	-3.16	
33 42 11 00-0385 LF 15" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	93.61	
For 3' Lengths, Add	17.93	
For 2' Lengths, Add	23.91	
For Standard Strength, Deduct	-5.98	
For >1,000, Deduct	-4.68	
33 42 11 00-0386 LF 18" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	129.71	
For 3' Lengths, Add	26.25	
For 2' Lengths, Add	35.00	
For Standard Strength, Deduct	-8.75	
For >1,000, Deduct	-6.49	
33 42 11 00-0387 LF 21" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	186.35	
For 3' Lengths, Add	39.94	
For 2' Lengths, Add	53.25	
For Standard Strength, Deduct	-13.31	
For >1,000, Deduct	-9.32	
33 42 11 00-0388 LF 24" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	243.37	
For 3' Lengths, Add	53.62	
For 2' Lengths, Add	71.50	
For Standard Strength, Deduct	-17.87	
For >1,000, Deduct	-12.17	
33 42 11 00-0389 LF 30" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	389.42	
For 3' Lengths, Add	93.28	
For 2' Lengths, Add	124.38	
For Standard Strength, Deduct	-31.09	
For >1,000, Deduct	-19.47	
33 42 11 00-0390 LF 36" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	553.33	
For 3' Lengths, Add	137.41	
For 2' Lengths, Add	183.21	
For Standard Strength, Deduct	-45.80	
For >1,000, Deduct	-27.67	
33 42 11 00-0391 Extra Strength, Vitrified Clay Pipe Fittings (33 42 11 00-0365)		
33 42 11 00-0392 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0391)		
33 42 11 00-0393 Plain End 1/8 Bend, Extra Strength, Vitrified Clay (33 42 11 00-0392)		
33 42 11 00-0394 EA 4" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	82.40	
33 42 11 00-0395 EA 6" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	111.17	
33 42 11 00-0396 EA 8" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	158.64	
33 42 11 00-0397 EA 10" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	217.46	
33 42 11 00-0398 EA 12" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	287.13	
33 42 11 00-0399 EA 15" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	684.45	
33 42 11 00-0400 EA 18" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	965.20	
33 42 11 00-0401 EA 21" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,505.53	
33 42 11 00-0402 EA 24" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,737.72	
33 42 11 00-0403 EA 30" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	2,018.09	
33 42 11 00-0404 EA 36" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	3,026.49	
33 42 11 00-0405 Compression Joint 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0392)		
33 42 11 00-0406 EA 4" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	93.20	
33 42 11 00-0407 EA 6" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	132.34	
33 42 11 00-0408 EA 8" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	179.07	
33 42 11 00-0409 EA 10" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	239.30	
33 42 11 00-0410 EA 12" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	303.59	
33 42 11 00-0411 EA 15" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	767.92	
33 42 11 00-0412 EA 18" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,116.86	
33 42 11 00-0413 EA 21" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,148.61	
33 42 11 00-0414 EA 24" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	2,225.18	
33 42 11 00-0415 EA 30" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	2,478.54	
33 42 11 00-0416 EA 36" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	3,679.48	



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Stormwater Utilities	33 40	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0417 1/4 Bends, Extra Strength, Vitrified Clay <small>(33 42 11 00-0391)</small>		
33 42 11 00-0418 Plain End 1/4 Bends, Extra Strength, Vitrified Clay <small>(33 42 11 00-0417)</small>		
33 42 11 00-0419 EA 4" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	96.58	
33 42 11 00-0420 EA 6" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	128.25	
33 42 11 00-0421 EA 8" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	178.62	
33 42 11 00-0422 EA 10" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	239.06	
33 42 11 00-0423 EA 12" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	311.46	
33 42 11 00-0424 EA 15" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	711.52	
33 42 11 00-0425 EA 18" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	998.96	
33 42 11 00-0426 EA 21" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	1,548.12	
33 42 11 00-0427 EA 24" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	1,789.43	
33 42 11 00-0428 EA 30" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	2,082.57	
33 42 11 00-0429 EA 36" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	3,098.16	
33 42 11 00-0430 Compression Joint 1/4 Bends, Extra Strength, Vitrified Clay <small>(33 42 11 00-0417)</small>		
33 42 11 00-0431 EA 4" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	110.22	
33 42 11 00-0432 EA 6" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	152.83	
33 42 11 00-0433 EA 8" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	203.04	
33 42 11 00-0434 EA 10" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	265.22	
33 42 11 00-0435 EA 12" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	332.79	
33 42 11 00-0436 EA 15" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	800.40	
33 42 11 00-0437 EA 18" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	1,157.37	
33 42 11 00-0438 EA 21" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	2,243.42	
33 42 11 00-0439 EA 24" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	2,287.22	
33 42 11 00-0440 EA 30" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	2,555.91	
33 42 11 00-0441 EA 36" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	3,765.50	
33 42 11 00-0442 Wyes Or Tees, Extra Strength, Vitrified Clay <small>(33 42 11 00-0391)</small>		
33 42 11 00-0443 Plain End Wyes Or Tees, Extra Strength, Vitrified Clay <small>(33 42 11 00-0442)</small>		
33 42 11 00-0444 EA 4" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	106.33	
33 42 11 00-0445 EA 6" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	138.64	
33 42 11 00-0446 EA 8" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	188.02	
33 42 11 00-0447 EA 10" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	247.50	
33 42 11 00-0448 EA 12" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	312.60	
33 42 11 00-0449 EA 15" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	719.19	
33 42 11 00-0450 EA 18" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	1,006.02	
33 42 11 00-0451 EA 21" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	1,452.92	
33 42 11 00-0452 EA 24" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	2,021.09	
33 42 11 00-0453 EA 30" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	2,140.03	
33 42 11 00-0454 EA 36" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	3,075.68	
33 42 11 00-0455 Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay <small>(33 42 11 00-0442)</small>		
33 42 11 00-0456 EA 4" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	129.87	
33 42 11 00-0457 EA 6" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	177.75	
33 42 11 00-0458 EA 8" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	233.70	
33 42 11 00-0459 EA 10" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	301.23	
33 42 11 00-0460 EA 12" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	375.48	
33 42 11 00-0461 EA 15" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	874.78	
33 42 11 00-0462 EA 18" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	1,260.09	
33 42 11 00-0463 EA 21" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	1,869.85	
33 42 11 00-0464 EA 24" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	2,476.72	
33 42 11 00-0465 EA 30" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	2,865.48	
33 42 11 00-0466 EA 36" Compression Joint, Extra Strength, Vitrified Clay Wye Or Tee	4,065.36	
33 42 11 00-0467 Vitrified Clay Couplings <small>(33 42 11 00-0365)</small>		
33 42 11 00-0468 Vitrified Clay To Cast Iron Or Plastic Pipe Couplings <small>(33 42 11 00-0467)</small>		
Note: Stainless steel tightening band at each end (Fernco #1002)		
33 42 11 00-0469 EA 4" x 3" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	43.81	
33 42 11 00-0470 EA 4" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	43.28	
33 42 11 00-0471 EA 5" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	62.86	
33 42 11 00-0472 EA 5" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	58.59	
33 42 11 00-0473 EA 6" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	78.56	
33 42 11 00-0474 EA 6" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	82.27	
33 42 11 00-0475 EA 6" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	74.08	
33 42 11 00-0476 EA 8" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	112.26	
33 42 11 00-0477 EA 8" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	102.90	
33 42 11 00-0478 EA 10" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	149.97	
33 42 11 00-0479 EA 10" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	135.51	
33 42 11 00-0480 EA 12" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	188.80	
33 42 11 00-0481 EA 12" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	155.59	
33 42 11 00-0482 EA 15" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	328.32	
33 42 11 00-0483 EA 15" x 15" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	249.17	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0484 Vitrified Clay To Vitrified Clay Pipe Non-Shear Couplings <small>(33 42 11 00-0467)</small>		
Note: Stainless steel tightening band at each end. (NDS Non-shear)		
33 42 11 00-0485 EA 4" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling.....	68.31	
33 42 11 00-0486 EA 6" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling.....	91.03	
33 42 11 00-0487 EA 6" x 6" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling.....	96.29	
33 42 11 00-0488 EA 8" x 8" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling.....	100.94	
33 42 11 00-0489 EA 10" x 10" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling.....	124.70	
33 42 11 00-0490 EA 12" x 12" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling.....	144.75	
33 42 11 00-0491 Vitrified Clay To Plastic Pipe Non-Shear Couplings <small>(33 42 11 00-0467)</small>		
Note: Stainless steel tightening band at each end. (NDS Non-shear)		
33 42 11 00-0492 EA 4" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling.....	70.07	
33 42 11 00-0493 EA 6" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling.....	92.79	
33 42 11 00-0494 EA 6" x 6" Vitrified Clay To Plastic Pipe Non-Shear Coupling.....	84.96	
33 42 11 00-0495 EA 8" x 8" Vitrified Clay To Plastic Pipe Non-Shear Coupling.....	111.48	
33 42 11 00-0496 EA 10" x 10" Vitrified Clay To Plastic Pipe Non-Shear Coupling.....	161.61	
33 42 11 00-0497 EA 12" x 12" Vitrified Clay To Plastic Pipe Non-Shear Coupling.....	182.64	
33 42 11 00-0498 Corrugated Metal Piping <small>(33 42 11)</small>		
33 42 11 00-0499 Galvanized Corrugated Steel Piping <small>(33 42 11 00-0498)</small>		
33 42 11 00-0500 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0499)</small>		
33 42 11 00-0501 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0500)</small>		
33 42 11 00-0502 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	33.07	9.46
For Bituminous Coated Pipe, Add	3.24	
For Bituminous Coated And 25% Paved, Add	6.63	
For Smooth-Flo, Add	11.85	
33 42 11 00-0503 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	37.23	9.92
For Bituminous Coated Pipe, Add	4.08	
For Bituminous Coated And 25% Paved, Add	8.35	
For Smooth-Flo, Add	14.91	
33 42 11 00-0504 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	41.53	10.82
For Bituminous Coated Pipe, Add	4.94	
For Bituminous Coated And 25% Paved, Add	10.11	
For Smooth-Flo, Add	18.06	
33 42 11 00-0505 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	47.22	11.72
For Bituminous Coated Pipe, Add	5.91	
For Bituminous Coated And 25% Paved, Add	12.10	
For Smooth-Flo, Add	21.60	
33 42 11 00-0506 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	52.23	12.62
For Bituminous Coated Pipe, Add	6.66	
For Bituminous Coated And 25% Paved, Add	13.61	
For Smooth-Flo, Add	24.31	
33 42 11 00-0507 LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	68.96	16.23
For Bituminous Coated Pipe, Add	8.63	
For Bituminous Coated And 25% Paved, Add	17.66	
For Smooth-Flo, Add	31.54	
33 42 11 00-0508 LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	90.36	21.37
For Bituminous Coated Pipe, Add	10.89	
For Bituminous Coated And 25% Paved, Add	22.28	
For Smooth-Flo, Add	39.79	
33 42 11 00-0509 LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	102.72	25.27
For Bituminous Coated Pipe, Add	12.89	
For Bituminous Coated And 25% Paved, Add	26.36	
For Smooth-Flo, Add	47.07	
33 42 11 00-0510 LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	115.45	29.15
For Bituminous Coated Pipe, Add	14.44	
For Bituminous Coated And 25% Paved, Add	29.53	
For Smooth-Flo, Add	52.73	
33 42 11 00-0511 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0500)</small>		
33 42 11 00-0512 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	35.96	9.46
For Bituminous Coated Pipe, Add	3.29	
For Bituminous Coated And 25% Paved, Add	7.62	
For Smooth-Flo, Add	15.41	
33 42 11 00-0513 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	40.79	9.92
For Bituminous Coated Pipe, Add	4.13	
For Bituminous Coated And 25% Paved, Add	9.56	
For Smooth-Flo, Add	19.33	
33 42 11 00-0514 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	45.84	10.82
For Bituminous Coated Pipe, Add	5.00	
For Bituminous Coated And 25% Paved, Add	11.58	
For Smooth-Flo, Add	23.40	
33 42 11 00-0515 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	52.20	11.72
For Bituminous Coated Pipe, Add	5.94	
For Bituminous Coated And 25% Paved, Add	13.77	
For Smooth-Flo, Add	27.83	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0516	LF	24"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	58.02 6.72 15.58 31.49	12.62
33 42 11 00-0517	LF	30"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	76.03 8.64 20.01 40.44	16.23
33 42 11 00-0518	LF	36"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	98.94 10.83 25.08 50.70	21.37
33 42 11 00-0519	LF	42"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	112.55 12.74 29.52 59.67	25.27
33 42 11 00-0520	LF	48"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	126.69 14.32 33.18 67.06	29.15
33 42 11 00-0521	LF	54"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	151.21 17.61 40.80 82.48	33.03
33 42 11 00-0522			12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping⁽³³⁾ <small>^(42 11 00-0500)</small>		
33 42 11 00-0523	LF	18"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	54.76 5.72 10.33 19.86	10.82
33 42 11 00-0524	LF	21"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	62.57 6.76 12.22 23.48	11.72
33 42 11 00-0525	LF	24"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	69.84 7.67 13.85 26.61	11.72
33 42 11 00-0526	LF	30"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	90.64 9.75 17.61 33.84	16.23
33 42 11 00-0527	LF	36"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	116.28 12.06 21.78 41.85	21.37
33 42 11 00-0528	LF	42"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	132.58 14.13 25.51 49.03	25.27
33 42 11 00-0529	LF	48"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	149.65 15.95 28.81 55.37	29.15
33 42 11 00-0530	LF	54"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	176.56 19.13 34.55 66.40	33.03
33 42 11 00-0531	LF	60"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	193.00 20.95 37.83 72.71	34.98
33 42 11 00-0532	LF	66"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	233.75 25.51 46.06 88.52	42.75
33 42 11 00-0533			10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping⁽³³⁾ <small>^(42 11 00-0500)</small>		
33 42 11 00-0534	LF	36"	10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	132.50 15.34 25.62 36.56	21.37
33 42 11 00-0535	LF	42"	10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	151.57 17.97 30.02 42.83	25.27
33 42 11 00-0536	LF	48"	10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	171.20 20.31 33.93 48.41	29.15

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0537	LF	54"	10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	200.69	33.03
			<i>For Bituminous Coated Pipe, Add</i>	24.05	
			<i>For Bituminous Coated And 25% Paved, Add</i>	40.18	
			<i>For Smooth-Flo, Add</i>	57.33	
33 42 11 00-0538	LF	60"	10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	219.86	34.98
			<i>For Bituminous Coated Pipe, Add</i>	26.42	
			<i>For Bituminous Coated And 25% Paved, Add</i>	44.13	
			<i>For Smooth-Flo, Add</i>	62.97	
33 42 11 00-0539	LF	66"	10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	263.27	42.75
			<i>For Bituminous Coated Pipe, Add</i>	31.60	
			<i>For Bituminous Coated And 25% Paved, Add</i>	52.79	
			<i>For Smooth-Flo, Add</i>	75.33	
33 42 11 00-0540	LF	72"	10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	316.46	62.18
			<i>For Bituminous Coated Pipe, Add</i>	33.93	
			<i>For Bituminous Coated And 25% Paved, Add</i>	56.68	
			<i>For Smooth-Flo, Add</i>	80.88	
33 42 11 00-0541			3" x 1" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0498)</small>		
33 42 11 00-0542			16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0541)</small>		
33 42 11 00-0543	LF	36"	16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	105.24	21.37
			<i>For Bituminous Coated Pipe, Add</i>	11.98	
			<i>For Bituminous Coated And 25% Paved, Add</i>	27.19	
			<i>For Smooth-Flo, Add</i>	54.14	
33 42 11 00-0544	LF	42"	16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	119.79	25.27
			<i>For Bituminous Coated Pipe, Add</i>	14.06	
			<i>For Bituminous Coated And 25% Paved, Add</i>	31.93	
			<i>For Smooth-Flo, Add</i>	63.57	
33 42 11 00-0545	LF	48"	16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	134.67	29.15
			<i>For Bituminous Coated Pipe, Add</i>	15.77	
			<i>For Bituminous Coated And 25% Paved, Add</i>	35.81	
			<i>For Smooth-Flo, Add</i>	71.30	
33 42 11 00-0546	LF	54"	16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	160.36	33.03
			<i>For Bituminous Coated Pipe, Add</i>	19.27	
			<i>For Bituminous Coated And 25% Paved, Add</i>	43.74	
			<i>For Smooth-Flo, Add</i>	87.09	
33 42 11 00-0547	LF	60"	16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	174.72	34.98
			<i>For Bituminous Coated Pipe, Add</i>	20.99	
			<i>For Bituminous Coated And 25% Paved, Add</i>	47.65	
			<i>For Smooth-Flo, Add</i>	94.88	
33 42 11 00-0548	LF	66"	16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	218.53	42.75
			<i>For Bituminous Coated Pipe, Add</i>	26.96	
			<i>For Bituminous Coated And 25% Paved, Add</i>	61.21	
			<i>For Smooth-Flo, Add</i>	121.88	
33 42 11 00-0549	LF	72"	16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	267.38	62.18
			<i>For Bituminous Coated Pipe, Add</i>	28.74	
			<i>For Bituminous Coated And 25% Paved, Add</i>	65.24	
			<i>For Smooth-Flo, Add</i>	129.91	
33 42 11 00-0550	LF	78"	16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	288.66	68.01
			<i>For Bituminous Coated Pipe, Add</i>	30.53	
			<i>For Bituminous Coated And 25% Paved, Add</i>	69.29	
			<i>For Smooth-Flo, Add</i>	137.98	
33 42 11 00-0551	LF	84"	16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	307.30	72.87
			<i>For Bituminous Coated Pipe, Add</i>	32.31	
			<i>For Bituminous Coated And 25% Paved, Add</i>	73.34	
			<i>For Smooth-Flo, Add</i>	146.04	
33 42 11 00-0552	LF	90"	16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	325.96	77.73
			<i>For Bituminous Coated Pipe, Add</i>	34.10	
			<i>For Bituminous Coated And 25% Paved, Add</i>	77.41	
			<i>For Smooth-Flo, Add</i>	154.13	
33 42 11 00-0553	LF	96"	16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	345.28	82.59
			<i>For Bituminous Coated Pipe, Add</i>	35.88	
			<i>For Bituminous Coated And 25% Paved, Add</i>	81.44	
			<i>For Smooth-Flo, Add</i>	162.17	
33 42 11 00-0554	LF	102"	16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	367.36	87.45
			<i>For Bituminous Coated Pipe, Add</i>	37.68	
			<i>For Bituminous Coated And 25% Paved, Add</i>	85.52	
			<i>For Smooth-Flo, Add</i>	170.30	
33 42 11 00-0555			14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0541)</small>		
33 42 11 00-0556	LF	54"	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	175.55	33.03
			<i>For Bituminous Coated Pipe, Add</i>	22.31	
			<i>For Bituminous Coated And 25% Paved, Add</i>	43.72	
			<i>For Smooth-Flo, Add</i>	88.33	
33 42 11 00-0557	LF	60"	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	191.52	34.98
			<i>For Bituminous Coated Pipe, Add</i>	24.35	
			<i>For Bituminous Coated And 25% Paved, Add</i>	47.73	
			<i>For Smooth-Flo, Add</i>	96.43	
33 42 11 00-0558	LF	66"	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	237.01	42.75
			<i>For Bituminous Coated Pipe, Add</i>	30.66	
			<i>For Bituminous Coated And 25% Paved, Add</i>	60.09	
			<i>For Smooth-Flo, Add</i>	121.41	



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0559	LF	72" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	287.51 32.77 64.23 129.76	62.18
33 42 11 00-0560	LF	78" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	310.40 34.87 68.35 138.10	68.01
33 42 11 00-0561	LF	84" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	330.76 37.00 72.52 146.53	72.87
33 42 11 00-0562	LF	90" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	351.01 39.11 76.66 154.88	77.73
33 42 11 00-0563	LF	96" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	371.97 41.22 80.78 163.22	82.59
33 42 11 00-0564	LF	102" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	395.67 43.34 84.94 171.62	87.45
33 42 11 00-0565	LF	108" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	421.62 45.46 89.10 180.01	97.16
33 42 11 00-0566	LF	114" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	446.97 47.54 93.17 188.25	106.88
33 42 11 00-0567		12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0541)</small>		
33 42 11 00-0568	LF	60" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	228.78 31.80 60.59 98.75	34.98
33 42 11 00-0569	LF	66" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	278.28 38.91 74.13 120.83	42.75
33 42 11 00-0570	LF	72" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	332.38 41.74 79.52 129.61	62.18
33 42 11 00-0571	LF	78" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	358.91 44.58 84.92 138.41	68.01
33 42 11 00-0572	LF	84" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	382.87 47.42 90.34 147.25	72.87
33 42 11 00-0573	LF	90" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	406.75 50.26 95.74 156.05	77.73
33 42 11 00-0574	LF	96" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	431.39 53.10 101.16 164.88	82.59
33 42 11 00-0575	LF	102" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	458.72 55.95 106.58 173.72	87.45
33 42 11 00-0576	LF	108" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	488.24 58.78 111.98 182.52	97.16
33 42 11 00-0577	LF	114" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	517.26 61.60 117.34 191.26	106.88
33 42 11 00-0578	LF	120" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	545.22 64.44 122.77 200.10	116.60
33 42 11 00-0579		10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0541)</small>		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0580 LF 72" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	374.22	62.18
For Bituminous Coated Pipe, Add	50.11	
For Bituminous Coated And 25% Paved, Add	95.21	
For Smooth-Flo, Add	127.28	
33 42 11 00-0581 LF 78" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	404.19	68.01
For Bituminous Coated Pipe, Add	53.63	
For Bituminous Coated And 25% Paved, Add	101.90	
For Smooth-Flo, Add	136.23	
33 42 11 00-0582 LF 84" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	431.58	72.87
For Bituminous Coated Pipe, Add	57.17	
For Bituminous Coated And 25% Paved, Add	108.62	
For Smooth-Flo, Add	145.20	
33 42 11 00-0583 LF 90" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	458.90	77.73
For Bituminous Coated Pipe, Add	60.69	
For Bituminous Coated And 25% Paved, Add	115.31	
For Smooth-Flo, Add	154.15	
33 42 11 00-0584 LF 96" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	486.97	82.59
For Bituminous Coated Pipe, Add	64.22	
For Bituminous Coated And 25% Paved, Add	122.01	
For Smooth-Flo, Add	163.11	
33 42 11 00-0585 LF 102" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	517.73	87.45
For Bituminous Coated Pipe, Add	67.75	
For Bituminous Coated And 25% Paved, Add	128.73	
For Smooth-Flo, Add	172.09	
33 42 11 00-0586 LF 108" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	550.69	97.16
For Bituminous Coated Pipe, Add	71.27	
For Bituminous Coated And 25% Paved, Add	135.42	
For Smooth-Flo, Add	181.03	
33 42 11 00-0587 LF 114" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	583.11	106.88
For Bituminous Coated Pipe, Add	74.77	
For Bituminous Coated And 25% Paved, Add	142.06	
For Smooth-Flo, Add	189.91	
33 42 11 00-0588 LF 120" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	614.53	116.60
For Bituminous Coated Pipe, Add	78.31	
For Bituminous Coated And 25% Paved, Add	148.78	
For Smooth-Flo, Add	198.90	
33 42 11 00-0589 LF 126" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	647.72	126.31
For Bituminous Coated Pipe, Add	81.81	
For Bituminous Coated And 25% Paved, Add	155.45	
For Smooth-Flo, Add	207.81	
33 42 11 00-0590 LF 132" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	683.41	136.03
For Bituminous Coated Pipe, Add	85.35	
For Bituminous Coated And 25% Paved, Add	162.17	
For Smooth-Flo, Add	216.79	
33 42 11 00-0591 LF 138" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	722.06	145.75
For Bituminous Coated Pipe, Add	88.89	
For Bituminous Coated And 25% Paved, Add	168.89	
For Smooth-Flo, Add	225.78	
33 42 11 00-0592 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0499)		
33 42 11 00-0593 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0592)		
33 42 11 00-0594 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	135.11	29.15
For Bituminous Coated Pipe, Add	19.83	
For Bituminous Coated And 25% Paved, Add	45.21	
For Smooth-Flo, Add	71.78	
33 42 11 00-0595 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	161.21	33.03
For Bituminous Coated Pipe, Add	24.30	
For Bituminous Coated And 25% Paved, Add	55.40	
For Smooth-Flo, Add	87.96	
33 42 11 00-0596 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	175.46	34.98
For Bituminous Coated Pipe, Add	26.43	
For Bituminous Coated And 25% Paved, Add	60.25	
For Smooth-Flo, Add	95.66	
33 42 11 00-0597 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	216.78	42.75
For Bituminous Coated Pipe, Add	33.27	
For Bituminous Coated And 25% Paved, Add	75.85	
For Smooth-Flo, Add	120.43	
33 42 11 00-0598 LF 72" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	265.42	62.18
For Bituminous Coated Pipe, Add	35.44	
For Bituminous Coated And 25% Paved, Add	80.80	
For Smooth-Flo, Add	128.28	
33 42 11 00-0599 LF 78" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	286.44	68.01
For Bituminous Coated Pipe, Add	37.60	
For Bituminous Coated And 25% Paved, Add	85.73	
For Smooth-Flo, Add	136.12	
33 42 11 00-0600 LF 84" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	304.77	72.87
For Bituminous Coated Pipe, Add	39.76	
For Bituminous Coated And 25% Paved, Add	90.64	
For Smooth-Flo, Add	143.91	



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0601	LF		90" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	323.07	77.73
			<i>For Bituminous Coated Pipe, Add</i>	41.90	
			<i>For Bituminous Coated And 25% Paved, Add</i>	95.54	
			<i>For Smooth-Flo, Add</i>	151.69	
33 42 11 00-0602	LF		96" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	342.22	82.59
			<i>For Bituminous Coated Pipe, Add</i>	44.08	
			<i>For Bituminous Coated And 25% Paved, Add</i>	100.51	
			<i>For Smooth-Flo, Add</i>	159.58	
33 42 11 00-0603	LF		102" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	364.23	87.45
			<i>For Bituminous Coated Pipe, Add</i>	46.31	
			<i>For Bituminous Coated And 25% Paved, Add</i>	105.59	
			<i>For Smooth-Flo, Add</i>	167.65	
33 42 11 00-0604			14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel		
			Piping <small>(33 42 11 00-0592)</small>		
33 42 11 00-0605	LF		54" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	180.19	33.03
			<i>For Bituminous Coated Pipe, Add</i>	23.23	
			<i>For Bituminous Coated And 25% Paved, Add</i>	54.60	
			<i>For Smooth-Flo, Add</i>	98.86	
33 42 11 00-0606	LF		60" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	196.57	34.98
			<i>For Bituminous Coated Pipe, Add</i>	25.36	
			<i>For Bituminous Coated And 25% Paved, Add</i>	59.60	
			<i>For Smooth-Flo, Add</i>	107.92	
33 42 11 00-0607	LF		66" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	239.81	42.75
			<i>For Bituminous Coated Pipe, Add</i>	31.22	
			<i>For Bituminous Coated And 25% Paved, Add</i>	73.37	
			<i>For Smooth-Flo, Add</i>	132.84	
33 42 11 00-0608	LF		72" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	290.30	62.18
			<i>For Bituminous Coated Pipe, Add</i>	33.33	
			<i>For Bituminous Coated And 25% Paved, Add</i>	78.32	
			<i>For Smooth-Flo, Add</i>	141.80	
33 42 11 00-0609	LF		78" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	313.57	68.01
			<i>For Bituminous Coated Pipe, Add</i>	35.51	
			<i>For Bituminous Coated And 25% Paved, Add</i>	83.44	
			<i>For Smooth-Flo, Add</i>	151.09	
33 42 11 00-0610	LF		84" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	334.03	72.87
			<i>For Bituminous Coated Pipe, Add</i>	37.66	
			<i>For Bituminous Coated And 25% Paved, Add</i>	88.49	
			<i>For Smooth-Flo, Add</i>	160.23	
33 42 11 00-0611	LF		90" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	353.36	77.73
			<i>For Bituminous Coated Pipe, Add</i>	39.58	
			<i>For Bituminous Coated And 25% Paved, Add</i>	93.01	
			<i>For Smooth-Flo, Add</i>	168.41	
33 42 11 00-0612	LF		96" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	375.58	82.59
			<i>For Bituminous Coated Pipe, Add</i>	41.94	
			<i>For Bituminous Coated And 25% Paved, Add</i>	98.55	
			<i>For Smooth-Flo, Add</i>	178.45	
33 42 11 00-0613	LF		102" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	399.37	87.45
			<i>For Bituminous Coated Pipe, Add</i>	44.08	
			<i>For Bituminous Coated And 25% Paved, Add</i>	103.58	
			<i>For Smooth-Flo, Add</i>	187.55	
33 42 11 00-0614	LF		108" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	425.33	97.16
			<i>For Bituminous Coated Pipe, Add</i>	46.20	
			<i>For Bituminous Coated And 25% Paved, Add</i>	108.57	
			<i>For Smooth-Flo, Add</i>	196.58	
33 42 11 00-0615	LF		114" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	451.15	106.88
			<i>For Bituminous Coated Pipe, Add</i>	48.37	
			<i>For Bituminous Coated And 25% Paved, Add</i>	113.68	
			<i>For Smooth-Flo, Add</i>	205.83	
33 42 11 00-0616			12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel		
			Piping <small>(33 42 11 00-0592)</small>		
33 42 11 00-0617	LF		60" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	236.09	34.98
			<i>For Bituminous Coated Pipe, Add</i>	33.27	
			<i>For Bituminous Coated And 25% Paved, Add</i>	63.21	
			<i>For Smooth-Flo, Add</i>	114.10	
33 42 11 00-0618	LF		66" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	283.33	42.75
			<i>For Bituminous Coated Pipe, Add</i>	39.92	
			<i>For Bituminous Coated And 25% Paved, Add</i>	75.86	
			<i>For Smooth-Flo, Add</i>	136.94	
33 42 11 00-0619	LF		72" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	337.97	62.18
			<i>For Bituminous Coated Pipe, Add</i>	42.86	
			<i>For Bituminous Coated And 25% Paved, Add</i>	81.43	
			<i>For Smooth-Flo, Add</i>	147.01	
33 42 11 00-0620	LF		78" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	364.90	68.01
			<i>For Bituminous Coated Pipe, Add</i>	45.77	
			<i>For Bituminous Coated And 25% Paved, Add</i>	86.97	
			<i>For Smooth-Flo, Add</i>	157.00	
33 42 11 00-0621	LF		84" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	389.07	72.87
			<i>For Bituminous Coated Pipe, Add</i>	48.66	
			<i>For Bituminous Coated And 25% Paved, Add</i>	92.46	
			<i>For Smooth-Flo, Add</i>	166.92	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0622	LF		90" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	413.42	77.73
			<i>For Bituminous Coated Pipe, Add</i>	51.59	
			<i>For Bituminous Coated And 25% Paved, Add</i>	98.02	
			<i>For Smooth-Flo, Add</i>	176.96	
33 42 11 00-0623	LF		96" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	438.39	82.59
			<i>For Bituminous Coated Pipe, Add</i>	54.50	
			<i>For Bituminous Coated And 25% Paved, Add</i>	103.55	
			<i>For Smooth-Flo, Add</i>	186.94	
33 42 11 00-0624	LF		102" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	465.99	87.45
			<i>For Bituminous Coated Pipe, Add</i>	57.40	
			<i>For Bituminous Coated And 25% Paved, Add</i>	109.06	
			<i>For Smooth-Flo, Add</i>	196.89	
33 42 11 00-0625	LF		108" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	495.98	97.16
			<i>For Bituminous Coated Pipe, Add</i>	60.33	
			<i>For Bituminous Coated And 25% Paved, Add</i>	114.63	
			<i>For Smooth-Flo, Add</i>	206.93	
33 42 11 00-0626	LF		114" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	525.48	106.88
			<i>For Bituminous Coated Pipe, Add</i>	63.24	
			<i>For Bituminous Coated And 25% Paved, Add</i>	120.16	
			<i>For Smooth-Flo, Add</i>	216.91	
33 42 11 00-0627	LF		120" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	553.74	116.60
			<i>For Bituminous Coated Pipe, Add</i>	66.15	
			<i>For Bituminous Coated And 25% Paved, Add</i>	125.68	
			<i>For Smooth-Flo, Add</i>	226.89	
33 42 11 00-0628			10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel		
			Piping <small>(33 42 11 00-0592)</small>		
33 42 11 00-0629	LF		72" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	383.62	62.18
			<i>For Bituminous Coated Pipe, Add</i>	51.99	
			<i>For Bituminous Coated And 25% Paved, Add</i>	98.78	
			<i>For Smooth-Flo, Add</i>	155.19	
33 42 11 00-0630	LF		78" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	414.79	68.01
			<i>For Bituminous Coated Pipe, Add</i>	55.75	
			<i>For Bituminous Coated And 25% Paved, Add</i>	105.93	
			<i>For Smooth-Flo, Add</i>	166.42	
33 42 11 00-0631	LF		84" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	442.93	72.87
			<i>For Bituminous Coated Pipe, Add</i>	59.44	
			<i>For Bituminous Coated And 25% Paved, Add</i>	112.93	
			<i>For Smooth-Flo, Add</i>	177.42	
33 42 11 00-0632	LF		90" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	470.88	77.73
			<i>For Bituminous Coated Pipe, Add</i>	63.08	
			<i>For Bituminous Coated And 25% Paved, Add</i>	119.86	
			<i>For Smooth-Flo, Add</i>	188.31	
33 42 11 00-0633	LF		96" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	499.76	82.59
			<i>For Bituminous Coated Pipe, Add</i>	66.77	
			<i>For Bituminous Coated And 25% Paved, Add</i>	126.87	
			<i>For Smooth-Flo, Add</i>	199.32	
33 42 11 00-0634	LF		102" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	531.13	87.45
			<i>For Bituminous Coated Pipe, Add</i>	70.43	
			<i>For Bituminous Coated And 25% Paved, Add</i>	133.82	
			<i>For Smooth-Flo, Add</i>	210.23	
33 42 11 00-0635	LF		108" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	564.89	97.16
			<i>For Bituminous Coated Pipe, Add</i>	74.11	
			<i>For Bituminous Coated And 25% Paved, Add</i>	140.81	
			<i>For Smooth-Flo, Add</i>	221.22	
33 42 11 00-0636	LF		114" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	598.22	106.88
			<i>For Bituminous Coated Pipe, Add</i>	77.79	
			<i>For Bituminous Coated And 25% Paved, Add</i>	147.80	
			<i>For Smooth-Flo, Add</i>	232.20	
33 42 11 00-0637	LF		120" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	630.22	116.60
			<i>For Bituminous Coated Pipe, Add</i>	81.44	
			<i>For Bituminous Coated And 25% Paved, Add</i>	154.74	
			<i>For Smooth-Flo, Add</i>	243.11	
33 42 11 00-0638	LF		126" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	670.01	126.31
			<i>For Bituminous Coated Pipe, Add</i>	86.27	
			<i>For Bituminous Coated And 25% Paved, Add</i>	163.92	
			<i>For Smooth-Flo, Add</i>	257.52	
33 42 11 00-0639	LF		132" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	707.91	136.03
			<i>For Bituminous Coated Pipe, Add</i>	90.25	
			<i>For Bituminous Coated And 25% Paved, Add</i>	171.48	
			<i>For Smooth-Flo, Add</i>	269.40	
33 42 11 00-0640	LF		138" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	749.53	145.75
			<i>For Bituminous Coated Pipe, Add</i>	94.38	
			<i>For Bituminous Coated And 25% Paved, Add</i>	179.33	
			<i>For Smooth-Flo, Add</i>	281.74	
33 42 11 00-0641			Helical Ribbed, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0499)</small>		
33 42 11 00-0642			16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0641)</small>		
33 42 11 00-0643	LF		18" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	47.32	10.82
			<i>For Bituminous Coated Pipe, Add</i>	6.11	
33 42 11 00-0644	LF		21" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	54.02	11.72
			<i>For Bituminous Coated Pipe, Add</i>	7.28	



	Utilities	33
	Stormwater Utilities	33 40
	Stormwater Conveyance	33 42

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0645	LF	24"	16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	60.21 8.27	12.62
33 42 11 00-0646	LF	30"	16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	78.99 10.65	16.23
33 42 11 00-0647	LF	36"	16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	102.64 13.35	21.37
33 42 11 00-0648	LF	42"	16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	117.03 15.74	25.27
33 42 11 00-0649	LF	48"	16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	131.84 17.72	29.15
33 42 11 00-0650	LF	54"	16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	157.17 21.70	33.03
33 42 11 00-0651	LF	60"	16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	171.46 23.70	34.98
33 42 11 00-0652			14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0641)</small>		
33 42 11 00-0653	LF	18"	14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	51.70 7.07	10.82
33 42 11 00-0654	LF	21"	14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	59.14 8.40	11.72
33 42 11 00-0655	LF	24"	14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	66.03 9.54	12.62
33 42 11 00-0656	LF	30"	14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	86.23 12.23	16.23
33 42 11 00-0657	LF	36"	14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	111.36 15.25	21.37
33 42 11 00-0658	LF	42"	14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	127.23 17.96	25.27
33 42 11 00-0659	LF	48"	14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	143.49 20.26	29.15
33 42 11 00-0660	LF	54"	14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	170.26 24.54	33.03
33 42 11 00-0661	LF	60"	14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	186.03 26.86	34.98
33 42 11 00-0662	LF	66"	14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	228.16 33.37	42.75
33 42 11 00-0663	LF	72"	14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	278.01 35.65	62.18
33 42 11 00-0664	LF	78"	14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	300.44 37.98	68.01
33 42 11 00-0665			12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0641)</small>		
33 42 11 00-0666	LF	30"	12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	100.91 12.78	16.23
33 42 11 00-0667	LF	36"	12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	128.90 15.79	21.37
33 42 11 00-0668	LF	42"	12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	147.77 18.58	25.27
33 42 11 00-0669	LF	48"	12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	166.92 21.00	29.15
33 42 11 00-0670	LF	54"	12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	196.65 25.07	33.03
33 42 11 00-0671	LF	60"	12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	215.39 27.52	34.98
33 42 11 00-0672	LF	66"	12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	260.37 33.39	42.75
33 42 11 00-0673	LF	72"	12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	313.13 35.81	62.18
33 42 11 00-0674	LF	78"	12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	338.45 38.26	68.01
33 42 11 00-0675	LF	84"	12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	361.06 40.69	72.87
33 42 11 00-0676	LF	90"	12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	383.63 43.12	77.73
33 42 11 00-0677	LF	96"	12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	406.92 45.55	82.59
33 42 11 00-0678	LF	102"	12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	431.45 47.72	87.45
33 42 11 00-0679			1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0499)</small>		
33 42 11 00-0680			1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0679)</small>		
33 42 11 00-0681	LF	6"	18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	17.19 1.56	5.41
33 42 11 00-0682	LF	6"	16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	18.50 1.88	5.41
33 42 11 00-0683	LF	8"	18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	21.54 2.07	6.76
33 42 11 00-0684	LF	8"	16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	23.20 2.47	6.76

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0685	LF		10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	27.24	8.11
			<i>For Bituminous Coated Pipe, Add</i>	2.59	
33 42 11 00-0686	LF		10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	29.34	8.11
			<i>For Bituminous Coated Pipe, Add</i>	3.11	
33 42 11 00-0687			Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping ⁽³³⁾		
33 42 11 00-0688	LF		6" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	17.37	5.41
			<i>For Bituminous Coated Pipe, Add</i>	1.54	
33 42 11 00-0689	LF		6" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	18.64	5.41
			<i>For Bituminous Coated Pipe, Add</i>	1.84	
33 42 11 00-0690	LF		8" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	21.72	6.76
			<i>For Bituminous Coated Pipe, Add</i>	2.02	
33 42 11 00-0691	LF		8" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	23.48	6.76
			<i>For Bituminous Coated Pipe, Add</i>	2.44	
33 42 11 00-0692	LF		10" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	27.56	8.11
			<i>For Bituminous Coated Pipe, Add</i>	2.56	
33 42 11 00-0693	LF		10" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	29.71	8.11
			<i>For Bituminous Coated Pipe, Add</i>	3.07	
33 42 11 00-0694			1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe Fittings ^(33 42 11 00-0679)		
33 42 11 00-0695	EA		6" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	9.64	
			<i>For Bituminous Coated Pipe, Add</i>	2.17	
33 42 11 00-0696	EA		8" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	12.76	
			<i>For Bituminous Coated Pipe, Add</i>	2.87	
33 42 11 00-0697	EA		10" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	15.65	
			<i>For Bituminous Coated Pipe, Add</i>	3.52	
33 42 11 00-0698	EA		6" 18 Gauge, Band Elbows For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	34.78	
			<i>For Bituminous Coated Pipe, Add</i>	4.80	
33 42 11 00-0699	EA		6" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	8.15	
			<i>For Bituminous Coated Pipe, Add</i>	1.09	
33 42 11 00-0700	EA		8" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	10.26	
			<i>For Bituminous Coated Pipe, Add</i>	1.64	
33 42 11 00-0701			2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping ^(33 42 11 00-0499)		
33 42 11 00-0702			16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping ^(33 42 11 00-0701)		
33 42 11 00-0703	LF		12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	52.21	9.46
33 42 11 00-0704	LF		15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	61.35	9.92
33 42 11 00-0705	LF		18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	70.79	10.82
33 42 11 00-0706	LF		21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	82.18	11.72
33 42 11 00-0707	LF		24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	91.63	12.62
33 42 11 00-0708	LF		30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	119.99	16.23
33 42 11 00-0709	LF		36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	154.80	21.37
33 42 11 00-0710	LF		42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	178.94	25.27
33 42 11 00-0711	LF		48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	200.85	29.15
33 42 11 00-0712			14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping ^(33 42 11 00-0701)		
33 42 11 00-0713	LF		12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	59.25	9.46
33 42 11 00-0714	LF		15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	70.08	9.92
33 42 11 00-0715	LF		18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	81.24	10.82
33 42 11 00-0716	LF		21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	94.28	11.72
33 42 11 00-0717	LF		24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	105.68	12.62
33 42 11 00-0718	LF		30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	137.24	16.23
33 42 11 00-0719	LF		36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	175.63	21.37
33 42 11 00-0720	LF		42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	202.85	25.27
33 42 11 00-0721	LF		48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	228.13	29.15
33 42 11 00-0722	LF		54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	275.98	33.03
33 42 11 00-0723			12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping ^(33 42 11 00-0701)		
33 42 11 00-0724	LF		18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	103.02	10.82
33 42 11 00-0725	LF		21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	119.71	11.72
33 42 11 00-0726	LF		24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	134.60	12.62
33 42 11 00-0727	LF		30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	173.37	16.23
33 42 11 00-0728	LF		36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	210.12	21.37
33 42 11 00-0729	LF		42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	253.38	25.27
33 42 11 00-0730	LF		48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	285.80	29.15
33 42 11 00-0731	LF		54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	341.78	33.03
33 42 11 00-0732	LF		60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	373.45	34.98
33 42 11 00-0733	LF		66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	457.25	42.75
33 42 11 00-0734			10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping ^(33 42 11 00-0701)		
33 42 11 00-0735	LF		36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	258.58	21.37



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 42 11 00-0736 LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	299.42	25.27
	33 42 11 00-0737 LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	338.09	29.15
	33 42 11 00-0738 LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	400.36	33.03
	33 42 11 00-0739 LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	438.67	34.98
	33 42 11 00-0740 LF	66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	528.87	42.75
	33 42 11 00-0741 LF	72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	600.95	62.18
33 42 11 00-0742		3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0499)		
33 42 11 00-0743		16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0742)		
	33 42 11 00-0744 LF	36" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	194.79	21.37
	33 42 11 00-0745 LF	42" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	225.05	25.27
	33 42 11 00-0746 LF	48" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	252.55	29.15
	33 42 11 00-0747 LF	54" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	305.38	33.03
	33 42 11 00-0748 LF	60" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	332.51	34.98
	33 42 11 00-0749 LF	66" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	422.97	42.75
	33 42 11 00-0750 LF	72" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	485.02	62.18
	33 42 11 00-0751 LF	78" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	519.45	68.01
	33 42 11 00-0752 LF	84" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	551.32	72.87
	33 42 11 00-0753 LF	90" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	583.20	77.73
	33 42 11 00-0754 LF	96" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	615.71	82.59
	33 42 11 00-0755 LF	102" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	651.06	87.45
33 42 11 00-0756		14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0742)		
	33 42 11 00-0757 LF	54" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	343.04	33.03
	33 42 11 00-0758 LF	60" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	374.14	34.98
	33 42 11 00-0759 LF	66" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	468.83	42.75
	33 42 11 00-0760 LF	72" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	534.89	62.18
	33 42 11 00-0761 LF	78" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	573.39	68.01
	33 42 11 00-0762 LF	84" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	609.49	72.87
	33 42 11 00-0763 LF	90" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	645.33	77.73
	33 42 11 00-0764 LF	96" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	681.87	82.59
	33 42 11 00-0765 LF	102" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	721.34	87.45
	33 42 11 00-0766 LF	108" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	762.95	97.16
	33 42 11 00-0767 LF	114" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	803.69	106.88
33 42 11 00-0768		12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0742)		
	33 42 11 00-0769 LF	60" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	468.84	34.98
	33 42 11 00-0770 LF	66" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	574.18	42.75
	33 42 11 00-0771 LF	72" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	649.38	62.18
	33 42 11 00-0772 LF	78" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	697.06	68.01
	33 42 11 00-0773 LF	84" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	742.29	72.87
	33 42 11 00-0774 LF	90" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	787.33	77.73
	33 42 11 00-0775 LF	96" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	833.13	82.59
	33 42 11 00-0776 LF	102" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	881.71	87.45
	33 42 11 00-0777 LF	108" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	932.39	97.16
	33 42 11 00-0778 LF	114" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	982.44	106.88
	33 42 11 00-0779 LF	120" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,031.66	116.60
33 42 11 00-0780		10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0742)		
	33 42 11 00-0781 LF	72" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	753.71	62.18
	33 42 11 00-0782 LF	78" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	809.89	68.01
	33 42 11 00-0783 LF	84" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	863.69	72.87
	33 42 11 00-0784 LF	90" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	917.26	77.73
	33 42 11 00-0785 LF	96" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	971.65	82.59
	33 42 11 00-0786 LF	102" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,028.79	87.45
	33 42 11 00-0787 LF	108" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,088.04	97.16
	33 42 11 00-0788 LF	114" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,146.60	106.88
	33 42 11 00-0789 LF	120" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,204.39	116.60
	33 42 11 00-0790 LF	126" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,263.78	126.31
	33 42 11 00-0791 LF	132" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,325.85	136.03
	33 42 11 00-0792 LF	138" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,390.89	145.75
33 42 11 00-0793		125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0499)		
33 42 11 00-0794		16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0793)		
	33 42 11 00-0795 LF	48" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	244.43	29.15
	33 42 11 00-0796 LF	54" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	296.44	33.03
	33 42 11 00-0797 LF	60" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	322.27	34.98
	33 42 11 00-0798 LF	66" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	403.95	42.75
	33 42 11 00-0799 LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	464.43	62.18
	33 42 11 00-0800 LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	497.24	68.01
	33 42 11 00-0801 LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	527.28	72.87
	33 42 11 00-0802 LF	90" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	557.22	77.73

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0803	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	588.20	82.59
33 42 11 00-0804	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	622.42	87.45
33 42 11 00-0805		14 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping <small>(33 42 11 00-0793)</small>		
33 42 11 00-0806	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	341.17	33.03
33 42 11 00-0807	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	372.09	34.98
33 42 11 00-0808	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	458.28	42.75
33 42 11 00-0809	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	523.15	62.18
33 42 11 00-0810	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	561.26	68.01
33 42 11 00-0811	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	596.28	72.87
33 42 11 00-0812	LF	90" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	628.72	77.73
33 42 11 00-0813	LF	96" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	666.95	82.59
33 42 11 00-0814	LF	102" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	705.34	87.45
33 42 11 00-0815	LF	108" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	745.68	97.16
33 42 11 00-0816	LF	114" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	786.30	106.88
33 42 11 00-0817		12 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping <small>(33 42 11 00-0793)</small>		
33 42 11 00-0818	LF	60" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	471.95	34.98
33 42 11 00-0819	LF	66" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	568.76	42.75
33 42 11 00-0820	LF	72" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	644.06	62.18
33 42 11 00-0821	LF	78" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	691.35	68.01
33 42 11 00-0822	LF	84" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	735.73	72.87
33 42 11 00-0823	LF	90" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	780.65	77.73
33 42 11 00-0824	LF	96" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	826.01	82.59
33 42 11 00-0825	LF	102" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	873.90	87.45
33 42 11 00-0826	LF	108" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	924.43	97.16
33 42 11 00-0827	LF	114" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	974.32	106.88
33 42 11 00-0828	LF	120" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,022.94	116.60
33 42 11 00-0829		10 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping <small>(33 42 11 00-0793)</small>		
33 42 11 00-0830	LF	72" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	753.66	62.18
33 42 11 00-0831	LF	78" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	811.15	68.01
33 42 11 00-0832	LF	84" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	865.13	72.87
33 42 11 00-0833	LF	90" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	918.66	77.73
33 42 11 00-0834	LF	96" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	973.31	82.59
33 42 11 00-0835	LF	102" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,030.36	87.45
33 42 11 00-0836	LF	108" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,089.87	97.16
33 42 11 00-0837	LF	114" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,148.95	106.88
33 42 11 00-0838	LF	120" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,206.61	116.60
33 42 11 00-0839	LF	126" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,280.19	126.31
33 42 11 00-0840	LF	132" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,346.01	136.03
33 42 11 00-0841	LF	138" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,416.57	145.75
33 42 11 00-0842		Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0498)</small>		
33 42 11 00-0843		2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0842)</small>		
33 42 11 00-0844		16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe- Arch <small>(33 42 11 00-0843)</small>		
33 42 11 00-0845	LF	17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	38.20	9.92
		<i>For Bituminous Coated Pipe, Add</i>	4.44	
		<i>For Bituminous Coated And 25% Paved, Add</i>	10.74	
		<i>For Smooth-Flo, Add</i>	17.72	
33 42 11 00-0846	LF	21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	42.41	10.82
		<i>For Bituminous Coated Pipe, Add</i>	5.31	
		<i>For Bituminous Coated And 25% Paved, Add</i>	12.83	
		<i>For Smooth-Flo, Add</i>	21.16	
33 42 11 00-0847	LF	24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	48.43	11.72
		<i>For Bituminous Coated Pipe, Add</i>	6.39	
		<i>For Bituminous Coated And 25% Paved, Add</i>	15.44	
		<i>For Smooth-Flo, Add</i>	25.47	
33 42 11 00-0848	LF	28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	54.29	12.62
		<i>For Bituminous Coated Pipe, Add</i>	7.36	
		<i>For Bituminous Coated And 25% Paved, Add</i>	17.80	
		<i>For Smooth-Flo, Add</i>	29.35	
33 42 11 00-0849	LF	35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	70.81	16.23
		<i>For Bituminous Coated Pipe, Add</i>	9.34	
		<i>For Bituminous Coated And 25% Paved, Add</i>	22.59	
		<i>For Smooth-Flo, Add</i>	37.27	
33 42 11 00-0850	LF	42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	93.76	21.37
		<i>For Bituminous Coated Pipe, Add</i>	12.05	
		<i>For Bituminous Coated And 25% Paved, Add</i>	29.14	
		<i>For Smooth-Flo, Add</i>	48.07	



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0851			14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0843)</small>		
33 42 11 00-0852	LF		17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	41.80	9.92
			<i>For Bituminous Coated Pipe, Add</i>	4.61	
			<i>For Bituminous Coated And 25% Paved, Add</i>	10.78	
			<i>For Smooth-Flo, Add</i>	17.69	
33 42 11 00-0853	LF		21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	46.82	10.82
			<i>For Bituminous Coated Pipe, Add</i>	5.53	
			<i>For Bituminous Coated And 25% Paved, Add</i>	12.94	
			<i>For Smooth-Flo, Add</i>	21.22	
33 42 11 00-0854	LF		24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	53.35	11.72
			<i>For Bituminous Coated Pipe, Add</i>	6.57	
			<i>For Bituminous Coated And 25% Paved, Add</i>	15.38	
			<i>For Smooth-Flo, Add</i>	25.22	
33 42 11 00-0855	LF		28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	59.98	12.62
			<i>For Bituminous Coated Pipe, Add</i>	7.58	
			<i>For Bituminous Coated And 25% Paved, Add</i>	17.73	
			<i>For Smooth-Flo, Add</i>	29.08	
33 42 11 00-0856	LF		35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	77.92	16.23
			<i>For Bituminous Coated Pipe, Add</i>	9.60	
			<i>For Bituminous Coated And 25% Paved, Add</i>	22.45	
			<i>For Smooth-Flo, Add</i>	36.83	
33 42 11 00-0857	LF		42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	102.21	21.37
			<i>For Bituminous Coated Pipe, Add</i>	12.22	
			<i>For Bituminous Coated And 25% Paved, Add</i>	28.60	
			<i>For Smooth-Flo, Add</i>	46.91	
33 42 11 00-0858	LF		49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	117.20	25.27
			<i>For Bituminous Coated Pipe, Add</i>	14.56	
			<i>For Bituminous Coated And 25% Paved, Add</i>	34.07	
			<i>For Smooth-Flo, Add</i>	55.88	
33 42 11 00-0859			12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0843)</small>		
33 42 11 00-0860	LF		21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	61.11	11.66
			<i>For Bituminous Coated Pipe, Add</i>	5.98	
			<i>For Bituminous Coated And 25% Paved, Add</i>	13.31	
			<i>For Smooth-Flo, Add</i>	20.47	
33 42 11 00-0861	LF		24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	69.64	12.63
			<i>For Bituminous Coated Pipe, Add</i>	7.09	
			<i>For Bituminous Coated And 25% Paved, Add</i>	15.79	
			<i>For Smooth-Flo, Add</i>	24.27	
33 42 11 00-0862	LF		28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	78.12	13.60
			<i>For Bituminous Coated Pipe, Add</i>	8.14	
			<i>For Bituminous Coated And 25% Paved, Add</i>	18.11	
			<i>For Smooth-Flo, Add</i>	27.84	
33 42 11 00-0863	LF		35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	101.06	17.49
			<i>For Bituminous Coated Pipe, Add</i>	10.24	
			<i>For Bituminous Coated And 25% Paved, Add</i>	22.80	
			<i>For Smooth-Flo, Add</i>	35.05	
33 42 11 00-0864	LF		42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	119.44	21.37
			<i>For Bituminous Coated Pipe, Add</i>	12.82	
			<i>For Bituminous Coated And 25% Paved, Add</i>	28.52	
			<i>For Smooth-Flo, Add</i>	43.86	
33 42 11 00-0865	LF		49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	137.09	25.27
			<i>For Bituminous Coated Pipe, Add</i>	15.16	
			<i>For Bituminous Coated And 25% Paved, Add</i>	33.73	
			<i>For Smooth-Flo, Add</i>	51.87	
33 42 11 00-0866	LF		57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	159.72	29.15
			<i>For Bituminous Coated Pipe, Add</i>	17.98	
			<i>For Bituminous Coated And 25% Paved, Add</i>	40.01	
			<i>For Smooth-Flo, Add</i>	61.52	
33 42 11 00-0867	LF		64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	178.78	33.03
			<i>For Bituminous Coated Pipe, Add</i>	19.85	
			<i>For Bituminous Coated And 25% Paved, Add</i>	44.18	
			<i>For Smooth-Flo, Add</i>	67.94	
33 42 11 00-0868			10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0843)</small>		
33 42 11 00-0869	LF		42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	135.67	21.37
			<i>For Bituminous Coated Pipe, Add</i>	15.44	
			<i>For Bituminous Coated And 25% Paved, Add</i>	32.52	
			<i>For Smooth-Flo, Add</i>	41.01	
33 42 11 00-0870	LF		49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	156.01	25.27
			<i>For Bituminous Coated Pipe, Add</i>	18.22	
			<i>For Bituminous Coated And 25% Paved, Add</i>	38.35	
			<i>For Smooth-Flo, Add</i>	48.37	
33 42 11 00-0871	LF		57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	181.16	29.15
			<i>For Bituminous Coated Pipe, Add</i>	21.44	
			<i>For Bituminous Coated And 25% Paved, Add</i>	45.13	
			<i>For Smooth-Flo, Add</i>	56.91	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0872 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	203.01	33.03
For Bituminous Coated Pipe, Add	23.77	
For Bituminous Coated And 25% Paved, Add	50.04	
For Smooth-Flo, Add	63.10	
33 42 11 00-0873 LF 71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	222.35	34.98
For Bituminous Coated Pipe, Add	26.09	
For Bituminous Coated And 25% Paved, Add	54.93	
For Smooth-Flo, Add	69.28	
33 42 11 00-0874 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0842)		
33 42 11 00-0875 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0874)		
33 42 11 00-0876 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	178.54	33.03
For Bituminous Coated Pipe, Add	22.90	
For Bituminous Coated And 25% Paved, Add	69.63	
For Smooth-Flo, Add	77.87	
33 42 11 00-0877 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	195.09	34.98
For Bituminous Coated Pipe, Add	25.07	
For Bituminous Coated And 25% Paved, Add	76.20	
For Smooth-Flo, Add	85.22	
33 42 11 00-0878 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	241.12	42.75
For Bituminous Coated Pipe, Add	31.48	
For Bituminous Coated And 25% Paved, Add	95.71	
For Smooth-Flo, Add	107.04	
33 42 11 00-0879 LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	292.42	62.18
For Bituminous Coated Pipe, Add	33.75	
For Bituminous Coated And 25% Paved, Add	102.60	
For Smooth-Flo, Add	114.75	
33 42 11 00-0880 LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	316.70	68.01
For Bituminous Coated Pipe, Add	36.13	
For Bituminous Coated And 25% Paved, Add	109.85	
For Smooth-Flo, Add	122.86	
33 42 11 00-0881 LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	338.40	72.87
For Bituminous Coated Pipe, Add	38.53	
For Bituminous Coated And 25% Paved, Add	117.13	
For Smooth-Flo, Add	131.00	
33 42 11 00-0882 LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	360.03	77.73
For Bituminous Coated Pipe, Add	40.91	
For Bituminous Coated And 25% Paved, Add	124.38	
For Smooth-Flo, Add	139.11	
33 42 11 00-0883 LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	382.34	82.59
For Bituminous Coated Pipe, Add	43.29	
For Bituminous Coated And 25% Paved, Add	131.60	
For Smooth-Flo, Add	147.19	
33 42 11 00-0884 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0874)		
33 42 11 00-0885 LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	232.39	34.98
For Bituminous Coated Pipe, Add	32.53	
For Bituminous Coated And 25% Paved, Add	85.22	
For Smooth-Flo, Add	100.83	
33 42 11 00-0886 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	282.49	42.75
For Bituminous Coated Pipe, Add	39.76	
For Bituminous Coated And 25% Paved, Add	104.16	
For Smooth-Flo, Add	123.24	
33 42 11 00-0887 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	337.46	62.18
For Bituminous Coated Pipe, Add	42.76	
For Bituminous Coated And 25% Paved, Add	112.03	
For Smooth-Flo, Add	132.55	
33 42 11 00-0888 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	365.38	68.01
For Bituminous Coated Pipe, Add	45.87	
For Bituminous Coated And 25% Paved, Add	120.18	
For Smooth-Flo, Add	142.20	
33 42 11 00-0889 LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	390.72	72.87
For Bituminous Coated Pipe, Add	48.99	
For Bituminous Coated And 25% Paved, Add	128.36	
For Smooth-Flo, Add	151.88	
33 42 11 00-0890 LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	416.01	77.73
For Bituminous Coated Pipe, Add	52.11	
For Bituminous Coated And 25% Paved, Add	136.53	
For Smooth-Flo, Add	161.54	
33 42 11 00-0891 LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	441.96	82.59
For Bituminous Coated Pipe, Add	55.21	
For Bituminous Coated And 25% Paved, Add	144.66	
For Smooth-Flo, Add	171.16	
33 42 11 00-0892 LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	470.74	87.45
For Bituminous Coated Pipe, Add	58.35	
For Bituminous Coated And 25% Paved, Add	152.88	
For Smooth-Flo, Add	180.89	
33 42 11 00-0893 LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	501.67	97.16
For Bituminous Coated Pipe, Add	61.47	
For Bituminous Coated And 25% Paved, Add	161.05	
For Smooth-Flo, Add	190.55	



	Utilities	33	CS
	Stormwater Utilities	33 40	
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0894	LF		137" x 87" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	533.76 64.90 170.03 201.18	106.88
33 42 11 00-0895			10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0874)</small>		
33 42 11 00-0896	LF		81" x 59" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	379.31 51.13 121.68 132.17	62.18
33 42 11 00-0897	LF		87" x 63" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	410.69 54.93 130.74 142.00	68.01
33 42 11 00-0898	LF		95" x 67" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	439.46 58.74 139.81 151.85	72.87
33 42 11 00-0899	LF		103" x 71" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	468.12 62.53 148.83 161.65	77.73
33 42 11 00-0900	LF		112" x 75" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	497.54 66.33 157.87 171.46	82.59
33 42 11 00-0901	LF		117" x 79" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	529.71 70.15 166.95 181.33	87.45
33 42 11 00-0902	LF		128" x 83" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	564.08 73.95 176.00 191.16	97.16
33 42 11 00-0903	LF		137" x 87" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	599.33 78.01 185.66 201.66	106.88
33 42 11 00-0904	LF		142" x 91" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	637.43 82.89 197.27 214.26	116.60
33 42 11 00-0905			125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0942)</small>		
33 42 11 00-0906			12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0905)</small>		
33 42 11 00-0907	LF		81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	341.57 43.58 106.34 135.32	62.18
33 42 11 00-0908	LF		87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	369.08 46.61 113.73 144.72	68.01
33 42 11 00-0909	LF		95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	393.78 49.61 121.04 154.03	72.87
33 42 11 00-0910	LF		103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	418.47 52.60 128.35 163.33	77.73
33 42 11 00-0911	LF		112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	443.98 55.62 135.71 172.69	82.59
33 42 11 00-0912	LF		117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	472.42 58.69 143.20 182.23	87.45
33 42 11 00-0913	LF		128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	503.02 61.74 150.64 191.70	97.16
33 42 11 00-0914	LF		137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	537.09 65.56 159.97 203.57	106.88

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0915 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0905)</small>		
33 42 11 00-0916 LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	387.89	62.18
For Bituminous Coated Pipe, Add	52.84	
For Bituminous Coated And 25% Paved, Add	119.43	
For Smooth-Flo, Add	129.73	
33 42 11 00-0917 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	419.10	68.01
For Bituminous Coated Pipe, Add	56.61	
For Bituminous Coated And 25% Paved, Add	127.95	
For Smooth-Flo, Add	138.99	
33 42 11 00-0918 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	447.57	72.87
For Bituminous Coated Pipe, Add	60.36	
For Bituminous Coated And 25% Paved, Add	136.42	
For Smooth-Flo, Add	148.19	
33 42 11 00-0919 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	476.13	77.73
For Bituminous Coated Pipe, Add	64.13	
For Bituminous Coated And 25% Paved, Add	144.94	
For Smooth-Flo, Add	157.45	
33 42 11 00-0920 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	504.78	82.59
For Bituminous Coated Pipe, Add	67.78	
For Bituminous Coated And 25% Paved, Add	153.18	
For Smooth-Flo, Add	166.39	
33 42 11 00-0921 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	537.49	87.45
For Bituminous Coated Pipe, Add	71.70	
For Bituminous Coated And 25% Paved, Add	162.05	
For Smooth-Flo, Add	176.03	
33 42 11 00-0922 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	571.93	97.16
For Bituminous Coated Pipe, Add	75.52	
For Bituminous Coated And 25% Paved, Add	170.68	
For Smooth-Flo, Add	185.40	
33 42 11 00-0923 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	609.80	106.88
For Bituminous Coated Pipe, Add	80.10	
For Bituminous Coated And 25% Paved, Add	181.04	
For Smooth-Flo, Add	196.66	
33 42 11 00-0924 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	645.17	116.60
For Bituminous Coated Pipe, Add	84.43	
For Bituminous Coated And 25% Paved, Add	190.82	
For Smooth-Flo, Add	207.29	
33 42 11 00-0925 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0842)</small>		
33 42 11 00-0926 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0925)</small>		
33 42 11 00-0927 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	61.41	9.92
33 42 11 00-0928 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	70.15	10.82
33 42 11 00-0929 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	81.90	11.72
33 42 11 00-0930 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	92.91	12.62
33 42 11 00-0931 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	120.02	16.23
33 42 11 00-0932 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	157.67	21.37
33 42 11 00-0933 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0925)</small>		
33 42 11 00-0934 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	69.70	9.92
33 42 11 00-0935 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	80.27	10.82
33 42 11 00-0936 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	93.20	11.72
33 42 11 00-0937 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	106.05	12.62
33 42 11 00-0938 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	136.35	16.23
33 42 11 00-0939 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	177.10	21.37
33 42 11 00-0940 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	206.60	25.27
33 42 11 00-0941 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0925)</small>		
33 42 11 00-0942 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	105.08	10.82
33 42 11 00-0943 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	122.59	11.72
33 42 11 00-0944 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	139.33	12.62
33 42 11 00-0945 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	177.89	16.23
33 42 11 00-0946 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	227.27	21.37
33 42 11 00-0947 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	265.03	25.27
33 42 11 00-0948 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	312.47	29.15
33 42 11 00-0949 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	347.01	33.03
33 42 11 00-0950 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0925)</small>		
33 42 11 00-0951 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	266.62	21.37
33 42 11 00-0952 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	310.95	25.27
33 42 11 00-0953 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	364.52	29.15
33 42 11 00-0954 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	405.86	33.03
33 42 11 00-0955 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	444.59	34.98



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0956 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0842)</small>		
33 42 11 00-0957 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0956)</small>		
33 42 11 00-0958 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	350.43	33.03
33 42 11 00-0959 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	382.83	34.98
33 42 11 00-0960 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	478.92	42.75
33 42 11 00-0961 LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	547.01	62.18
33 42 11 00-0962 LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	588.95	68.01
33 42 11 00-0963 LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	628.38	72.87
33 42 11 00-0964 LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	667.63	77.73
33 42 11 00-0965 LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	707.67	82.59
33 42 11 00-0966 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0956)</small>		
33 42 11 00-0967 LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	477.72	34.98
33 42 11 00-0968 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	584.54	42.75
33 42 11 00-0969 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	661.97	62.18
33 42 11 00-0970 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	713.07	68.01
33 42 11 00-0971 LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	761.71	72.87
33 42 11 00-0972 LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	810.28	77.73
33 42 11 00-0973 LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	859.44	82.59
33 42 11 00-0974 LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	911.58	87.45
33 42 11 00-0975 LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	965.79	97.16
33 42 11 00-0976 LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,023.47	106.88
33 42 11 00-0977 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0956)</small>		
33 42 11 00-0978 LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	766.26	62.18
33 42 11 00-0979 LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	825.99	68.01
33 42 11 00-0980 LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	883.25	72.87
33 42 11 00-0981 LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	940.19	77.73
33 42 11 00-0982 LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	997.94	82.59
33 42 11 00-0983 LF 117" x 79" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,058.61	87.45
33 42 11 00-0984 LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,121.41	97.16
33 42 11 00-0985 LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,186.92	106.88
33 42 11 00-0986 LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,261.37	116.60
33 42 11 00-0987 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0842)</small>		
33 42 11 00-0988 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0987)</small>		
33 42 11 00-0989 LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	652.59	62.18
33 42 11 00-0990 LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	701.35	68.01
33 42 11 00-0991 LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	747.06	72.87
33 42 11 00-0992 LF 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	792.71	77.73
33 42 11 00-0993 LF 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	839.34	82.59
33 42 11 00-0994 LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	889.30	87.45
33 42 11 00-0995 LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	941.25	97.16
33 42 11 00-0996 LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,002.10	106.88
33 42 11 00-0997 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0987)</small>		
33 42 11 00-0998 LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	763.82	62.18
33 42 11 00-0999 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	821.42	68.01
33 42 11 00-1000 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	876.16	72.87
33 42 11 00-1001 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	931.13	77.73
33 42 11 00-1002 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	985.36	82.59
33 42 11 00-1003 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,045.51	87.45
33 42 11 00-1004 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,106.72	97.16
33 42 11 00-1005 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,176.82	106.88
33 42 11 00-1006 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,242.35	116.60
33 42 11 00-1007 Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-0498)</small>		
33 42 11 00-1008 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1007)</small>		
33 42 11 00-1009 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1008)</small>		
33 42 11 00-1010 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	36.03	9.46
For 1/2 Bituminous Coated And 25% Paved, Add	6.61	
33 42 11 00-1011 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	40.96	9.92
For 1/2 Bituminous Coated And 25% Paved, Add	8.32	
33 42 11 00-1012 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	46.08	10.82
For 1/2 Bituminous Coated And 25% Paved, Add	10.09	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1013	LF	21"	16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	52.64 12.06	11.72
33 42 11 00-1014	LF	24"	16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	58.36 13.59	12.62
33 42 11 00-1015	LF	30"	16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	76.91 17.63	16.23
33 42 11 00-1016	LF	36"	16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	100.39 22.24	21.37
33 42 11 00-1017	LF	42"	16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	114.57 26.30	25.27
33 42 11 00-1018	LF	48"	16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	128.75 29.47	29.15
33 42 11 00-1019			14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1008)</small>		
33 42 11 00-1020	LF	12"	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	39.60 6.28	9.46
33 42 11 00-1021	LF	15"	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	45.37 7.88	9.92
33 42 11 00-1022	LF	18"	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	51.33 9.52	10.82
33 42 11 00-1023	LF	21"	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	58.73 11.32	11.72
33 42 11 00-1024	LF	24"	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	65.43 12.82	12.62
33 42 11 00-1025	LF	30"	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	85.56 16.47	16.23
33 42 11 00-1026	LF	36"	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	110.86 20.64	21.37
33 42 11 00-1027	LF	42"	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	126.63 24.31	25.27
33 42 11 00-1028	LF	48"	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	142.48 27.30	29.15
33 42 11 00-1029	LF	54"	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	170.60 33.57	33.03
33 42 11 00-1030			12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1008)</small>		
33 42 11 00-1031	LF	18"	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	62.37 8.87	10.82
33 42 11 00-1032	LF	21"	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	71.62 10.50	11.72
33 42 11 00-1033	LF	24"	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	80.07 11.90	12.62
33 42 11 00-1034	LF	30"	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	103.84 15.17	16.23
33 42 11 00-1035	LF	36"	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	132.91 18.83	21.37
33 42 11 00-1036	LF	42"	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	152.18 22.08	25.27
33 42 11 00-1037	LF	48"	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	171.63 24.90	29.15
33 42 11 00-1038	LF	54"	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	203.89 30.07	33.03
33 42 11 00-1039	LF	60"	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	222.69 32.88	34.98
33 42 11 00-1040	LF	66"	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	271.79 40.44	42.75
33 42 11 00-1041			10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1008)</small>		
33 42 11 00-1042	LF	36"	10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	152.73 20.62	21.37
33 42 11 00-1043	LF	42"	10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	175.37 24.17	25.27
33 42 11 00-1044	LF	48"	10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	197.96 27.29	29.15
33 42 11 00-1045	LF	54"	10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	233.41 32.52	33.03
33 42 11 00-1046	LF	60"	10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	255.55 35.67	34.98
33 42 11 00-1047	LF	66"	10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	307.87 43.04	42.75
33 42 11 00-1048	LF	72"	10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	363.99 46.14	62.18
33 42 11 00-1049			3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1007)</small>		



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1050 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1049)</small>		
33 42 11 00-1051 LF 36" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	115.97	21.37
For 1/2 Bituminous Coated And 25% Paved, Add	24.72	
33 42 11 00-1052 LF 42" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	132.42	25.27
For 1/2 Bituminous Coated And 25% Paved, Add	29.03	
33 42 11 00-1053 LF 48" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	148.81	29.15
For 1/2 Bituminous Coated And 25% Paved, Add	32.55	
33 42 11 00-1054 LF 54" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	177.63	33.03
For 1/2 Bituminous Coated And 25% Paved, Add	39.76	
33 42 11 00-1055 LF 60" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	193.54	34.98
For 1/2 Bituminous Coated And 25% Paved, Add	43.32	
33 42 11 00-1056 LF 66" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	242.70	42.75
For 1/2 Bituminous Coated And 25% Paved, Add	55.65	
33 42 11 00-1057 LF 72" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	293.13	62.18
For 1/2 Bituminous Coated And 25% Paved, Add	59.31	
33 42 11 00-1058 LF 78" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	315.99	68.01
For 1/2 Bituminous Coated And 25% Paved, Add	62.99	
33 42 11 00-1059 LF 84" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	336.25	72.87
For 1/2 Bituminous Coated And 25% Paved, Add	66.68	
33 42 11 00-1060 LF 90" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	356.50	77.73
For 1/2 Bituminous Coated And 25% Paved, Add	70.36	
33 42 11 00-1061 LF 96" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	377.43	82.59
For 1/2 Bituminous Coated And 25% Paved, Add	74.04	
33 42 11 00-1062 LF 102" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	401.12	87.45
For 1/2 Bituminous Coated And 25% Paved, Add	77.75	
33 42 11 00-1063 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1049)</small>		
33 42 11 00-1064 LF 54" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	195.54	33.03
For 1/2 Bituminous Coated And 25% Paved, Add	34.46	
33 42 11 00-1065 LF 60" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	213.33	34.98
For 1/2 Bituminous Coated And 25% Paved, Add	37.62	
33 42 11 00-1066 LF 66" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	264.48	42.75
For 1/2 Bituminous Coated And 25% Paved, Add	47.36	
33 42 11 00-1067 LF 72" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	316.86	62.18
For 1/2 Bituminous Coated And 25% Paved, Add	50.62	
33 42 11 00-1068 LF 78" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	341.64	68.01
For 1/2 Bituminous Coated And 25% Paved, Add	53.87	
33 42 11 00-1069 LF 84" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	363.92	72.87
For 1/2 Bituminous Coated And 25% Paved, Add	57.16	
33 42 11 00-1070 LF 90" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	386.05	77.73
For 1/2 Bituminous Coated And 25% Paved, Add	60.41	
33 42 11 00-1071 LF 96" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	408.90	82.59
For 1/2 Bituminous Coated And 25% Paved, Add	63.67	
33 42 11 00-1072 LF 102" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	434.52	87.45
For 1/2 Bituminous Coated And 25% Paved, Add	66.95	
33 42 11 00-1073 LF 108" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	462.35	97.16
For 1/2 Bituminous Coated And 25% Paved, Add	70.22	
33 42 11 00-1074 LF 114" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	489.59	106.88
For 1/2 Bituminous Coated And 25% Paved, Add	73.44	
33 42 11 00-1075 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1049)</small>		
33 42 11 00-1076 LF 60" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	257.33	34.98
For 1/2 Bituminous Coated And 25% Paved, Add	50.46	
33 42 11 00-1077 LF 66" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	313.19	42.75
For 1/2 Bituminous Coated And 25% Paved, Add	61.73	
33 42 11 00-1078 LF 72" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	369.81	62.18
For 1/2 Bituminous Coated And 25% Paved, Add	66.21	
33 42 11 00-1079 LF 78" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	398.90	68.01
For 1/2 Bituminous Coated And 25% Paved, Add	70.71	
33 42 11 00-1080 LF 84" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	425.42	72.87
For 1/2 Bituminous Coated And 25% Paved, Add	75.23	
33 42 11 00-1081 LF 90" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	451.86	77.73
For 1/2 Bituminous Coated And 25% Paved, Add	79.73	
33 42 11 00-1082 LF 96" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	478.99	82.59
For 1/2 Bituminous Coated And 25% Paved, Add	84.22	
33 42 11 00-1083 LF 102" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	508.88	87.45
For 1/2 Bituminous Coated And 25% Paved, Add	88.74	
33 42 11 00-1084 LF 108" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	540.96	97.16
For 1/2 Bituminous Coated And 25% Paved, Add	93.24	
33 42 11 00-1085 LF 114" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	572.50	106.88
For 1/2 Bituminous Coated And 25% Paved, Add	97.71	
33 42 11 00-1086 LF 120" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	603.02	116.60
For 1/2 Bituminous Coated And 25% Paved, Add	102.23	
33 42 11 00-1087 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1049)</small>		
33 42 11 00-1088 LF 72" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	419.20	62.18
For 1/2 Bituminous Coated And 25% Paved, Add	81.27	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1089	LF	78" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	452.26	68.01
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	86.96	
33 42 11 00-1090	LF	84" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	482.85	72.87
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	92.70	
33 42 11 00-1091	LF	90" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	513.30	77.73
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	98.41	
33 42 11 00-1092	LF	96" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	544.53	82.59
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	104.13	
33 42 11 00-1093	LF	102" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	578.49	87.45
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	109.87	
33 42 11 00-1094	LF	108" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	614.58	97.16
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	115.57	
33 42 11 00-1095	LF	114" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	650.16	106.88
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	121.24	
33 42 11 00-1096	LF	120" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	684.76	116.60
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	126.98	
33 42 11 00-1097	LF	126" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	721.11	126.31
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	132.68	
33 42 11 00-1098	LF	132" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	759.96	136.03
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	138.41	
33 42 11 00-1099	LF	138" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	801.78	145.75
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	144.15	
33 42 11 00-1100		125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping		
		<small>(33 42 11 00-1007)</small>		
33 42 11 00-1101		16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping		
		<small>(33 42 11 00-1100)</small>		
33 42 11 00-1102	LF	48" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	149.38	29.15
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	40.33	
33 42 11 00-1103	LF	54" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	178.68	33.03
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	49.42	
33 42 11 00-1104	LF	60" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	194.45	34.98
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	53.74	
33 42 11 00-1105	LF	66" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	240.68	42.75
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	67.65	
33 42 11 00-1106	LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	290.87	62.18
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	72.06	
33 42 11 00-1107	LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	313.47	68.01
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	76.48	
33 42 11 00-1108	LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	333.35	72.87
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	80.86	
33 42 11 00-1109	LF	90" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	353.16	77.73
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	85.21	
33 42 11 00-1110	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	373.89	82.59
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	89.65	
33 42 11 00-1111	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	397.52	87.45
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	94.19	
33 42 11 00-1112		14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping		
		<small>(33 42 11 00-1100)</small>		
33 42 11 00-1113	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	201.06	33.03
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	46.59	
33 42 11 00-1114	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	219.39	34.98
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	50.87	
33 42 11 00-1115	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	267.85	42.75
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	62.61	
33 42 11 00-1116	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	320.26	62.18
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	66.84	
33 42 11 00-1117	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	345.48	68.01
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	71.21	
33 42 11 00-1118	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	367.86	72.87
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	75.52	
33 42 11 00-1119	LF	90" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	388.95	77.73
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	79.39	
33 42 11 00-1120	LF	96" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	413.25	82.59
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	84.10	
33 42 11 00-1121	LF	102" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	438.99	87.45
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	88.40	
33 42 11 00-1122	LF	108" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	466.87	97.16
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	92.66	
33 42 11 00-1123	LF	114" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	494.64	106.88
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	97.02	
33 42 11 00-1124		12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping		
		<small>(33 42 11 00-1100)</small>		
33 42 11 00-1125	LF	60" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	266.02	34.98
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	56.13	
33 42 11 00-1126	LF	66" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	319.25	42.75
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	67.36	



	Utilities	33
	Stormwater Utilities	33 40
	Stormwater Conveyance	33 42

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1127	LF		72" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	376.55	62.18
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	72.32	
33 42 11 00-1128	LF		78" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	406.07	68.01
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	77.23	
33 42 11 00-1129	LF		84" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	432.86	72.87
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	82.11	
33 42 11 00-1130	LF		90" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	459.87	77.73
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	87.06	
33 42 11 00-1131	LF		96" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	487.44	82.59
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	91.96	
33 42 11 00-1132	LF		102" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	517.66	87.45
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	96.86	
33 42 11 00-1133	LF		108" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	550.28	97.16
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	101.80	
33 42 11 00-1134	LF		114" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	582.40	106.88
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	106.71	
33 42 11 00-1135	LF		120" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	613.29	116.60
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	111.62	
33 42 11 00-1136			10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1100)		
33 42 11 00-1137	LF		72" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	430.44	62.18
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	87.74	
33 42 11 00-1138	LF		78" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	464.98	68.01
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	94.08	
33 42 11 00-1139	LF		84" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	496.45	72.87
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	100.30	
33 42 11 00-1140	LF		90" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	527.71	77.73
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	106.46	
33 42 11 00-1141	LF		96" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	559.85	82.59
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	112.67	
33 42 11 00-1142	LF		102" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	594.55	87.45
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	118.85	
33 42 11 00-1143	LF		108" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	631.61	97.16
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	125.06	
33 42 11 00-1144	LF		114" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	668.24	106.88
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	131.26	
33 42 11 00-1145	LF		120" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	703.54	116.60
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	137.43	
33 42 11 00-1146	LF		126" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	747.70	126.31
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	145.59	
33 42 11 00-1147	LF		132" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	789.18	136.03
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	152.30	
33 42 11 00-1148	LF		138" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	834.50	145.75
			<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	159.27	
33 42 11 00-1149			Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1007)		
33 42 11 00-1150			16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1149)		
33 42 11 00-1151	LF		18" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	52.10	10.82
33 42 11 00-1152	LF		21" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	59.61	11.72
33 42 11 00-1153	LF		24" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	66.61	12.62
33 42 11 00-1154	LF		30" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	86.97	16.23
33 42 11 00-1155	LF		36" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	112.20	21.37
33 42 11 00-1156	LF		42" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	128.21	25.27
33 42 11 00-1157	LF		48" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	144.60	29.15
33 42 11 00-1158	LF		54" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	171.54	33.03
33 42 11 00-1159	LF		60" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	187.41	34.98
33 42 11 00-1160			14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1149)		
33 42 11 00-1161	LF		18" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	57.29	10.82
33 42 11 00-1162	LF		21" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	65.67	11.72
33 42 11 00-1163	LF		24" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	73.47	12.62
33 42 11 00-1164	LF		30" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	95.56	16.23
33 42 11 00-1165	LF		36" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	122.54	21.37
33 42 11 00-1166	LF		42" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	140.29	25.27
33 42 11 00-1167	LF		48" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	158.40	29.15
33 42 11 00-1168	LF		54" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	187.06	33.03
33 42 11 00-1169	LF		60" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	204.72	34.98
33 42 11 00-1170	LF		66" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	248.89	42.75
33 42 11 00-1171	LF		72" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	300.60	62.18
33 42 11 00-1172	LF		78" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	324.88	68.01
33 42 11 00-1173			12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1149)		
33 42 11 00-1174	LF		30" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	112.96	16.23
33 42 11 00-1175	LF		36" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	143.38	21.37
33 42 11 00-1176	LF		42" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	164.70	25.27

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1177 LF 48" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	186.24	29.15
33 42 11 00-1178 LF 54" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	218.36	33.03
33 42 11 00-1179 LF 60" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	239.56	34.98
33 42 11 00-1180 LF 66" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	287.14	42.75
33 42 11 00-1181 LF 72" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	342.28	62.18
33 42 11 00-1182 LF 78" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	370.02	68.01
33 42 11 00-1183 LF 84" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	395.02	72.87
33 42 11 00-1184 LF 90" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	420.05	77.73
33 42 11 00-1185 LF 96" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	445.70	82.59
33 42 11 00-1186 LF 102" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	472.39	87.45
33 42 11 00-1187 Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-0498)		
33 42 11 00-1188 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1187)		
33 42 11 00-1189 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1188)		
33 42 11 00-1190 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	42.17	9.92
For 1/2 Bituminous Coated And 40% Paved, Add	10.75	
33 42 11 00-1191 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	47.16	10.82
For 1/2 Bituminous Coated And 40% Paved, Add	12.85	
33 42 11 00-1192 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	54.12	11.72
For 1/2 Bituminous Coated And 40% Paved, Add	15.45	
33 42 11 00-1193 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	60.85	12.62
For 1/2 Bituminous Coated And 40% Paved, Add	17.81	
33 42 11 00-1194 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	79.16	16.23
For 1/2 Bituminous Coated And 40% Paved, Add	22.62	
33 42 11 00-1195 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	104.53	21.37
For 1/2 Bituminous Coated And 40% Paved, Add	29.18	
33 42 11 00-1196 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1188)		
33 42 11 00-1197 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	46.58	9.92
For 1/2 Bituminous Coated And 40% Paved, Add	11.14	
33 42 11 00-1198 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	52.51	10.82
For 1/2 Bituminous Coated And 40% Paved, Add	13.35	
33 42 11 00-1199 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	60.15	11.72
For 1/2 Bituminous Coated And 40% Paved, Add	15.88	
33 42 11 00-1200 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	67.82	12.62
For 1/2 Bituminous Coated And 40% Paved, Add	18.31	
33 42 11 00-1201 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	87.85	16.23
For 1/2 Bituminous Coated And 40% Paved, Add	23.19	
33 42 11 00-1202 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	114.86	21.37
For 1/2 Bituminous Coated And 40% Paved, Add	29.54	
33 42 11 00-1203 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	132.28	25.27
For 1/2 Bituminous Coated And 40% Paved, Add	35.19	
33 42 11 00-1204 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1188)		
33 42 11 00-1205 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	63.41	10.82
For 1/2 Bituminous Coated And 40% Paved, Add	12.23	
33 42 11 00-1206 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	73.07	11.72
For 1/2 Bituminous Coated And 40% Paved, Add	14.53	
33 42 11 00-1207 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	82.46	12.62
For 1/2 Bituminous Coated And 40% Paved, Add	16.68	
33 42 11 00-1208 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	106.13	16.23
For 1/2 Bituminous Coated And 40% Paved, Add	21.05	
33 42 11 00-1209 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	136.95	21.37
For 1/2 Bituminous Coated And 40% Paved, Add	26.47	
33 42 11 00-1210 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	158.03	25.27
For 1/2 Bituminous Coated And 40% Paved, Add	31.37	
33 42 11 00-1211 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	185.07	29.15
For 1/2 Bituminous Coated And 40% Paved, Add	37.36	
33 42 11 00-1212 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	206.52	33.03
For 1/2 Bituminous Coated And 40% Paved, Add	41.18	
33 42 11 00-1213 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1188)		
33 42 11 00-1214 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	156.77	21.37
For 1/2 Bituminous Coated And 40% Paved, Add	27.86	
33 42 11 00-1215 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	181.16	25.27
For 1/2 Bituminous Coated And 40% Paved, Add	32.92	
33 42 11 00-1216 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	211.29	29.15
For 1/2 Bituminous Coated And 40% Paved, Add	38.87	
33 42 11 00-1217 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	236.17	33.03
For 1/2 Bituminous Coated And 40% Paved, Add	43.04	
33 42 11 00-1218 LF 71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	258.54	34.98
For 1/2 Bituminous Coated And 40% Paved, Add	47.20	



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1219 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch ^(33 42 11 00-1187)		
33 42 11 00-1220 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch ^(33 42 11 00-1219)		
33 42 11 00-1221 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	199.08 61.86	33.03
33 42 11 00-1222 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	217.54 67.68	34.98
33 42 11 00-1223 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	269.33 85.01	42.75
33 42 11 00-1224 LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	322.65 91.13	62.18
33 42 11 00-1225 LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	349.08 97.58	68.01
33 42 11 00-1226 LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	372.91 104.04	72.87
33 42 11 00-1227 LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	396.66 110.47	77.73
33 42 11 00-1228 LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	421.16 116.91	82.59
33 42 11 00-1229 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch ^(33 42 11 00-1219)		
33 42 11 00-1230 LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	261.57 76.92	34.98
33 42 11 00-1231 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	318.14 94.01	42.75
33 42 11 00-1232 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	375.81 101.11	62.18
33 42 11 00-1233 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	406.48 108.45	68.01
33 42 11 00-1234 LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	434.65 115.85	72.87
33 42 11 00-1235 LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	462.74 123.22	77.73
33 42 11 00-1236 LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	491.48 130.56	82.59
33 42 11 00-1237 LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	523.05 137.97	87.45
33 42 11 00-1238 LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	556.78 145.34	97.16
33 42 11 00-1239 LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	591.96 153.45	106.88
33 42 11 00-1240 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch ^(33 42 11 00-1219)		
33 42 11 00-1241 LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	425.16 109.44	62.18
33 42 11 00-1242 LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	459.94 117.58	68.01
33 42 11 00-1243 LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	492.14 125.74	72.87
33 42 11 00-1244 LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	524.20 133.85	77.73
33 42 11 00-1245 LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	559.75 142.97	82.59
33 42 11 00-1246 LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	592.63 150.15	87.45
33 42 11 00-1247 LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	630.43 158.30	97.16
33 42 11 00-1248 LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	669.28 166.98	106.88
33 42 11 00-1249 LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	711.75 177.42	116.60
33 42 11 00-1250 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch ^(33 42 11 00-1187)		
33 42 11 00-1251 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch ^(33 42 11 00-1250)		
33 42 11 00-1252 LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	380.79 99.51	62.18
33 42 11 00-1253 LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	411.02 106.42	68.01
33 42 11 00-1254 LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	438.45 113.27	72.87

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1255 LF 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	465.83	77.73
For 1/2 Bituminous Coated And 40% Paved, Add	120.11	
33 42 11 00-1256 LF 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	494.04	82.59
For 1/2 Bituminous Coated And 40% Paved, Add	126.99	
33 42 11 00-1257 LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	525.24	87.45
For 1/2 Bituminous Coated And 40% Paved, Add	134.00	
33 42 11 00-1258 LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	558.60	97.16
For 1/2 Bituminous Coated And 40% Paved, Add	140.97	
33 42 11 00-1259 LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	596.10	106.88
For 1/2 Bituminous Coated And 40% Paved, Add	149.70	
33 42 11 00-1260 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1250)</small>		
33 42 11 00-1261 LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	435.46	62.18
For 1/2 Bituminous Coated And 40% Paved, Add	110.37	
33 42 11 00-1262 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	470.07	68.01
For 1/2 Bituminous Coated And 40% Paved, Add	118.25	
33 42 11 00-1263 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	501.90	72.87
For 1/2 Bituminous Coated And 40% Paved, Add	126.08	
33 42 11 00-1264 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	533.87	77.73
For 1/2 Bituminous Coated And 40% Paved, Add	133.96	
33 42 11 00-1265 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	565.81	82.59
For 1/2 Bituminous Coated And 40% Paved, Add	141.57	
33 42 11 00-1266 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	602.02	87.45
For 1/2 Bituminous Coated And 40% Paved, Add	149.76	
33 42 11 00-1267 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	639.93	97.16
For 1/2 Bituminous Coated And 40% Paved, Add	157.74	
33 42 11 00-1268 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	681.91	106.88
For 1/2 Bituminous Coated And 40% Paved, Add	167.31	
33 42 11 00-1269 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	721.18	116.60
For 1/2 Bituminous Coated And 40% Paved, Add	176.36	
33 42 11 00-1270 Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-0498)</small>		
33 42 11 00-1271 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1270)</small>		
33 42 11 00-1272 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1271)</small>		
33 42 11 00-1273 LF 6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	21.47	5.41
For Bituminous Coated Pipe, Add	2.04	
33 42 11 00-1274 LF 8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	27.58	6.76
For Bituminous Coated Pipe, Add	2.78	
33 42 11 00-1275 LF 10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	35.71	8.11
For Bituminous Coated Pipe, Add	3.66	
33 42 11 00-1276 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1271)</small>		
33 42 11 00-1277 LF 6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	23.82	5.41
For Bituminous Coated Pipe, Add	2.03	
33 42 11 00-1278 LF 8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	30.89	6.76
For Bituminous Coated Pipe, Add	2.77	
33 42 11 00-1279 LF 10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	40.13	8.11
For Bituminous Coated Pipe, Add	3.66	
33 42 11 00-1280 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1270)</small>		
33 42 11 00-1281 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1280)</small>		
33 42 11 00-1282 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	41.42	9.46
For Bituminous Coated Pipe, Add	4.02	
33 42 11 00-1283 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	47.66	9.92
For Bituminous Coated Pipe, Add	5.05	
33 42 11 00-1284 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	54.27	10.82
For Bituminous Coated Pipe, Add	6.14	
33 42 11 00-1285 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	62.38	11.72
For Bituminous Coated Pipe, Add	7.33	
33 42 11 00-1286 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	69.63	12.62
For Bituminous Coated Pipe, Add	8.31	
33 42 11 00-1287 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1280)</small>		
33 42 11 00-1288 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	46.45	9.46
For Bituminous Coated Pipe, Add	3.94	
33 42 11 00-1289 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	54.07	9.92
For Bituminous Coated Pipe, Add	4.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1290 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	61.96 6.01	10.82
33 42 11 00-1291 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	71.28 7.13	11.72
33 42 11 00-1292 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	79.85 8.10	12.62
33 42 11 00-1293 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	103.93 10.39	16.23
33 42 11 00-1294 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	133.20 12.91	21.37
33 42 11 00-1295 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1280)</small>		
33 42 11 00-1296 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	99.40 7.69	12.62
33 42 11 00-1297 LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	128.26 9.78	16.23
33 42 11 00-1298 LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	162.42 12.06	21.37
33 42 11 00-1299 LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	187.15 14.18	25.27
33 42 11 00-1300 LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	211.65 16.05	29.15
33 42 11 00-1301 LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	248.91 19.04	33.03
33 42 11 00-1302 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1280)</small>		
33 42 11 00-1303 LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	193.56 11.86	21.37
33 42 11 00-1304 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	223.43 13.92	25.27
33 42 11 00-1305 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	253.23 15.79	29.15
33 42 11 00-1306 LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	295.68 18.53	33.03
33 42 11 00-1307 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	325.04 20.42	34.98
33 42 11 00-1308 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1270)</small>		
33 42 11 00-1309 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1308)</small>		
33 42 11 00-1310 LF 30" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	102.34	16.23
33 42 11 00-1311 LF 36" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	131.21	21.37
33 42 11 00-1312 LF 42" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	150.10	25.27
33 42 11 00-1313 LF 48" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	169.96	29.15
33 42 11 00-1314 LF 54" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	200.61	33.03
33 42 11 00-1315 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1308)</small>		
33 42 11 00-1316 LF 30" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	115.16	16.23
33 42 11 00-1317 LF 36" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	149.49	21.37
33 42 11 00-1318 LF 42" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	171.32	25.27
33 42 11 00-1319 LF 48" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	193.12	29.15
33 42 11 00-1320 LF 54" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	227.74	33.03
33 42 11 00-1321 LF 60" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	249.00	34.98
33 42 11 00-1322 LF 66" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	302.82	42.75
33 42 11 00-1323 LF 72" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	358.45	62.18
33 42 11 00-1324 LF 78" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	386.54	68.01
33 42 11 00-1325 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1308)</small>		
33 42 11 00-1326 LF 30" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	145.07	16.23
33 42 11 00-1327 LF 36" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	183.14	21.37
33 42 11 00-1328 LF 42" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	211.53	25.27
33 42 11 00-1329 LF 48" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	239.23	29.15
33 42 11 00-1330 LF 54" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	279.51	33.03
33 42 11 00-1331 LF 60" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	306.32	34.98
33 42 11 00-1332 LF 66" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	365.68	42.75
33 42 11 00-1333 LF 72" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	427.02	62.18
33 42 11 00-1334 LF 78" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	460.70	68.01
33 42 11 00-1335 LF 84" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	491.84	72.87
33 42 11 00-1336 LF 90" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	522.88	77.73
33 42 11 00-1337 LF 96" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	554.64	82.59

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

33 42 11 00-1338		10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1308)</small>		
33 42 11 00-1339	LF	60" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	366.61	34.98
33 42 11 00-1340	LF	66" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	429.46	42.75
33 42 11 00-1341	LF	72" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	496.52	62.18
33 42 11 00-1342	LF	78" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	535.93	68.01
33 42 11 00-1343	LF	84" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	572.71	72.87
33 42 11 00-1344	LF	90" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	609.46	77.73
33 42 11 00-1345	LF	96" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	646.90	82.59
33 42 11 00-1346	LF	102" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	687.13	87.45
33 42 11 00-1347	LF	108" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	729.54	97.16
33 42 11 00-1348		Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1270)</small>		
		Note: Contech ULTRA FLO. HS 20 and HS 25 vehicular loading.		
33 42 11 00-1349		16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1348)</small>		
33 42 11 00-1350	LF	18" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	71.53	10.82
33 42 11 00-1351	LF	21" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	76.94	11.72
33 42 11 00-1352	LF	24" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	92.56	12.62
33 42 11 00-1353	LF	27" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	106.87	14.42
33 42 11 00-1354	LF	30" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	119.89	16.23
33 42 11 00-1355	LF	33" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	133.61	18.03
33 42 11 00-1356		14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1348)</small>		
33 42 11 00-1357	LF	18" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	82.37	10.82
33 42 11 00-1358	LF	21" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	95.12	11.72
33 42 11 00-1359	LF	24" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	107.14	12.62
33 42 11 00-1360	LF	27" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	123.23	14.42
33 42 11 00-1361	LF	30" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	138.04	16.23
33 42 11 00-1362	LF	33" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	153.61	18.03
33 42 11 00-1363	LF	36" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	174.38	21.37
33 42 11 00-1364	LF	42" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	201.09	25.27
33 42 11 00-1365	LF	48" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	227.52	29.15
33 42 11 00-1366		12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1348)</small>		
33 42 11 00-1367	LF	30" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	173.52	16.23
33 42 11 00-1368	LF	33" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	192.56	18.03
33 42 11 00-1369	LF	36" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	216.93	21.37
33 42 11 00-1370	LF	42" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	250.77	25.27
33 42 11 00-1371	LF	48" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	284.30	29.15
33 42 11 00-1372	LF	54" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	392.30	33.03
33 42 11 00-1373	LF	60" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	431.70	34.98
33 42 11 00-1374		10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1348)</small>		
33 42 11 00-1375	LF	48" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	400.00	29.15
33 42 11 00-1376	LF	54" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	463.63	33.03
33 42 11 00-1377	LF	60" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	511.05	34.98
33 42 11 00-1378	LF	66" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	593.94	42.75
33 42 11 00-1379	LF	72" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	674.67	62.18
33 42 11 00-1380	LF	78" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	728.40	68.01
33 42 11 00-1381	LF	84" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	779.05	72.87
33 42 11 00-1382		Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-0498)</small>		
33 42 11 00-1383		2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1382)</small>		
33 42 11 00-1384		16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1383)</small>		
33 42 11 00-1385	LF	17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	49.94	9.92
		For Bituminous Coated Pipe, Add	5.06	
33 42 11 00-1386	LF	21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	56.44	10.82
		For Bituminous Coated Pipe, Add	6.04	
33 42 11 00-1387	LF	24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	64.85	11.72
		For Bituminous Coated Pipe, Add	7.19	
33 42 11 00-1388		14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1383)</small>		



	Utilities	33
	Stormwater Utilities	33 40
	Stormwater Conveyance	33 42

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1389	LF		17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	56.37 5.04	9.92
33 42 11 00-1390	LF		21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	62.61 5.81	10.82
33 42 11 00-1391	LF		24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	73.75 7.14	11.72
33 42 11 00-1392	LF		28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	83.20 8.19	12.62
33 42 11 00-1393	LF		35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	107.26 10.36	16.23
33 42 11 00-1394			12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch		
			<small>(33 42 11 00-1383)</small>		
33 42 11 00-1395	LF		28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	102.76 7.80	12.62
33 42 11 00-1396	LF		35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	131.65 9.84	16.23
33 42 11 00-1397	LF		42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	168.16 12.28	21.37
33 42 11 00-1398	LF		49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	194.71 14.52	25.27
33 42 11 00-1399			10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch		
			<small>(33 42 11 00-1383)</small>		
33 42 11 00-1400	LF		42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	199.26 11.85	21.37
33 42 11 00-1401	LF		49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	231.05 13.98	25.27
33 42 11 00-1402	LF		57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	268.53 16.38	29.15
33 42 11 00-1403	LF		64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	300.71 18.23	33.03
33 42 11 00-1404			3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1382)</small>		
33 42 11 00-1405			14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1404)</small>		
33 42 11 00-1406	LF		60" x 46" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	232.77	33.03
33 42 11 00-1407	LF		66" x 51" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	254.84	34.98
33 42 11 00-1408	LF		73" x 55" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	310.04	42.75
33 42 11 00-1409			12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1404)</small>		
33 42 11 00-1410	LF		60" x 46" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	284.53	33.03
33 42 11 00-1411	LF		66" x 51" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	312.16	34.98
33 42 11 00-1412	LF		73" x 55" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	372.65	42.75
33 42 11 00-1413	LF		81" x 59" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	434.51	62.18
33 42 11 00-1414	LF		87" x 63" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	468.73	68.01
33 42 11 00-1415	LF		95" x 67" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	500.40	72.87
33 42 11 00-1416			10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1404)</small>		
33 42 11 00-1417	LF		66" x 51" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	372.36	34.98
33 42 11 00-1418	LF		73" x 55" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	436.17	42.75
33 42 11 00-1419	LF		81" x 59" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	503.74	62.18
33 42 11 00-1420	LF		87" x 63" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	543.69	68.01
33 42 11 00-1421	LF		95" x 67" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	580.99	72.87
33 42 11 00-1422	LF		103" x 71" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	618.26	77.73
33 42 11 00-1423			Corrugated Steel Pipe Fittings <small>(33 42 11 00-0498)</small>		
			Note: Equivalent pipe-arch sizes are approximate.		
33 42 11 00-1424			Fabricate 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fittings <small>(33 42 11 00-1423)</small>		
			Note: Excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.		
33 42 11 00-1425	EA		Fabricate 6" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	82.12	
33 42 11 00-1426	EA		Fabricate 8" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	102.99	
33 42 11 00-1427	EA		Fabricate 10" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	123.85	
33 42 11 00-1428	EA		Fabricate 12" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	146.03	
33 42 11 00-1429	EA		Fabricate 15" (Or 17" x 13" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	177.31	
33 42 11 00-1430	EA		Fabricate 18" (Or 21" x 15" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	208.58	
33 42 11 00-1431	EA		Fabricate 21" (Or 24" x 18" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	239.88	
33 42 11 00-1432	EA		Fabricate 24" (Or 28" x 20" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	271.15	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1433 EA Fabricate 30" (Or 35" x 24" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	353.30	
33 42 11 00-1434 EA Fabricate 36" (Or 42" x 29" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	421.07	
33 42 11 00-1435 EA Fabricate 42" (Or 49" x 33" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	488.87	
33 42 11 00-1436 EA Fabricate 48" (Or 57" x 38" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	632.28	
33 42 11 00-1437 EA Fabricate 54" (Or 64" x 43" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	713.11	
33 42 11 00-1438 EA Fabricate 60" (Or 71" x 47" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	796.55	
33 42 11 00-1439 EA Fabricate 66" (Or 77" x 52" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	882.59	
33 42 11 00-1440 EA Fabricate 72" (Or 83" x 57" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,075.53	
33 42 11 00-1441 EA Fabricate 78" (Or 87" x 63" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,173.29	
33 42 11 00-1442 EA Fabricate 84" (Or 95" x 67" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,273.67	
33 42 11 00-1443 EA Fabricate 90" (Or 103" x 71" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,563.09	
33 42 11 00-1444 EA Fabricate 96" (Or 112" x 75" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,677.83	
33 42 11 00-1445 EA Fabricate 102" (Or 117" x 79" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,793.84	
33 42 11 00-1446 EA Fabricate 108" (Or 128" x 83" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,909.86	
33 42 11 00-1447 EA Fabricate 114" (Or 137" x 87" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	2,024.58	
33 42 11 00-1448 EA Fabricate 120" (Or 142" x 91" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	2,140.62	
33 42 11 00-1449 EA Fabricate 126" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	2,262.95	
33 42 11 00-1450 EA Fabricate 132" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	2,392.27	
33 42 11 00-1451 EA Fabricate 138" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	2,528.96	

33 42 11 00-1452**Fabricate Corrugated Steel Pipe Tees Or Laterals**

(33 42 11 00-1423)

Note: Fabrication charge excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.

33 42 11 00-1453 EA Fabricate 6" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	106.91	
33 42 11 00-1454 EA Fabricate 8" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	136.89	
33 42 11 00-1455 EA Fabricate 10" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	166.85	
33 42 11 00-1456 EA Fabricate 12" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	196.86	
33 42 11 00-1457 EA Fabricate 15" (Or 17" x 13" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	239.88	
33 42 11 00-1458 EA Fabricate 18" (Or 21" x 15" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	284.19	
33 42 11 00-1459 EA Fabricate 21" (Or 24" x 18" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	328.54	
33 42 11 00-1460 EA Fabricate 24" (Or 28" x 20" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	372.83	
33 42 11 00-1461 EA Fabricate 30" (Or 35" x 24" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	488.87	
33 42 11 00-1462 EA Fabricate 36" (Or 42" x 29" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	582.74	
33 42 11 00-1463 EA Fabricate 42" (Or 49" x 33" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	677.90	
33 42 11 00-1464 EA Fabricate 48" (Or 57" x 38" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	879.96	
33 42 11 00-1465 EA Fabricate 54" (Or 64" x 43" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	990.78	
33 42 11 00-1466 EA Fabricate 60" (Or 71" x 47" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,105.49	
33 42 11 00-1467 EA Fabricate 66" (Or 77" x 52" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,222.83	
33 42 11 00-1468 EA Fabricate 72" (Or 83" x 57" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,491.37	
33 42 11 00-1469 EA Fabricate 78" (Or 87" x 63" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,624.37	
33 42 11 00-1470 EA Fabricate 84" (Or 95" x 67" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,759.94	
33 42 11 00-1471 EA Fabricate 90" (Or 103" x 71" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	2,165.36	
33 42 11 00-1472 EA Fabricate 96" (Or 112" x 75" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	2,320.51	
33 42 11 00-1473 EA Fabricate 102" (Or 117" x 79" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,475.65	
33 42 11 00-1474 EA Fabricate 108" (Or 128" x 83" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,632.07	
33 42 11 00-1475 EA Fabricate 114" (Or 137" x 87" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	2,788.53	
33 42 11 00-1476 EA Fabricate 120" (Or 142" x 91" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	2,943.64	



	Utilities	33
	Stormwater Utilities	33 40
	Stormwater Conveyance	33 42

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1477	EA		Fabricate 126" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 23' Of Appropriate Pipe).....	3,107.40	
33 42 11 00-1478	EA		Fabricate 132" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....	3,280.27	
33 42 11 00-1479	EA		Fabricate 138" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....	3,462.73	
33 42 11 00-1480			Fabricate Skew Or Bevel Ends, Corrugated Steel Pipe Fitting (33 42 11 00-1423)		
			Note: Applied to pipe tasks.		
33 42 11 00-1481	EA		Fabricate 6" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	40.80	
33 42 11 00-1482	EA		Fabricate 8" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	51.32	
33 42 11 00-1483	EA		Fabricate 10" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	64.55	
33 42 11 00-1484	EA		Fabricate 12" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	79.05	
33 42 11 00-1485	EA		Fabricate 15" (Or 17" x 13" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	100.03	
33 42 11 00-1486	EA		Fabricate 18" (Or 21" x 15" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	122.48	
33 42 11 00-1487	EA		Fabricate 21" (Or 24" x 18" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	143.47	
33 42 11 00-1488	EA		Fabricate 24" (Or 28" x 20" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	166.68	
33 42 11 00-1489	EA		Fabricate 30" (Or 35" x 24" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	204.73	
33 42 11 00-1490	EA		Fabricate 36" (Or 42" x 29" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	244.10	
33 42 11 00-1491	EA		Fabricate 42" (Or 49" x 33" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	291.26	
33 42 11 00-1492	EA		Fabricate 48" (Or 57" x 38" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	358.28	
33 42 11 00-1493	EA		Fabricate 54" (Or 64" x 43" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	405.52	
33 42 11 00-1494	EA		Fabricate 60" (Or 71" x 47" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	456.69	
33 42 11 00-1495	EA		Fabricate 66" (Or 77" x 52" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	553.82	
33 42 11 00-1496	EA		Fabricate 72" (Or 83" x 57" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	614.17	
33 42 11 00-1497	EA		Fabricate 78" (Or 87" x 63" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	749.35	
33 42 11 00-1498	EA		Fabricate 84" (Or 95" x 67" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	816.31	
33 42 11 00-1499	EA		Fabricate 90" (Or 103" x 71" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	887.20	
33 42 11 00-1500	EA		Fabricate 96" (Or 112" x 75" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	956.70	
33 42 11 00-1501	EA		Fabricate 102" (Or 117" x 79" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,027.57	
33 42 11 00-1502	EA		Fabricate 108" (Or 128" x 83" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,099.74	
33 42 11 00-1503	EA		Fabricate 114" (Or 137" x 87" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,170.63	
33 42 11 00-1504	EA		Fabricate 120" (Or 142" x 91" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,241.49	
33 42 11 00-1505	EA		Fabricate 126" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,316.63	
33 42 11 00-1506	EA		Fabricate 132" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,396.30	
33 42 11 00-1507	EA		Fabricate 138" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,480.81	
33 42 11 00-1508			Coupling Bands, Corrugated Metal Pipe Fitting (33 42 11 00-1423)		
33 42 11 00-1509	EA		6" Coupling Band, Corrugated Metal Pipe Fitting.....	11.71	
			<i>For Bituminous Coated, Add</i>	3.40	
33 42 11 00-1510	EA		8" Coupling Band, Corrugated Metal Pipe Fitting.....	15.55	
			<i>For Bituminous Coated, Add</i>	4.51	
33 42 11 00-1511	EA		10" Coupling Band, Corrugated Metal Pipe Fitting.....	19.59	
			<i>For Bituminous Coated, Add</i>	5.68	
33 42 11 00-1512	EA		12" Coupling Band, Corrugated Metal Pipe Fitting.....	32.52	
			<i>For Bituminous Coated, Add</i>	9.43	
33 42 11 00-1513	EA		15" Coupling Band, Corrugated Metal Pipe Fitting.....	41.00	
			<i>For Bituminous Coated, Add</i>	11.89	
33 42 11 00-1514	EA		18" Coupling Band, Corrugated Metal Pipe Fitting.....	60.16	
			<i>For Bituminous Coated, Add</i>	17.45	
33 42 11 00-1515	EA		21" Coupling Band, Corrugated Metal Pipe Fitting.....	71.40	
			<i>For Bituminous Coated, Add</i>	20.71	
33 42 11 00-1516	EA		24" Coupling Band, Corrugated Metal Pipe Fitting.....	80.96	
			<i>For Bituminous Coated, Add</i>	23.48	
33 42 11 00-1517	EA		30" Coupling Band, Corrugated Metal Pipe Fitting.....	140.11	
			<i>For Bituminous Coated, Add</i>	40.63	
33 42 11 00-1518	EA		36" Coupling Band, Corrugated Metal Pipe Fitting.....	224.16	
			<i>For Bituminous Coated, Add</i>	53.80	
33 42 11 00-1519	EA		42" Coupling Band, Corrugated Metal Pipe Fitting.....	263.38	
			<i>For Bituminous Coated, Add</i>	63.21	
33 42 11 00-1520	EA		48" Coupling Band, Corrugated Metal Pipe Fitting.....	295.12	
			<i>For Bituminous Coated, Add</i>	70.83	
33 42 11 00-1521	EA		54" Coupling Band, Corrugated Metal Pipe Fitting.....	418.53	
			<i>For Bituminous Coated, Add</i>	100.45	
33 42 11 00-1522	EA		60" Coupling Band, Corrugated Metal Pipe Fitting.....	598.63	
			<i>For Bituminous Coated, Add</i>	107.75	
33 42 11 00-1523	EA		66" Coupling Band, Corrugated Metal Pipe Fitting.....	735.70	
			<i>For Bituminous Coated, Add</i>	132.43	
33 42 11 00-1524	EA		72" Coupling Band, Corrugated Metal Pipe Fitting.....	945.06	
			<i>For Bituminous Coated, Add</i>	132.31	
33 42 11 00-1525	EA		78" Coupling Band, Corrugated Metal Pipe Fitting.....	1,010.80	
			<i>For Bituminous Coated, Add</i>	141.51	
33 42 11 00-1526	EA		84" Coupling Band, Corrugated Metal Pipe Fitting.....	1,076.91	
			<i>For Bituminous Coated, Add</i>	150.77	
33 42 11 00-1527	EA		90" Coupling Band, Corrugated Metal Pipe Fitting.....	1,142.69	
			<i>For Bituminous Coated, Add</i>	159.98	
33 42 11 00-1528	EA		96" Coupling Band, Corrugated Metal Pipe Fitting.....	1,208.64	
			<i>For Bituminous Coated, Add</i>	169.21	
33 42 11 00-1529	EA		102" Coupling Band, Corrugated Metal Pipe Fitting.....	1,274.75	
			<i>For Bituminous Coated, Add</i>	178.47	
33 42 11 00-1530	EA		108" Coupling Band, Corrugated Metal Pipe Fitting.....	1,340.56	
			<i>For Bituminous Coated, Add</i>	187.68	
33 42 11 00-1531	EA		114" Coupling Band, Corrugated Metal Pipe Fitting.....	1,587.75	
			<i>For Bituminous Coated, Add</i>	190.53	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1532	EA		120" Coupling Band, Corrugated Metal Pipe Fitting.....	1,472.08	
			<i>For Bituminous Coated, Add</i>	176.65	
33 42 11 00-1533	EA		126" Coupling Band, Corrugated Metal Pipe Fitting.....	1,537.69	
			<i>For Bituminous Coated, Add</i>	184.52	
33 42 11 00-1534	EA		132" Coupling Band, Corrugated Metal Pipe Fitting.....	1,603.77	
			<i>For Bituminous Coated, Add</i>	192.45	
33 42 11 00-1535	EA		138" Coupling Band, Corrugated Metal Pipe Fitting.....	1,669.92	
			<i>For Bituminous Coated, Add</i>	200.39	
33 42 13 Stormwater Culverts ^(33 42)					
33 42 13 13 Precast Concrete Stormwater Culverts ^(33 42 13)					
33 42 13 13-0001 Precast Reinforced Concrete Box Culvert ^(33 42 13 13)					
Note: The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0857 for crane lifting equipment.					
33 42 13 13-0002	LF		3' x 3' Precast Reinforced Concrete Box Culvert	411.72	48.58
			<i>For Each LF Of Cut-Off Section, Add</i>	16.47	
33 42 13 13-0003	LF		4' x 2' Precast Reinforced Concrete Box Culvert	465.13	48.58
			<i>For Each LF Of Cut-Off Section, Add</i>	18.61	
33 42 13 13-0004	LF		4' x 3' Precast Reinforced Concrete Box Culvert	551.41	48.58
			<i>For Each LF Of Cut-Off Section, Add</i>	22.06	
33 42 13 13-0005	LF		5' x 3' Precast Reinforced Concrete Box Culvert	661.53	60.73
			<i>For Each LF Of Cut-Off Section, Add</i>	26.46	
33 42 13 13-0006	LF		5' x 4' Precast Reinforced Concrete Box Culvert	677.97	60.73
			<i>For Each LF Of Cut-Off Section, Add</i>	27.12	
33 42 13 13-0007	LF		5' x 5' Precast Reinforced Concrete Box Culvert	686.18	60.73
			<i>For Each LF Of Cut-Off Section, Add</i>	27.45	
33 42 13 13-0008	LF		6' x 3' Precast Reinforced Concrete Box Culvert	707.39	63.16
			<i>For Each LF Of Cut-Off Section, Add</i>	28.30	
33 42 13 13-0009	LF		6' x 4' Precast Reinforced Concrete Box Culvert	711.50	63.16
			<i>For Each LF Of Cut-Off Section, Add</i>	28.46	
33 42 13 13-0010	LF		6' x 6' Precast Reinforced Concrete Box Culvert	785.45	63.16
			<i>For Each LF Of Cut-Off Section, Add</i>	31.42	
33 42 13 13-0011	LF		7' x 4' Precast Reinforced Concrete Box Culvert	804.53	72.87
			<i>For Each LF Of Cut-Off Section, Add</i>	32.18	
33 42 13 13-0012	LF		7' x 6' Precast Reinforced Concrete Box Culvert	856.02	99.11
			<i>For Each LF Of Cut-Off Section, Add</i>	34.24	
33 42 13 13-0013	LF		8' x 2' Precast Reinforced Concrete Box Culvert	789.56	63.16
			<i>For Each LF Of Cut-Off Section, Add</i>	31.58	
33 42 13 13-0014	LF		8' x 3' Precast Reinforced Concrete Box Culvert	808.64	72.87
			<i>For Each LF Of Cut-Off Section, Add</i>	32.35	
33 42 13 13-0015	LF		8' x 4' Precast Reinforced Concrete Box Culvert	820.96	72.87
			<i>For Each LF Of Cut-Off Section, Add</i>	32.84	
33 42 13 13-0016	LF		8' x 5' Precast Reinforced Concrete Box Culvert	988.61	97.16
			<i>For Each LF Of Cut-Off Section, Add</i>	39.54	
33 42 13 13-0017	LF		8' x 6' Precast Reinforced Concrete Box Culvert	991.90	97.16
			<i>For Each LF Of Cut-Off Section, Add</i>	39.68	
33 42 13 13-0018	LF		8' x 8' Precast Reinforced Concrete Box Culvert	1,094.64	121.46
			<i>For Each LF Of Cut-Off Section, Add</i>	43.79	
33 42 13 13-0019	LF		9' x 4' Precast Reinforced Concrete Box Culvert	1,094.61	97.16
			<i>For Each LF Of Cut-Off Section, Add</i>	43.78	
33 42 13 13-0020	LF		9' x 6' Precast Reinforced Concrete Box Culvert	1,154.63	121.46
			<i>For Each LF Of Cut-Off Section, Add</i>	46.19	
33 42 13 13-0021	LF		10' x 3' Precast Reinforced Concrete Box Culvert	1,158.73	121.46
			<i>For Each LF Of Cut-Off Section, Add</i>	46.35	
33 42 13 13-0022	LF		10' x 4' Precast Reinforced Concrete Box Culvert	1,413.46	121.46
			<i>For Each LF Of Cut-Off Section, Add</i>	56.54	
33 42 13 13-0023	LF		10' x 5' Precast Reinforced Concrete Box Culvert	1,477.57	145.75
			<i>For Each LF Of Cut-Off Section, Add</i>	59.10	
33 42 13 13-0024	LF		10' x 6' Precast Reinforced Concrete Box Culvert	1,494.01	145.75
			<i>For Each LF Of Cut-Off Section, Add</i>	59.76	
33 42 13 13-0025	LF		10' x 7' Precast Reinforced Concrete Box Culvert	1,498.12	145.75
			<i>For Each LF Of Cut-Off Section, Add</i>	59.92	
33 42 13 13-0026	LF		10' x 8' Precast Reinforced Concrete Box Culvert	1,503.87	145.75
			<i>For Each LF Of Cut-Off Section, Add</i>	60.15	
33 42 13 13-0027	LF		12' x 3' Precast Reinforced Concrete Box Culvert	1,558.13	170.04
			<i>For Each LF Of Cut-Off Section, Add</i>	62.33	
33 42 13 13-0028	LF		12' x 4' Precast Reinforced Concrete Box Culvert	1,558.13	170.04
			<i>For Each LF Of Cut-Off Section, Add</i>	62.33	
33 42 13 13-0029	LF		12' x 6' Precast Reinforced Concrete Box Culvert	1,558.13	170.04
			<i>For Each LF Of Cut-Off Section, Add</i>	62.33	
33 42 13 13-0030	LF		12' x 8' Precast Reinforced Concrete Box Culvert	1,558.13	170.04
			<i>For Each LF Of Cut-Off Section, Add</i>	62.33	
33 42 13 13-0031	LF		16' x 10' Precast Reinforced Concrete Box Culvert	2,279.61	194.33
			<i>For Each LF Of Cut-Off Section, Add</i>	91.18	
33 42 13 13-0032	LF		24' x 10' Precast Reinforced Concrete Box Culvert	3,183.48	194.33
			<i>For Each LF Of Cut-Off Section, Add</i>	127.34	



	Utilities	33
	Stormwater Utilities	33 40
	Stormwater Conveyance	33 42

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 42 13 13-0033

Precast Reinforced Concrete Box Culvert For Roadways ^(33 42 13 13)

Note: AASHTO HL-93 Rated. The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0857 for crane lifting equipment.

33 42 13 13-0034	LF 3' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,040.74	48.58
	<i>For Each LF Of Cut-Off Section, Add</i>	41.63	
33 42 13 13-0035	LF 4' x 2' Precast Reinforced Concrete Box Culvert For Roadways	1,119.66	48.58
	<i>For Each LF Of Cut-Off Section, Add</i>	44.79	
33 42 13 13-0036	LF 4' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,259.34	48.58
	<i>For Each LF Of Cut-Off Section, Add</i>	50.37	
33 42 13 13-0037	LF 5' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,422.83	60.73
	<i>For Each LF Of Cut-Off Section, Add</i>	56.91	
33 42 13 13-0038	LF 5' x 4' Precast Reinforced Concrete Box Culvert For Roadways	1,562.51	60.73
	<i>For Each LF Of Cut-Off Section, Add</i>	62.50	
33 42 13 13-0039	LF 5' x 5' Precast Reinforced Concrete Box Culvert For Roadways	1,702.19	60.73
	<i>For Each LF Of Cut-Off Section, Add</i>	68.09	
33 42 13 13-0040	LF 6' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,567.28	63.16
	<i>For Each LF Of Cut-Off Section, Add</i>	62.69	
33 42 13 13-0041	LF 6' x 4' Precast Reinforced Concrete Box Culvert For Roadways	1,706.96	63.16
	<i>For Each LF Of Cut-Off Section, Add</i>	68.28	
33 42 13 13-0042	LF 6' x 6' Precast Reinforced Concrete Box Culvert For Roadways	1,986.32	63.16
	<i>For Each LF Of Cut-Off Section, Add</i>	79.45	
33 42 13 13-0043	LF 7' x 4' Precast Reinforced Concrete Box Culvert For Roadways	1,865.72	72.87
	<i>For Each LF Of Cut-Off Section, Add</i>	74.63	
33 42 13 13-0044	LF 7' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,196.54	99.11
	<i>For Each LF Of Cut-Off Section, Add</i>	87.86	
33 42 13 13-0045	LF 8' x 2' Precast Reinforced Concrete Box Culvert For Roadways	1,706.96	63.16
	<i>For Each LF Of Cut-Off Section, Add</i>	68.28	
33 42 13 13-0046	LF 8' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,865.72	72.87
	<i>For Each LF Of Cut-Off Section, Add</i>	74.63	
33 42 13 13-0047	LF 8' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,005.40	72.87
	<i>For Each LF Of Cut-Off Section, Add</i>	80.22	
33 42 13 13-0048	LF 8' x 5' Precast Reinforced Concrete Box Culvert For Roadways	2,192.73	97.16
	<i>For Each LF Of Cut-Off Section, Add</i>	87.71	
33 42 13 13-0049	LF 8' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,332.41	97.16
	<i>For Each LF Of Cut-Off Section, Add</i>	93.30	
33 42 13 13-0050	LF 8' x 8' Precast Reinforced Concrete Box Culvert For Roadways	2,659.46	121.46
	<i>For Each LF Of Cut-Off Section, Add</i>	106.38	
33 42 13 13-0051	LF 9' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,355.27	97.16
	<i>For Each LF Of Cut-Off Section, Add</i>	94.21	
33 42 13 13-0052	LF 9' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,701.50	121.46
	<i>For Each LF Of Cut-Off Section, Add</i>	108.06	
33 42 13 13-0053	LF 10' x 3' Precast Reinforced Concrete Box Culvert For Roadways	2,671.11	121.46
	<i>For Each LF Of Cut-Off Section, Add</i>	106.84	
33 42 13 13-0054	LF 10' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,836.97	121.46
	<i>For Each LF Of Cut-Off Section, Add</i>	113.48	
33 42 13 13-0055	LF 10' x 5' Precast Reinforced Concrete Box Culvert For Roadways	3,050.50	145.75
	<i>For Each LF Of Cut-Off Section, Add</i>	122.02	
33 42 13 13-0056	LF 10' x 6' Precast Reinforced Concrete Box Culvert For Roadways	3,216.36	145.75
	<i>For Each LF Of Cut-Off Section, Add</i>	128.65	
33 42 13 13-0057	LF 10' x 7' Precast Reinforced Concrete Box Culvert For Roadways	3,382.24	145.75
	<i>For Each LF Of Cut-Off Section, Add</i>	135.29	
33 42 13 13-0058	LF 10' x 8' Precast Reinforced Concrete Box Culvert For Roadways	3,548.10	145.75
	<i>For Each LF Of Cut-Off Section, Add</i>	141.92	
33 42 13 13-0059	LF 12' x 3' Precast Reinforced Concrete Box Culvert For Roadways	3,539.35	170.04
	<i>For Each LF Of Cut-Off Section, Add</i>	141.57	
33 42 13 13-0060	LF 12' x 4' Precast Reinforced Concrete Box Culvert For Roadways	3,727.88	170.04
	<i>For Each LF Of Cut-Off Section, Add</i>	149.12	
33 42 13 13-0061	LF 12' x 6' Precast Reinforced Concrete Box Culvert For Roadways	4,105.01	170.04
	<i>For Each LF Of Cut-Off Section, Add</i>	164.20	
33 42 13 13-0062	LF 12' x 8' Precast Reinforced Concrete Box Culvert For Roadways	4,482.14	170.04
	<i>For Each LF Of Cut-Off Section, Add</i>	179.29	
33 42 13 13-0063	LF 16' x 10' Precast Reinforced Concrete Box Culvert For Roadways	5,367.87	194.33
	<i>For Each LF Of Cut-Off Section, Add</i>	214.71	
33 42 13 13-0064	LF 24' x 10' Precast Reinforced Concrete Box Culvert For Roadways	6,792.55	194.33
	<i>For Each LF Of Cut-Off Section, Add</i>	271.70	

33 42 23 Headwalls and Endwalls for Stormwater Piping ^(33 42)

33 42 23 00-0001

Headwalls ^(33 42 23)

Note: Excludes excavation and backfill. Select pipe with closest opening area for square or round culverts.

33 42 23 00-0002

Cast In Place Concrete Headwalls ^(33 42 23 00-0001)

Note: Includes concrete, forms, rebar (where required), finish and curing.

33 42 23 00-0003

Skewed Wingwall, Cast In Place Concrete Headwall ^(33 42 23 00-0002)

Note: Sized by pipe diameter.

33 42 23 00-0004	EA 12" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	1,493.98	626.64
33 42 23 00-0005	EA 15" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	1,878.52	668.43
33 42 23 00-0006	EA 18" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	2,461.25	875.54
33 42 23 00-0007	EA 24" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	3,875.37	1,253.29
33 42 23 00-0008	EA 30" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	5,398.85	1,671.05
33 42 23 00-0009	EA 36" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	6,415.47	2,202.63

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 23 00-0010 EA 42" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall.....	8,771.66	3,038.25
33 42 23 00-0011 EA 48" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall.....	10,434.74	3,580.79
33 42 23 00-0012 EA 54" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall.....	12,544.15	4,359.31
33 42 23 00-0013 EA 60" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall.....	15,031.14	5,277.00
33 42 23 00-0014 Precast Concrete Headwalls (33 42 23 00-0001)		
33 42 23 00-0015 EA 12" Pipe, Precast Concrete Headwall.....	876.92	162.27
33 42 23 00-0016 EA 15" Pipe, Precast Concrete Headwall.....	903.97	171.28
33 42 23 00-0017 EA 18" Pipe, Precast Concrete Headwall.....	993.65	194.71
33 42 23 00-0018 EA 24" Pipe, Precast Concrete Headwall.....	1,099.83	207.33
33 42 23 00-0019 EA 30" Pipe, Precast Concrete Headwall.....	1,497.07	243.39
33 42 23 00-0020 EA 36" Pipe, Precast Concrete Headwall.....	1,676.42	252.41
33 42 23 00-0021 EA 42" Pipe, Precast Concrete Headwall.....	2,224.40	299.85
33 42 23 00-0022 EA 48" Pipe, Precast Concrete Headwall.....	2,461.13	330.36
33 42 23 00-0023 EA 54" Pipe, Precast Concrete Headwall.....	2,720.39	349.79
33 42 23 00-0024 EA 60" Pipe, Precast Concrete Headwall.....	3,094.68	349.79
33 42 23 00-0025 EA 72" Pipe, Precast Concrete Headwall.....	3,765.57	437.24
33 42 23 00-0026 EA 84" Pipe, Precast Concrete Headwall.....	5,376.29	524.69
33 42 23 00-0027 Precast Concrete Wingwalls (33 42 23 00-0001)		
33 42 23 00-0028 EA 18" ID Pipe (26" Hole) Precast Concrete Wingwall..... Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	5,411.43	1,731.46
33 42 23 00-0029 EA 24" ID Pipe (32" Hole) Precast Concrete Wingwall..... Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	5,702.92	1,923.85
33 42 23 00-0030 EA 30" ID Pipe (42" Hole) Precast Concrete Wingwall..... Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	6,188.74	2,244.49
33 42 23 00-0031 EA 33" ID Pipe (46" Hole) Precast Concrete Wingwall..... Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.	6,674.55	2,565.13
33 42 23 00-0032 EA 36" ID Pipe (50" Hole) Precast Concrete Wingwall..... Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	6,674.55	2,565.13
33 42 23 00-0033 EA 44" ID Pipe (58" Hole) Precast Concrete Wingwall..... Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	6,868.88	2,693.38
33 42 23 00-0034 EA 48" ID Pipe (62" Hole) Precast Concrete Wingwall..... Note: 12" thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	12,484.05	2,757.51
33 42 23 00-0035 EA 52" ID Pipe (66" Hole) Precast Concrete Wingwall..... Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.	12,775.54	2,949.89
33 42 23 00-0036 Precast Concrete Transverse Drainage Interceptor (33 42 23 00-0001)		
33 42 23 00-0037 EA 34" x 48" x 28" Precast Concrete Transverse Drainage Interceptor With Frame And Grate.....	3,387.84	680.15
33 42 26 End Sections for Stormwater Piping (33 42)		
33 42 26 16 Corrugated Metal End Sections for Stormwater Piping (33 42 26)		
33 42 26 16-0001 Corrugated Metal Pipe End Sections (33 42 26 16)		
33 42 26 16-0002 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0001)		
33 42 26 16-0003 Type 1 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002) Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.		
33 42 26 16-0004 EA 12" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	244.90	63.11
33 42 26 16-0005 EA 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	283.67	67.60
33 42 26 16-0006 EA 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	330.52	72.11
33 42 26 16-0007 EA 21" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	399.46	78.88
33 42 26 16-0008 EA 24" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	442.33	85.64
33 42 26 16-0009 Type 2 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002) Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.		
33 42 26 16-0010 EA 30" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	709.20	96.91
33 42 26 16-0011 EA 36" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	922.83	116.60
33 42 26 16-0012 EA 42" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	1,410.37	136.03
33 42 26 16-0013 EA 48" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	1,721.64	155.46
33 42 26 16-0014 EA 54" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	2,052.02	194.33
33 42 26 16-0015 EA 60" 10 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	2,397.18	233.19
33 42 26 16-0016 Type 3 Or 5 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002) Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.		
33 42 26 16-0017 EA 12" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	255.50	63.11
33 42 26 16-0018 EA 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	294.58	67.60
33 42 26 16-0019 EA 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	347.29	72.11
33 42 26 16-0020 EA 21" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	419.59	78.88
33 42 26 16-0021 EA 24" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	465.16	85.64
33 42 26 16-0022 EA 30" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	779.29	96.91
33 42 26 16-0023 EA 36" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,008.89	116.60
33 42 26 16-0024 EA 42" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,600.40	136.03
33 42 26 16-0025 EA 48" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,966.87	155.46



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0026 EA 54" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	2,300.01	194.33
33 42 26 16-0027 EA 60" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,182.63	233.19
33 42 26 16-0028 EA 66" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,622.82	349.79
33 42 26 16-0029 EA 72" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	4,246.68	466.39
33 42 26 16-0030 EA 78" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	4,624.82	500.39
33 42 26 16-0031 EA 84" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	5,012.02	534.40
33 42 26 16-0032 Toe Plate Extensions For Galvanized Corrugated Steel Pipe End Section ⁽³³⁾		
<small>42 26 16-0002</small>		
33 42 26 16-0033 EA Toe Plate Extension For 12" Diameter Galvanized Corrugated Steel Pipe End Section	31.50	
33 42 26 16-0034 EA Toe Plate Extension For 15" Diameter Galvanized Corrugated Steel Pipe End Section	35.08	
33 42 26 16-0035 EA Toe Plate Extension For 18" Diameter Galvanized Corrugated Steel Pipe End Section	39.48	
33 42 26 16-0036 EA Toe Plate Extension For 21" Diameter Galvanized Corrugated Steel Pipe End Section	42.92	
33 42 26 16-0037 EA Toe Plate Extension For 24" Diameter Galvanized Corrugated Steel Pipe End Section	48.03	
33 42 26 16-0038 EA Toe Plate Extension For 30" Diameter Galvanized Corrugated Steel Pipe End Section	83.72	
33 42 26 16-0039 EA Toe Plate Extension For 36" Diameter Galvanized Corrugated Steel Pipe End Section	90.10	
33 42 26 16-0040 EA Toe Plate Extension For 42" Diameter Galvanized Corrugated Steel Pipe End Section	123.26	
33 42 26 16-0041 EA Toe Plate Extension For 48" Diameter Galvanized Corrugated Steel Pipe End Section	131.97	
33 42 26 16-0042 EA Toe Plate Extension For 54" Diameter Galvanized Corrugated Steel Pipe End Section	161.11	
33 42 26 16-0043 EA Toe Plate Extension For 60" Diameter Galvanized Corrugated Steel Pipe End Section	165.10	
33 42 26 16-0044 EA Toe Plate Extension For 66" Diameter Galvanized Corrugated Steel Pipe End Section	176.38	
33 42 26 16-0045 EA Toe Plate Extension For 72" Diameter Galvanized Corrugated Steel Pipe End Section	201.06	
33 42 26 16-0046 EA Toe Plate Extension For 78" Diameter Galvanized Corrugated Steel Pipe End Section	224.85	
33 42 26 16-0047 EA 84" Diameter Galvanized Corrugated Steel Pipe End Section Toe Plate Extension.....	230.47	
33 42 26 16-0048 Galvanized Corrugated Steel Pipe-Arch End Sections ^(33 42 26 16-0001)		
33 42 26 16-0049 Type 1 Galvanized Corrugated Steel Pipe-Arch End Sections ^(33 42 26 16-0048)		
Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.		
33 42 26 16-0050 EA 17" x 13" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	283.67	67.60
33 42 26 16-0051 EA 21" x 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	330.52	72.11
33 42 26 16-0052 EA 24" x 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	399.46	78.88
33 42 26 16-0053 EA 28" x 20" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	442.33	85.64
33 42 26 16-0054 Type 2 Galvanized Corrugated Steel Pipe-Arch End Sections ^(33 42 26 16-0048)		
Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.		
33 42 26 16-0055 EA 17" x 13" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	274.52	67.60
33 42 26 16-0056 EA 21" x 15" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	313.59	72.11
33 42 26 16-0057 EA 24" x 18" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	350.99	78.88
33 42 26 16-0058 EA 28" x 20" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	396.05	85.64
33 42 26 16-0059 EA 35" x 24" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	577.24	96.91
33 42 26 16-0060 EA 42" x 29" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	842.56	116.60
33 42 26 16-0061 EA 49" x 33" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,306.05	136.03
33 42 26 16-0062 EA 57" x 38" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,652.12	155.46
33 42 26 16-0063 Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Sections ^(33 42 26 16-0048)		
Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.		
33 42 26 16-0064 EA 17" x 13" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	279.16	67.60
33 42 26 16-0065 EA 21" x 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	323.69	72.11
33 42 26 16-0066 EA 24" x 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	366.77	78.88
33 42 26 16-0067 EA 28" x 20" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	414.76	85.64
33 42 26 16-0068 EA 35" x 24" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	609.05	96.91
33 42 26 16-0069 EA 42" x 29" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	885.95	116.60
33 42 26 16-0070 EA 49" x 33" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,375.47	136.03
33 42 26 16-0071 EA 57" x 38" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,732.00	155.46
33 42 26 16-0072 EA 64" x 43" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	2,084.84	194.33
33 42 26 16-0073 EA 71" x 47" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	2,737.97	233.19
33 42 26 16-0074 EA 77" x 52" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	3,824.38	349.79
33 42 26 16-0075 EA 83" x 57" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	4,244.00	466.39
33 42 26 16-0076 Toe Plate Extensions For Galvanized Corrugated Steel Pipe-Arch End Section ^(33 42 26 16-0048)		
33 42 26 16-0077 EA Toe Plate Extension For 17" x 13" Galvanized Corrugated Steel Pipe-Arch End Section	35.08	
33 42 26 16-0078 EA Toe Plate Extension For 21" x 15" Galvanized Corrugated Steel Pipe-Arch End Section	39.48	
33 42 26 16-0079 EA Toe Plate Extension For 24" x 18" Galvanized Corrugated Steel Pipe-Arch End Section	42.92	
33 42 26 16-0080 EA Toe Plate Extension For 28" x 20" Galvanized Corrugated Steel Pipe-Arch End Section	48.03	
33 42 26 16-0081 EA Toe Plate Extension For 35" x 24" Galvanized Corrugated Steel Pipe-Arch End Section	83.72	
33 42 26 16-0082 EA Toe Plate Extension For 42" x 29" Galvanized Corrugated Steel Pipe-Arch End Section	90.10	
33 42 26 16-0083 EA Toe Plate Extension For 49" x 33" Galvanized Corrugated Steel Pipe-Arch End Section	123.26	
33 42 26 16-0084 EA Toe Plate Extension For 57" x 38" Galvanized Corrugated Steel Pipe-Arch End Section	137.22	
33 42 26 16-0085 EA Toe Plate Extension For 64" x 43" Galvanized Corrugated Steel Pipe-Arch End Section	161.11	
33 42 26 16-0086 EA Toe Plate Extension For 71" x 47" Galvanized Corrugated Steel Pipe-Arch End Section	167.19	
33 42 26 16-0087 EA Toe Plate Extension For 77" x 52" Galvanized Corrugated Steel Pipe-Arch End Section	193.41	
33 42 26 16-0088 EA Toe Plate Extension For 83" x 57" Galvanized Corrugated Steel Pipe-Arch End Section	219.81	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0089			Corrugated Aluminum Pipe End Sections (33 42 26 16-0001)		
33 42 26 16-0090			Corrugated Aluminum Pipe End Sections (33 42 26 16-0089)		
33 42 26 16-0091	EA		12" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	368.15	63.11
33 42 26 16-0092	EA		15" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	424.01	67.60
33 42 26 16-0093	EA		18" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	502.27	72.11
33 42 26 16-0094	EA		21" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	622.11	78.88
33 42 26 16-0095	EA		24" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	811.59	85.64
33 42 26 16-0096	EA		30" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,215.38	96.91
33 42 26 16-0097	EA		36" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,654.34	116.60
33 42 26 16-0098	EA		36" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	2,057.59	116.60
33 42 26 16-0099	EA		42" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	2,623.57	136.03
33 42 26 16-0100	EA		48" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	3,742.20	155.46
33 42 26 16-0101	EA		54" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	4,146.54	194.33
33 42 26 16-0102	EA		60" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	5,587.10	233.19
33 42 26 16-0103	EA		66" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	6,333.55	349.79
33 42 26 16-0104	EA		72" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	7,411.42	466.39
33 42 26 16-0105	EA		78" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	8,093.97	500.39
33 42 26 16-0106	EA		84" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	8,541.02	534.40
33 42 26 16-0107	EA		90" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	11,675.77	582.98
33 42 26 16-0108	EA		96" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	12,924.69	631.57
33 42 26 16-0109			Toe Plate Extensions For Corrugated Aluminum Pipe End Section (33 42 26 16-0089)		
33 42 26 16-0110	EA		Toe Plate Extension For 12" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	57.63	
33 42 26 16-0111	EA		Toe Plate Extension For 15" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	61.09	
33 42 26 16-0112	EA		Toe Plate Extension For 18" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	66.28	
33 42 26 16-0113	EA		Toe Plate Extension For 21" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	74.62	
33 42 26 16-0114	EA		Toe Plate Extension For 24" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	79.16	
33 42 26 16-0115	EA		Toe Plate Extension For 30" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	102.52	
33 42 26 16-0116	EA		Toe Plate Extension For 36" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	123.11	
33 42 26 16-0117	EA		Toe Plate Extension For 36" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	129.84	
33 42 26 16-0118	EA		Toe Plate Extension For 42" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	142.41	
33 42 26 16-0119	EA		Toe Plate Extension For 48" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	160.96	
33 42 26 16-0120	EA		Toe Plate Extension For 54" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	190.29	
33 42 26 16-0121	EA		Toe Plate Extension For 60" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	265.64	
33 42 26 16-0122	EA		Toe Plate Extension For 66" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	286.45	
33 42 26 16-0123	EA		Toe Plate Extension For 72" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	363.62	
33 42 26 16-0124	EA		Toe Plate Extension For 78" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	393.57	
33 42 26 16-0125	EA		Toe Plate Extension For 84" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	419.40	
33 42 26 16-0126	EA		Toe Plate Extension For 90" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	446.51	
33 42 26 16-0127	EA		Toe Plate Extension For 96" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	473.97	
33 42 26 16-0128			Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0001)		
33 42 26 16-0129			Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0128)		
33 42 26 16-0130	EA		17" x 13" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	437.05	67.60
33 42 26 16-0131	EA		21" x 15" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	534.04	72.11
33 42 26 16-0132	EA		24" x 18" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	579.97	78.88
33 42 26 16-0133	EA		28" x 20" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	625.85	85.64
33 42 26 16-0134	EA		35" x 24" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	936.78	96.91
33 42 26 16-0135	EA		42" x 29" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,672.87	116.60
33 42 26 16-0136	EA		42" x 29" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,775.11	116.60
33 42 26 16-0137	EA		49" x 33" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	2,371.40	136.03
33 42 26 16-0138	EA		57" x 38" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	3,644.00	155.46
33 42 26 16-0139	EA		64" x 43" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	4,173.20	194.33
33 42 26 16-0140	EA		71" x 47" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	5,045.66	233.19
33 42 26 16-0141	EA		77" x 52" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	8,449.96	349.79
33 42 26 16-0142	EA		83" x 57" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	8,875.11	466.39
33 42 26 16-0143	EA		87" x 63" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	9,662.98	500.39
33 42 26 16-0144	EA		95" x 67" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	10,086.47	534.40
33 42 26 16-0145	EA		103" x 71" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	10,994.36	582.98
33 42 26 16-0146	EA		112" x 75" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	11,648.07	631.57
33 42 26 16-0147			Toe Plate Extensions For Corrugated Aluminum Pipe-Arch End Section (33 42 26 16-0128)		
33 42 26 16-0148	EA		Toe Plate Extension For 17" x 13", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	61.09	
33 42 26 16-0149	EA		Toe Plate Extension For 21" x 15", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	66.28	
33 42 26 16-0150	EA		Toe Plate Extension For 24" x 18", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	69.91	
33 42 26 16-0151	EA		Toe Plate Extension For 28" x 20", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	76.57	
33 42 26 16-0152	EA		Toe Plate Extension For 35" x 24", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	87.71	
33 42 26 16-0153	EA		Toe Plate Extension For 42" x 29", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	114.59	
33 42 26 16-0154	EA		Toe Plate Extension For 42" x 29", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	125.33	
33 42 26 16-0155	EA		Toe Plate Extension For 49" x 33", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	142.41	
33 42 26 16-0156	EA		Toe Plate Extension For 57" x 38", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	160.96	
33 42 26 16-0157	EA		Toe Plate Extension For 64" x 43", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	190.29	
33 42 26 16-0158	EA		Toe Plate Extension For 71" x 47", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	241.76	
33 42 26 16-0159	EA		Toe Plate Extension For 77" x 52", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	306.44	
33 42 26 16-0160	EA		Toe Plate Extension For 83" x 57", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	413.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0161 EA Toe Plate Extension For 87" x 63", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	469.66	
33 42 26 16-0162 EA Toe Plate Extension For 95" x 67", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	491.97	
33 42 26 16-0163 EA Toe Plate Extension For 103" x 71", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	510.20	
33 42 26 16-0164 EA Toe Plate Extension For 112" x 75", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	532.48	
33 42 26 16-0165 Low Slope Corrugated Steel Pipe End Sections And Accessories (33 42 26 16-0001)		
33 42 26 16-0166 4:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
33 42 26 16-0167 EA 15" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	562.22	67.60
33 42 26 16-0168 EA 18" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	723.81	72.11
33 42 26 16-0169 EA 21" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	886.12	78.88
33 42 26 16-0170 EA 24" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,059.94	85.64
33 42 26 16-0171 EA 30" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,121.50	96.91
33 42 26 16-0172 EA 36" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,468.71	116.60
33 42 26 16-0173 EA 42" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	2,321.03	136.03
33 42 26 16-0174 3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
Note: Includes nut and bolt set.		
33 42 26 16-0175 EA 3" Diameter Parallel Safety Bar For 15" 4:1 Corrugated Steel Pipe End Section	400.50	
33 42 26 16-0176 EA 3" Diameter Parallel Safety Bar For 18" 4:1 Corrugated Steel Pipe End Section	802.71	
33 42 26 16-0177 EA 3" Diameter Parallel Safety Bar For 21" 4:1 Corrugated Steel Pipe End Section	880.89	
33 42 26 16-0178 EA 3" Diameter Parallel Safety Bar For 24" 4:1 Corrugated Steel Pipe End Section	915.83	
33 42 26 16-0179 6:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
33 42 26 16-0180 EA 15" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	588.70	67.60
33 42 26 16-0181 EA 18" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	771.43	72.11
33 42 26 16-0182 EA 21" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,026.28	78.88
33 42 26 16-0183 EA 24" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,205.61	85.64
33 42 26 16-0184 EA 30" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,430.73	96.91
33 42 26 16-0185 EA 36" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,741.65	116.60
33 42 26 16-0186 EA 42" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	2,662.52	136.03
33 42 26 16-0187 3" Diameter Parallel Safety Bar For 6:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
Note: Includes nut and bolt set.		
33 42 26 16-0188 EA 3" Diameter Parallel Safety Bar For 15" 6:1 Corrugated Steel Pipe End Section	779.62	
33 42 26 16-0189 EA 3" Diameter Parallel Safety Bar For 18" 6:1 Corrugated Steel Pipe End Section	827.51	
33 42 26 16-0190 EA 3" Diameter Parallel Safety Bar For 21" 6:1 Corrugated Steel Pipe End Section	910.18	
33 42 26 16-0191 EA 3" Diameter Parallel Safety Bar For 24" 6:1 Corrugated Steel Pipe End Section	956.39	
33 42 26 16-0192 Toe Plate Extensions For Low Slope Corrugated Steel Pipe End Section (33 42 26 16-0165)		
33 42 26 16-0193 EA Toe Plate Extension For 15" Low Slope Corrugated Steel Pipe End Section	68.11	
33 42 26 16-0194 EA Toe Plate Extension For 18" Low Slope Corrugated Steel Pipe End Section	76.45	
33 42 26 16-0195 EA Toe Plate Extension For 21" Low Slope Corrugated Steel Pipe End Section	83.22	
33 42 26 16-0196 EA Toe Plate Extension For 24" Low Slope Corrugated Steel Pipe End Section	92.93	
33 42 26 16-0197 EA Toe Plate Extension For 30" Low Slope Corrugated Steel Pipe End Section	139.63	
33 42 26 16-0198 EA Toe Plate Extension For 36" Low Slope Corrugated Steel Pipe End Section	149.87	
33 42 26 16-0199 EA Toe Plate Extension For 42" Low Slope Corrugated Steel Pipe End Section	201.39	
33 42 26 16-0200 Low Slope Corrugated Steel Pipe-Arch End Sections And Accessories (33 42 26 16-0001)		
33 42 26 16-0201 4:1 Corrugated Steel Pipe-Arch End Section (33 42 26 16-0200)		
33 42 26 16-0202 EA 21" x 15" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	668.03	72.11
33 42 26 16-0203 EA 24" x 18" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	838.07	78.88
33 42 26 16-0204 EA 28" x 20" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	991.90	85.64
33 42 26 16-0205 EA 35" x 24" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	1,868.59	96.91
33 42 26 16-0206 3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0200)		
Note: Includes nut and bolt set.		
33 42 26 16-0207 EA 3" Diameter Parallel Safety Bar For 21" x 15" 4:1 Corrugated Steel Pipe-Arch End Section	477.15	
33 42 26 16-0208 EA 3" Diameter Parallel Safety Bar For 24" x 18" 4:1 Corrugated Steel Pipe-Arch End Section	869.23	
33 42 26 16-0209 EA 3" Diameter Parallel Safety Bar For 28" x 20" 4:1 Corrugated Steel Pipe-Arch End Section	915.83	
33 42 26 16-0210 EA 3" Diameter Parallel Safety Bar For 35" x 24" 4:1 Corrugated Steel Pipe-Arch End Section	1,347.92	
33 42 26 16-0211 Toe Plate Extensions For Low Slope Corrugated Steel Pipe-Arch End Section (33 42 26 16-0200)		
33 42 26 16-0212 EA Toe Plate Extension For 21" x 15" Low Slope Corrugated Steel Pipe-Arch End Section	68.85	
33 42 26 16-0213 EA Toe Plate Extension For 24" x 18" Low Slope Corrugated Steel Pipe-Arch End Section	78.13	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 42 26 16-0214	EA		Toe Plate Extension For 28" x 20" Low Slope Corrugated Steel Pipe-Arch End Section.....	85.17	
33 42 26 16-0215	EA		Toe Plate Extension For 35" x 24" Low Slope Corrugated Steel Pipe-Arch End Section.....	101.48	

33 42 26 19 Corrugated High-Density Polyethylene (HDPE) End Sections for Stormwater Piping (33 42 26)

33 42 26 19-0001 Corrugated High Density Polyethylene (HDPE) Pipe End Sections (33 42 26 19)

33 42 26 19-0002	EA		4" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	54.75	18.26
33 42 26 19-0003	EA		6" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	102.16	27.40
33 42 26 19-0004	EA		8" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	138.78	34.24
33 42 26 19-0005	EA		10" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	218.57	54.78
33 42 26 19-0006	EA		12" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	259.66	61.63
33 42 26 19-0007	EA		15" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	275.61	66.20
33 42 26 19-0008	EA		18" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	328.50	73.05
33 42 26 19-0009	EA		24" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	424.65	86.74
33 42 26 19-0010	EA		30" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	877.97	98.16
33 42 26 19-0011	EA		36" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	1,071.22	109.57

33 42 26 23 Concrete End Sections for Stormwater Piping (33 42 26)

33 42 26 23-0001 Precast Concrete End Sections (33 42 26 23)

33 42 26 23-0002 Precast Concrete End Sections (33 42 26 23-0001)

33 42 26 23-0003	EA		12" Diameter Pipe, Precast Concrete End Section.....	597.69	105.74
33 42 26 23-0004	EA		15" Diameter Pipe, Precast Concrete End Section.....	801.19	130.89
33 42 26 23-0005	EA		18" Diameter Pipe, Precast Concrete End Section.....	992.40	165.69
33 42 26 23-0006	EA		21" Diameter Pipe, Precast Concrete End Section.....	1,139.69	198.14
33 42 26 23-0007	EA		24" Diameter Pipe, Precast Concrete End Section.....	1,213.23	229.33
33 42 26 23-0008	EA		27" Diameter Pipe, Precast Concrete End Section.....	1,533.18	289.55
33 42 26 23-0009	EA		30" Diameter Pipe, Precast Concrete End Section.....	1,905.89	434.90
33 42 26 23-0010	EA		36" Diameter Pipe, Precast Concrete End Section.....	2,354.61	548.78
33 42 26 23-0011	EA		42" Diameter Pipe, Precast Concrete End Section.....	2,851.70	688.41
33 42 26 23-0012	EA		48" Diameter Pipe, Precast Concrete End Section.....	3,128.06	776.34
33 42 26 23-0013	EA		54" Diameter Pipe, Precast Concrete End Section.....	3,414.64	869.62
33 42 26 23-0014	EA		60" Diameter Pipe, Precast Concrete End Section.....	3,708.56	966.78
33 42 26 23-0015	EA		66" Diameter Pipe Precast Concrete End Section.....	3,661.36	768.50
33 42 26 23-0016	EA		72" Diameter Pipe Precast Concrete End Section.....	4,201.98	960.60
33 42 26 23-0017	EA		78" Diameter Pipe Precast Concrete End Section.....	5,002.14	1,200.74
33 42 26 23-0018	EA		84" Diameter Pipe Precast Concrete End Section.....	5,920.99	1,440.90

33 42 26 23-0019 Flared Precast Concrete End Sections (33 42 26 23-0001)

33 42 26 23-0020	EA		12" Diameter Pipe, Flared Precast Concrete End Section.....	751.21	113.19
33 42 26 23-0021	EA		15" Diameter Pipe, Flared Precast Concrete End Section.....	905.12	141.08
33 42 26 23-0022	EA		18" Diameter Pipe, Flared Precast Concrete End Section.....	1,099.74	178.58
33 42 26 23-0023	EA		21" Diameter Pipe, Flared Precast Concrete End Section.....	1,257.79	213.57
33 42 26 23-0024	EA		24" Diameter Pipe, Flared Precast Concrete End Section.....	1,533.15	247.19
33 42 26 23-0025	EA		27" Diameter Pipe, Flared Precast Concrete End Section.....	1,860.72	394.77
33 42 26 23-0026	EA		30" Diameter Pipe, Flared Precast Concrete End Section.....	1,952.11	543.54
33 42 26 23-0027	EA		36" Diameter Pipe, Flared Precast Concrete End Section.....	2,631.61	685.98
33 42 26 23-0028	EA		42" Diameter Pipe, Flared Precast Concrete End Section.....	3,162.47	860.67
33 42 26 23-0029	EA		48" Diameter Pipe, Flared Precast Concrete End Section.....	3,426.75	970.66
33 42 26 23-0030	EA		54" Diameter Pipe, Flared Precast Concrete End Section.....	3,833.03	1,087.17
33 42 26 23-0031	EA		60" Diameter Pipe, Flared Precast Concrete End Section.....	4,247.23	1,207.56
33 42 26 23-0032	EA		66" Diameter Pipe, Flared Precast Concrete End Section.....	4,951.74	1,391.28
33 42 26 23-0033	EA		72" Diameter Pipe, Flared Precast Concrete End Section.....	5,767.07	1,552.88
33 42 26 23-0034	EA		78" Diameter Pipe, Flared Precast Concrete End Section.....	6,537.94	1,746.91
33 42 26 23-0035	EA		84" Diameter Pipe, Flared Precast Concrete End Section.....	7,532.80	1,940.75

33 42 31 Stormwater Area Drains and Inlets (33 42)

33 42 31 00-0001 Storm Drains (33 42 31)

See CSI section 33 05 61 00-0001 for manhole structures.

33 42 31 00-0002 Catch Basins And Inlet Basins (33 42 31 00-0001)

Note: Includes base slab, opening and grout. Excludes frame, grate, excavation and backfill.

33 42 31 00-0003 Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0002)

Note: Inside dimensions.

33 42 31 00-0004 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)

33 42 31 00-0005	EA		2' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	1,676.68	308.22
33 42 31 00-0006	EA		3' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	2,003.50	361.13
33 42 31 00-0007	EA		4' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	2,330.31	413.96
33 42 31 00-0008	EA		5' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	2,657.13	466.87
33 42 31 00-0009	EA		6' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	2,983.94	519.69

33 42 31 00-0010 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)

33 42 31 00-0011	EA		2' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	2,166.46	306.35
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0012 EA 3' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,678.30	408.48
33 42 31 00-0013 EA 4' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,415.02	557.01
33 42 31 00-0014 EA 5' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,163.07	649.86
33 42 31 00-0015 EA 6' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,748.76	742.69
33 42 31 00-0016 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)		
33 42 31 00-0017 EA 2' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,329.28	334.21
33 42 31 00-0018 EA 3' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,227.23	464.18
33 42 31 00-0019 EA 4' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,937.77	603.44
33 42 31 00-0020 EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,547.16	696.27
33 42 31 00-0021 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	5,766.36	891.23
33 42 31 00-0022 Cast In Place, Catch Basin (33 42 31 00-0002)		
Note: Inside span, overall depth. Includes concrete, forms, rebar (where required), finish and curing.		
33 42 31 00-0023 3' x 3', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0024 EA 3' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,220.33	372.64
33 42 31 00-0025 EA 3'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,353.49	396.22
33 42 31 00-0026 EA 4' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,593.66	425.56
33 42 31 00-0027 EA 4'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	2,907.05	471.05
33 42 31 00-0028 EA 5' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,156.23	501.41
33 42 31 00-0029 EA 5'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,301.60	525.83
33 42 31 00-0030 EA 6' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,550.95	556.18
33 42 31 00-0031 EA 6'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,693.02	580.69
33 42 31 00-0032 EA 7' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,943.88	610.96
33 42 31 00-0033 EA 7'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	4,087.74	635.46
33 42 31 00-0034 EA 8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	4,337.01	665.82
33 42 31 00-0035 VLF >8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	542.15	83.18
33 42 31 00-0036 3'-6" x 3'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0037 EA 3' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,551.71	430.76
33 42 31 00-0038 EA 3'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,719.52	461.02
33 42 31 00-0039 EA 4' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,969.64	491.38
33 42 31 00-0040 EA 4'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,335.68	544.21
33 42 31 00-0041 EA 5' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,607.23	578.56
33 42 31 00-0042 EA 5'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,774.78	607.06
33 42 31 00-0043 EA 6' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,049.44	641.40
33 42 31 00-0044 EA 6'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,216.99	669.90
33 42 31 00-0045 EA 7' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,489.94	704.26
33 42 31 00-0046 EA 7'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,657.70	732.76
33 42 31 00-0047 EA 8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,930.74	767.10
33 42 31 00-0048 VLF >8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	616.37	95.90
33 42 31 00-0049 4' x 4', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0050 EA 3' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	2,906.42	492.77
33 42 31 00-0051 EA 3'-6" Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,084.17	524.06
33 42 31 00-0052 EA 4' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,367.43	561.10
33 42 31 00-0053 EA 4'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	3,786.71	621.36
33 42 31 00-0054 EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,083.65	659.70
33 42 31 00-0055 EA 5'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,274.99	692.28
33 42 31 00-0056 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,571.93	730.62
33 42 31 00-0057 EA 6'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,763.07	763.20
33 42 31 00-0058 EA 7' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,060.02	801.55
33 42 31 00-0059 EA 7'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,251.36	834.14
33 42 31 00-0060 EA 8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,548.30	872.57
33 42 31 00-0061 VLF >8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	693.51	109.08
33 42 31 00-0062 4'-6" x 4'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0063 EA 3' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,352.02	571.41
33 42 31 00-0064 EA 3'-6" Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,559.17	603.72
33 42 31 00-0065 EA 4' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,870.21	645.49
33 42 31 00-0066 EA 4'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,348.12	714.01
33 42 31 00-0067 EA 5' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,675.11	757.27
33 42 31 00-0068 EA 5'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,896.59	794.68
33 42 31 00-0069 EA 6' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,223.76	837.94
33 42 31 00-0070 EA 6'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,445.24	875.45
33 42 31 00-0071 EA 7' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,772.24	918.71
33 42 31 00-0072 EA 7'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,992.21	956.12
33 42 31 00-0073 EA 8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,320.90	999.38
33 42 31 00-0074 VLF >8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	790.16	124.96
33 42 31 00-0075 5' x 5', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0076 EA 4' Deep, 5' x 5' x 6" Thick Wall, Cast In Place, Catch Basin	4,327.54	724.77
33 42 31 00-0077 EA 4'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	4,859.67	800.90

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0078 EA 5' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,212.43	848.34
33 42 31 00-0079 EA 5'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,458.17	889.92
33 42 31 00-0080 EA 6' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,807.71	937.28
33 42 31 00-0081 EA 6'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,054.95	978.86
33 42 31 00-0082 EA 7' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,406.21	1,026.31
33 42 31 00-0083 EA 7'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,650.24	1,067.90
33 42 31 00-0084 EA 8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	7,003.00	1,115.24
33 42 31 00-0085 VLF >8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	1,379.49	139.44
33 42 31 00-0086 5'-6" x 5'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0087 EA 4' Deep, 5'-6" x 5'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	4,806.96	808.23
33 42 31 00-0088 EA 4'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,566.95	914.91
33 42 31 00-0089 EA 5' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,954.50	967.63
33 42 31 00-0090 EA 5'-6" Deep, 5'-6" x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	6,235.04	1,014.88
33 42 31 00-0091 EA 6' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	6,624.30	1,067.99
33 42 31 00-0092 EA 6'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,906.34	1,115.24
33 42 31 00-0093 EA 7' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,293.89	1,168.35
33 42 31 00-0094 EA 7'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,574.42	1,215.60
33 42 31 00-0095 EA 8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	7,961.98	1,268.70
33 42 31 00-0096 VLF >8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	995.25	158.56
33 42 31 00-0097 6' x 6', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0098 EA 4' Deep, 6' x 6' x 6" Thick Wall, Cast In Place, Catch Basin	5,311.80	895.59
33 42 31 00-0099 EA 4'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,149.01	1,012.66
33 42 31 00-0100 EA 5' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,562.88	1,070.03
33 42 31 00-0101 EA 5'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,869.55	1,121.56
33 42 31 00-0102 EA 6' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,281.90	1,178.93
33 42 31 00-0103 EA 6'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,590.27	1,230.45
33 42 31 00-0104 EA 7' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	8,002.45	1,287.83
33 42 31 00-0105 EA 7'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	8,309.30	1,339.35
33 42 31 00-0106 EA 8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	8,723.18	1,396.72
33 42 31 00-0107 VLF >8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	1,090.45	174.62
33 42 31 00-0108 6'-6" x 6'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0109 EA 4' Deep, 6'-6" x 6'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	5,838.80	987.13
33 42 31 00-0110 EA 4'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,973.98	1,143.65
33 42 31 00-0111 EA 5' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,425.92	1,207.15
33 42 31 00-0112 EA 5'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,772.26	1,264.80
33 42 31 00-0113 EA 6' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	8,224.21	1,328.21
33 42 31 00-0114 EA 6'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,570.55	1,385.96
33 42 31 00-0115 EA 7' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,022.49	1,449.36
33 42 31 00-0116 EA 7'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,368.83	1,507.01
33 42 31 00-0117 EA 8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	9,822.47	1,570.51
33 42 31 00-0118 VLF >8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	1,227.75	196.35
33 42 31 00-0119 7' x 7', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0120 EA 4' Deep, 7' x 7' x 6" Thick Wall, Cast In Place, Catch Basin	6,389.68	1,082.66
33 42 31 00-0121 EA 4'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	7,631.74	1,253.47
33 42 31 00-0122 EA 5' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,110.56	1,321.43
33 42 31 00-0123 EA 5'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,482.16	1,383.45
33 42 31 00-0124 EA 6' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,962.40	1,451.31
33 42 31 00-0125 EA 6'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	9,334.02	1,513.42
33 42 31 00-0126 EA 7' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	9,812.83	1,581.28
33 42 31 00-0127 EA 7'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	10,185.95	1,643.39
33 42 31 00-0128 EA 8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	10,664.68	1,711.25
33 42 31 00-0129 VLF >8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	1,333.13	213.90
33 42 31 00-0130 7'-6" x 7'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0131 EA 4' Deep, 7'-6" x 7'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	7,213.34	1,215.13
33 42 31 00-0132 EA 4'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,316.46	1,367.75
33 42 31 00-0133 EA 5' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,820.45	1,440.07
33 42 31 00-0134 EA 5'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,220.45	1,506.54
33 42 31 00-0135 EA 6' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	9,725.86	1,578.86
33 42 31 00-0136 EA 6'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,125.86	1,645.33
33 42 31 00-0137 EA 7' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,629.85	1,717.65
33 42 31 00-0138 EA 7'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	11,029.85	1,784.12
33 42 31 00-0139 EA 8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	11,535.35	1,856.44
33 42 31 00-0140 VLF >8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	1,441.89	232.09
33 42 31 00-0141 8' x 8', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0142 EA 4' Deep, 8' x 8' x 6" Thick Wall, Cast In Place, Catch Basin	7,835.42	1,322.08
33 42 31 00-0143 EA 4'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	9,026.24	1,486.50
33 42 31 00-0144 EA 5' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	9,557.02	1,563.18
33 42 31 00-0145 EA 5'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	9,983.90	1,634.10



	Utilities	33	
	Stormwater Utilities	33 40	33
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0146 EA 6' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	10,514.58	1,710.79
33 42 31 00-0147 EA 6'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	10,938.44	1,781.71
33 42 31 00-0148 EA 7' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	11,472.13	1,858.40
33 42 31 00-0149 EA 7'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	11,899.00	1,929.32
33 42 31 00-0150 EA 8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	12,421.44	2,006.01
33 42 31 00-0151 VLF >8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	1,553.71	250.75
33 42 31 00-0152 Precast Concrete Catch Basins (33 42 31 00-0002)		
Note: Inside dimensions.		
33 42 31 00-0153 1'-6" Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0154 EA 4' Deep, 1'-6" Diameter Precast Catch Basins.....	655.66	198.29
33 42 31 00-0155 EA 6' Deep, 1'-6" Diameter Precast Catch Basins.....	909.69	297.43
33 42 31 00-0156 EA 8' Deep, 1'-6" Diameter Precast Catch Basins.....	1,150.80	386.66
33 42 31 00-0157 EA 10' Deep, 1'-6" Diameter Precast Catch Basins.....	1,379.33	457.05
33 42 31 00-0158 EA 12' Deep, 1'-6" Diameter Precast Catch Basins.....	1,696.58	579.99
33 42 31 00-0159 EA 14' Deep, 1'-6" Diameter Precast Catch Basins.....	1,940.19	669.21
33 42 31 00-0160 VLF Vertical Linear Foot Over 14' Deep, 1'-6" Diameter Precast Catch Basins.....	134.93	44.62
33 42 31 00-0161 2' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0162 EA 4' Deep, 2' Diameter Precast Catch Basin.....	747.72	220.60
33 42 31 00-0163 EA 6' Deep, 2' Diameter Precast Catch Basin.....	1,031.67	327.17
33 42 31 00-0164 EA 8' Deep, 2' Diameter Precast Catch Basin.....	1,300.06	431.27
33 42 31 00-0165 EA 10' Deep, 2' Diameter Precast Catch Basin.....	1,553.39	503.15
33 42 31 00-0166 EA 12' Deep, 2' Diameter Precast Catch Basin.....	1,921.92	644.43
33 42 31 00-0167 EA 14' Deep, 2' Diameter Precast Catch Basin.....	2,195.13	743.58
33 42 31 00-0168 VLF Vertical Linear Foot Over 14' Deep, 2' Diameter Precast Catch Basin	152.69	53.53
33 42 31 00-0169 3' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0170 EA 4' Deep, 3' Diameter Precast Catch Basin.....	990.88	260.25
33 42 31 00-0171 EA 6' Deep, 3' Diameter Precast Catch Basin.....	1,348.63	384.68
33 42 31 00-0172 EA 8' Deep, 3' Diameter Precast Catch Basin.....	1,691.10	508.11
33 42 31 00-0173 EA 10' Deep, 3' Diameter Precast Catch Basin.....	2,106.16	634.51
33 42 31 00-0174 EA 12' Deep, 3' Diameter Precast Catch Basin.....	2,486.69	756.46
33 42 31 00-0175 EA 14' Deep, 3' Diameter Precast Catch Basin.....	2,853.46	880.39
33 42 31 00-0176 VLF Vertical Linear Foot Over 14' Deep, 3' Diameter Precast Catch Basin	195.99	62.88
33 42 31 00-0177 4' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0178 EA 4' Deep, 4' Diameter Precast Catch Basin.....	1,201.93	289.50
33 42 31 00-0179 EA 6' Deep, 4' Diameter Precast Catch Basin.....	1,560.63	396.57
33 42 31 00-0180 EA 8' Deep, 4' Diameter Precast Catch Basin.....	2,081.71	594.86
33 42 31 00-0181 EA 10' Deep, 4' Diameter Precast Catch Basin.....	2,597.63	743.58
33 42 31 00-0182 EA 12' Deep, 4' Diameter Precast Catch Basin.....	3,069.00	892.29
33 42 31 00-0183 EA 14' Deep, 4' Diameter Precast Catch Basin.....	3,524.79	1,041.00
33 42 31 00-0184 VLF Vertical Linear Foot Over 14' Deep, 4' Diameter Precast Catch Basin	241.52	74.35
33 42 31 00-0185 5' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0186 EA 4' Deep, 5' Diameter Precast Catch Basin.....	1,617.21	396.57
33 42 31 00-0187 EA 6' Deep, 5' Diameter Precast Catch Basin.....	2,207.45	594.86
33 42 31 00-0188 EA 8' Deep, 5' Diameter Precast Catch Basin.....	2,800.63	793.15
33 42 31 00-0189 EA 10' Deep, 5' Diameter Precast Catch Basin.....	3,422.75	991.43
33 42 31 00-0190 EA 12' Deep, 5' Diameter Precast Catch Basin.....	4,035.24	1,189.72
33 42 31 00-0191 EA 14' Deep, 5' Diameter Precast Catch Basin.....	4,695.20	1,388.01
33 42 31 00-0192 VLF Vertical Linear Foot Over 14' Deep, 5' Diameter Precast Catch Basin	321.32	99.14
33 42 31 00-0193 6' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0194 EA 4' Deep, 6' Diameter Precast Catch Basin.....	2,364.62	594.86
33 42 31 00-0195 EA 6' Deep, 6' Diameter Precast Catch Basin.....	3,194.74	892.29
33 42 31 00-0196 EA 8' Deep, 6' Diameter Precast Catch Basin.....	4,084.22	1,189.72
33 42 31 00-0197 EA 10' Deep, 6' Diameter Precast Catch Basin.....	5,089.57	1,487.15
33 42 31 00-0198 EA 12' Deep, 6' Diameter Precast Catch Basin.....	6,063.47	1,784.58
33 42 31 00-0199 EA 14' Deep, 6' Diameter Precast Catch Basin.....	7,013.69	2,082.01
33 42 31 00-0200 VLF Vertical Linear Foot Over 14' Deep, 6' Diameter Precast Catch Basin	478.84	148.72
33 42 31 00-0201 Precast Catch Basins Accessories (33 42 31 00-0152)		
33 42 31 00-0202 EA Single Or Double Wing Slab Top With Throat.....	1,389.90	644.43
33 42 31 00-0203 EA 4' x 4' Weir Box, Precast Catch Basin.....	666.30	79.32
33 42 31 00-0204 EA 4' Diameter Inlet Round To Square Adapter, Precast Catch Basin.....	369.43	84.27
33 42 31 00-0205 EA 3' Diameter, Up To 6" High, Precast Extension Ring.....	458.49	123.93
For Each Additional Inch In Height, Add	55.74	
33 42 31 00-0206 EA 4' Diameter, Up To 6" High, Precast Extension Ring.....	540.51	148.72
For Each Additional Inch In Height, Add	65.28	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0207 EA 5' Diameter, Up To 6" High, Precast Extension Ring.....	630.48	173.50
For Each Additional Inch In Height, Add	76.20	
33 42 31 00-0208 EA 6' Diameter, Up To 6" High, Precast Extension Ring.....	785.35	247.86
For Each Additional Inch In Height, Add	89.63	
33 42 31 00-0209 EA Adjust Existing Catch Basin Inlet Grate To Match Grade.....	594.83	
33 42 31 00-0210 Catch Basin Risers (33 42 31 00-0152)		
33 42 31 00-0211 EA Up To 860 Square Inch, Up to 2" Rise, Catch Basin Riser.....	377.39	
33 42 31 00-0212 EA >860 To 1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	422.14	
33 42 31 00-0213 EA >1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	475.37	
33 42 31 00-0214 EA Up To 860 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	406.39	
33 42 31 00-0215 EA >860 To 1140 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	454.14	
33 42 31 00-0216 EA >1140 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	513.13	
33 42 31 00-0217 EA Up To 860 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	449.94	
33 42 31 00-0218 EA >860 To 1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	492.31	
33 42 31 00-0219 EA >1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	551.51	
33 42 31 00-0220 Cast In Place, Storm Drain Cleanout (33 42 31 00-0002)		
Note: Inside span.		
33 42 31 00-0221 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	4,701.47	735.08
33 42 31 00-0222 EA 6' Deep, 4' x 5' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	5,343.45	838.87
33 42 31 00-0223 EA 6' Deep, 4' x 6' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	6,058.38	952.04
33 42 31 00-0224 EA 7' Deep, 4' x 7' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	7,277.90	1,142.07
33 42 31 00-0225 EA 8' Deep, 4' x 8' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout.....	8,824.91	1,378.81
33 42 31 00-0226 Precast Concrete Inlet Boxes (33 42 31 00-0002)		
Note: Inside dimensions.		
33 42 31 00-0227 Precast Concrete Inlet Boxes (33 42 31 00-0226)		
33 42 31 00-0228 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
Note: Yard inlet.		
33 42 31 00-0229 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0228)		
33 42 31 00-0230 EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	687.74	69.40
33 42 31 00-0231 EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	808.97	84.27
33 42 31 00-0232 EA 36" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	930.21	99.14
33 42 31 00-0233 EA 42" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	1,052.68	114.63
33 42 31 00-0234 24" x 24" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0228)		
33 42 31 00-0235 EA 6" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	175.76	
33 42 31 00-0236 EA 12" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	282.12	
33 42 31 00-0237 EA 18" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	398.40	
33 42 31 00-0238 EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	514.68	
33 42 31 00-0239 EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	630.95	
33 42 31 00-0240 EA 36" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	747.23	
33 42 31 00-0241 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0242 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0241)		
33 42 31 00-0243 EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,417.39	194.33
33 42 31 00-0244 EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,595.35	224.69
33 42 31 00-0245 EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,773.33	255.06
33 42 31 00-0246 EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,951.45	285.49
33 42 31 00-0247 EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,129.57	315.93
33 42 31 00-0248 EA 66" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,307.68	346.36
33 42 31 00-0249 EA 72" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,485.79	376.81
33 42 31 00-0250 22" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0241)		
33 42 31 00-0251 EA 6" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	344.39	
33 42 31 00-0252 EA 12" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	549.99	
33 42 31 00-0253 EA 18" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	599.59	
33 42 31 00-0254 EA 24" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	766.41	
33 42 31 00-0255 EA 30" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	933.22	
33 42 31 00-0256 EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,092.12	
33 42 31 00-0257 EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,270.09	
33 42 31 00-0258 EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,448.06	
33 42 31 00-0259 EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,626.19	
33 42 31 00-0260 EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,804.30	
33 42 31 00-0261 EA 66" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,982.42	
33 42 31 00-0262 EA 72" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	2,160.53	
33 42 31 00-0263 30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0264 30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0263)		



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0265	EA	36" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,370.59	213.76
33 42 31 00-0266	EA	42" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,549.30	247.16
33 42 31 00-0267	EA	48" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,728.01	280.56
33 42 31 00-0268	EA	54" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,906.88	314.05
33 42 31 00-0269	EA	60" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,085.75	347.52
33 42 31 00-0270	EA	66" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,264.62	381.00
33 42 31 00-0271	EA	72" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,443.49	414.48
33 42 31 00-0272		30" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0263)		
33 42 31 00-0273	EA	6" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	341.78	
33 42 31 00-0274	EA	12" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	539.76	
33 42 31 00-0275	EA	18" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	590.30	
33 42 31 00-0276	EA	24" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	753.71	
33 42 31 00-0277	EA	30" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	917.12	
33 42 31 00-0278	EA	36" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,079.55	
33 42 31 00-0279	EA	42" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,255.59	
33 42 31 00-0280	EA	48" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,430.65	
33 42 31 00-0281	EA	54" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,606.68	
33 42 31 00-0282	EA	60" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,781.75	
33 42 31 00-0283	EA	66" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,957.79	
33 42 31 00-0284	EA	72" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	2,133.82	
33 42 31 00-0285		42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0286		42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0285)		
33 42 31 00-0287	EA	36" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,627.15	233.19
33 42 31 00-0288	EA	42" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,836.91	271.08
33 42 31 00-0289	EA	48" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,046.69	309.95
33 42 31 00-0290	EA	54" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,255.49	347.85
33 42 31 00-0291	EA	60" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,465.26	386.71
33 42 31 00-0292	EA	66" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,675.03	424.60
33 42 31 00-0293	EA	72" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,883.83	462.50
33 42 31 00-0294		42" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0285)		
33 42 31 00-0295	EA	6" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	376.36	
33 42 31 00-0296	EA	12" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	606.96	
33 42 31 00-0297	EA	18" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	658.95	
33 42 31 00-0298	EA	24" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	843.95	
33 42 31 00-0299	EA	30" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,028.94	
33 42 31 00-0300	EA	36" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,213.94	
33 42 31 00-0301	EA	42" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,412.05	
33 42 31 00-0302	EA	48" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,610.16	
33 42 31 00-0303	EA	54" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,808.27	
33 42 31 00-0304	EA	60" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	2,006.40	
33 42 31 00-0305	EA	66" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	2,204.50	
33 42 31 00-0306	EA	72" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	2,402.61	
33 42 31 00-0307		42" x 48" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0285)		
33 42 31 00-0308	EA	42" x 48" ID, Precast Concrete Inlet Box Top Slab.....	924.96	145.75
33 42 31 00-0309		48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0310		48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0309)		
33 42 31 00-0311	EA	36" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,298.46	259.11
33 42 31 00-0312	EA	42" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,577.59	301.70
33 42 31 00-0313	EA	48" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,856.73	344.28
33 42 31 00-0314	EA	54" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,135.56	386.71
33 42 31 00-0315	EA	60" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,414.38	429.15
33 42 31 00-0316	EA	66" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,693.20	471.59
33 42 31 00-0317	EA	72" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,972.03	514.02
33 42 31 00-0318		48" x 54" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0309)		
33 42 31 00-0319	EA	6" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	378.57	
33 42 31 00-0320	EA	12" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	598.44	
33 42 31 00-0321	EA	18" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	873.36	
33 42 31 00-0322	EA	24" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,148.29	
33 42 31 00-0323	EA	30" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,407.03	
33 42 31 00-0324	EA	36" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,681.94	
33 42 31 00-0325	EA	42" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,961.08	
33 42 31 00-0326	EA	48" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,240.22	
33 42 31 00-0327	EA	54" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,519.05	
33 42 31 00-0328	EA	60" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,797.87	
33 42 31 00-0329	EA	66" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	3,076.69	
33 42 31 00-0330	EA	72" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	3,355.52	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0331 48" x 54" ID, Precast Concrete Inlet Box Tops <small>(33 42 31 00-0309)</small>		
33 42 31 00-0332 EA 48" x 54" ID, Precast Concrete Inlet Box Top Slab	1,005.21	157.89
33 42 31 00-0333 48" x 66" ID, Precast Concrete Inlet Boxes <small>(33 42 31 00-0227)</small>		
33 42 31 00-0334 48" x 66" ID, Precast Concrete Inlet Boxes <small>(33 42 31 00-0333)</small>		
33 42 31 00-0335 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box	2,653.60	326.48
33 42 31 00-0336 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box	2,961.60	381.02
33 42 31 00-0337 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box	3,269.60	435.56
33 42 31 00-0338 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box	3,577.01	489.80
33 42 31 00-0339 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box	3,884.41	544.05
33 42 31 00-0340 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box	4,191.81	598.30
33 42 31 00-0341 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box	4,499.20	652.54
33 42 31 00-0342 48" x 66" ID, Precast Concrete Inlet Box Risers <small>(33 42 31 00-0333)</small>		
33 42 31 00-0343 EA 6" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	416.55	
33 42 31 00-0344 EA 12" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	642.67	
33 42 31 00-0345 EA 18" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	950.40	
33 42 31 00-0346 EA 24" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	1,258.14	
33 42 31 00-0347 EA 30" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	1,538.67	
33 42 31 00-0348 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	1,846.41	
33 42 31 00-0349 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,154.41	
33 42 31 00-0350 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,462.41	
33 42 31 00-0351 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	2,769.81	
33 42 31 00-0352 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	3,077.21	
33 42 31 00-0353 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	3,384.61	
33 42 31 00-0354 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser	3,692.00	
33 42 31 00-0355 48" x 66" ID, Precast Concrete Inlet Box Tops <small>(33 42 31 00-0333)</small>		
33 42 31 00-0356 EA 48" x 66" ID, Precast Concrete Inlet Box Top Slab	1,117.74	176.84
33 42 31 00-0357 42" x 102" ID, Precast Concrete Inlet Boxes <small>(33 42 31 00-0227)</small>		
33 42 31 00-0358 42" x 102" ID, Precast Concrete Inlet Boxes <small>(33 42 31 00-0357)</small>		
33 42 31 00-0359 EA 36" Height, 42" x 102" ID, Precast Concrete Inlet Box	3,327.91	440.15
33 42 31 00-0360 EA 42" Height, 42" x 102" ID, Precast Concrete Inlet Box	3,718.10	513.03
33 42 31 00-0361 EA 48" Height, 42" x 102" ID, Precast Concrete Inlet Box	4,108.31	584.93
33 42 31 00-0362 EA 54" Height, 42" x 102" ID, Precast Concrete Inlet Box	4,497.53	657.80
33 42 31 00-0363 EA 60" Height, 42" x 102" ID, Precast Concrete Inlet Box	4,887.73	729.71
33 42 31 00-0364 EA 66" Height, 42" x 102" ID, Precast Concrete Inlet Box	5,276.96	801.60
33 42 31 00-0365 EA 72" Height, 42" x 102" ID, Precast Concrete Inlet Box	5,668.12	874.48
33 42 31 00-0366 42" x 102" ID, Precast Concrete Inlet Box Risers <small>(33 42 31 00-0357)</small>		
33 42 31 00-0367 EA 6" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	559.26	
33 42 31 00-0368 EA 12" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	848.42	
33 42 31 00-0369 EA 18" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	1,231.81	
33 42 31 00-0370 EA 24" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	1,615.21	
33 42 31 00-0371 EA 30" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	1,970.42	
33 42 31 00-0372 EA 36" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	2,353.82	
33 42 31 00-0373 EA 42" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	2,744.02	
33 42 31 00-0374 EA 48" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	3,134.22	
33 42 31 00-0375 EA 54" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	3,523.45	
33 42 31 00-0376 EA 60" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	3,913.64	
33 42 31 00-0377 EA 66" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	4,302.87	
33 42 31 00-0378 EA 72" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	4,693.07	
33 42 31 00-0379 42" x 102" ID, Precast Concrete Inlet Box Tops <small>(33 42 31 00-0357)</small>		
33 42 31 00-0380 EA 42" x 102" ID, Precast Concrete Inlet Box Top Slab	1,517.83	194.33
33 42 31 00-0381 Frames And Grates For Inlets <small>(33 42 31 00-0226)</small>		
33 42 31 00-0382 Inlet Frames And Grates <small>(33 42 31 00-0381)</small>		
33 42 31 00-0383 EA 24" x 24", Heavy Duty Inlet Grate	378.05	45.08
Note: For type A, B, D, or E inlets.		
33 42 31 00-0384 EA 47-3/4" x 21-3/4", Bicycle Safe Inlet Grate (US Foundry 6352 GRT)	493.03	45.08
Note: For type A, B, D, or E inlets.		
33 42 31 00-0385 EA 47-3/4" x 21-3/4", Phase II Stormwater Compliant Inlet Grate (US Foundry 6352 GRT)	493.03	45.08
Note: Includes legend: Dump No Waste "Drains To Waterways".		
33 42 31 00-0386 EA Phase II Storm Water Compliant Grate, Echo Grate, Type "B" And "D" Inlet Covers (US Foundry 6352 GRT)	493.03	45.08
Note: Legend: Dump No Waste "Drains to Waterways"		
33 42 31 00-0387 EA Parallel Bar Grates For Type A, B, D And E Inlets (Campbell Foundry 2617-0362)	540.99	45.08
33 42 31 00-0388 EA Type B Inlet Dirt Plate (US Foundry 5217 BK)	391.34	90.14



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31	00-0389	EA	Back Plate For Type B Inlets (Campbell Foundry 2548-1942).....	458.48	90.14
33 42 31	00-0390	EA	Phase II Echo-Safe Bar For Series 2500/2600 Curb Inlets (Campbell Foundry 25419EC4) Note: Includes cam action clamping system, stainless steel badge labeled to center of plate, steel plate welded to bar with legend: Dump No Waste "Drains to Waterways".	570.69	112.68
33 42 31	00-0391	EA	1-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	484.36	112.68
33 42 31	00-0392	EA	2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	493.95	112.68
33 42 31	00-0393	EA	2-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	513.14	112.68
33 42 31	00-0394	EA	3" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	532.32	112.68
33 42 31	00-0395	EA	2" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	513.14	112.68
33 42 31	00-0396	EA	2-1/2" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	532.32	112.68
33 42 31	00-0397	EA	3" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	551.51	112.68
33 42 31	00-0398	EA	2" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	800.91	112.68
33 42 31	00-0399	EA	2-1/2" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	839.28	112.68
33 42 31	00-0400	EA	3" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	877.65	112.68
33 42 31	00-0401	EA	2", 3 Sided Extension Frame For Type A, B, D, And E Inlet (Campbell Foundry 2701).....	589.88	112.68
33 42 31	00-0402	EA	6" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N6).....	532.32	112.68
33 42 31	00-0403	EA	8" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N8).....	532.32	112.68
33 42 31	00-0404	EA	6" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-6).....	1,107.77	112.68
33 42 31	00-0405	EA	8" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-8).....	1,107.77	112.68
33 42 31	00-0406	EA	Safety Bars For Type B And D Inlets (General Foundries 5218 SB).....	439.75	123.96
33 42 31	00-0407	EA	6", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 648)..... Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.	622.01	123.96
33 42 31	00-0408	EA	8", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 848)..... Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.	622.01	123.96
33 42 31	00-0409	EA	10", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 1048)..... Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.	689.16	123.96
33 42 31	00-0410	EA	Type B Inlet Frame (US Foundry 5216 FRM).....	794.68	123.96
33 42 31	00-0411	EA	Type D Inlet Frame (US Foundry 2999 FRM).....	679.56	123.96
33 42 31	00-0412	EA	Type B Inlet Frame (Campbell Foundry 2618-0202).....	976.93	123.96
33 42 31	00-0413	EA	Type D Inlet Frame (Campbell Foundry 2617-0002).....	861.82	123.96
33 42 31	00-0414	EA	Type A Inlet, Single Frame And Grate (US Foundry 52340).....	1,108.80	180.30
33 42 31	00-0415	EA	Type E Inlet, Single Frame And Grate (US Foundry 52342).....	1,799.46	180.30
33 42 31	00-0416	EA	Type A Inlet, Single Frame And Grate (General Foundries 52340).....	1,080.02	180.30
33 42 31	00-0417	EA	Type E Inlet, Double Frame And Grate (General Foundries 52342).....	1,709.29	180.30
33 42 31	00-0418	EA	Oversized Type A Inlet, Single Frame And Reticuline Grate (US Foundry 82340).....	1,816.69	270.44
33 42 31	00-0419	EA	Heavy Duty Rectangular Frame And Grate (Campbell Foundry 3084).....	1,849.84	360.58
33 42 31	00-0420	EA	6" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52186).....	2,035.35	360.58
33 42 31	00-0421	EA	8" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52198).....	2,035.35	360.58
33 42 31	00-0422	EA	6" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72266).....	1,795.54	360.58
33 42 31	00-0423	EA	8" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72268).....	1,795.54	360.58
33 42 31	00-0424	EA	Type B And C Inlet Frame And Grate With Type N Curb And Back Plate (Campbell Foundry GFI 52198).....	2,112.09	360.58
33 42 31	00-0425		Concrete Drainage Inlet Structures (CALTRANS) (33 42 31 00-0001)		
33 42 31	00-0426		Type OS Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31	00-0427	EA	3' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	2,598.51	
33 42 31	00-0428	EA	4' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,020.28	
33 42 31	00-0429	EA	5' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,412.43	
33 42 31	00-0430	EA	6' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,774.92	
33 42 31	00-0431	EA	7' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,107.80	
33 42 31	00-0432	EA	8' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,411.04	
33 42 31	00-0433	EA	8' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	6,002.17	
33 42 31	00-0434	EA	10' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	6,999.11	
33 42 31	00-0435	EA	12' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	7,920.12	
33 42 31	00-0436	EA	14' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,767.17	
33 42 31	00-0437	EA	16' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,584.83	
33 42 31	00-0438	EA	18' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,337.96	
33 42 31	00-0439	EA	20' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	11,026.58	
33 42 31	00-0440		Type OL-7 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31	00-0441	EA	3' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,538.40	
33 42 31	00-0442	EA	4' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,933.09	
33 42 31	00-0443	EA	5' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,298.12	
33 42 31	00-0444	EA	6' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,633.53	
33 42 31	00-0445	EA	7' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,938.34	
33 42 31	00-0446	EA	8' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,214.49	
33 42 31	00-0447	EA	8' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	6,758.35	
33 42 31	00-0448	EA	10' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	7,732.19	
33 42 31	00-0449	EA	12' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,630.08	
33 42 31	00-0450	EA	14' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,453.05	
33 42 31	00-0451	EA	16' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,250.82	
33 42 31	00-0452	EA	18' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,984.09	
33 42 31	00-0453	EA	20' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	11,652.83	
33 42 31	00-0454		Type OL-10 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31	00-0455	EA	3' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,404.57	
33 42 31	00-0456	EA	4' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,774.50	
33 42 31	00-0457	EA	5' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,113.80	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 31 00-0458	EA	6' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,424.46
33 42 31 00-0459	EA	7' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,704.51
33 42 31 00-0460	EA	8' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,954.91
33 42 31 00-0461	EA	8' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,514.54
33 42 31 00-0462	EA	10' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,464.27
33 42 31 00-0463	EA	12' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,340.05
33 42 31 00-0464	EA	14' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,139.90
33 42 31 00-0465	EA	16' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,916.82
33 42 31 00-0466	EA	18' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,630.20
33 42 31 00-0467	EA	20' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,278.08

33 42 31 00-0468 Type OL-14 Concrete Drainage Inlet Structure (33 42 31 00-0425)

33 42 31 00-0469	EA	3' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,639.32
33 42 31 00-0470	EA	4' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,972.80
33 42 31 00-0471	EA	5' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,276.66
33 42 31 00-0472	EA	6' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,550.88
33 42 31 00-0473	EA	7' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,795.46
33 42 31 00-0474	EA	8' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,010.41
33 42 31 00-0475	EA	8' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,585.78
33 42 31 00-0476	EA	10' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,502.71
33 42 31 00-0477	EA	12' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,344.69
33 42 31 00-0478	EA	14' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,111.72
33 42 31 00-0479	EA	16' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,861.38
33 42 31 00-0480	EA	18' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,545.54
33 42 31 00-0481	EA	20' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,165.18

33 42 31 00-0482 Type OL-21 Concrete Drainage Inlet Structure (33 42 31 00-0425)

33 42 31 00-0483	EA	3' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,145.69
33 42 31 00-0484	EA	4' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,406.60
33 42 31 00-0485	EA	5' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,637.87
33 42 31 00-0486	EA	6' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,839.52
33 42 31 00-0487	EA	7' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	9,010.54
33 42 31 00-0488	EA	8' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	9,152.92
33 42 31 00-0489	EA	8' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,681.03
33 42 31 00-0490	EA	10' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,533.32
33 42 31 00-0491	EA	12' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,310.68
33 42 31 00-0492	EA	14' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,013.10
33 42 31 00-0493	EA	16' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,707.10
33 42 31 00-0494	EA	18' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,335.59
33 42 31 00-0495	EA	20' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,899.58

33 42 31 00-0496 Type GOL-7 Concrete Drainage Inlet Structure (33 42 31 00-0425)

33 42 31 00-0497	EA	3' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,294.00
33 42 31 00-0498	EA	4' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,729.76
33 42 31 00-0499	EA	5' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,131.56
33 42 31 00-0500	EA	6' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,499.38
33 42 31 00-0501	EA	7' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,834.21
33 42 31 00-0502	EA	8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,136.08
33 42 31 00-0503	EA	8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,813.85
33 42 31 00-0504	EA	10' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,898.53
33 42 31 00-0505	EA	12' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,898.97
33 42 31 00-0506	EA	14' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,814.18
33 42 31 00-0507	EA	16' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,702.92
33 42 31 00-0508	EA	18' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,519.11
33 42 31 00-0509	EA	20' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,261.76

33 42 31 00-0510 Type GOL-10 Concrete Drainage Inlet Structure (33 42 31 00-0425)

33 42 31 00-0511	EA	3' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,233.89
33 42 31 00-0512	EA	4' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,641.57
33 42 31 00-0513	EA	5' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,016.27
33 42 31 00-0514	EA	6' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,358.00
33 42 31 00-0515	EA	7' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,665.75
33 42 31 00-0516	EA	8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,939.52
33 42 31 00-0517	EA	8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,617.29
33 42 31 00-0518	EA	10' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,676.87
33 42 31 00-0519	EA	12' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,652.21
33 42 31 00-0520	EA	14' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,543.27
33 42 31 00-0521	EA	16' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,410.36
33 42 31 00-0522	EA	18' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,204.87
33 42 31 00-0523	EA	20' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,926.85

33 42 31 00-0524 Type G-1 Concrete Drainage Inlet Structure (33 42 31 00-0425)

33 42 31 00-0525	EA	3' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,750.77
33 42 31 00-0526	EA	4' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,094.00
33 42 31 00-0527	EA	5' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,412.51



	Utilities	33	
	Stormwater Utilities	33 40	33
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0528 EA 6' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,708.26	
33 42 31 00-0529 EA 7' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,981.25	
33 42 31 00-0530 EA 8' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,229.52	
33 42 31 00-0531 Type G-2 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0532 EA 3' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,414.22	
33 42 31 00-0533 EA 4' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,800.23	
33 42 31 00-0534 EA 5' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,159.14	
33 42 31 00-0535 EA 6' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,490.96	
33 42 31 00-0536 EA 7' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,795.69	
33 42 31 00-0537 EA 8' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,072.35	
33 42 31 00-0538 EA 8' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,513.81	
33 42 31 00-0539 EA 10' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,433.64	
33 42 31 00-0540 EA 12' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,284.56	
33 42 31 00-0541 EA 14' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,066.56	
33 42 31 00-0542 EA 16' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,821.48	
33 42 31 00-0543 EA 18' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,517.10	
33 42 31 00-0544 EA 20' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,152.41	
33 42 31 00-0545 Type G-3 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0546 EA 3' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,898.21	
33 42 31 00-0547 EA 4' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,236.76	
33 42 31 00-0548 EA 5' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,551.57	
33 42 31 00-0549 EA 6' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,843.64	
33 42 31 00-0550 EA 7' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,110.96	
33 42 31 00-0551 EA 8' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,355.54	
33 42 31 00-0552 Type G-4_24 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0553 EA 3' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,340.50	
33 42 31 00-0554 EA 4' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,728.85	
33 42 31 00-0555 EA 5' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,090.10	
33 42 31 00-0556 EA 6' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,423.27	
33 42 31 00-0557 EA 7' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,730.34	
33 42 31 00-0558 EA 8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,009.33	
33 42 31 00-0559 EA 8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,482.30	
33 42 31 00-0560 EA 10' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,403.79	
33 42 31 00-0561 EA 12' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,255.39	
33 42 31 00-0562 EA 14' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,038.07	
33 42 31 00-0563 EA 16' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,793.52	
33 42 31 00-0564 EA 18' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,489.68	
33 42 31 00-0565 EA 20' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,126.53	
33 42 31 00-0566 Type G-4_18 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0567 EA 3' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,414.22	
33 42 31 00-0568 EA 4' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,800.23	
33 42 31 00-0569 EA 5' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,159.14	
33 42 31 00-0570 EA 6' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,490.96	
33 42 31 00-0571 EA 7' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,795.69	
33 42 31 00-0572 EA 8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,072.35	
33 42 31 00-0573 EA 8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,513.81	
33 42 31 00-0574 EA 10' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,433.64	
33 42 31 00-0575 EA 12' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,284.56	
33 42 31 00-0576 EA 14' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,066.56	
33 42 31 00-0577 EA 16' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,821.48	
33 42 31 00-0578 EA 18' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,517.10	
33 42 31 00-0579 EA 20' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,152.41	
33 42 31 00-0580 Type G-5 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0581 EA 3' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,879.77	
33 42 31 00-0582 EA 4' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,218.67	
33 42 31 00-0583 EA 5' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,534.81	
33 42 31 00-0584 EA 6' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,826.22	
33 42 31 00-0585 EA 7' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,094.87	
33 42 31 00-0586 EA 8' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,339.80	
33 42 31 00-0587 Type G-6 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0588 EA 3' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,916.63	
33 42 31 00-0589 EA 4' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,254.85	
33 42 31 00-0590 EA 5' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,569.33	
33 42 31 00-0591 EA 6' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,860.06	
33 42 31 00-0592 EA 7' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,127.06	
33 42 31 00-0593 EA 8' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,371.30	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 31 00-0594	Type GT1 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0595	EA	3' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,206.68
33 42 31 00-0596	EA	4' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,736.04
33 42 31 00-0597	EA	5' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,265.45
33 42 31 00-0598	EA	6' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,683.82
33 42 31 00-0599	EA	7' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,101.23
33 42 31 00-0600	EA	8' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,482.30
33 42 31 00-0601	Type GT2 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0602	EA	3' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,888.56
33 42 31 00-0603	EA	4' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,464.96
33 42 31 00-0604	EA	5' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,999.58
33 42 31 00-0605	EA	6' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,493.40
33 42 31 00-0606	EA	7' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,945.42
33 42 31 00-0607	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,356.64
33 42 31 00-0608	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,507.01
33 42 31 00-0609	EA	10' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,863.18
33 42 31 00-0610	EA	12' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,116.20
33 42 31 00-0611	EA	14' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,267.09
33 42 31 00-0612	EA	16' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,379.79
33 42 31 00-0613	EA	18' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,403.64
33 42 31 00-0614	EA	20' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,338.64
33 42 31 00-0615	Type GT3 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0616	EA	3' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,188.25
33 42 31 00-0617	EA	4' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,717.95
33 42 31 00-0618	EA	5' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,211.33
33 42 31 00-0619	EA	6' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,667.39
33 42 31 00-0620	EA	7' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,085.12
33 42 31 00-0621	EA	8' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,466.55
33 42 31 00-0622	Type GT4 Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0623	EA	3' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,017.57
33 42 31 00-0624	EA	4' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,589.64
33 42 31 00-0625	EA	5' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,120.91
33 42 31 00-0626	EA	6' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,610.37
33 42 31 00-0627	EA	7' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,059.05
33 42 31 00-0628	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,466.91
33 42 31 00-0629	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,522.78
33 42 31 00-0630	EA	10' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,878.59
33 42 31 00-0631	EA	12' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,131.28
33 42 31 00-0632	EA	14' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,280.84
33 42 31 00-0633	EA	16' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,393.27
33 42 31 00-0634	EA	18' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,416.85
33 42 31 00-0635	EA	20' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,351.59
33 42 31 00-0636	Type GO Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0637	EA	3' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,285.22
33 42 31 00-0638	EA	4' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,657.47
33 42 31 00-0639	EA	5' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,003.30
33 42 31 00-0640	EA	6' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,322.73
33 42 31 00-0641	EA	7' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,615.73
33 42 31 00-0642	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,883.29
33 42 31 00-0643	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	5,340.51
33 42 31 00-0644	EA	10' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	6,232.92
33 42 31 00-0645	EA	12' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	7,056.88
33 42 31 00-0646	EA	14' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	7,814.42
33 42 31 00-0647	EA	16' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,547.00
33 42 31 00-0648	EA	18' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	9,220.45
33 42 31 00-0649	EA	20' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	9,836.80
33 42 31 00-0650	Type GDO Concrete Drainage Inlet Structure (33 42 31 00-0425)		
33 42 31 00-0651	EA	3' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,985.52
33 42 31 00-0652	EA	4' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,474.88
33 42 31 00-0653	EA	5' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,929.65
33 42 31 00-0654	EA	6' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,350.82
33 42 31 00-0655	EA	7' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,736.43
33 42 31 00-0656	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	5,088.45
33 42 31 00-0657	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	6,868.63
33 42 31 00-0658	EA	10' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,018.85
33 42 31 00-0659	EA	12' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	9,082.22
33 42 31 00-0660	EA	14' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	10,059.72
33 42 31 00-0661	EA	16' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	11,003.77
33 42 31 00-0662	EA	18' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	11,872.99



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0663 EA 20' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness.....	12,667.38	
33 42 31 00-0664 Catch Basin Frames And Covers (33 42 31 00-0001)		
33 42 31 00-0665 Cast Iron Frames And Covers (33 42 31 00-0664)		
33 42 31 00-0666 EA 18" Diameter Cast Iron Catch Basin Frame And Cover.....	454.99	99.14
33 42 31 00-0667 EA 22" Diameter Cast Iron Catch Basin Frame And Cover.....	563.00	112.03
33 42 31 00-0668 EA 24" Diameter Cast Iron Catch Basin Frame And Cover.....	626.61	115.99
33 42 31 00-0669 EA 26" Diameter Cast Iron Catch Basin Frame And Cover.....	701.93	134.84
33 42 31 00-0670 EA 28" Diameter Cast Iron Catch Basin Frame And Cover.....	808.96	153.67
33 42 31 00-0671 EA 32" Diameter Cast Iron Catch Basin Frame And Cover.....	1,239.17	160.61
33 42 31 00-0672 EA 16" x 16" Cast Iron Catch Basin Frame And Cover.....	691.06	121.95
33 42 31 00-0673 EA 18" x 24" Cast Iron Catch Basin Frame And Cover.....	885.06	140.78
33 42 31 00-0674 EA 20" x 27" Cast Iron Catch Basin Frame And Cover.....	990.41	146.73
33 42 31 00-0675 EA 23" x 23" Cast Iron Catch Basin Frame And Cover.....	942.67	146.73
33 42 31 00-0676 EA 24" x 24" Cast Iron Catch Basin Frame And Cover.....	975.32	152.68
33 42 31 00-0677 EA 26" x 26" Cast Iron Catch Basin Frame And Cover.....	1,042.97	158.63
33 42 31 00-0678 EA 24" x 36" Cast Iron Catch Basin Frame And Cover.....	1,236.94	170.53
33 42 31 00-0679 Area Yard Drain (33 42 31 00-0001)		
33 42 31 00-0680 Ductile Iron Grates (33 42 31 00-0679)		
Note: Not for traffic loading.		
33 42 31 00-0681 EA 8" Diameter Ductile Iron Grate Adapter Necks Down To 4" and 6" Diameter Pipe.....	164.31	34.24
33 42 31 00-0682 EA 10" Diameter Ductile Iron Grate Adapters To 4", 6", or 8" Diameter Pipe.....	204.15	36.53
33 42 31 00-0683 EA 12" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe.....	494.62	45.66
33 42 31 00-0684 EA 15" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe.....	590.90	54.78
33 42 33 Stormwater Curbside Drains and Inlets (33 42)		
33 42 33 00-0001 Curb Inlet Frames And Covers (33 42 33)		
33 42 33 00-0002 Cast Iron Curb Inlet Frames And Covers (33 42 33 00-0001)		
33 42 33 00-0003 EA 20" x 22" Cast Iron Curb Inlet Frame And Cover.....	845.57	115.99
33 42 33 00-0004 EA 22" x 24" Cast Iron Curb Inlet Frame And Cover.....	906.57	134.84
33 42 33 00-0005 EA 24" x 24" Cast Iron Curb Inlet Frame And Cover.....	937.85	134.84
33 42 33 00-0006 EA 27" x 27" Cast Iron Curb Inlet Frame And Cover.....	1,027.61	158.63
33 42 33 00-0007 EA 36" x 24" Cast Iron Curb Inlet Frame And Cover.....	1,023.20	169.54
33 42 36 Stormwater Trench Drains (33 42)		
33 42 36 00-0001 Modular Trench Drains (33 42 36)		
See CSI section 03 31 13 00-0011 for concrete.		
33 42 36 00-0002 Modular Trench Drains (33 42 36 00-0001)		
Note: Excludes grates. See CSI section 33 42 36 00-0118 for grates.		
33 42 36 00-0003 4" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0004 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0003)		
33 42 36 00-0005 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0004)		
33 42 36 00-0006 LF 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain (Zurn Z844-C).....	62.53	15.87
For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	99.22	
For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	198.45	
For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	317.52	
For Type 304 Stainless Steel Top Veneer Frame, Add	79.38	
For Aluminum Veneer Bronze Anodized Frame, Add	39.69	
33 42 36 00-0007 Outlet Adapters For 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0004)		
33 42 36 00-0008 EA Closed End Cap For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain.....	47.74	
33 42 36 00-0009 EA No-Hub End Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain.....	57.66	
33 42 36 00-0010 EA No-Hub Bottom Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain.....	57.66	
33 42 36 00-0011 6" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0012 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0011)		
33 42 36 00-0013 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0012)		
33 42 36 00-0014 LF 6" Wide, High Density Polyethylene, Modular Trench Drain.....	201.39	15.87
For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	99.22	
For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	198.45	
For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	317.52	
For Type 304 Stainless Steel Top Veneer Frame, Add	79.38	
For Aluminum Veneer Bronze Anodized Frame, Add	39.69	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

33 42 36 00-0015		Outlet Adapters For 6" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0012)</small>		
33 42 36 00-0016	EA	Closed End Cap For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	91.27	
33 42 36 00-0017	EA	No-Hub End Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	101.19	
33 42 36 00-0018	EA	No-Hub Bottom Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	101.19	
33 42 36 00-0019		Other Fittings For 6" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0012)</small>		
33 42 36 00-0020	EA	Bottom Dome Strainer For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	177.60	
33 42 36 00-0021	EA	Joint Connector For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	177.60	
33 42 36 00-0022	EA	90 Degree, 45 Degree, Tee Or Side Outlet Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	843.37	
33 42 36 00-0023	EA	Cross For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	1,637.17	
33 42 36 00-0024	EA	Cutting Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	198.45	
33 42 36 00-0025		6" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0011)</small>		
33 42 36 00-0026		6" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0025)</small>		
33 42 36 00-0027	LF	6" Wide, Fiber Reinforced Polyester, Modular Trench Drain.....	294.66	15.87
		<i>For Black Acid Resistant Coated Frame, Add</i>	75.41	
		<i>For Galvanized Top Frame Assembly, Add</i>	75.41	
		<i>For Type 304 Stainless Steel Top Frame Assembly, Add</i>	277.83	
33 42 36 00-0028		Outlet Adapters For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0025)</small>		
33 42 36 00-0029	EA	Closed End Cap For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	99.21	
33 42 36 00-0030	EA	No-Hub End Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	109.13	
33 42 36 00-0031	EA	No-Hub Bottom Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	109.13	
33 42 36 00-0032		Other Fittings For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0025)</small>		
33 42 36 00-0033	EA	Bottom Dome Strainer For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	177.60	
33 42 36 00-0034	EA	Joint Connector For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	177.60	
33 42 36 00-0035	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	843.37	
33 42 36 00-0036	EA	Cross For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	1,637.17	
33 42 36 00-0037	EA	Cutting Charge For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	198.45	
33 42 36 00-0038		6" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0011)</small>		
33 42 36 00-0039		6" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0038)</small>		
33 42 36 00-0040	LF	6" Wide, Vinylester Fiberglass, Modular Trench Drain.....	381.98	15.87
		<i>For Black Acid Resistant Coated Frame, Add</i>	75.41	
		<i>For Galvanized Top Frame Assembly, Add</i>	75.41	
		<i>For Type 304 Stainless Steel Top Frame Assembly, Add</i>	277.83	
33 42 36 00-0041		Outlet Adapters For 6" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0038)</small>		
33 42 36 00-0042	EA	Closed End Cap For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	162.71	
33 42 36 00-0043	EA	No-Hub End Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	172.63	
33 42 36 00-0044	EA	No-Hub Bottom Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	172.63	
33 42 36 00-0045		Other Fittings For 6" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0038)</small>		
33 42 36 00-0046	EA	Bottom Dome Strainer For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	177.60	
33 42 36 00-0047	EA	Joint Connector For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	177.60	
33 42 36 00-0048	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	843.37	
33 42 36 00-0049	EA	Cross For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	1,637.17	
33 42 36 00-0050	EA	Cutting Charge For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	198.45	
33 42 36 00-0051		6" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0011)</small>		
33 42 36 00-0052		6" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0051)</small>		
33 42 36 00-0053	LF	6" Wide, Polymer Concrete, Modular Trench Drain.....	442.50	
33 42 36 00-0054		Outlet Adapters For 6" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0051)</small>		
33 42 36 00-0055	EA	Closed End Cap For 6" Wide, Polymer Concrete, Modular Trench Drain.....	175.11	
33 42 36 00-0056	EA	No-Hub End Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain.....	213.05	
33 42 36 00-0057	EA	No-Hub Bottom Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain.....	66.41	



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0058 12" Wide, Modular Trench Drains <small>(33 42 36 00-0002)</small>		
33 42 36 00-0059 12" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0058)</small>		
33 42 36 00-0060 12" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0059)</small>		
33 42 36 00-0061 LF 12" Wide, High Density Polyethylene, Modular Trench Drain	380.98	21.81
<i>For Acid Resistant Coated Top Frame, Add</i>	103.19	
<i>For Galvanized Welded Frame Assembly, Add</i>	108.16	
<i>For Type 304 Stainless Steel Top Frame, Add</i>	619.16	
33 42 36 00-0062 Outlet Adapters For 12" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0059)</small>		
33 42 36 00-0063 EA End Cap For 12" Wide, High Density Polyethylene, Modular Trench Drains	189.17	
33 42 36 00-0064 EA No-Hub End Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains	202.38	
33 42 36 00-0065 EA No-Hub Bottom Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains	202.38	
33 42 36 00-0066 Other Fittings For 12" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0059)</small>		
33 42 36 00-0067 EA Bottom Dome Strainer For 12" Wide, High Density Polyethylene, Modular Trench Drains	318.01	
33 42 36 00-0068 EA Joint Connector For 12" Wide, High Density Polyethylene, Modular Trench Drains	417.23	
33 42 36 00-0069 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains	1,663.86	
33 42 36 00-0070 EA Cross For 12" Wide, High Density Polyethylene, Modular Trench Drains	3,251.46	
33 42 36 00-0071 EA Cutting Charges For 12" Wide, High Density Polyethylene, Modular Trench Drains	396.90	
33 42 36 00-0072 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0058)</small>		
33 42 36 00-0073 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0072)</small>		
33 42 36 00-0074 LF 12" Wide, Fiber Reinforced Polyester, Modular Trench Drain	480.21	21.81
<i>For Acid Resistant Coated Top Frame, Add</i>	103.19	
<i>For Galvanized Welded Frame Assembly, Add</i>	108.16	
<i>For Type 304 Stainless Steel Top Frame, Add</i>	619.16	
33 42 36 00-0075 Outlet Adapters For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0072)</small>		
33 42 36 00-0076 EA End Cap For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	197.11	
33 42 36 00-0077 EA No-Hub End Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	210.32	
33 42 36 00-0078 EA No-Hub Bottom Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	210.32	
33 42 36 00-0079 Other Fittings For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0072)</small>		
33 42 36 00-0080 EA Bottom Dome Strainer For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	318.01	
33 42 36 00-0081 EA Joint Connector For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	417.23	
33 42 36 00-0082 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	1,663.86	
33 42 36 00-0083 EA Cross For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	3,251.46	
33 42 36 00-0084 EA Cutting Charges For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	396.90	
33 42 36 00-0085 12" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0058)</small>		
33 42 36 00-0086 12" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0085)</small>		
33 42 36 00-0087 LF 12" Wide, Vinylester Fiberglass, Modular Trench Drain	678.66	21.81
<i>For Acid Resistant Coated Top Frame, Add</i>	103.19	
<i>For Galvanized Welded Frame Assembly, Add</i>	108.16	
<i>For Type 304 Stainless Steel Top Frame, Add</i>	619.16	
33 42 36 00-0088 Outlet Adapters For 12" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0085)</small>		
33 42 36 00-0089 EA End Cap For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	494.78	
33 42 36 00-0090 EA No-Hub End Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	507.99	
33 42 36 00-0091 EA No-Hub Bottom Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	507.99	
33 42 36 00-0092 Other Fittings For 12" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0085)</small>		
33 42 36 00-0093 EA Bottom Dome Strainer For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	318.01	
33 42 36 00-0094 EA Joint Connector For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	417.23	
33 42 36 00-0095 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	1,663.86	
33 42 36 00-0096 EA Cross For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	3,251.46	
33 42 36 00-0097 EA Cutting Charges For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	396.90	
33 42 36 00-0098 12" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0058)</small>		
33 42 36 00-0099 12" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0098)</small>		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0100 LF 12" Wide, Polymer Concrete, Modular Trench Drain	593.54	
33 42 36 00-0101 Outlet Adapters For 12" Wide, Polymer Concrete, Modular Trench Drains ^(33 42 36 00-0101)		
33 42 36 00-0102 EA Closed End Cap For 12" Wide, Polymer Concrete, Modular Trench Drain	298.23	
33 42 36 00-0103 EA No-Hub End Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain	514.13	
33 42 36 00-0104 EA No-Hub Bottom Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain	117.19	
33 42 36 00-0105 23" Wide, Modular Trench Drains ^(33 42 36 00-0105)		
33 42 36 00-0106 23" Wide, High Density Polyethylene, Modular Trench Drains ^(33 42 36 00-0106)		
33 42 36 00-0107 23" Wide, High Density Polyethylene, Modular Trench Drains ^(33 42 36 00-0107)		
33 42 36 00-0108 LF 23" Wide, High Density Polyethylene, Modular Trench Drain	534.44	29.75
For Acid Resistant Coated Frame, Add	154.79	
For Galvanized Frame Assembly, Add	154.79	
For Type 304 Stainless Steel Top Frame, Add	952.56	
33 42 36 00-0109 Outlet Adapters For 23" Wide, High Density Polyethylene, Modular Trench Drains ^(33 42 36 00-0109)		
33 42 36 00-0110 EA End Cap For 23" Wide, High Density Polyethylene, Modular Trench Drains	606.79	
33 42 36 00-0111 EA No-Hub End Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains	881.93	
33 42 36 00-0112 EA No-Hub Bottom Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains	881.93	
33 42 36 00-0113 Other Fittings For 23" Wide, High Density Polyethylene, Modular Trench Drains ^(33 42 36 00-0113)		
33 42 36 00-0114 EA Bottom Dome Strainer For 23" Wide, High Density Polyethylene, Modular Trench Drains	724.32	
33 42 36 00-0115 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains	3,299.11	
33 42 36 00-0116 EA Cross For 23" Wide, High Density Polyethylene, Modular Trench Drains	6,474.31	
33 42 36 00-0117 EA Cutting Charges For 23" Wide, High Density Polyethylene, Modular Trench Drains	793.80	
33 42 36 00-0118 Modular Trench Drain Grates ^(33 42 36 00-0118)		
33 42 36 00-0119 4" Wide, Modular Trench Drain Grates ^(33 42 36 00-0119)		
33 42 36 00-0120 LF 4" Wide, Polypropylene, Silver Heel Proof, Modular Trench Drain Grate (Zurn Z884-P4-HPP)	40.53	2.98
33 42 36 00-0121 LF 4" Wide, Class C Cast Iron, Modular Trench Drain Grate (Zurn Z884-P4-CG)	42.62	2.98
33 42 36 00-0122 LF 4" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FG)	34.25	2.98
33 42 36 00-0123 LF 4" Wide, Stainless Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FS)	91.81	2.98
33 42 36 00-0124 LF 4" Wide, Galvanized Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FG)	34.25	2.98
33 42 36 00-0125 LF 4" Wide, Stainless Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FS)	91.81	2.98
33 42 36 00-0126 6" Wide, Modular Trench Drain Grates ^(33 42 36 00-0126)		
33 42 36 00-0127 LF 6" Wide, Galvanized Ductile Iron Cast Bar, Modular Trench Drain Grate	195.46	2.98
33 42 36 00-0128 LF 6" Wide, Ductile Iron Cast Bar, Modular Trench Drain Grate	165.50	2.98
33 42 36 00-0129 LF 6" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	173.83	2.98
33 42 36 00-0130 LF 6" Wide, Ductile Iron Slotted, Modular Trench Drain Grate	151.80	2.98
33 42 36 00-0131 LF 6" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate	163.71	2.98
33 42 36 00-0132 LF 6" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate	165.69	2.98
33 42 36 00-0133 LF 6" Wide, Ductile Iron Longitudinal Slotted, Modular Trench Drain Grate	165.69	2.98
33 42 36 00-0134 LF 6" Wide, Galvanized Cast Iron Slotted, Modular Trench Drain Grate	163.71	2.98
33 42 36 00-0135 LF 6" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate	143.87	2.98
33 42 36 00-0136 LF 6" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	143.87	2.98
33 42 36 00-0137 LF 6" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate	152.99	2.98
33 42 36 00-0138 LF 6" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate	152.99	2.98
33 42 36 00-0139 LF 6" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	199.43	2.98
33 42 36 00-0140 LF 6" Wide, Perforated Stainless Steel, Modular Trench Drain Grate	199.43	2.98
33 42 36 00-0141 LF 6" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate	366.13	2.98
33 42 36 00-0142 LF 6" Wide, Reinforced Perforated Stainless Steel, Modular Trench Drain Grate	366.13	2.98
33 42 36 00-0143 LF 6" Wide, Stainless Steel Bar, Modular Trench Drain Grate	1,021.01	2.98
33 42 36 00-0144 LF 6" Wide, Heel Proof Polyethylene, Modular Trench Drain Grate	135.93	2.98
33 42 36 00-0145 LF 6" Wide, Fiberglass, Modular Trench Drain Grate	294.69	2.98
33 42 36 00-0146 12" Wide, Modular Trench Drain Grates ^(33 42 36 00-0146)		
33 42 36 00-0147 LF 12" Wide, Black Acid Resistant Coated Ductile Iron, Modular Trench Drain Grate	541.27	3.23
33 42 36 00-0148 LF 12" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	517.45	3.23
33 42 36 00-0149 LF 12" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate	449.98	3.23
33 42 36 00-0150 LF 12" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate	472.80	3.23
33 42 36 00-0151 LF 12" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	408.30	3.23
33 42 36 00-0152 LF 12" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate	800.24	3.23
33 42 36 00-0153 LF 12" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate	800.24	3.23
33 42 36 00-0154 LF 12" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	1,021.51	3.23
33 42 36 00-0155 LF 12" Wide, Perforated Stainless Steel, Modular Trench Drain Grate	1,021.51	3.23
33 42 36 00-0156 LF 12" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate	1,304.31	3.23
33 42 36 00-0157 LF 12" Wide, Reinforced Perforated Stainless Steel Slotted, Modular Trench Drain Grate	1,304.31	3.23



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0158	LF		12" Wide, Stainless Steel Cast Bar, Modular Trench Drain Grate	1,237.82	3.23
33 42 36 00-0159	LF		12" Wide, Fiberglass, Modular Trench Drain Grate	583.93	3.23
33 42 36 00-0160			23" Wide, Modular Trench Drain Grates (33 42 36 00-0118)		
33 42 36 00-0161	LF		23" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	855.32	3.48
33 42 36 00-0162	LF		23" Wide, Ductile Iron Slotted, Modular Trench Drain Grate.....	720.37	3.48
33 42 36 00-0163	LF		23" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....	1,117.27	3.48
33 42 36 00-0164	LF		23" Wide, Heel Proof Longitudinal Ductile Iron, Modular Trench Drain Grate.....	827.53	3.48
33 44			Storm Utility Water Drains (33 40)		
33 44 36			Oil and Stormwater Separators (33 44)		
33 44 36 00-0001			Oil/Water Separator (33 44 36) Note: Complete with internal sensors and detectors.		
33 44 36 00-0002			Coalescing Oil Water Separator (33 44 36 00-0001) Note: Underground tank with interior polyurethane coating. Includes manways, coalescer, inlet and outlet spools, pump mount, 2" level sensor pipe and 4" pump out pipe. HighGuard as manufactured by Highland Tank, Stoystown, PA.		
33 44 36 00-0003			Single Wall Steel Coalescing Oil Water Separator (33 44 36 00-0002)		
33 44 36 00-0004	EA		550 Gallon, 55 GPM Single Wall Steel Coalescing Oil Water Separator With Manways..... Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.	17,605.03	
			<i>For Interior Polyurethane Coating, Add</i>	711.00	
33 44 36 00-0005	EA		1,000 Gallon, 100 GPM Single Wall Steel Coalescing Oil Water Separator With Manways..... Note: HTC-G 1000. 4' diameter x 14' long tank.	21,537.06	
			<i>For Interior Polyurethane Coating, Add</i>	893.70	
33 44 36 00-0006	EA		2,000 Gallon, 200 GPM Single Wall Steel Coalescing Oil Water Separator With Manways..... Note: HTC-G 2000. 5'-4" diameter x 15' long tank.	25,788.07	
			<i>For Interior Polyurethane Coating, Add</i>	1,340.10	
33 44 36 00-0007			Double Wall Steel Coalescing Oil Water Separator (33 44 36 00-0002)		
33 44 36 00-0008	EA		550 Gallon, 55 GPM Double Wall Steel Coalescing Oil Water Separator With Manways	27,337.40	
			Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.		
			<i>For Interior Polyurethane Coating, Add</i>	711.00	
33 44 36 00-0009	EA		1,000 Gallon, 100 GPM Double Wall Steel Coalescing Oil Water Separator With Manways	31,440.74	
			Note: HTC-G 1000. 4' diameter x 14' long tank.		
			<i>For Interior Polyurethane Coating, Add</i>	893.70	
33 44 36 00-0010	EA		2,000 Gallon, 200 GPM Double Wall Steel Coalescing Oil Water Separator With Manways	38,392.31	
			Note: HTC-G 2000. 5'-4" diameter x 15' long tank.		
			<i>For Interior Polyurethane Coating, Add</i>	1,340.10	
33 44 36 00-0011	EA		3,000 Gallon, 300 GPM Double Wall Steel Coalescing Oil Water Separator With Manways	44,683.32	
			Note: HTC-G 3000. 5'-4" diameter x 21'-4" long tank.		
			<i>For Interior Polyurethane Coating, Add</i>	1,550.70	
33 44 36 00-0012	EA		5,000 Gallon, 500 GPM Double Wall Steel Coalescing Oil Water Separator With Manways	59,316.58	
			Note: HTC-G 5000. 6' diameter x 28'-8" long tank.		
			<i>For Interior Polyurethane Coating, Add</i>	2,057.80	
33 44 36 00-0013			Accessories For Coalescing Oil Water Separators (33 44 36 00-0002)		
33 44 36 00-0014	EA		Single Channel Alarm Panel For Coalescing Oil Water Separator	1,083.21	
			Note: HTAP1.		
33 44 36 00-0015	EA		Two Channel Alarm Panel For Coalescing Oil Water Separator.....	1,474.35	
			Note: HTAP2.		
33 44 36 00-0016	EA		Float Interface Sensor For Coalescing Oil Water Separator.....	878.56	
			Note: Required for UL 2215 label.		
33 44 36 00-0017	EA		1-1/2" Liquid Only Sensor For Coalescing Oil Water Separator	647.51	
			Note: Required for UL 2215 label.		
33 44 36 00-0018	EA		Polyvinyl Chloride (PVC) Cap For 2" Sensor For Coalescing Oil Water Separator.....	214.28	
			Note: Required for UL 2215 label.		
33 44 36 00-0019	EA		550, 1,000 Or 2,000 Gallon Tank Concrete Deadmen Set (2 Each) For Coalescing Oil Water Separator	3,730.22	
33 44 36 00-0020	EA		3,000 Gallon Tank Concrete Deadmen Set (4 Each) For Coalescing Oil Water Separator	7,460.44	
33 44 36 00-0021	EA		5,000 Gallon Tank Concrete Deadmen Set (6 Each) For Coalescing Oil Water Separator	11,190.75	
33 44 36 00-0022	EA		550 Or 1,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	668.85	
33 44 36 00-0023	EA		2,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	792.08	
33 44 36 00-0024	EA		3,000 Gallon Tank Polyester Hold Down Straps (4 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	1,584.13	
33 44 36 00-0025	EA		5,000 Gallon Tank Polyester Hold Down Straps (6 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	3,531.49	
33 44 36 00-0026	EA		30" Diameter Grade Level Manway For Coalescing Oil Water Separator.....	957.66	
			Note: Required when installed in paved areas.		
33 44 36 00-0027	EA		36" Diameter Grade Level Manway For Coalescing Oil Water Separator.....	1,250.17	
			Note: Required when installed in paved areas.		
33 44 36 00-0028	EA		48" Diameter Grade Level Manway For Coalescing Oil Water Separator.....	1,735.23	
			Note: Required when installed in paved areas.		
33 44 36 00-0029	EA		54" x 54" Grade Level Manway For Coalescing Oil Water Separator	3,175.47	
			Note: Required when installed in paved areas.		

33 Utilities**33 40 Stormwater Utilities****33 44 Storm Utility Water Drains**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 44 36 00-0030 EA 66" x 54" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	4,088.14	
33 44 36 00-0031 EA 66" x 66" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	5,135.59	
33 44 36 00-0032 EA 78" x 66" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	6,479.56	
33 44 36 00-0033 EA 550 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	1,284.28	
33 44 36 00-0034 EA 1,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	1,565.40	
33 44 36 00-0035 EA 2,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	2,458.81	
33 44 36 00-0036 EA 550 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,224.59	
33 44 36 00-0037 EA 1,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,486.46	
33 44 36 00-0038 EA 2,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,763.72	
33 44 36 00-0039 EA 18" Manhole Gasket (Material Only) For Coalescing Oil Water Separator.....	103.97	
33 44 36 00-0040 EA 24" Manhole Gasket (Material Only) For Coalescing Oil Water Separator.....	117.45	
33 44 36 00-0041 Oil Skimmers (33 44 36)		
33 44 36 00-0042 Oil Skimmers, 12" And 24" Models (33 44 36 00-0041)		
33 44 36 00-0043 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,078.99	614.93
33 44 36 00-0044 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,314.79	614.93
33 44 36 00-0045 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase	5,100.83	614.93
33 44 36 00-0046 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase	5,403.21	614.93
33 44 36 00-0047 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	5,348.63	614.93
33 44 36 00-0048 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	5,548.40	614.93
33 44 36 00-0049 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	5,399.93	614.93
33 44 36 00-0050 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	5,701.23	614.93
33 44 36 00-0051 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,742.46	820.09
33 44 36 00-0052 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,994.63	820.09
33 44 36 00-0053 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase	5,809.05	820.09
33 44 36 00-0054 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase	6,171.48	820.09
33 44 36 00-0055 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	6,379.98	820.09
33 44 36 00-0056 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	6,632.15	820.09
33 44 36 00-0057 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	6,433.47	820.09
33 44 36 00-0058 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	6,796.99	820.09
33 44 36 00-0059 Oil Skimmers, Add-Ons (33 44 36 00-0041)		
33 44 36 00-0060 LF Add For Belt Projection, 12" Width.....	16.37	
33 44 36 00-0061 LF Add For Belt Projection, 24" Width.....	30.57	
33 44 36 00-0062 LF Add For Spacer Stands, 12" Models.....	264.03	
33 44 36 00-0063 LF Add For Spacer Stands, 24" Models.....	312.06	
33 46 Stormwater Management (33 40)		
33 46 23 Modular Buried Stormwater Storage Units (33 46)		
33 46 23 00-0001 Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™) (33 46 23)		
Note: Includes chambers and end caps delivery to site. Excludes excavation and earthwork, foundation stone, embedment and perimeter stone, geotextile fabrics and cutting holes in chambers. See CSI section 31 05 16 00-0000 for aggregate (foundation, embedment and perimeter stone), 31 23 16 36-0000 for excavation and earth backfill, 31 32 19 16-0000 for woven and non-woven geotextile fabric.		
33 46 23 00-0002 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740) (33 46 23 00-0001)		
33 46 23 00-0003 EA Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	538.72	
33 46 23 00-0004 EA >10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	498.02	
33 46 23 00-0005 EA >20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	468.23	
33 46 23 00-0006 EA >30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	439.41	
33 46 23 00-0007 EA Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	219.75	
33 46 23 00-0008 EA >10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	195.00	
33 46 23 00-0009 EA >20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	180.36	
33 46 23 00-0010 EA >30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	165.94	
33 46 23 00-0011 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310) (33 46 23 00-0001)		
33 46 23 00-0012 EA Up To 10, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	304.42	
33 46 23 00-0013 EA >10 To 20, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	279.40	
33 46 23 00-0014 EA >20 To 30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	261.75	
33 46 23 00-0015 EA >30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	245.57	
33 46 23 00-0016 EA Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	171.30	



Utilities	33	33
Stormwater Utilities	33 40	
Stormwater Management	33 46	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 46 23 00-0017	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	152.93	
33 46 23 00-0018	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	141.58	
33 46 23 00-0019	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	131.41	

33 46 23 00-0020 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500) (33 46 23 00-0001)

33 46 23 00-0021	EA	Up To 10, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	921.70	
33 46 23 00-0022	EA	>10 To 20, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	860.15	
33 46 23 00-0023	EA	>20 To 30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	810.39	
33 46 23 00-0024	EA	>30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	764.96	
33 46 23 00-0025	EA	Up To 10, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	774.96	
33 46 23 00-0026	EA	>10 To 20, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	720.74	
33 46 23 00-0027	EA	>20 To 30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	677.95	
33 46 23 00-0028	EA	>30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	639.15	

33 46 23 00-0029 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780) (33 46 23 00-0001)

33 46 23 00-0030	EA	Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	559.76	
33 46 23 00-0031	EA	>10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	518.03	
33 46 23 00-0032	EA	>20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	487.22	
33 46 23 00-0033	EA	>30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	457.44	
33 46 23 00-0034	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780)	219.75	
33 46 23 00-0035	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	191.03	
33 46 23 00-0036	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	180.36	
33 46 23 00-0037	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	165.94	

33 46 23 00-0038 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500) (33 46 23 00-0001)

33 46 23 00-0039	EA	Up To 10, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	957.46	
33 46 23 00-0040	EA	>10 To 20, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	892.41	
33 46 23 00-0041	EA	>20 To 30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	839.19	
33 46 23 00-0042	EA	>30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	792.81	
33 46 23 00-0043	EA	Up To 10, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,195.03	
33 46 23 00-0044	EA	>10 To 20, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,118.09	
33 46 23 00-0045	EA	>20 To 30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,053.60	
33 46 23 00-0046	EA	>30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	996.50	

33 46 23 00-0047 Cut Opening In Polypropylene Corrugated Wall Stormwater Collection Chambers (33 46 23 00-0001)

33 46 23 00-0048	EA	Cut Up To 6" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	55.51	
33 46 23 00-0049	EA	Cut >6" To 12" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	70.43	
33 46 23 00-0050	EA	Cut >12" To 24" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	92.06	
33 46 23 00-0051	EA	Cut >24" To 36" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	116.30	
33 46 23 00-0052	EA	12" x 6" Inspection Port Kit	679.69	

Note: (2712AG6IPKIT)

33 46 53 Stormwater Leaching Pits (33 46)

33 46 53 00-0001 Drainage Wells (33 46 53)
Note: Includes augering hole.

33 46 53 00-0002	LF	12" Diameter Drainage Well With Corrugated Metal Liner.....	28.04	
33 46 53 00-0003	LF	18" Diameter Drainage Well With Corrugated Metal Liner.....	34.09	
33 46 53 00-0004	LF	24" Diameter Drainage Well With Corrugated Metal Liner.....	45.35	

33 50 Hydrocarbon Utilities (33)

33	33 Utilities
	33 50 Hydrocarbon Utilities
	33 46 Stormwater Management



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 51 Hydrocarbon Sources (33 50)

33 51 29 Extraction Wells for Gaseous Hydrocarbons (33 51)

33 51 29 00-0001 Landfill Gas Well (33 51 29)

33 51 29 00-0002 Mobilization And Demobilization Landfill Gas Extraction Well (33 51 29 00-0001)

33 51 29 00-0003	EA	24" Diameter, Landfill Gas Extraction Well Drilling Mobilization And Demobilization	1,255.98	
33 51 29 00-0004	EA	>24" To 36" Diameter, Landfill Gas Extraction Well Drilling Mobilization And Demobilization	1,883.98	

33 51 29 00-0005 Drill Landfill Gas Extraction Well In Normal Soil, Sand, Gravel, O.B. (33 51 29 00-0001)

Note: Excludes well gravel or materials.

33 51 29 00-0006	LF	24" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	217.45	
33 51 29 00-0007	LF	30" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	283.22	
33 51 29 00-0008	LF	36" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	352.31	

33 51 29 00-0009 Landfill Gas Extraction Well Gravel Backfill (33 51 29 00-0001)

Note: 1/2" x 1-1/2" drain rock.

33 51 29 00-0010	LF	24" Diameter Landfill Gas Extraction Well, Gravel.	104.49	
33 51 29 00-0011	LF	30" Diameter Landfill Gas Extraction Well, Gravel.	134.25	
33 51 29 00-0012	LF	36" Diameter Landfill Gas Extraction Well, Gravel.	155.73	

33 51 29 00-0013 Landfill Gas Extraction Well Collection Head (33 51 29 00-0001)

33 51 29 00-0014	EA	Landfill Gas Extraction Well Head Assembly	3,171.95	
33 51 29 00-0015	EA	Landfill Gas Extraction Well Locking Enclosure	959.21	
33 51 29 00-0016	SE	Landfill Gas Extraction Well Skirt, PVC Seal (Landtex WBS-100-4)	5.11	
33 51 29 00-0017	CF	Landfill Gas Extraction Well Bentonite Barrier (Benseal EZ-MUD)	9.93	
33 51 29 00-0018	CY	Landfill Gas Extraction Well Plug, Moistened And Tamped In 2' Lifts	119.00	
33 51 29 00-0019	EA	4" Steel Concrete Filled Pipe Bollard, 8' Overall Length (3' Bury With 5' Exposed) For Landfill Gas Extraction Well	610.26	11.86
		Note: Includes drilling, concrete footing, pipe and concrete fill.		
		<i>For Galvanized Steel, Add</i>	54.15	
		<i>For 304 Stainless Steel, Add</i>	430.00	
		<i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i>	1,190.96	
		<i>For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add</i>	580.85	
		<i>For Schedule 80, Add</i>	76.95	

33 51 29 00-0020 Landfill Gas Extraction Well Valve Box (33 51 29 00-0001)

33 51 29 00-0021	EA	17" x 30" x 12" High Fibrelyte Utility Box (FL36T-12)	335.90	128.59
33 51 29 00-0022	EA	17" x 30" x 18" High Fibrelyte Utility Box (FL36T-18)	460.33	128.59
33 51 29 00-0023	EA	17" x 30" x 24" High Fibrelyte Utility Box (FL36T-18)	584.93	128.59
33 51 29 00-0024	EA	Fibrelyte Composite Lid For 17" x 30" Utility Box (FL36D)	263.57	31.02
33 51 29 00-0025	EA	6" High Extension For 17" x 30" Utility Box (FL36x6)	157.41	45.11
33 51 29 00-0026	EA	8" High Extension For 17" x 30" Utility Box (FL36x8)	176.70	45.11

33 51 29 00-0027 Landfill Gas Extraction Well Riser Pipe (33 51 29 00-0001)

33 51 29 00-0028	LF	4" Polyvinyl Chloride (PVC) Well Riser Pipe, Flush Thread	17.54	
33 51 29 00-0029	LF	6" Diameter Slotted Polyvinyl Chloride (PVC) Riser Pipe With Slip Joint And Coupler	48.30	
33 51 29 00-0030	EA	6" Well Riser Pipe, Centralizer For >12" To 24" Diameter Well	131.82	
33 51 29 00-0031	EA	6" Well Riser Pipe, Centralizer For >24" To 30" Diameter Well	197.60	

33 51 29 00-0032 Soil Vapor Gas Extraction Well (33 51 29)

33 51 29 00-0033 Mobilization And Demobilization Soil Vapor Gas Extraction Well (33 51 29 00-0032)

33 51 29 00-0034	EA	Up To 12" Diameter, Soil Vapor Gas Extraction Well Drilling Mobilization And Demobilization	1,034.10	
33 51 29 00-0035	EA	>12" To 24" Diameter, Soil Vapor Gas Extraction Well Drilling Mobilization And Demobilization	1,255.98	

33 51 29 00-0036 Drill Soil Vapor Gas Extraction Well In Normal Soil, Sand, Gravel, O.B. (33 51 29 00-0032)

Note: Excludes well gravel or materials.

33 51 29 00-0037	LF	6" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	24.34	
33 51 29 00-0038	LF	8" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	28.89	
33 51 29 00-0039	LF	10" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	38.62	
33 51 29 00-0040	LF	12" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	60.44	
33 51 29 00-0041	LF	18" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	135.02	

33 51 29 00-0042 Soil Vapor Gas Extraction Well Pea Gravel Backfill (33 51 29 00-0032)

33 51 29 00-0043	LF	6" Diameter Soil Vapor Gas Extraction Well, Pea Gravel	16.09	
33 51 29 00-0044	LF	8" Diameter Soil Vapor Gas Extraction Well, Pea Gravel	23.81	
33 51 29 00-0045	LF	10" Diameter Soil Vapor Gas Extraction Well, Pea Gravel	33.28	
33 51 29 00-0046	LF	12" Diameter Soil Vapor Gas Extraction Well, Pea Gravel	42.58	
33 51 29 00-0047	LF	18" Diameter Soil Vapor Gas Extraction Well, Pea Gravel	77.62	



Utilities	33	CS
Hydrocarbon Utilities	33 50	
Hydrocarbon Sources	33 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 51 29 00-0048 Soil Vapor Gas Extraction Well Head <small>(33 51 29 00-0032)</small>		
33 51 29 00-0049 EA Soil Vapor Gas Extraction Well Head Assembly.....	1,545.94	
33 51 29 00-0050 EA Soil Vapor Gas Extraction Well Head Concrete Cap.....	1,281.48	
33 51 29 00-0051 EA Soil Vapor Gas Extraction Well Locking Enclosure.....	959.21	
33 51 29 00-0052 CF Soil Vapor Gas Extraction Well Neat Cement.....	8.26	
33 51 29 00-0053 CF Soil Vapor Gas Extraction Well Bentonite Barrier (Benseal EZ-MUD).....	9.93	
33 51 29 00-0054 EA 4" Steel Concrete Filled Pipe Bollard, 8' Overall Length (3' Bury With 5' Exposed) For Soil Vapor Gas Extraction Well.....	610.26	11.86
Note: Includes drilling, concrete footing, pipe and concrete fill.		
For Galvanized Steel, Add	54.15	
For 304 Stainless Steel, Add	430.00	
For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	1,190.96	
For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	580.85	
For Schedule 80, Add	76.95	
33 51 29 00-0055 LF 1/4" Polyethylene Tubing For Soil Vapor Gas Extraction Well.....	2.99	
For Work In Restricted Working Space, Add	0.82	
33 51 29 00-0056 EA 1/4" Polyvinyl Chloride (PVC) Stopcock Valve (Hayward LC12) For Soil Vapor Gas Extraction Well.....	68.53	17.81
33 51 29 00-0057 Soil Vapor Gas Extraction Well Riser Pipe <small>(33 51 29 00-0032)</small>		
33 51 29 00-0058 LF 3/4" Polyvinyl Chloride (PVC) Well Riser Pipe, Flush Tread.....	3.22	
33 51 29 00-0059 LF 3/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Riser Pipe.....	8.85	
33 52 Hydrocarbon Transmission and Distribution <small>(33 50)</small>		
33 52 16 Gas Hydrocarbon Piping <small>(33 52)</small>		
33 52 16 13 Steel Natural Gas Piping <small>(33 52 16)</small>		
33 52 16 13-0001 Gas Distribution Lines <small>(33 52 16 13)</small>		
Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
33 53 Hydrocarbon Utility Pressure Regulation <small>(33 50)</small>		
33 53 16 Gas Hydrocarbon Pressure Regulation <small>(33 53)</small>		
33 53 16 00-0001 Gas Pressure Regulators With Screwed And Flanged Ends <small>(33 53 16)</small>		
33 53 16 00-0002 EA 3/4" Gas Pressure Regulator, Screwed End.....	232.34	17.81
33 53 16 00-0003 EA 1" Gas Pressure Regulator, Screwed End.....	236.38	17.81
33 53 16 00-0004 EA 1-1/4" Gas Pressure Regulator, Screwed End.....	246.08	21.14
33 53 16 00-0005 EA 1-1/2" Gas Pressure Regulator, Screwed End.....	841.17	24.48
33 53 16 00-0006 EA 2" Gas Pressure Regulator, Screwed End.....	892.30	37.92
33 53 16 00-0007 EA 3" Gas Pressure Regulator, Screwed End.....	2,512.04	85.05
33 53 16 00-0008 EA 4" Gas Pressure Regulator, Screwed End.....	3,492.86	112.72
33 59 Hydrocarbon Utility Metering <small>(33 50)</small>		
33 59 11 Diaphragm/Bellows Hydrocarbons Meters <small>(33 59)</small>		
33 59 11 00-0001 Diaphragm Meters <small>(33 59 11)</small>		
Note: With standard direct-digital reading maximum working pressures 5 lbs to 100 lbs, threaded connections. Excludes pressure and temperature compensation.		
33 59 11 00-0002 EA 250 CF/Hour Gas Diaphragm Meter At 5 LB, Direct Digital, Threaded.....	559.81	69.88
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0003 EA 425 CF/Hour Gas Diaphragm Meter At 10 LB, Direct Digital, Threaded.....	1,110.82	106.57
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0004 EA 425 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded.....	1,312.86	106.57
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0005 EA 800 CF/Hour Gas Diaphragm Meter At 20 LB, Direct Digital, Threaded.....	2,907.53	133.21
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0006 EA 1,000 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded.....	3,283.21	163.96
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0007 EA 800 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....	4,351.22	133.21
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0008 EA 1,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....	4,836.78	163.96
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0009 EA 1,400 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....	6,400.19	174.21
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0010 EA 2,300 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....	9,069.91	204.94
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	

33 Utilities**33 50 Hydrocarbon Utilities****33 59 Hydrocarbon Utility Metering**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 59 11 00-0011	EA	5,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....	13,844.00	338.16
		<i>For Temperature And Pressure Compensation, Add</i>	8.40	
		<i>For Pulsers, Add</i>	26.50	

33 59 16 Hydrocarbons Turbine Meters (33 59)

33 59 16 00-0001		Gas Turbine Meters With Direct-Digital Reading (33 59 16)		
		Note: Maximum working pressure 175 PSI, flanged end connections.		
33 59 16 00-0002	EA	4", 18,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	11,093.48	359.82
33 59 16 00-0003	EA	6", 30,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	11,961.68	417.85
33 59 16 00-0004	EA	8", 60,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	18,517.07	441.48
33 59 16 00-0005	EA	10", 90,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	36,036.69	537.45
33 59 16 00-0006	EA	12", 150,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	59,314.17	671.81

33 70 Electrical Utilities (33)**33 71 Electrical Utility Transmission and Distribution (33 70)****33 71 19 Electrical Underground Ducts, Ductbanks and Manholes (33 71)**

Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 71 19 13 Electrical Manholes and Handholes (33 71 19)

33 71 19 13-0001		Electrical Handholes And Pull Boxes (33 71 19 13)		
33 71 19 13-0002		Electrical Pull Boxes (33 71 19 13-0001)		
		See CSI section 33 05 63 00-0427 for handholes.		
33 71 19 13-0003	EA	24" x 36" x 24", Electric Pull Boxes, Precast Concrete	1,766.64	
33 71 19 13-0004	EA	24" x 36" x 36", Electric Pull Boxes, Precast Concrete	2,097.87	
33 71 19 13-0005	EA	30" x 48" x 36", Electric Pull Boxes, Precast Concrete	2,412.81	
33 71 19 13-0006	EA	36" x 72" x 24", Electric Pull Boxes, Precast Concrete	3,665.19	
33 71 19 13-0007	EA	36" x 60" x 36", Electric Pull Boxes, Precast Concrete	3,890.06	
33 71 19 13-0008	EA	48" x 48" x 36", Electric Pull Boxes, Precast Concrete	4,173.88	
33 71 19 13-0009	EA	48" x 60" x 48", Electric Pull Boxes, Precast Concrete	4,795.29	
33 71 19 13-0010	EA	18" x 28" x 34", Electric Pull Boxes, Precast Concrete	1,883.81	
33 71 19 13-0011	EA	14" x 20" x 12", Electric Pull Boxes, Precast Concrete	1,000.12	
33 71 19 13-0012	EA	18" x 28" x 12", Electric Pull Boxes, Precast Concrete	1,194.72	
33 71 19 13-0013	EA	24" x 36" x 12", Electric Pull Boxes, Precast Concrete	1,572.22	
33 71 19 13-0014	EA	24" x 3", Round Electric Pull Boxes, Precast Concrete	957.99	
33 71 19 13-0015	EA	30" x 3", Round Electric Pull Boxes, Precast Concrete	1,013.45	
33 71 19 13-0016	EA	No. 5 Electric Precast Concrete Pull Boxes With Traffic Rated Lid.....	1,404.60	
		<i>For 12" Extension, Add</i>	155.23	
		<i>For Traffic Rated Lid, Add</i>	127.50	
33 71 19 13-0017	EA	No. 6 Electric Precast Concrete Pull Boxes With Traffic Rated Lid.....	1,568.15	
		<i>For 12" Extension, Add</i>	196.12	
		<i>For Traffic Rated Lid, Add</i>	176.57	

33 71 19 13-0018 Electrical Pull Boxes (CALTRANS And SDG&E) (33 71 19 13-0001)

33 71 19 13-0019	EA	Body, CALTRANS 3-1/2 Precast Concrete Pull Box.....	124.68	
33 71 19 13-0020	EA	Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box.....	50.87	
33 71 19 13-0021	EA	Bolt Down Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box.....	77.66	
33 71 19 13-0022	EA	Bolt Down Cast Iron Cover, CALTRANS 3-1/2 Precast Concrete Pull Box.....	166.81	
33 71 19 13-0023	EA	Bolt Down Steel Cover, CALTRANS 3-1/2 Precast Concrete Pull Box.....	259.25	
		<i>For Galvanized Steel Cover, Add</i>	44.75	
33 71 19 13-0024	EA	12" Extension, CALTRANS 3-1/2 Precast Concrete Pull Box.....	63.43	
33 71 19 13-0025	EA	Flat Plate Base, CALTRANS 3-1/2 Precast Concrete Pull Box.....	63.43	
33 71 19 13-0026	EA	Body, CALTRANS 5 Precast Concrete Pull Box.....	177.99	
33 71 19 13-0027	EA	Concrete Cover, CALTRANS 5 Precast Concrete Pull Box.....	68.37	
33 71 19 13-0028	EA	Bolt Down Concrete Cover, CALTRANS 5 Precast Concrete Pull Box.....	95.16	
33 71 19 13-0029	EA	Bolt Down Steel Cover, CALTRANS 5 Precast Concrete Pull Box.....	344.58	
		<i>For Galvanized Steel Cover, Add</i>	82.05	
33 71 19 13-0030	EA	12" Extension, CALTRANS 5 Precast Concrete Pull Box.....	90.78	
33 71 19 13-0031	EA	Flat Plate Base, CALTRANS 5 Precast Concrete Pull Box.....	84.77	
33 71 19 13-0032	EA	Body, CALTRANS 6 Precast Concrete Pull Box.....	195.50	
33 71 19 13-0033	EA	Concrete Cover, CALTRANS 6 Precast Concrete Pull Box.....	91.89	
33 71 19 13-0034	EA	Bolt Down Concrete Cover, CALTRANS 6 Precast Concrete Pull Box.....	118.68	
33 71 19 13-0035	EA	Bolt Down Steel Cover, CALTRANS 6 Precast Concrete Pull Box.....	473.67	
		<i>For Galvanized Steel Cover, Add</i>	114.86	
33 71 19 13-0036	EA	12" Extension, CALTRANS 6 Precast Concrete Pull Box.....	108.29	
33 71 19 13-0037	EA	Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box.....	101.72	
33 71 19 13-0038	EA	6" Return Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box.....	141.11	
33 71 19 13-0039	EA	Body, CALTRANS 3-1/2-T Precast Concrete Pull Box	284.94	
33 71 19 13-0040	EA	Bolt Down Concrete Cover, CALTRANS 3-1/2-T Precast Concrete Pull Box	414.59	
33 71 19 13-0041	EA	12" Extension, CALTRANS 3-1/2-T Precast Concrete Pull Box.....	130.17	
33 71 19 13-0042	EA	Flat Plate Base, CALTRANS 3-1/2-T Precast Concrete Pull Box	119.23	
33 71 19 13-0043	EA	Body, CALTRANS 5-T Precast Concrete Pull Box.....	370.53	
33 71 19 13-0044	EA	Bolt Down Concrete Cover, CALTRANS 5-T Precast Concrete Pull Box	600.56	
33 71 19 13-0045	EA	12" Extension, CALTRANS 5-T Precast Concrete Pull Box.....	156.42	
33 71 19 13-0046	EA	Flat Plate Base, CALTRANS 5-T Precast Concrete Pull Box	152.04	
33 71 19 13-0047	EA	Body, CALTRANS 6-T Precast Concrete Pull Box.....	530.25	



Utilities	33	33
Electrical Utilities	33 70	
Electrical Utility Transmission and Distribution	33 71	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 71 19 13-0048 EA Bolt Down Concrete Cover, CALTRANS 6-T Precast Concrete Pull Box	841.23	
33 71 19 13-0049 EA 12" Extension, CALTRANS 6-T Precast Concrete Pull Box	265.82	
33 71 19 13-0050 EA Flat Plate Base, CALTRANS 6-T Precast Concrete Pull Box	206.74	
33 71 19 13-0051 EA 24" x 36" Handhole (SDG&E 3313K/T).....	208.42	
33 71 19 13-0052 EA 24" x 36" Traffic Cover (SDG&E 3313CSTG)	1,729.08	
33 71 19 13-0053 Precast Concrete Box Extensions <small>(33 71 19 13-0001)</small>		
33 71 19 13-0054 EA 14" x 20" x 12", Precast Concrete Extension	217.46	
33 71 19 13-0055 EA 18" x 28" x 12", Precast Concrete Extension	273.09	
33 71 19 13-0056 EA 24" x 36" x 12", Precast Concrete Extension	355.70	
33 71 19 13-0057 EA 30" x 48" x 12", Precast Concrete Extension	437.02	
33 71 19 13-0058 EA 36" x 60" x 12", Precast Concrete Extension	706.25	
33 71 19 13-0059 EA 36" x 72" x 12", Precast Concrete Extension	948.83	
33 71 19 13-0060 EA 48" x 48" x 12", Precast Concrete Extension	1,081.82	
33 71 19 13-0061 EA 48" x 60" x 12", Precast Concrete Extension	1,327.80	
33 71 19 13-0062 Electrical Property Line Boxes <small>(33 71 19 13)</small>		
33 71 19 13-0063 EA 3'-6" x 2'-9" x 2' Deep Property Line Box	3,266.64	398.38
33 71 19 13-0064 EA 4'-6" x 3'-6" x 4' Deep Property Line Box	3,800.59	413.13
33 71 19 13-0065 EA 6' x 4' x 5' Deep Property Line Box	4,203.77	501.65
33 71 19 13-0066 EA 11'-6" x 4'-6" x 6' Deep Property Line Box	6,415.29	737.73
33 71 19 13-0067 Manhole Accessories <small>(33 71 19 13)</small>		
33 71 19 13-0068 EA 6" Precast Grade Ring Riser Casting.....	468.10	
33 71 19 13-0069 EA 12" Precast Grade Ring Riser Casting.....	506.93	
33 71 19 13-0070 EA 36" Opening Cast Iron Frame And Cover (NEENAH #R-1640-D)	2,589.80	
33 71 19 13-0071 EA 42" Opening Cast Iron Frame And Cover (NEENAH #R-1740-E1).....	3,388.68	
33 71 19 13-0072 EA Cast Iron Adjusting Ring (NEENAH #R-1979)	1,052.56	
33 71 19 13-0073 EA Cast Iron Frame And Cover (NEENAH #R-1640-B)	1,354.83	
33 71 19 23 Trenched Electrical Underground Duct and Ductbanks <small>(33 71 19)</small>		
33 71 19 23-0001 Underground Cable Protection Slab And Marking <small>(33 71 19 23)</small>		
33 71 19 23-0002 EA 24" x 12", 2" Concrete, Underground Cable Protection	5.09	
33 71 19 23-0003 Underground Electrical Concrete Markers <small>(33 71 19 23)</small>		
33 71 19 23-0004 EA 36" x 6" x 6", Underground Electric Concrete Marker	327.04	

END OF SECTION 33

33 Utilities

33 70 Electrical Utilities

33 71 Electrical Utility Transmission and Distribution



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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34 Transportation

34 01 Operation and Maintenance of Transportation ⁽³⁴⁾

34 01 23 Operation and Maintenance of Railways ^(34 01)

34 01 23 33 Track Realignment ^(34 01 23)

34 01 23 33-0001 Realign Railroad Track ^(34 01 23 33)

34 01 23 33-0002	LF	Removal Of Track Rails And Ties And Re-Install Including New Bolts And Spikes	91.43
34 01 23 33-0003	EA	Removal Of Railroad Track Turnouts And Re-install Including New Bolts And Spikes.....	4,463.22

34 01 43 Operation and Maintenance of Bridges ^(34 01)

34 01 43 00-0001 Repair Of Bridge Posts ^(34 01 43)

34 01 43 00-0002	SF	Chipping Of Concrete To Expose Rebar	32.51
34 01 43 00-0003	EA	Removal And Replacement Of Concrete Post, 20" x 20" Square, 36" To 42" High	1,966.14
<i>Note: Includes removal of damaged post, drilling, epoxy injection, rebar, forms and concrete.</i>			
34 01 43 00-0004	EA	Repair Bearing Pad	700.33

34 01 43 00-0005 Repair Of Bridge Rails ^(34 01 43)

34 01 43 00-0006	EA	Repair Concrete Rail Supports	342.10
34 01 43 00-0007	LF	Repair Guardrail	128.29
34 01 43 00-0008	LF	Repair Bridge Parapet Wall	213.81
34 01 43 00-0009	LF	Repair Bridge Rail.....	85.52
34 01 43 00-0010	LF	Repair Damaged Metal Rail And Posts	45.75
34 01 43 00-0011	LF	Removal And Replacement Of 1-1/2" Galvanized Metal Rail	53.21
34 01 43 00-0012	LF	Removal And Replacement Of 2-1/2" Galvanized Metal Rail	71.82
34 01 43 00-0013	LF	Removal And Replacement Of 3" Galvanized Metal Rail	81.81

34 01 43 00-0014 Repair Of Bridge ^(34 01 43)

34 01 43 00-0015	LF	Repair Of Expansion Joints On Bridge	21.58
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34 05 Common Work Results for Transportation ⁽³⁴⁾

34 05 43 Common Work Results for Bridges ^(34 05)

34 05 43 00-0001 Mobilize Bridge Crew ^(34 05 43)

Note: Excludes mobilize jacking crew.

34 05 43 00-0002	EA	Mobilize Bridge Crew	1,233.24
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34 05 43 00-0003 Remove And Patch Bridge And Structures Concrete ^(34 05 43)

Note: This section is used for repairing areas of concrete decks, floors, verticals and overheads and approximately 1" to 6" deep in connection with bridge and structure repairs. Includes chipping, sandblasting, cleaning, primer, formwork and debris removal. Excludes scaffolding, saw cutting, disposal and/or concrete pump truck.

34 05 43 00-0004 Remove And Patch Decks Or Floors ^(34 05 43 00-0003)

Note: For patching decks and floors, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.

34 05 43 00-0005	EA	Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" Portland Cement Based Repair Material	2,168.25
34 05 43 00-0006	SF	Remove And Patch >16 SF Decks Or Floors, Up To 6" Portland Cement Based Repair Material	92.89
34 05 43 00-0007	EA	Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" Rapid Set Concrete Repair Material.....	2,240.13
34 05 43 00-0008	SF	Remove And Patch >16 SF Decks Or Floors, Up To 6" Rapid Set Concrete Repair Material	97.38
34 05 43 00-0009	EA	Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate.....	2,224.23
34 05 43 00-0010	SF	Remove And Patch >16 SF Decks Or Floors, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	96.39
34 05 43 00-0011	EA	Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" SSI Flex Patch (Other Than Specified)	3,442.62
<i>For Owner Furnished Material, Deduct</i>			
-1,493.33			
34 05 43 00-0012	SF	Remove And Patch >16 SF Decks Or Floors, Up To 6" SSI Flex Patch (Other Than Specified).....	172.54
<i>For Owner Furnished Material, Deduct</i>			
-93.33			

34 05 43 00-0013 Remove And Patch Verticals Or Overheads ^(34 05 43 00-0003)

Note: For patching verticals and overhead, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.

34 05 43 00-0014	EA	Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Portland Cement Based Repair Material.....	2,547.12
34 05 43 00-0015	SF	Remove And Patch >16 SF Verticals Or Overheads, Up To 6" Portland Cement Based Repair Material	111.84
34 05 43 00-0016	EA	Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Rapid Set Concrete Repair Material	2,619.00
34 05 43 00-0017	SF	Remove And Patch >16 SF Verticals Or Overheads, Up To 6" Rapid Set Concrete Repair Material.....	116.33
34 05 43 00-0018	EA	Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate.....	2,603.10
34 05 43 00-0019	SF	Remove And Patch >16 SF Verticals Or Overheads, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate.....	115.34

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0020 EA Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" SSI Flex Patch (Other Than Specified)	3,821.49	
<i>For Owner Furnished Material, Deduct</i>	-1,493.33	
34 05 43 00-0021 SF Remove And Patch >16 SF Verticals Or Overheads, Up To 6" SSI Flex Patch (Other Than Specified).....	191.49	
<i>For Owner Furnished Material, Deduct</i>	-93.33	
34 05 43 00-0022 Remove And Patch Pier Caps And Pedestals <small>(34 05 43 00-0003)</small>		
Note: For patching pier caps and pedestals, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-0023 EA Remove And Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Portland Cement Based Repair Material	2,926.00	
34 05 43 00-0024 SF Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" Portland Cement Based Repair Material.....	126.04	
34 05 43 00-0025 EA Remove And Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Rapid Set Concrete Repair Material.....	2,997.88	
34 05 43 00-0026 SF Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" Rapid Set Concrete Repair Material	130.53	
34 05 43 00-0027 EA Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate.....	2,981.98	
34 05 43 00-0028 SF Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	129.54	
34 05 43 00-0029 EA Remove And Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" SSI Flex Patch (Other Than Specified).....	4,200.37	
<i>For Owner Furnished Material, Deduct</i>	-1,493.33	
34 05 43 00-0030 SF Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" SSI Flex Patch (Other Than Specified)	205.69	
<i>For Owner Furnished Material, Deduct</i>	-93.33	
34 05 43 00-0031 Remove And Patch Circular Piers <small>(34 05 43 00-0003)</small>		
Note: For patching circular piers, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-0032 EA Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" Portland Cement Based Repair Material	3,494.31	
34 05 43 00-0033 SF Remove And Patch >16 SF Of Circular Pier, Up To 6" Portland Cement Based Repair Material.....	140.20	
34 05 43 00-0034 EA Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" Rapid Set Concrete Repair Material	3,566.19	
34 05 43 00-0035 SF Remove And Patch >16 SF Of Circular Pier, Up To 6" Rapid Set Concrete Repair Material.....	144.75	
34 05 43 00-0036 EA Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	3,550.29	
34 05 43 00-0037 SF Remove And Patch >16 SF Circular Pier, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate.....	187.01	
34 05 43 00-0038 EA Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" SSI Flex Patch (Other Than Specified).....	4,768.68	
<i>For Owner Furnished Material, Deduct</i>	-1,493.33	
34 05 43 00-0039 SF Remove And Patch >16 SF Of Circular Pier, Up To 6" SSI Flex Patch (Other Than Specified)	219.91	
<i>For Owner Furnished Material, Deduct</i>	-93.33	
34 05 43 00-0040 Fiber Reinforced Shotcrete Repair <small>(34 05 43)</small>		
34 05 43 00-0041 EA Mobilize Fiber Reinforced Shotcrete Repair Crew	773.95	
34 05 43 00-0042 SF Up To 2" Thick, Fiber Reinforced Shotcrete Repair	59.63	
<i>For Up To 25, Add</i>	29.03	
<i>For >25 To 50, Add</i>	14.52	
<i>For >50 To 150, Add</i>	5.81	
34 05 43 00-0043 SF >2" To 4" Thick, Fiber Reinforced Shotcrete Repair	70.86	
<i>For Up To 25, Add</i>	33.86	
<i>For >25 To 50, Add</i>	16.93	
<i>For >50 To 150, Add</i>	6.77	
34 05 43 00-0044 SF >4" To 6" Thick, Fiber Reinforced Shotcrete Repair	82.12	
<i>For Up To 25, Add</i>	38.70	
<i>For >25 To 50, Add</i>	19.35	
<i>For >50 To 150, Add</i>	7.74	
34 05 43 00-0045 Bridge Railing <small>(34 05 43)</small>		
34 05 43 00-0046 Remove And Store Bridge Railings <small>(34 05 43 00-0045)</small>		
See CSI section 34 82 23 00-0007 for posts.		
34 05 43 00-0047 LF Removal And Storage Of One Rail Bridge Railing.....	6.97	
34 05 43 00-0048 LF Removal And Storage Of Two Rail Bridge Railing	13.94	
34 05 43 00-0049 LF Removal And Storage Of Three Rail Bridge Railing	20.91	
34 05 43 00-0050 LF Removal And Storage Of Four Rail Bridge Railing	27.87	
34 05 43 00-0051 Install Stored Or Supplied Bridge Railings <small>(34 05 43 00-0045)</small>		
See CSI section 34 82 23 00-0007 for posts.		
34 05 43 00-0052 LF Install Stored Or Supplied One Rail Bridge Railing	58.71	
34 05 43 00-0053 LF Install Stored Or Supplied Two Rail Bridge Railing	117.44	
34 05 43 00-0054 LF Install Stored Or Supplied Three Rail Bridge Railing	176.15	
34 05 43 00-0055 LF Install Stored Or Supplied Four Rail Bridge Railing	234.87	
34 05 43 00-0056 Bridge Bearings <small>(34 05 43)</small>		
Note: Excludes drilling and anchor bolts.		
34 05 43 00-0057 Elastomeric Bearings <small>(34 05 43 00-0056)</small>		
34 05 43 00-0058 EA Plain Elastomeric, Type EP Bearing, 716-10, All Loads	1,112.44	302.02
34 05 43 00-0059 EA Steel Laminated Elastomeric, Type EL Bearing, 716-11, Up To 100K.....	1,669.36	604.03
<i>For >100K To 250K Load, Add</i>	83.88	
<i>For >250K To 500K Load, Add</i>	167.76	
<i>For >500K To 750K Load, Add</i>	251.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0060 EA Elastomeric with External Load Plates, Type EB Bearing, 716-12, Up To 100K..... <i>For >100K To 250K Load, Add</i> <i>For >250K To 500K Load, Add</i> <i>For >500K To 750K Load, Add</i>	3,790.24 254.44 508.89 763.33	906.05
34 05 43 00-0061 Fixed Structural Pot Bearings (34 05 43 00-0066)		
34 05 43 00-0062 EA 100K To 250K Fixed Structural Pot Bearing	3,323.18	
34 05 43 00-0063 EA >250K To 500K Fixed Structural Pot Bearing	5,080.58	
34 05 43 00-0064 EA >500K To 750K Fixed Structural Pot Bearing	6,837.95	
34 05 43 00-0065 Universal Structural Expansion Pot Bearings (34 05 43 00-0066)		
34 05 43 00-0066 EA 100K To 250K Universal Structural Pot Bearing	4,125.99	
34 05 43 00-0067 EA >250K To 500K Universal Structural Pot Bearing	6,313.76	
34 05 43 00-0068 EA >500K To 750K Universal Structural Pot Bearing	8,505.26	
34 05 43 00-0069 Guided Structural Expansion Pot Bearings (34 05 43 00-0066)		
34 05 43 00-0070 EA 100K To 250K Guided Structural Pot Bearing	4,272.80	
34 05 43 00-0071 EA >250K To 500K Guided Structural Pot Bearing	6,533.93	
34 05 43 00-0072 EA >500K To 750K Guided Structural Pot Bearing	8,798.83	
34 05 43 00-0073 Remove, Repair And Install Bridge Bearings (34 05 43 00-0066)		
34 05 43 00-0074 Remove Structural Bearings (34 05 43 00-0073)		
34 05 43 00-0075 EA 100K To 250K Structural Bearing Removal	434.15	
34 05 43 00-0076 EA >250K To 500K Structural Bearing Removal	868.30	
34 05 43 00-0077 EA >500K To 750K Structural Bearing Removal	1,302.44	
34 05 43 00-0078 Install And Set Supplied Or Restored Structural Bearings (34 05 43 00-0073)		
34 05 43 00-0079 EA 100K To 250K Structural Bearing - Install And Set Supplied Or Restored Bearing	651.22	
34 05 43 00-0080 EA >250K To 500K Structural Bearing - Install And Set Supplied Or Restored Bearing	1,302.44	
34 05 43 00-0081 EA >500K To 750K Structural Bearing - Install And Set Supplied Or Restored Bearing	1,953.67	
34 05 43 00-0082 Power Wash And Paint Structural Bearings (34 05 43 00-0073)		
Note: Includes bearing plates.		
34 05 43 00-0083 EA 100K To 250K Structural Bearing - Power Wash And Paint	1,015.89	
34 05 43 00-0084 EA >250K To 500K Structural Bearing - Power Wash And Paint	1,147.64	
34 05 43 00-0085 EA >500K To 750K Structural Bearing - Power Wash And Paint	1,279.39	
34 05 43 00-0086 Power Wash, Mechanically Clean And Paint Structural Bearings (34 05 43 00-0073)		
Note: Includes bearing plates. Excludes paint removal.		
34 05 43 00-0087 EA 100K To 250K Structural Bearing - Power Wash, Mechanically Clean And Paint	1,351.51	
<i>For Vacuum Contained Cleaning, Add</i>	335.59	
34 05 43 00-0088 EA >250K To 500K Structural Bearing - Power Wash, Mechanically Clean And Paint	1,525.16	
<i>For Vacuum Contained Cleaning, Add</i>	377.52	
34 05 43 00-0089 EA >500K To 750K Structural Bearing - Power Wash, Mechanically Clean And Paint	1,698.43	
<i>For Vacuum Contained Cleaning, Add</i>	419.36	
34 05 43 00-0090 Power Wash And Paint Only Bearing Plates (34 05 43 00-0073)		
34 05 43 00-0091 EA 100K To 250K Structural Bearing - Power Wash And Paint Only Bearing Plates.....	633.79	
34 05 43 00-0092 EA >250K To 500K Structural Bearing - Power Wash And Paint Only Bearing Plates.....	762.58	
34 05 43 00-0093 EA >500K To 750K Structural Bearing - Power Wash And Paint Only Bearing Plates.....	891.37	
34 05 43 00-0094 Power Wash, Mechanically Clean And Paint Only Bearing Plates (34 05 43 00-0073)		
34 05 43 00-0095 EA 100K To 250K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates.....	845.19	
<i>For Vacuum Contained Cleaning, Add</i>	209.74	
34 05 43 00-0096 EA >250K To 500K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates.....	1,014.26	
<i>For Vacuum Contained Cleaning, Add</i>	251.68	
34 05 43 00-0097 EA >500K To 750K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates.....	1,182.95	
<i>For Vacuum Contained Cleaning, Add</i>	293.52	
34 05 43 00-0098 Sand Blast And Paint Structural Bearings (34 05 43 00-0073)		
Note: Includes bearing plates.		
34 05 43 00-0099 EA 100K To 250K Structural Bearing - Sand Blast And Paint	1,619.92	
<i>For Vacuum Contained Cleaning, Add</i>	402.69	
34 05 43 00-0100 EA >250K To 500K Structural Bearing - Sand Blast And Paint	1,827.18	
<i>For Vacuum Contained Cleaning, Add</i>	453.03	
34 05 43 00-0101 EA >500K To 750K Structural Bearing - Sand Blast And Paint	2,034.43	
<i>For Vacuum Contained Cleaning, Add</i>	503.36	
34 05 43 00-0102 Sand Blast And Paint Only Bearing Plates (34 05 43 00-0073)		

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0103 EA 100K To 250K Structural Bearing - Sand Blast And Paint Only Bearing Plates.....	1,012.94	
<i>For Vacuum Contained Cleaning, Add</i>	251.68	
34 05 43 00-0104 EA >250K To 500K Structural Bearing - Sand Blast And Paint Only Bearing Plates.....	1,215.60	
<i>For Vacuum Contained Cleaning, Add</i>	302.02	
34 05 43 00-0105 EA >500K To 750K Structural Bearing - Sand Blast And Paint Only Bearing Plates.....	1,418.27	
<i>For Vacuum Contained Cleaning, Add</i>	352.35	
34 05 43 00-0106 Grease Structural Bearings <small>(34 05 43 00-0073)</small>		
34 05 43 00-0107 EA 100K To 250K Structural Bearing - Grease	62.92	
34 05 43 00-0108 EA >250K To 500K Structural Bearing - Grease	94.38	
34 05 43 00-0109 EA >500K To 750K Structural Bearing - Grease	125.84	
34 05 43 00-0110 Replace Bronze Plate Wearing Pad <small>(34 05 43 00-0073)</small>		
34 05 43 00-0111 SF Removal And Replacement Of Bronze Plate Wearing Pad	426.82	
34 05 43 00-0112 Bridge Bearing Rivet Removal <small>(34 05 43 00-0073)</small>		
See CSI section 02 41 19 13-0080 for reaming of hole, 34 05 43 00-0343 for anchors and grouting.		
34 05 43 00-0113 EA Bridge Bearing Rivet Removal	251.68	
34 05 43 00-0114 Bridge Pintels, Side Keeper, And Shim Plates <small>(34 05 43)</small>		
34 05 43 00-0115 EA Removal And Replacement Of Bridge Pintel	250.71	
34 05 43 00-0116 EA Removal And Replacement Of Bridge Side Keeper.....	256.28	
34 05 43 00-0117 EA Refabricate And Install Shim Plates At One Bearing	158.61	
34 05 43 00-0118 EA Refabricate And Install Beveled Shim Plates At One Bearing	158.61	
34 05 43 00-0119 EA Refabricate And Install Finger Shim Plates At One Bearing	158.61	
34 05 43 00-0120 Vertical Jacking And Lifting <small>(34 05 43)</small>		
Note: For vertical jacking of structural members. Includes jacks, hydraulics, and synchronizing equipment where appropriate. Excludes engineering and design. See CSI section 03 01 30 71-0000 for concrete repair, 05 12 23 00-0000 for temporary steel members.		
34 05 43 00-0121 Mobilize Jacking Crew And Equipment <small>(34 05 43 00-0120)</small>		
Note: Includes removing equipment after completion.		
34 05 43 00-0122 EA Mobilize Bridge Jacking Crew and Equipment.....	2,265.13	
<i>For Temporary Support Mobilization, Add</i>	4,530.26	
34 05 43 00-0123 Vertical Jacking And Lifting Per Point of Contact <small>(34 05 43 00-0120)</small>		
Note: Includes positioning jack, shims, lifting, and lowering. Excludes temporary steel, temporary lumber, and concrete repairs.		
34 05 43 00-0124 EA Up To 10 Ton Jack, Per Point Of Contact.....	377.52	
<i>For Synchronized Lift, Add</i>	75.50	
<i>For Jacking From Temporary Support, Add</i>	151.01	
34 05 43 00-0125 EA >10 To 20 Ton Jack, Per Point Of Contact	440.44	
<i>For Synchronized Lift, Add</i>	88.09	
<i>For Jacking From Temporary Support, Add</i>	176.18	
34 05 43 00-0126 EA >20 To 40 Ton Jack, Per Point Of Contact	503.36	
<i>For Synchronized Lift, Add</i>	100.67	
<i>For Jacking From Temporary Support, Add</i>	201.34	
34 05 43 00-0127 EA >40 To 60 Ton Jack, Per Point Of Contact	566.28	
<i>For Synchronized Lift, Add</i>	113.26	
<i>For Jacking From Temporary Support, Add</i>	226.51	
34 05 43 00-0128 EA >60 To 80 Ton Jack, Per Point Of Contact	629.20	
<i>For Synchronized Lift, Add</i>	125.84	
<i>For Jacking From Temporary Support, Add</i>	251.68	
34 05 43 00-0129 EA >80 To 100 Ton Jack, Per Point Of Contact	692.12	
<i>For Synchronized Lift, Add</i>	138.42	
<i>For Jacking From Temporary Support, Add</i>	276.85	
34 05 43 00-0130 EA >100 To 120 Ton Jack, Per Point Of Contact	755.04	
<i>For Synchronized Lift, Add</i>	151.01	
<i>For Jacking From Temporary Support, Add</i>	302.02	
34 05 43 00-0131 EA >120 To 140 Ton Jack, Per Point Of Contact	786.50	
<i>For Synchronized Lift, Add</i>	157.30	
<i>For Jacking From Temporary Support, Add</i>	314.60	
34 05 43 00-0132 EA >140 To 160 Ton Jack, Per Point Of Contact	817.96	
<i>For Synchronized Lift, Add</i>	163.59	
<i>For Jacking From Temporary Support, Add</i>	327.18	
34 05 43 00-0133 EA >160 To 250 Ton Jack, Per Point Of Contact	817.96	
<i>For Synchronized Lift, Add</i>	163.59	
<i>For Jacking From Temporary Support, Add</i>	327.18	
34 05 43 00-0134 EA >250 To 300 Ton Jack, Per Point Of Contact	880.88	
<i>For Synchronized Lift, Add</i>	176.18	
<i>For Jacking From Temporary Support, Add</i>	352.35	
34 05 43 00-0135 EA >300 To 400 Ton Jack, Per Point Of Contact	943.80	
<i>For Synchronized Lift, Add</i>	188.76	
<i>For Jacking From Temporary Support, Add</i>	377.52	
34 05 43 00-0136 EA >400 To 500 Ton Jack, Per Point Of Contact	1,006.72	
<i>For Synchronized Lift, Add</i>	201.34	
<i>For Jacking From Temporary Support, Add</i>	402.69	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	34 05 43 00-0137 EA	>500 To 600 Ton Jack, Per Point Of Contact <i>For Synchronized Lift, Add</i> <i>For Jacking From Temporary Support, Add</i>	1,069.64 213.93 427.86	
34 05 43 00-0138	Daily Charge For Vertical Jacking Equipment <small>(34 05 43 00-0120)</small>	<i>Note: Includes hydraulics and synchronizing equipment.</i>		
	34 05 43 00-0139 DAY	Up To 10 Ton Jacking Equipment Charge By The Day	19.58	
	34 05 43 00-0140 DAY	>10 To 20 Ton Jacking Equipment Charge By The Day	39.16	
	34 05 43 00-0141 DAY	>20 To 40 Ton Jacking Equipment Charge By The Day	78.31	
	34 05 43 00-0142 DAY	>40 To 60 Ton Jacking Equipment Charge By The Day	117.47	
	34 05 43 00-0143 DAY	>60 To 80 Ton Jacking Equipment Charge By The Day	156.63	
	34 05 43 00-0144 DAY	>80 To 100 Ton Jacking Equipment Charge By The Day	195.78	
	34 05 43 00-0145 DAY	>100 To 120 Ton Jacking Equipment Charge By The Day	234.94	
	34 05 43 00-0146 DAY	>120 To 140 Ton Jacking Equipment Charge By The Day	274.10	
	34 05 43 00-0147 DAY	>140 To 160 Ton Jacking Equipment Charge By The Day	313.26	
	34 05 43 00-0148 DAY	>160 To 250 Ton Jacking Equipment Charge By The Day	357.46	
	34 05 43 00-0149 DAY	>250 To 300 Ton Jacking Equipment Charge By The Day	407.50	
	34 05 43 00-0150 DAY	>300 To 400 Ton Jacking Equipment Charge By The Day	516.16	
	34 05 43 00-0151 DAY	>400 To 500 Ton Jacking Equipment Charge By The Day	612.93	
	34 05 43 00-0152 DAY	>500 To 600 Ton Jacking Equipment Charge By The Day	698.77	
34 05 43 00-0153	Temporary Shoring <small>(34 05 43 00-0120)</small>	<i>Note: Setup includes material use cost and initial erection. Setup is also used for relocation to the opposite abutment. Relocation includes moving and setup at a new jacking location. Takedown includes disassembly and removal from the site. Excludes earthwork and temporary stone.</i>		
34 05 43 00-0154	HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring <small>(34 05 43 00-0153)</small>			
	34 05 43 00-0155 EA	HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup	2,828.22	
	34 05 43 00-0156 EA	HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	2,027.77	
	34 05 43 00-0157 EA	HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	399.58	
34 05 43 00-0158	HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring <small>(34 05 43 00-0153)</small>			
	34 05 43 00-0159 EA	HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup	2,926.03	
	34 05 43 00-0160 EA	HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	1,907.72	
	34 05 43 00-0161 EA	HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	383.31	
34 05 43 00-0162	HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring <small>(34 05 43 00-0153)</small>			
	34 05 43 00-0163 EA	HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup	1,821.98	
	34 05 43 00-0164 EA	HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	771.04	
	34 05 43 00-0165 EA	HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	244.02	
34 05 43 00-0166	HP14x117 Column Attached to Existing Footing, Permanent Steel Stiffeners, Braced by Angles Attached to Abutment Face, Temporary Shoring <small>(34 05 43 00-0153)</small>			
	34 05 43 00-0167 EA	HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup	5,340.86	
	34 05 43 00-0168 EA	HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	3,135.82	
	34 05 43 00-0169 EA	HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	656.81	
34 05 43 00-0170	Mat Supported HP12x63 Column, Braced by Channel and Angles, Attached to Existing 4" Diameter Concrete Column, Temporary Shoring <small>(34 05 43 00-0153)</small>	<i>Note: Excludes mats. See CSI section 01 22 23 00-0543 for mats.</i>		
	34 05 43 00-0171 EA	Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Setup	5,490.10	
		<i>Note: Excludes mats.</i>		

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0172 EA Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Relocation.....	2,023.86	
Note: Excludes mats.		
34 05 43 00-0173 EA Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Take Down And Removal	1,002.51	
Note: Excludes mats.		
34 05 43 00-0174 Mat Supported HP12x53 Column, Braced by Channel and Angles, Attached to Abutment Face, Temporary Shoring <small>(34 05 43 00-0153)</small>		
Note: Excludes mats. See CSI section 01 22 23 00-0543 for mats.		
34 05 43 00-0175 EA Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup.....	2,276.03	
34 05 43 00-0176 EA Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	608.90	
Note: Excludes mats.		
34 05 43 00-0177 EA Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	343.66	
Note: Excludes mats.		
34 05 43 00-0178 MC18x51.9 Attached to Abutment Face, Temporary Wood Stiffeners, Temporary Shoring <small>(34 05 43 00-0153)</small>		
34 05 43 00-0179 EA MC18x51.9 Attached To Abutment Face, Temporary Shoring Setup	2,701.62	
34 05 43 00-0180 EA MC18x51.9 Attached To Abutment Face, Temporary Shoring Relocation.....	2,479.10	
34 05 43 00-0181 EA MC18x51.9 Attached To Abutment Face, Temporary Shoring Take Down And Removal	335.52	
34 05 43 00-0182 MC15x74 Attached to Abutment Face, Temporary Wood Stiffeners, Temporary Shoring <small>(34 05 43 00-0153)</small>		
34 05 43 00-0183 EA WT15x74 Attached To Abutment Face, Temporary Shoring Setup	1,998.27	
34 05 43 00-0184 EA WT15x74 Attached To Abutment Face, Temporary Shoring Relocation.....	1,815.57	
34 05 43 00-0185 EA WT15x74 Attached To Abutment Face, Temporary Shoring Take Down And Removal	276.56	
34 05 43 00-0186 Plates And Angles Connecting Existing Diaphragm To Existing Bearing Stiffener At Pedestrian Bridge Column, Temporary Shoring <small>(34 05 43 00-0153)</small>		
34 05 43 00-0187 EA Plates And Angles Connecting Existing Diaphragm To Existing Bearing Stiffener At Pedestrian Bridge, Temporary Shoring Setup.....	1,298.84	
Note: Left in place.		
34 05 43 00-0188 Temporary Bridge Shoring Components <small>(34 05 43 00-0153)</small>		
Note: For temporary shoring of columns and abutments associated with vertical jacking of structural members. Includes lifting equipment where appropriate. Excludes engineering and design. See CSI section 01 54 23 00-0040 for temporary lumber.		
34 05 43 00-0189 Fabricate, Install And Remove After Use Temporary Steel Bridge Shoring <small>(34 05 43 00-0188)</small>		
Note: Includes cutting, drilling and welds. Excludes gravel, mats, anchors, and bolts.		
34 05 43 00-0190 LF Fabricate And Install MC7 x 19.1 For Temorary Bridge Shoring.....	89.08	
Note: Remove after use.		
34 05 43 00-0191 LF Fabricate And Install MC18 x 51.9 For Temorary Bridge Shoring.....	218.16	
Note: Remove after use.		
34 05 43 00-0192 LF Fabricate And Install HP12 x 53 For Temorary Bridge Shoring	174.34	
Note: Remove after use.		
34 05 43 00-0193 LF Fabricate And Install HP12 x 63 For Temorary Bridge Shoring	196.13	
Note: Remove after use.		
34 05 43 00-0194 LF Fabricate And Install 3" x 3" x 3/8" Angle Iron For Temorary Bridge Shoring	25.58	
Note: Remove after use.		
<i>For Galvanized Steel, Add</i>	7.17	
34 05 43 00-0195 LF Fabricate And Install 4" x 4" x 3/8" Angle Iron For Temorary Bridge Shoring	32.75	
Note: Remove after use.		
<i>For Galvanized Steel, Add</i>	9.75	
34 05 43 00-0196 LF Fabricate And Install 7" x 4" x 5/8" Angle Iron For Temorary Bridge Shoring	66.98	
Note: Remove after use.		
<i>For Galvanized Steel, Add</i>	22.05	
34 05 43 00-0197 LF Fabricate And Install 5" x 3-1/2" x 3/4" Angle Iron For Temorary Bridge Shoring	58.28	
Note: Remove after use.		
<i>For Galvanized Steel, Add</i>	19.75	
34 05 43 00-0198 LF Fabricate And Install 7" x 4" x 3/4" Angle Iron For Temorary Bridge Shoring	77.13	
Note: Remove after use.		
<i>For Galvanized Steel, Add</i>	26.14	
34 05 43 00-0199 SF Fabricate And Install 5/8" A36 Steel Plates For Temorary Bridge Shoring	90.93	
Note: Remove after use.		
<i>For A50 Grade Steel, Add</i>	2.63	
34 05 43 00-0200 SF Fabricate And Install 7/8" A36 Steel Plates For Temorary Bridge Shoring	127.29	
Note: Remove after use.		
<i>For A50 Grade Steel, Add</i>	3.68	
34 05 43 00-0201 SF Fabricate And Install 1-3/8" A36 Steel Plates For Temorary Bridge Shoring	200.04	
Note: Remove after use.		
<i>For A50 Grade Steel, Add</i>	5.78	
34 05 43 00-0202 SF Fabricate And Install 1-1/2" A36 Steel Plates For Temorary Bridge Shoring	218.24	
Note: Remove after use.		
<i>For A50 Grade Steel, Add</i>	6.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0203 Relocate Temporary Steel Bridge Shoring <small>(34 05 43 00-0188)</small>		
<i>Note: Includes removal after use.</i>		
34 05 43 00-0204 EA Relocate Complete Temporary Steel Bridge Shoring	4,419.05	
<i>Note: Remove after use. Includes relocating support mats. Excludes anchors, bolts or additional steel if required.</i>		
34 05 43 00-0205 SF Relocate 1-3/8" A36 Steel Plates For Temporary Bridge Shoring	84.49	
<i>Note: Remove after use.</i>		
34 05 43 00-0206 LF Relocate HP12 x 63 For Temporary Bridge Shoring.....	70.71	
<i>Note: Remove after use.</i>		
34 05 43 00-0207 LF Relocate 3" x 3" x 3/8" Angle Iron For Temporary Bridge Shoring.....	14.02	
<i>Note: Remove after use.</i>		
34 05 43 00-0208 LF Relocate 4" x 4" x 3/8" Angle Iron For Temporary Bridge Shoring.....	17.02	
<i>Note: Remove after use.</i>		
34 05 43 00-0209 LF Relocate 7" x 4" x 3/4" Angle Iron For Temporary Bridge Shoring.....	34.97	
<i>Note: Remove after use.</i>		
34 05 43 00-0210 SF Relocate 7/8" A36 Steel Plates For Temporary Bridge Shoring.....	53.76	
<i>Note: Remove after use.</i>		
34 05 43 00-0211 LF Relocate MC7 x 19.1 For Temporary Bridge Shoring	41.00	
<i>Note: Remove after use.</i>		
34 05 43 00-0212 LF Relocate HP12 x 53 For Temporary Bridge Shoring.....	69.23	
<i>Note: Remove after use.</i>		
34 05 43 00-0213 SF Relocate 5/8" A36 Steel Plates For Temporary Bridge Shoring.....	38.41	
<i>Note: Remove after use.</i>		
34 05 43 00-0214 LF Relocate 7" x 4" x 5/8" Angle Iron For Temporary Bridge Shoring.....	31.41	
<i>Note: Remove after use.</i>		
34 05 43 00-0215 SF Relocate 1-1/2" A36 Steel Plates For Temporary Bridge Shoring	92.18	
<i>Note: Remove after use.</i>		
34 05 43 00-0216 LF Relocate MC18 x 51.9 For Temporary Bridge Shoring.....	118.33	
<i>Note: Remove after use.</i>		
34 05 43 00-0217 LF Relocate 5" x 3-1/2" x 3/4" Angle Iron For Temporary Bridge Shoring.....	26.42	
<i>Note: Remove after use.</i>		
34 05 43 00-0218 Pier Caps And Pedestal Replacement For Bridges <small>(34 05 43)</small>		
<i>See CSI section 03 15 19 00-0001 for anchor bolts.</i>		
34 05 43 00-0219 SF Bridge Wood Formwork For Seats, Pedestals, Pier Caps And Miscellaneous Areas For Bridges.....	27.44	
34 05 43 00-0220 CWT Rebar For Pier Cap Or Pedestals For Bridges.....	429.76	
34 05 43 00-0221 CY Pour Pedestals For Bridges.....	405.64	
34 05 43 00-0222 CY Demolish Concrete Pedestals For Bridges	4,185.27	
34 05 43 00-0223 CY Pour Pier Cap For Bridges.....	479.41	
34 05 43 00-0224 CY Demolish Concrete Pier Cap For Bridges.....	4,812.60	
34 05 43 00-0225 Bridge Deck Repair <small>(34 05 43)</small>		
34 05 43 00-0226 Bridge Expansion Joint Repair <small>(34 05 43 00-0225)</small>		
<i>Note: Replace header with semi-flexible polymer nosing system. Includes saw cutting, chipping, sandblasting, forming, backer rod cleaning, primer and debris removal. Excludes disposal.</i>		
34 05 43 00-0227 CF Removal And Replacement Of Header With Semi-Flexible Polymer Nosing System For Bridge Expansion Joint Repair.....	861.35	
34 05 43 00-0228 CF Removal And Replacement Of Header With Fast-Setting, Rapid-Hardening Structural Repair Mortar For Bridge Expansion Joint Repair.....	252.17	
<i>Note: Includes saw cutting, drilling, removing concrete, forming, cleaning, primer, concrete material, reinforcing, dowels, debris removal and disposal. Excludes seal.</i>		
<i>For Up To 24, Add</i>	<i>39.84</i>	
34 05 43 00-0229 CF Removal And Replacement Of Header With Polyester-Based Polymer Patch For Bridge Expansion Joint Repair.....	278.65	
<i>Note: Includes saw cutting, drilling, removing concrete, forming, cleaning, primer, concrete material, reinforcing, dowels, debris removal and disposal. Excludes seal.</i>		
<i>For Up To 24, Add</i>	<i>42.49</i>	
34 05 43 00-0230 CI Seal Expansion Joints With Rapid Cure Silicone For Bridge Expansion Joint Repair	8.16	
34 05 43 00-0231 CI Seal Expansion Joints With Closed Cell Foam/EVA For Bridge Expansion Joint Repair	0.81	
34 05 43 00-0232 LF Seal Expansion Joints With "V" Shape Preformed Silicone For Bridge Expansion Joint Repair.....	102.75	
34 05 43 00-0233 LF Seal Expansion Joints With "W" Shape Preformed Silicone For Bridge Expansion Joint Repair.....	109.33	
34 05 43 00-0234 Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>		
<i>Note: Includes steel profile and neoprene seal element. Demolition includes saw cutting and disposal of existing strip seal but excludes concrete removal.</i>		
34 05 43 00-0235 LF 1-1/4" x 3-3/4" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck.....	204.64	
34 05 43 00-0236 LF 1-7/8" x 8" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck.....	234.58	
34 05 43 00-0237 LF 1-1/4" x 2" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck.....	197.55	
34 05 43 00-0238 LF 1" x 1-1/2" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck.....	194.67	
34 05 43 00-0239 Silicone Joint Sealant For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>		
<i>Note: Installation includes saw cutting, high pressure water wash, sand blast, sweeping, cleaning area, backer rod and silicone sealant.</i>		

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0240 LF 1" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck.....	23.30	
34 05 43 00-0241 LF 1-1/2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck.....	28.90	
34 05 43 00-0242 LF 2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck.....	35.20	
34 05 43 00-0243 LF 2-1/2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck.....	38.72	
34 05 43 00-0244 V Shaped Preformed Extruded EPDM Expansion Joint For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>		
Note: Includes saw cutting, sand blasting, conditioner, epoxy, and backer rod.		
34 05 43 00-0245 LF 3" Remove And Replace V Shaped Preformed Extruded EPDM Expansion Joint For Concrete Bridge Deck.....	83.35	
34 05 43 00-0246 LF 4" Remove And Replace V Shaped Preformed Extruded EPDM Expansion Joint For Concrete Bridge Deck.....	88.05	
34 05 43 00-0247 J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>		
Note: Includes saw cutting, sand blasting, conditioner, and epoxy.		
34 05 43 00-0248 LF 2" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck.....	84.83	
34 05 43 00-0249 LF 2-1/2" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck.....	101.25	
34 05 43 00-0250 LF 3" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck.....	125.73	
34 05 43 00-0251 LF 3-1/2" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck.....	152.94	
34 05 43 00-0252 LF 4" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck.....	170.98	
34 05 43 00-0253 LF 5" Remove And Replace J Shaped Preformed Extruded Neoprene Expansion Joint For Concrete Bridge Deck.....	317.21	
34 05 43 00-0254 Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>		
Note: Includes saw cutting, sand blasting, and lubricant adhesive.		
34 05 43 00-0255 LF 1-1/4" x 1-1/4" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	43.89	
34 05 43 00-0256 LF 1-5/8" x 1-7/8" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	47.75	
34 05 43 00-0257 LF 1-3/4" x 1-3/4" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	50.05	
34 05 43 00-0258 LF 2" x 2" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	52.84	
34 05 43 00-0259 LF 2-1/2" x 2-1/2" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	59.73	
34 05 43 00-0260 LF 3" x 3-1/4" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	68.67	
34 05 43 00-0261 LF 3-1/2" x 3-1/2" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	81.05	
34 05 43 00-0262 LF 4" x 4" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	93.67	
34 05 43 00-0263 LF 4-1/2" x 4-1/2" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	98.83	
34 05 43 00-0264 LF 5" x 5" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	113.30	
34 05 43 00-0265 LF 6" x 6" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	162.73	
34 05 43 00-0266 Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck <small>(34 05 43 00-0225)</small>		
Note: Includes saw cutting, sand blasting and epoxy.		
34 05 43 00-0267 LF 1/2" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	41.60	
34 05 43 00-0268 LF 5/8" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	42.89	
34 05 43 00-0269 LF 3/4" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	44.17	
34 05 43 00-0270 LF 1" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	45.96	
34 05 43 00-0271 LF 1-1/4" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	47.81	
34 05 43 00-0272 LF 1-1/2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	74.48	
34 05 43 00-0273 LF 1-3/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	79.69	
34 05 43 00-0274 LF 2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	83.06	
34 05 43 00-0275 LF 2-1/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	88.62	
34 05 43 00-0276 LF 2-1/2" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	94.98	
34 05 43 00-0277 LF 2-3/4" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	101.62	
34 05 43 00-0278 LF 3" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	104.83	
34 05 43 00-0279 LF 3-1/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	116.48	
34 05 43 00-0280 LF 3-1/2" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	126.05	
34 05 43 00-0281 LF 3-3/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	134.17	
34 05 43 00-0282 LF 4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	137.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0283 EA 3/4" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	171.66	
34 05 43 00-0284 EA 1" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	177.39	
34 05 43 00-0285 EA 1-1/4" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	209.52	
34 05 43 00-0286 EA 1-1/2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	219.26	
34 05 43 00-0287 EA 1-3/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	226.25	
34 05 43 00-0288 EA 2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	263.35	
34 05 43 00-0289 EA 2-1/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	270.62	
34 05 43 00-0290 EA 2-1/2" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	279.27	
34 05 43 00-0291 EA 2-3/4" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	288.40	
34 05 43 00-0292 EA 3" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	336.46	
34 05 43 00-0293 EA 3-1/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	354.19	
34 05 43 00-0294 EA 3-1/2" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	368.35	
34 05 43 00-0295 EA 3-3/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	380.02	
34 05 43 00-0296 EA 4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	384.21	
34 05 43 00-0297 Remove Existing Steel Joint System (34 05 43 00-0225)		
34 05 43 00-0298 LF Removal Of Existing Steel Joint System.....	61.00	
34 05 43 00-0299 Break-Up And Remove Bridge Decking By Machine (34 05 43 00-0225)		
Note: Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Excludes saw cutting. See CSI section 02 41 19 13-0057 for saw cutting.		
34 05 43 00-0300 SY Break-Up And Remove Up To 3" Thick Bituminous Pavement Bridge Decking By Machine.....	20.54	
For >500 To 1,000, Deduct	-2.05	
For >1,000 To 2,500, Deduct	-3.70	
For >2,500 To 5,000, Deduct	-5.34	
For >5,000 To 10,000, Deduct	-6.98	
For >10,000, Deduct	-8.63	
34 05 43 00-0301 SY Break-Up And Remove >3" To 6" Thick Bituminous Pavement Bridge Decking By Machine.....	28.04	
For >500 To 1,000, Deduct	-2.80	
For >1,000 To 2,500, Deduct	-5.05	
For >2,500 To 5,000, Deduct	-7.29	
For >5,000 To 10,000, Deduct	-9.53	
For >10,000, Deduct	-11.78	
34 05 43 00-0302 SY Break-Up And Remove To 3" Thick Concrete With Reinforcing Bridge Decking By Machine.....	34.02	
For >500 To 1,000, Deduct	-3.40	
For >1,000 To 2,500, Deduct	-6.12	
For >2,500 To 5,000, Deduct	-8.85	
For >5,000 To 10,000, Deduct	-11.57	
For >10,000, Deduct	-14.29	
34 05 43 00-0303 SY Break-Up And Remove > 3" To 6" Thick Concrete With Reinforcing Bridge Decking By Machine.....	43.74	
For >500 To 1,000, Deduct	-4.37	
For >1,000 To 2,500, Deduct	-7.87	
For >2,500 To 5,000, Deduct	-11.37	
For >5,000 To 10,000, Deduct	-14.87	
For >10,000, Deduct	-18.37	
34 05 43 00-0304 SY Break-Up And Remove > 6" To 9" Thick Concrete With Reinforcing Bridge Decking By Machine.....	78.21	
For >500 To 1,000, Deduct	-7.82	
For >1,000 To 2,500, Deduct	-14.08	
For >2,500 To 5,000, Deduct	-20.33	
For >5,000 To 10,000, Deduct	-26.59	
For >10,000, Deduct	-32.85	
34 05 43 00-0305 SY Break-Up And Remove >9" To 14" Thick Concrete With Reinforcing Bridge Decking By Machine.....	102.07	
For >500 To 1,000, Deduct	-10.21	
For >1,000 To 2,500, Deduct	-18.37	
For >2,500 To 5,000, Deduct	-26.54	
For >5,000 To 10,000, Deduct	-34.70	
For >10,000, Deduct	-42.87	
34 05 43 00-0306 SY Break-Up And Remove >14" To 19" Thick Concrete With Reinforcing Bridge Decking By Machine.....	133.44	
For >500 To 1,000, Deduct	-13.34	
For >1,000 To 2,500, Deduct	-24.02	
For >2,500 To 5,000, Deduct	-34.69	
For >5,000 To 10,000, Deduct	-45.37	
For >10,000, Deduct	-56.04	

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0307 SY Break-Up And Remove >19" To 24" Thick Concrete With Reinforcing Bridge Decking By Machine	161.94	
For >500 To 1,000, Deduct	-16.19	
For >1,000 To 2,500, Deduct	-29.15	
For >2,500 To 5,000, Deduct	-42.10	
For >5,000 To 10,000, Deduct	-55.06	
For >10,000, Deduct	-68.01	
34 05 43 00-0308 Break-Up And Remove Bridge Decking By Hand <small>(34 05 43 00-0225)</small>		
Note: Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas up to 100 SF where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Excludes saw cutting. See CSI section 02 41 19 13-0057 for saw cutting.		
34 05 43 00-0309 SF Break-Up And Remove 1" To 3" Thick Bituminous Pavement Bridge Decking By Hand	12.41	
Note: Includes jackhammer and hand tools.		
34 05 43 00-0310 SF Break-Up And Remove >3" To 6" Thick Bituminous Pavement Bridge Decking By Hand	16.33	
Note: Includes jackhammer and hand tools.		
34 05 43 00-0311 SF Break-Up And Remove >6" To 8" Thick Bituminous Pavement Bridge Decking By Hand	21.24	
Note: Includes jackhammer and hand tools.		
34 05 43 00-0312 SF Break-Up And Remove 1" To 3" Thick Concrete Bridge Decking By Hand	15.51	
Note: Includes jackhammer and hand tools.		
34 05 43 00-0313 SF Break-Up And Remove >3" To 6" Thick Concrete Bridge Decking By Hand	19.40	
Note: Includes jackhammer and hand tools.		
34 05 43 00-0314 SF Break-Up And Remove >6" To 8" Thick Concrete Bridge Decking By Hand	23.28	
Note: Includes jackhammer and hand tools.		
34 05 43 00-0315 SF Chipping And Cleaning Of Bridge Deck After Break-up And Removals.....	5.40	
34 05 43 00-0316 Hydro Blasting Of Bridge Decks <small>(34 05 43 00-0225)</small>		
Note: Excludes hauling and disposal of water and debris.		
34 05 43 00-0317 EA Mobilization Of Hydro Blasting Equipment.....	13,568.10	
Note: Includes trailer with power, hydro milling machine, vacuum machine.		
34 05 43 00-0318 EA Mobilization Of Hydro Blasting Equipment.....	1,762.09	
Note: Includes water tank, pump and miscellaneous fittings.		
34 05 43 00-0319 SF Hydroblasting Of Up To 2-1/2" Of Bridge Decks	11.29	
34 05 43 00-0320 SF Vacuuming And Cleaning Of Bridge Decks Up To 2-1/2", Following Hydroblasting	8.34	
34 05 43 00-0321 SF Chipping And Cleaning Of Bridge Deck After Hydroblasting And Vacuum Up To 2-1/2"	2.06	
34 05 43 00-0322 SF Hydroblasting 3" To 4-1/2" Of Bridge Decks	16.68	
34 05 43 00-0323 SF Vacuuming And Cleaning Of Bridge Decks 3" To 4-1/2", Following Hydroblasting.....	11.29	
34 05 43 00-0324 SF Chipping And Cleaning Of Bridge Deck After Hydroblasting And Vacuum 3" To 4-1/2"	5.40	
34 05 43 00-0325 GAL Water For Hydro Blasting.....	0.17	
Note: Includes delivery.		
34 05 43 00-0326 Patch For Bridge Deck <small>(34 05 43 00-0225)</small>		
34 05 43 00-0327 CF Fast-Setting, Rapid-Hardening Structural Repair Mortar For Bridge Deck.....	142.82	
Note: Includes forming, cleaning, primer, and concrete material. Excludes reinforcing, dowels, and seal.		
34 05 43 00-0328 CF Polyester-Based Polymer Patch For Bridge Deck.....	169.31	
Note: Includes forming, cleaning, primer, and concrete material. Excludes reinforcing, dowels, and seal.		
34 05 43 00-0329 SF Hand Placed Hot Mixed Asphalt Repair For Bridge Approach.....	23.32	
Note: Includes removal of HMA, tack coat, and installation of HMA and compaction by roller.		
34 05 43 00-0330 Pressure Washing For Bridge Deck <small>(34 05 43 00-0225)</small>		
34 05 43 00-0331 SF Pressure Washing For Bridge Deck.....	0.08	
Note: Includes pressure washer and water.		
34 05 43 00-0332 Galvanic Anodes <small>(34 05 43)</small>		
34 05 43 00-0333 EA 2.6" Diameter x 1.2" Deep , Anode Type 1A Class P, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP)	53.92	
Note: Corrosion prevention only (preventing the initiation of corrosion).		
34 05 43 00-0334 EA 4.9" Long x 1.0" Wide x 1.0" Deep , Anode Type 1A Class P, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XPT)	53.92	
Note: Corrosion prevention only (preventing the initiation of corrosion).		
34 05 43 00-0335 EA 2.8" Long x 2.4" Wide x 1.2" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP2)	61.64	
Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0336 EA 4.3" Long x 2.2" Wide x 1.2" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP4)	67.50	
Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0337 EA 2.5" Diameter x 1.1" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP+)	61.64	
Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0338 EA 1-3/4" Diameter x 2-1/2" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC65)	63.59	
Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0339 EA 1-3/4" Diameter x 4" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC100).....	77.28	
Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0340 EA 1-1/8" Diameter x 5-3/8" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC135).....	71.41	
Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0341 Bridge Netting Panels (34 05 43)		
34 05 43 00-0342 SF Bridge Netting Panel.....	9.13	
Note: Includes cable, beam clamps to attach to the bridge structure without the need for drilling/welding and snap hooks for attaching the net.		
For Up To 160, Add	8.56	
For >160 To 320, Add	4.28	
For >320 To 480, Add	2.14	
For >2,000 To 10,000, Deduct	-0.40	
For >10,000 To 25,000, Deduct	-0.81	
For >25,000, Deduct	-1.21	
34 05 43 00-0343 Anchors (34 05 43)		
Note: Excludes core drilling. See CSI section 02 41 19 13-0080 for core drilling.		
34 05 43 00-0344 Threaded Rod, A449 (34 05 43 00-0343)		
34 05 43 00-0345 LF 7/8" Diameter Continuous Threaded Rod, A449.....	19.45	
34 05 43 00-0346 LF 1" Diameter Continuous Threaded Rod, A449.....	23.14	
34 05 43 00-0347 LF 1-1/8" Diameter Continuous Threaded Rod, A449.....	26.80	
34 05 43 00-0348 LF 1-1/4" Diameter Continuous Threaded Rod, A449.....	33.85	
34 05 43 00-0349 Flat Washers, F436 (34 05 43 00-0343)		
34 05 43 00-0350 EA 7/8" Flat Washer, F436.....	2.10	
34 05 43 00-0351 EA 1" Flat Washer, F436.....	2.45	
34 05 43 00-0352 EA 1-1/8" Flat Washer, F436.....	2.69	
34 05 43 00-0353 EA 1-1/4" Flat Washer, F436.....	3.06	
34 05 43 00-0354 Heavy Hex Nut, A194 (34 05 43 00-0343)		
34 05 43 00-0355 EA 7/8" Hex Nut, A194.....	4.23	
34 05 43 00-0356 EA 1" Hex Nut, A194.....	5.75	
34 05 43 00-0357 EA 1-1/8" Hex Nut, A194.....	6.83	
34 05 43 00-0358 EA 1-1/4" Hex Nut, A194.....	8.15	
34 05 43 00-0359 Grout For Threaded Rod (34 05 43 00-0343)		
34 05 43 00-0360 IN Grout 7/8" Rod In Hole.....	2.76	
34 05 43 00-0361 IN Grout 1" Rod In Hole.....	3.14	
34 05 43 00-0362 IN Grout 1-1/8" Rod In Hole.....	3.67	
34 05 43 00-0363 IN Grout 1-1/4" Rod In Hole.....	4.39	
34 05 43 00-0364 Test Grouted Anchor (34 05 43 00-0343)		
34 05 43 00-0365 EA Test Grouted Anchor.....	32.91	
34 05 43 00-0366 Removal Of Fasteners Or Anchors In Concrete (34 05 43 00-0343)		
Note: Includes removal of damaged, chemically adhered or mechanically fastened bolts, studs, threaded rod or concrete anchors with a carbide drill bit.		
34 05 43 00-0367 EA Drill Out 3/8" Diameter Fastener/Anchor In Concrete.....	26.19	
34 05 43 00-0368 EA Drill Out 1/2" Diameter Fastener/Anchor In Concrete.....	28.17	
34 05 43 00-0369 EA Drill Out 9/16" Diameter Fastener/Anchor In Concrete.....	29.57	
34 05 43 00-0370 EA Drill Out 5/8" Diameter Fastener/Anchor In Concrete.....	32.23	
34 05 43 00-0371 EA Drill Out 3/4" Diameter Fastener/Anchor In Concrete.....	35.23	
34 05 43 00-0372 EA Drill Out 7/8" Diameter Fastener/Anchor In Concrete.....	39.03	
34 05 43 00-0373 EA Drill Out 1" Diameter Fastener/Anchor In Concrete.....	41.29	
34 05 43 00-0374 EA Drill Out 1-1/8" Diameter Fastener/Anchor In Concrete.....	43.98	
34 05 43 00-0375 EA Drill Out 1-1/4" Diameter Fastener/Anchor In Concrete.....	47.35	
34 05 43 00-0376 EA Drill Out 1-1/2" Diameter Fastener/Anchor In Concrete.....	53.10	
34 05 43 00-0377 Bridge Surfacing (34 05 43)		
34 05 43 00-0378 Bridge Coatings (34 05 43 00-0377)		
Note: Includes sweeping of bridge deck.		
34 05 43 00-0379 SF Penetrating Corrosion Inhibitor Sealer For Bridge Decks (Two Coats).....	1.11	
Note: Includes power washing and drying after power washing.		
34 05 43 00-0380 SF Protective Seal Coat For Existing Bridge Decks.....	2.02	
34 05 43 00-0381 SF Penetrating Sealer For Existing Bridge Decks.....	3.34	

34 Transportation
34 05 Common Work Results for Transportation
34 05 43 Common Work Results for Bridges



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0382 Bridge Membranes <small>(34 05 43 00-0377)</small> Note: Excludes abrasive blasting of deck.		
34 05 43 00-0383 SF Spray Applied Waterproofing Membrane For Bridge Decks	12.62	
34 05 43 00-0384 SF Sheet Applied Waterproofing Membrane For Bridge Decks	3.68	
34 05 43 00-0385 Sealer And Overlay For Bridge Deck <small>(34 05 43 00-0377)</small> Note: Excludes sweeping, cleaning and abrasive blasting.		
34 05 43 00-0386 SY Shot Blasting Bridge Decks	13.07	
Note: Includes steel ball media. Includes air cleaning of deck surface after shot blasting.		
34 05 43 00-0387 SY Thin Polymer (Epoxy) Overlay For Bridge Deck	85.35	
Note: Includes epoxy overlay applied in two coats with aggregate.		
34 05 43 00-0388 SY 3/4" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	152.73	
Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0389 SY 1" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	175.23	
Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0390 SY 1-1/2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	225.33	
Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0391 SY 2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	275.44	
Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0392 SY 2-1/2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	325.53	
Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0393 SY 3" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck	375.64	
Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.		
34 05 43 00-0394 Broadcast Silica Sand <small>(34 05 43 00-0377)</small> Note: Includes removing loose sand..		
34 05 43 00-0395 SF Broadcast Silica Sand.....	0.28	
34 05 43 00-0396 Sweeping And Cleaning Of Bridge Deck <small>(34 05 43 00-0377)</small> See CSI section 01 22 23 00-1247 for water trucks, 01 22 23 00-1265 for vacuum sweeper trucks.		
34 05 43 00-0397 Concrete Overlay For Bridge Deck <small>(34 05 43 00-0377)</small> Note: Includes sweeping and cleaning. Excludes abrasive blasting.		
34 05 43 00-0398 SY 3" Concrete Overlay For Bridge Deck.....	167.42	
For DOT Class DP, Add	31.11	
For DOT Class E, Add	10.15	
For DOT Class HP, Add	29.70	
34 05 43 00-0399 Bridge Roadway Grooving <small>(34 05 43 00-0377)</small>		
34 05 43 00-0400 EA Up To 500 SY Of Bridge Pavement Grooving, Concrete, Longitudinal	4,009.85	
34 05 43 00-0401 SY Each SY Over First 500 SY Of Bridge Pavement Grooving, Concrete, Longitudinal	6.49	
34 05 43 00-0402 EA Up To 500 SY Of Bridge Pavement Grooving, Concrete, Traverse	4,467.12	
34 05 43 00-0403 SY Each SY Over First 500 SY Of Bridge Pavement Grooving, Concrete, Traverse	8.46	
34 05 43 00-0404 Gravity Fed Concrete Crack Repair <small>(34 05 43 00-0377)</small> Note: Includes removing loose materials and cleaning.		
34 05 43 00-0405 LF Epoxy Low Viscosity Gravity Fed Concrete Crack Repair	3.40	
34 05 43 00-0406 LF HMWM Low Viscosity Gravity Fed Concrete Crack Repair	3.98	
34 05 43 00-0407 Concrete Pumping With Boom Truck <small>(34 05 43 00-0377)</small> See CSI section 03 31 13 00-0010 for concrete delivery for small quantities, 03 37 16 00-0001 for concrete pump truck.		
34 05 43 00-0408 Bridge Girder Repair <small>(34 05 43)</small>		
34 05 43 00-0409 Bridge Girder Repair <small>(34 05 43 00-0408)</small> Note: Does not include mobilization of bridge jacking crew. See CSI section 05 05 23 00-0040 for bolts, nuts and washers, 05 12 23 00-0000 for additional steel shapes, angles and channels.		
34 05 43 00-0410 HR UT, MT, PT Testing.....	75.00	
Note: Does not include mileage to job site.		
34 05 43 00-0411 EA Mobilization of Bridge Girder Repair Crew	2,365.13	
34 05 43 00-0412 LF 3" x 3" x 1/4" Angle Iron For Bridge Repair	14.99	5.34
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
For Fractured Critical, Add	20.00	
For Stainless Steel, Add	25.18	
For Aluminum, Add	1.42	
For Galvanized Steel, Add	4.88	
34 05 43 00-0413 LF 4" x 4" x 1/4" Angle Iron For Bridge Repair	19.30	6.51
Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
For Fractured Critical, Add	20.00	
For Stainless Steel, Add	33.98	
For Aluminum, Add	1.91	
For Galvanized Steel, Add	6.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0414 LF 3" x 3" x 3/8" Angle Iron For Bridge Repair	19.56	6.01
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	36.99	
<i>For Aluminum, Add</i>	2.08	
<i>For Galvanized Steel, Add</i>	7.17	
34 05 43 00-0415 LF 4" x 4" x 3/8" Angle Iron For Bridge Repair	25.46	7.30
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	50.34	
<i>For Aluminum, Add</i>	2.83	
<i>For Galvanized Steel, Add</i>	9.75	
34 05 43 00-0416 LF 6" x 4" x 3/8" Angle Iron For Bridge Repair	32.50	9.53
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	63.36	
<i>For Aluminum, Add</i>	3.56	
<i>For Galvanized Steel, Add</i>	12.28	
34 05 43 00-0417 LF 6" x 6" x 3/8" Angle Iron For Bridge Repair	36.68	9.53
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	76.74	
<i>For Aluminum, Add</i>	4.32	
<i>For Galvanized Steel, Add</i>	14.87	
34 05 43 00-0418 LF 6" x 6" x 1/2" Angle Iron For Bridge Repair	48.59	12.79
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	100.93	
<i>For Aluminum, Add</i>	5.68	
<i>For Galvanized Steel, Add</i>	19.55	
34 05 43 00-0419 LF 7" x 4" x 5/8" Angle Iron For Bridge Repair	53.54	13.49
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	113.82	
<i>For Aluminum, Add</i>	6.40	
<i>For Galvanized Steel, Add</i>	22.05	
34 05 43 00-0420 LF 5" x 3-1/2" x 3/4" Angle Iron For Bridge Repair	46.96	11.32
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	101.95	
<i>For Aluminum, Add</i>	5.73	
<i>For Galvanized Steel, Add</i>	19.75	
34 05 43 00-0421 LF 6" x 4" x 3/4" Angle Iron For Bridge Repair	55.98	13.50
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	121.57	
<i>For Aluminum, Add</i>	6.84	
<i>For Galvanized Steel, Add</i>	23.55	
34 05 43 00-0422 LF 7" x 4" x 3/4" Angle Iron For Bridge Repair	62.14	14.99
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	134.91	
<i>For Aluminum, Add</i>	7.59	
<i>For Galvanized Steel, Add</i>	26.14	
34 05 43 00-0423 LF 8" x 6" x 7/8" Angle Iron For Bridge Repair	90.76	20.87
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	201.38	
<i>For Aluminum, Add</i>	11.33	
<i>For Galvanized Steel, Add</i>	39.02	
34 05 43 00-0424 LF C4 x 5.4 - 4" Wide Channels For Bridge Repair	17.84	6.86
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	27.81	
<i>For Aluminum, Add</i>	1.56	
<i>For Galvanized Steel, Add</i>	5.39	
34 05 43 00-0425 LF C6 x 8.2 - 6" Wide Channels For Bridge Repair	26.01	9.61
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	42.24	
<i>For Aluminum, Add</i>	2.38	
<i>For Galvanized Steel, Add</i>	8.18	
34 05 43 00-0426 LF C8 x 11.5 - 8" Wide Channels For Bridge Repair	35.29	12.58
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	59.23	
<i>For Aluminum, Add</i>	3.33	
<i>For Galvanized Steel, Add</i>	11.48	
34 05 43 00-0427 LF C10 x 15.3 - 10" Wide Channels For Bridge Repair	46.94	16.73
<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
<i>For Fractured Critical, Add</i>	20.00	
<i>For Stainless Steel, Add</i>	78.78	
<i>For Aluminum, Add</i>	4.43	
<i>For Galvanized Steel, Add</i>	15.26	

34 Transportation
34 05 Common Work Results for Transportation
34 05 43 Common Work Results for Bridges



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0428	LF		C12 x 20.7 - 12" Wide Channels For Bridge Repair.....	63.51	22.65
			<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
			<i>For Fractured Critical, Add</i>	20.00	
			<i>For Stainless Steel, Add</i>	106.59	
			<i>For Aluminum, Add</i>	6.00	
			<i>For Galvanized Steel, Add</i>	20.65	
34 05 43 00-0429	LF		C15 x 33.9 - 15" Wide Channels For Bridge Repair.....	104.00	37.09
			<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
			<i>For Fractured Critical, Add</i>	20.00	
			<i>For Stainless Steel, Add</i>	174.56	
			<i>For Aluminum, Add</i>	9.82	
			<i>For Galvanized Steel, Add</i>	33.82	
34 05 43 00-0430	SF		1/2" A36 Steel Plates For Bridge Repair.....	57.38	14.60
			<i>For A50 Grade Steel, Add</i>	2.10	
			<i>Cutting Fee For Plates 1/2" And Over, Add Per Each Piece</i>	30.00	
			<i>For Fractured Critical, Add</i>	20.00	
34 05 43 00-0431	SF		5/8" A36 Steel Plates For Bridge Repair.....	71.72	18.24
			<i>For A50 Grade Steel, Add</i>	2.63	
			<i>Cutting Fee For Plates 1/2" And Over, Add Per Each Piece</i>	30.00	
			<i>For Fractured Critical, Add</i>	20.00	
34 05 43 00-0432	SF		3/4" A36 Steel Plates For Bridge Repair.....	86.07	21.79
			<i>For A50 Grade Steel, Add</i>	3.15	
			<i>Cutting Fee For Plates 1/2" And Over, Add Per Each Piece</i>	30.00	
			<i>For Fractured Critical, Add</i>	20.00	
34 05 43 00-0433	SF		7/8" A36 Steel Plates For Bridge Repair.....	100.41	25.54
			<i>For A50 Grade Steel, Add</i>	3.68	
			<i>Cutting Fee For Plates 1/2" And Over, Add Per Each Piece</i>	30.00	
			<i>For Fractured Critical, Add</i>	20.00	
34 05 43 00-0434	SF		1" A36 Steel Plates For Bridge Repair.....	114.76	29.19
			<i>For A50 Grade Steel, Add</i>	4.20	
			<i>Cutting Fee For Plates 1/2" And Over, Add Per Each Piece</i>	30.00	
			<i>For Fractured Critical, Add</i>	20.00	
34 05 43 00-0435	SF		1-1/4" A36 Steel Plates For Bridge Repair.....	143.45	36.49
			<i>For A50 Grade Steel, Add</i>	5.25	
			<i>Cutting Fee For Plates 1/2" And Over, Add Per Each Piece</i>	30.00	
			<i>For Fractured Critical, Add</i>	20.00	
34 05 43 00-0436	SF		1-3/8" A36 Steel Plates For Bridge Repair.....	157.80	40.14
			<i>For A50 Grade Steel, Add</i>	5.78	
			<i>Cutting Fee For Plates 1/2" And Over, Add Per Each Piece</i>	30.00	
			<i>For Fractured Critical, Add</i>	20.00	
34 05 43 00-0437	SF		1-1/2" A36 Steel Plates For Bridge Repair.....	172.15	43.79
			<i>For A50 Grade Steel, Add</i>	6.30	
			<i>Cutting Fee For Plates 1/2" And Over, Add Per Each Piece</i>	30.00	
			<i>For Fractured Critical, Add</i>	20.00	
34 05 43 00-0438	CWT		Removal Of Existing Steel For Bridge Repair A36.....	63.87	
			Note: For use with angles, channels and steel plates up to 5' x 5'.		
			<i>For Removal Over 30' To 50', Add</i>	12.77	
			<i>For Removal Over 50' To 75', Add</i>	22.35	
			<i>For Removal Over 75', Add</i>	31.94	
34 05 43 00-0439	TON		Removal Of Existing Steel For Bridge Repair A36.....	851.58	
			Note: For use with I-beams, floor beams and plates over 5' x 5'.		
			<i>For Removal Over 30' To 50', Add</i>	170.32	
			<i>For Removal Over 50' To 75', Add</i>	298.05	
			<i>For Removal Over 75', Add</i>	425.79	
34 05 43 00-0440	CWT		Miscellaneous Steel For Bridge Repair A36.....	441.87	
			Note: For use with angles, channels and steel plates up to 5' x 5'.		
			<i>For A50 Grade Steel, Add</i>	75.60	
			<i>Cutting Fee For Plates 1/2" And Over, Add Per Each Piece</i>	30.00	
			<i>Cutting Fee For Channels And Angles, Add Per Each Piece</i>	20.00	
34 05 43 00-0441	TON		Miscellaneous Steel For Bridge Repair A36.....	7,056.17	
			Note: For use with I-beams, floor beams and plates over 5' x 5'.		
			<i>For A50 Grade Steel, Add</i>	1,240.92	
			<i>Cutting Fee For I-beams, Floor Beams And Plates Over 5'x5', Add Per Each Piece</i>	30.00	
34 05 43 00-0442	EA		Field Or Shop Drilled Holes In Miscellaneous Steel For Bridge Repair Up To 15/16" Diameter.....	37.73	
			Note: Per each hole drilled per steel member.		
34 05 43 00-0443	EA		Field Or Shop Drilled Holes In Miscellaneous Steel For Bridge Repair >15/16" Diameter.....	49.03	
			Note: Per each hole drilled per steel member.		
34 05 43 00-0444	EA		Bolts A325 For Steel Repair Connections Up To 7/8".....	26.03	2.04
34 05 43 00-0445	EA		Bridge Girder Rivet Removal.....	315.21	
34 05 43 00-0446	LF		Up To 1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting.....	6.80	
			Note: Includes rust or scale removal.		
34 05 43 00-0447	LF		>1/2" To 1" Thick Edge Grinding, Smoothing Surface After Torch Cutting.....	11.89	
			Note: Includes rust or scale removal.		
34 05 43 00-0448	LF		>1" To 1-1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting.....	16.97	
			Note: Includes rust or scale removal.		
34 05 43 00-0449	LF		>1-1/2" To 2" Thick Edge Grinding, Smoothing Surface After Torch Cutting.....	22.05	
			Note: Includes rust or scale removal.		
34 05 43 00-0450	LF		>2" To 2-1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting.....	27.14	
			Note: Includes rust or scale removal.		
34 05 43 00-0451	LF		>2-1/2" To 3" Thick Edge Grinding, Smoothing Surface After Torch Cutting.....	32.22	
			Note: Includes rust or scale removal.		

34 05 43 00-0452 Cleaning And Preparation Of Painted And Unpainted Metal Surfaces (34 05 43 00-0408)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0453 SF Loose Mill Scale With Fine Powder, Commercial Blast, Surface Preparation, Bridge Girder Repair.....	1.04	
For Up To 100, Add	0.64	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 15,000, Deduct	-0.10	
For >15,000 To 30,000, Deduct	-0.15	
For >30,000, Deduct	-0.20	
34 05 43 00-0454 SF Tight Mill Scale With Fine Powder Rust, Commercial Blast, Surface Preparation, Bridge Girder Repair.....	1.42	
For Up To 100, Add	0.85	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 15,000, Deduct	-0.13	
For >15,000 To 30,000, Deduct	-0.20	
For >30,000, Deduct	-0.27	
34 05 43 00-0455 SF Exterior Coating Blistered Pitted, Rust, Commercial Blast, Surface Preparation, Bridge Girder Repair.....	2.07	
For Up To 100, Add	1.27	
For >100 To 250, Add	0.59	
For >250 To 500, Add	0.25	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 15,000, Deduct	-0.19	
For >15,000 To 30,000, Deduct	-0.30	
For >30,000, Deduct	-0.40	
34 05 43 00-0456 SF Badly Pitted With Rust Nodules, Commercial Blast, Surface Preparation, Bridge Girder Repair.....	3.48	
For Up To 100, Add	2.12	
For >100 To 250, Add	0.99	
For >250 To 500, Add	0.42	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 15,000, Deduct	-0.32	
For >15,000 To 30,000, Deduct	-0.50	
For >30,000, Deduct	-0.66	
34 05 43 00-0457 SF Loose Mill Scale With Fine Powder Rust, Near White Blast, Surface Preparation, Bridge Girder Repair.....	2.65	
For Up To 100, Add	1.59	
For >100 To 250, Add	0.74	
For >250 To 500, Add	0.32	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 15,000, Deduct	-0.24	
For >15,000 To 30,000, Deduct	-0.38	
For >30,000, Deduct	-0.50	
34 05 43 00-0458 SF Tight Mill Scale Little Rust, Near White Blast, Surface Preparation, Bridge Girder Repair.....	3.28	
For Up To 100, Add	1.96	
For >100 To 250, Add	0.91	
For >250 To 500, Add	0.39	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 15,000, Deduct	-0.30	
For >15,000 To 30,000, Deduct	-0.47	
For >30,000, Deduct	-0.62	
34 05 43 00-0459 SF Exterior Coat Blistered Pitted Rust, Near White Blast, Surface Preparation, Bridge Girder Repair.....	4.26	
For Up To 100, Add	2.55	
For >100 To 250, Add	1.19	
For >250 To 500, Add	0.51	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000 To 15,000, Deduct	-0.39	
For >15,000 To 30,000, Deduct	-0.61	
For >30,000, Deduct	-0.81	
34 05 43 00-0460 SF Badly Pitted Rust Nodules, Near White Blast, Surface Preparation, Bridge Girder Repair.....	5.32	
For Up To 100, Add	3.18	
For >100 To 250, Add	1.48	
For >250 To 500, Add	0.64	
For >5,000 To 10,000, Deduct	-0.24	
For >10,000 To 15,000, Deduct	-0.49	
For >15,000 To 30,000, Deduct	-0.77	
For >30,000, Deduct	-1.01	
34 05 43 00-0461 Galvanized Anchor Bolts For Bridge Bearings <small>(34 05 43 00-0408)</small>		
34 05 43 00-0462 EA 1/2" Diameter x 6" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	10.00	
34 05 43 00-0463 EA 1/2" Diameter x 12" Long, J-Type Galvanized Anchor Bolts For Bridge Bearings.....	16.51	
34 05 43 00-0464 EA 1/2" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	20.24	
34 05 43 00-0465 EA 5/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	23.62	
34 05 43 00-0466 EA 5/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	29.29	
34 05 43 00-0467 EA 5/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	33.04	
34 05 43 00-0468 EA 3/4" Diameter x 8" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	32.88	
34 05 43 00-0469 EA 3/4" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	37.73	
34 05 43 00-0470 EA 3/4" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	46.42	
34 05 43 00-0471 EA 3/4" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	56.57	
34 05 43 00-0472 EA 7/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	43.67	
34 05 43 00-0473 EA 7/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	51.53	
34 05 43 00-0474 EA 7/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	66.06	
34 05 43 00-0475 EA 1" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	54.40	
34 05 43 00-0476 EA 1" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	64.88	
34 05 43 00-0477 EA 1" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	80.35	
34 05 43 00-0478 EA 1" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	98.79	
34 05 43 00-0479 EA 1-1/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	65.60	

34 Transportation
34 05 Common Work Results for Transportation
34 05 43 Common Work Results for Bridges



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0480 EA 1-1/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	78.31	
34 05 43 00-0481 EA 1-1/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	97.09	
34 05 43 00-0482 EA 1-1/8" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	119.29	
34 05 43 00-0483 EA 1-1/4" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	79.52	
34 05 43 00-0484 EA 1-1/4" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	95.01	
34 05 43 00-0485 EA 1-1/4" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	117.93	
34 05 43 00-0486 EA 1-1/4" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	144.78	
34 05 43 00-0487 EA 1-1/2" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	96.94	
34 05 43 00-0488 EA 1-1/2" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	115.89	
34 05 43 00-0489 EA 1-1/2" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	143.99	
34 05 43 00-0490 EA 1-1/2" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	176.67	
34 05 43 00-0491 Welding For Bridge Repair (34 05 43 00-0408)		
34 05 43 00-0492 EA Minimum Charge For Welding For Bridge Repair.....	1,697.23	
Note: For projects where the total welding charge is less than the minimum charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.		
34 05 43 00-0493 LF 3/16" Fillet Welding For Bridge Repair.....	14.61	
<i>For Full Penetration Weld, Add</i>		
	5.55	
34 05 43 00-0494 LF 1/4" Fillet Welding For Bridge Repair.....	21.93	
<i>For Full Penetration Weld, Add</i>		
	8.33	
34 05 43 00-0495 LF 5/16" Fillet Welding For Bridge Repair.....	29.26	
<i>For Full Penetration Weld, Add</i>		
	11.10	
34 05 43 00-0496 LF 3/8" Fillet Welding For Bridge Repair.....	36.54	
<i>For Full Penetration Weld, Add</i>		
	13.88	
34 05 43 00-0497 LF 7/16" Fillet Welding For Bridge Repair.....	43.10	
<i>For Full Penetration Weld, Add</i>		
	16.66	
34 05 43 00-0498 LF 1/2" Fillet Welding For Bridge Repair.....	50.78	
<i>For Full Penetration Weld, Add</i>		
	19.28	
34 05 43 00-0499 LF 9/16" Fillet Welding For Bridge Repair.....	59.09	
<i>For Full Penetration Weld, Add</i>		
	22.71	
34 05 43 00-0500 LF 5/8" Fillet Welding For Bridge Repair.....	65.19	
<i>For Full Penetration Weld, Add</i>		
	24.98	
34 05 43 00-0501 LF 3/4" Fillet Welding For Bridge Repair.....	90.05	
<i>For Full Penetration Weld, Add</i>		
	34.14	
34 05 43 00-0502 LF 7/8" Fillet Welding For Bridge Repair.....	118.39	
<i>For Full Penetration Weld, Add</i>		
	45.26	
34 05 43 00-0503 LF 1" Fillet Welding For Bridge Repair.....	164.92	
<i>For Full Penetration Weld, Add</i>		
	62.46	
34 05 43 00-0504 Bridge Trough Repair (34 05 43)		
34 05 43 00-0505 EA New Bridge Trough Hanger.....	285.02	25.42
34 05 43 00-0506 EA Reattach By Welding Existing Bridge Trough Hanger, Top And/Or Bottom.....	63.42	
34 05 43 00-0507 EA Removal And Replacement Of All Thread For Existing Bridge Trough Hanger.....	122.13	
34 05 43 00-0508 EA Removal And Replacement Of Steel Angle Attachment For Existing Bridge Trough Hanger.....	67.85	
34 05 43 00-0509 Spot Paint Removal And Painting, Bridge Structural Steel (34 05 43)		
34 05 43 00-0510 HR Testing For Lead And Asbestos Paint Removal By Asbestos Contractor.....	120.38	
34 05 43 00-0511 EA Up To 4 SF, Flat Surfaces, Non-Contaminated Paint Removal.....	192.74	
34 05 43 00-0512 SF >4 SF, Flat Surfaces, Non-Contaminated Paint Removal.....	48.18	
34 05 43 00-0513 EA Up To 4 SF, Flat Surfaces, Lead Or Asbestos Paint Removal.....	244.50	
Note: Includes high efficiency particulate air (HEPA) vacuuming.		
34 05 43 00-0514 SF >4 SF, Flat Surfaces, Lead Or Asbestos Paint Removal.....	61.13	
Note: Includes high efficiency particulate air (HEPA) vacuuming.		
34 05 43 00-0515 CF Treat and Dispose of Removed Paint Waste.....	5.67	
34 05 43 00-0516 SF Flat Surfaces Spot Painting.....	51.01	
Note: Includes 1 coat epoxy rust inhibiting primer and 2 coats epoxy paint finish.		
34 05 43 00-0517 EA Minimum Charge For Plastic Barrier Enclosure for Paint Removal.....	1,355.40	
Note: Up to an 8' x 8' area, 7' high. Includes 10 mil plastic on walls and floor. 2"x4" construction. Excludes scaffolding.		
34 05 43 00-0518 SF Plastic Barrier Enclosure For Paint Removal.....	4.23	
Note: For projects where the total charge exceeds the minimum charge for plastic barrier enclosures. Includes 10 mil plastic on floor and walls. 2" x 4" construction. Excludes scaffolding. Use area of walls and floor for quantity.		
34 05 43 00-0519 End Beam Cleaning And Painting (34 05 43)		
34 05 43 00-0520 SF End Beam Cleaning and Painting.....	3.77	
Note: Includes high pressure wash at minimum 3003 to 5000 PSI, spot cleaning damaged/rusted areas with hand and power tools (SSPC - SP2 and SP3), solvent cleaning (SSPC-SP1), one coat of aluminum epoxy mastic (minimum 6 mils) to spot cleaned areas, one coat sealer (1-2 mils), and one coat polyurethane finish.		
<i>For Up To 100, Add</i>		3.77
<i>For >100 To 500, Add</i>		2.49
<i>For >500 To 3,000, Add</i>		1.24
<i>For >5,000 To 7,500, Deduct</i>		-0.61
<i>For >7,500 To 10,000, Deduct</i>		-0.91
<i>For >10,000, Deduct</i>		-1.29
34 05 43 00-0521 Snow And Pedestrian Fences For Bridges (34 05 43)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0522 Snow And Pedestrian Fence Assembly For Bridges <small>(34 05 43 00-0521)</small> Note: Includes 1", 11 gauge coiled spring mesh (knuckled selvage), tension bars, post tension bands, wire ties, 1-5/8" top rail, 1-5/8" bottom rail, 2-7/8" post 10' on-center. Posts exclude installation onto bridge. Heights indicated are for mesh to top.		
34 05 43 00-0523 Galvanized Snow And Pedestrian Fence Assembly For Bridges <small>(34 05 43 00-0522)</small>		
34 05 43 00-0524 LF 4' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	49.66	11.41
For Posts 8' On Centers, Add	2.72	
For Posts 5' On Centers, Add	10.23	
For Up To 100, Add	9.44	
For >100 To 250, Add	3.48	
34 05 43 00-0525 LF >4' To 5' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	54.30	11.98
For Posts 8' On Centers, Add	2.97	
For Posts 5' On Centers, Add	11.13	
For Up To 100, Add	10.23	
For >100 To 250, Add	3.76	
34 05 43 00-0526 LF >5' To 6' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	58.98	12.55
For Posts 8' On Centers, Add	3.21	
For Posts 5' On Centers, Add	12.04	
For Up To 100, Add	11.04	
For >100 To 250, Add	4.04	
34 05 43 00-0527 LF >6' To 7' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	62.14	13.12
For Posts 8' On Centers, Add	3.38	
For Posts 5' On Centers, Add	12.67	
For Up To 100, Add	11.61	
For >100 To 250, Add	4.25	
34 05 43 00-0528 LF >7' To 8' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	70.78	14.26
For Posts 8' On Centers, Add	3.84	
For Posts 5' On Centers, Add	14.36	
For Up To 100, Add	13.10	
For >100 To 250, Add	4.78	
34 05 43 00-0529 Vinyl Coated Snow And Pedestrian Fence Assembly For Bridges <small>(34 05 43 00-0522)</small>		
34 05 43 00-0530 LF 4' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	52.44	11.41
For Powder Coated, Add	6.51	
For Aluminum Coated, Add	13.02	
For Posts 8' On Centers, Add	2.86	
For Posts 5' On Centers, Add	10.73	
For Up To 100, Add	9.86	
For >100 To 250, Add	3.62	
34 05 43 00-0531 LF >4' To 5' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	57.80	11.98
For Powder Coated, Add	7.38	
For Aluminum Coated, Add	14.77	
For Posts 8' On Centers, Add	3.14	
For Posts 5' On Centers, Add	11.76	
For Up To 100, Add	10.76	
For >100 To 250, Add	3.93	
34 05 43 00-0532 LF >5' To 6' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	66.11	12.55
For Powder Coated, Add	8.85	
For Aluminum Coated, Add	17.69	
For Posts 8' On Centers, Add	3.57	
For Posts 5' On Centers, Add	13.32	
For Up To 100, Add	12.10	
For >100 To 250, Add	4.40	
34 05 43 00-0533 LF >6' To 7' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	70.42	13.12
For Powder Coated, Add	9.51	
For Aluminum Coated, Add	19.02	
For Posts 8' On Centers, Add	3.80	
For Posts 5' On Centers, Add	14.16	
For Up To 100, Add	12.85	
For >100 To 250, Add	4.66	
34 05 43 00-0534 LF >7' To 8' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center.....	80.43	14.26
For Powder Coated, Add	11.11	
For Aluminum Coated, Add	22.23	
For Posts 8' On Centers, Add	4.32	
For Posts 5' On Centers, Add	16.09	
For Up To 100, Add	14.55	
For >100 To 250, Add	5.26	
34 05 43 00-0535 Bridge Connection Mounting For Snow And Pedestrian Fence Assembly <small>(34 05 43 00-0522)</small>		
34 05 43 00-0536 EA Attach Bridge Fence Post To Steel Bridge Railing Post With U-Bolt, Washers And Nuts.....	54.32	
Note: Includes drilling into steel post.		
34 05 43 00-0537 EA Attach Bridge Fence Post Base To Existing Plate, Welding And Touch-up With Galvanized Paint.....	31.04	

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0538 EA Attach Bridge Fence Post Base With Plate, Welding And Touch-up With Galvanized Paint	86.95	
34 05 43 00-0539 EA Attach Bridge Fence Post To Concrete Safety Shape Barrier With Bolt, 5/8" Diameter x 4-3/4" Anchor Rods, Washers And Nuts.....	87.29	
Note: Includes drilling into steel post.		
34 05 43 00-0540 EA Attach Bridge Fence Post To Stone Faced Barrier Top With Plate, 3/8" Diameter Anchor Rods, Washers And Nuts	126.43	
Note: Includes drilling into steel post.		

34 10 Guideways/Railways ⁽³⁴⁾**34 11 Rail Tracks** ^(34 10)**34 11 93 Track Appurtenances and Accessories** ^(34 11)**34 11 93 00-0001 Railroad Crossings** ^(34 11 93)**34 11 93 00-0002 Asphalt Railroad Crossings** ^(34 11 93 00-0001)

Note: Based on 8" thickness x 20' including track and approach.

34 11 93 00-0003 EA 8" Asphalt Railroad Crossing, 12' Roadway 6 CY.....	2,125.22	341.96
34 11 93 00-0004 EA 8" Asphalt Railroad Crossing, 15' Roadway 7.4 CY.....	2,497.34	387.56
34 11 93 00-0005 EA 8" Asphalt Railroad Crossing, 18' Roadway 8.9 CY.....	2,947.22	455.95
34 11 93 00-0006 EA 8" Asphalt Railroad Crossing, 21' Roadway 10.4 CY.....	3,501.32	547.15
34 11 93 00-0007 EA 8" Asphalt Railroad Crossing, 24' Roadway 11.9 CY.....	4,237.79	683.92

34 11 93 00-0008 Railroad Crossings - Precast Concrete Inserts ^(34 11 93 00-0001)

Note: Based on 6" thickness x standard rail width gauge.

34 11 93 00-0009 EA Precast Concrete, Railroad Crossing, 12' Road 6" Thick, Standard Gauge.....	5,461.16	152.60
34 11 93 00-0010 EA Precast Concrete, Railroad Crossing, 15' Road 6" Thick, Standard Gauge.....	6,826.44	185.31
34 11 93 00-0011 EA Precast Concrete, Railroad Crossing, 18' Road 6" Thick, Standard Gauge.....	8,186.32	228.91
34 11 93 00-0012 EA Precast Concrete, Railroad Crossing, 21' Road 6" Thick, Standard Gauge.....	9,547.60	261.62
34 11 93 00-0013 EA Precast Concrete, Railroad Crossing, 24' Road 6" Thick, Standard Gauge.....	10,907.99	305.22

34 11 93 00-0014 Molded Rubber Railroad Crossings With Headers ^(34 11 93 00-0001)

Note: Based on 3' x 8'-6" sections.

34 11 93 00-0015 EA Molded Rubber Railroad Crossing, 12' Road 3' x 8'-6" Sections With Headers.....	2,884.88	152.60
34 11 93 00-0016 EA Molded Rubber Railroad Crossing, 15' Road 3' x 8'-6" Sections With Headers.....	3,430.28	185.31
34 11 93 00-0017 EA Molded Rubber Railroad Crossing, 18' Road 3' x 8'-6" Sections With Headers.....	3,970.27	228.91
34 11 93 00-0018 EA Molded Rubber Railroad Crossing, 21' Road 3' x 8'-6" Sections With Headers.....	4,511.66	261.62
34 11 93 00-0019 EA Molded Rubber Railroad Crossing, 24' Road 3' x 8'-6" Sections With Headers.....	5,052.17	305.22

34 11 93 00-0020 Railroad Trackage Demolition ^(34 11 93)

34 11 93 00-0021 CY Removal Of Railroad Track Ballast.....	8.65	
34 11 93 00-0022 LF Removal Of Railroad Track Rail And Spikes	21.63	
34 11 93 00-0023 EA Removal And Disposal Of Concrete Post Footings.....	133.67	
34 11 93 00-0024 EA Backfill Holes From Post Removal.....	55.72	

34 40 Transportation Signaling and Control Equipment ⁽³⁴⁾**34 41 Roadway Signaling and Control Equipment** ^(34 40)**34 41 13 Traffic Signals** ^(34 41)**34 41 13 00-0001 Traffic Signals** ^(34 41 13)

34 41 13 00-0002 EA Single Traffic Signal Head, 4 Way Pattern.....	5,382.57	757.68
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34 41 13 00-0003 Traffic Detector Induction Loop ^(34 41 13)

34 41 13 00-0004 EA 6' x 6', Type A, 3 Turns Per Loop, Traffic Detector Induction Loop.....	399.27	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0005 EA 6' x 6', Type D, 3 Turns Per Loop, Traffic Detector Induction Loop.....	497.85	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0006 EA 6' x 6', Type D, 5 Turns Per Loop, Traffic Detector Induction Loop.....	563.72	
Note: Includes saw cutting, 5 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0007 EA 6' x 6', Type Q, 3 Turns Per Loop, Traffic Detector Induction Loop.....	487.81	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0008 EA 6' x 20', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop.....	846.46	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0009 EA 6' x 28', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop.....	1,038.50	
Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0010 EA 6' x 28', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop.....	1,107.00	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0011 EA 6' x 40', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop.....	1,374.68	
Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0012 EA 6' x 40', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop.....	1,474.87	
Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0013 EA 6' x 50', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop.....	1,580.44	
Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0014 EA 6' x 50', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop.....	1,702.79	
Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.		
34 41 13 00-0015 LF In Pavement, Lead Wire For Traffic Signal Detector.....	7.40	
Note: Includes saw cutting, sealing and splicing into traffic signal loop wire in street. Excludes junction box or conduit.		
34 41 13 00-0016 LF In Earthwork, Lead Wire For Traffic Signal Detector.....	3.42	
Note: Includes trenching in earthwork and splicing into traffic signal loop wire. Excludes junction box or conduit.		
34 41 13 00-0017 EA 2 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model 222).....	255.72	
34 41 13 00-0018 EA 4 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model E-1100).....	733.65	
34 41 13 00-0019 EA 2 Channel, Rack Mounted, Traffic Loop Bicycle Detector (Reno A&E Model C-1100).....	453.22	
34 41 13 00-0020 Overhead Traffic Signals <small>(34 41 13)</small>		
34 41 13 00-0021 EA Traffic Signal Controller Unit, TS 2 Type 1 (ASC/3-1000).....	5,946.78	1,010.24
34 41 13 00-0022 EA Traffic Signal Controller Unit, TS 2 Type 2 (ASC/3-2100).....	6,126.15	1,010.24
34 41 13 00-0023 EA Traffic Signal Controller Unit, Replacement For Type 170E (ASC/3RM).....	6,368.82	1,010.24
34 41 13 00-0024 EA Optical Detector For Mast Arm Mounting, 1 Channel, 1 Way.....	1,095.34	216.75
34 41 13 00-0025 EA Optical Detector For Mast Arm Mounting, 1 Channel, 2 Way.....	1,200.85	216.75
34 41 13 00-0026 EA Optical Detector For Mast Arm Mounting, 2 Channel.....	1,546.93	216.75
34 41 13 00-0027 EA Optical Detector For Pole-Side Mounting, 1 Channel, 1 Way.....	1,095.34	216.75
34 41 13 00-0028 EA Optical Detector For Pole-Side Mounting, 1 Channel, 2 Way.....	1,200.85	216.75
34 41 13 00-0029 EA Optical Detector For Pole-Side Mounting, 2 Channel.....	1,546.93	216.75
34 41 13 00-0030 EA Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 1 Way.....	1,095.34	216.75
34 41 13 00-0031 EA Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 2 Way.....	1,200.85	216.75
34 41 13 00-0032 EA Optical Detector For Pedestal Or Pipe Mounting, 2 Channel.....	1,546.93	216.75
34 41 13 00-0033 EA Optical Detector For Span Wire Mounting, 1 Channel, 1 Way.....	1,095.34	216.75
34 41 13 00-0034 EA Optical Detector For Span Wire Mounting, 1 Channel, 2 Way.....	1,200.85	216.75
34 41 13 00-0035 EA Optical Detector For Span Wire Mounting, 2 Channel.....	1,546.93	216.75
34 41 13 00-0036 EA Optical Detector For Signal Top Mounting, 1 Channel, 1 Way.....	1,095.34	216.75
34 41 13 00-0037 EA Optical Detector For Signal Top Mounting, 1 Channel, 2 Way.....	1,200.85	216.75
34 41 13 00-0038 EA Optical Detector For Signal Top Mounting, 2 Channel.....	1,546.93	216.75
34 41 13 00-0039 EA Phase Selector, 2 Channel.....	3,588.76	27.10
34 41 13 00-0040 EA Phase Selector, 4 Channel.....	5,582.90	27.10
34 41 13 00-0041 EA Malfunction Management Unit For Use With NEMA Controller.....	1,796.54	54.18
34 41 13 00-0042 EA Malfunction Management Unit For Use With Type 170E Or 2070 Controller.....	1,796.54	54.18
34 41 13 00-0043 EA Time Switch, 1-Circuit.....	339.58	32.51
34 41 13 00-0044 EA Digital Loop-Type Vehicle Detector Card, 2-Channel, Normal.....	360.51	13.54
34 41 13 00-0045 EA Digital Loop-Type Vehicle Detector Card, 2-Channel, Stretch/Delay.....	472.35	13.54
34 41 13 00-0046 EA Digital Loop-Type Vehicle Detector Card, 4-Channel, Normal.....	672.82	13.54
34 41 13 00-0047 EA Digital Loop-Type Vehicle Detector Card, 4-Channel, Stretch/Delay.....	845.86	13.54
34 41 13 00-0048 EA Digital Loop-Type Vehicle Detector Card Rack With Power Supply For Controller Cabinet.....	2,301.90	13.54
34 41 13 00-0049 EA Digital Loop-Type Vehicle Detector Card Rack With Power Supply For Remote Detector Cabinet.....	2,301.90	13.54
34 41 13 00-0050 EA Power Line Surge Protector.....	211.22	8.13
34 41 13 00-0051 EA Loop Detector Surge Protector.....	106.68	8.13
34 41 13 00-0052 EA Controller Cabinet With 1 Detector Rack And 1 Load Switch Bay.....	13,698.03	1,420.65
34 41 13 00-0053 EA Controller Cabinet With 1 Detector Rack And 2 Load Switch Bays.....	14,900.84	1,420.65
34 41 13 00-0054 EA Controller Cabinet With 2 Detector Racks And 1 Load Switch Bay.....	16,346.33	1,420.65
34 41 13 00-0055 EA Controller Cabinet With 2 Detector Racks And 2 Load Switch Bays.....	16,789.47	1,420.65
34 41 13 00-0056 EA Speed Limit Beacon Control Option.....	6,033.18	378.84
34 41 13 00-0057 EA Speed Limit Beacon Control Cabinet.....	6,790.86	757.68
34 41 13 00-0058 EA Remote Detector Cabinet.....	3,520.05	757.68
34 41 13 00-0059 EA Traffic Signal Hand Control.....	991.13	126.28
34 41 13 00-0060 EA Load Switch.....	98.56	8.13
34 41 13 00-0061 EA Extra Pedestrian Detector Isolation Assembly.....	780.11	126.28
34 41 13 00-0062 EA Fiber Optic Transceivers-Repeater Module.....	958.41	216.75
34 41 13 00-0063 EA Field Transceiver-Repeater.....	450.95	54.18
34 41 13 00-0064 EA 30" Pedestal With Base Plate And Cover.....	859.72	108.91
34 41 13 00-0065 EA 42" Pedestal With Base Plate And Cover (Push Button Pedestal).....	1,008.90	113.85
34 41 13 00-0066 EA 8' Pedestal With Base Plate And Cover.....	1,267.27	127.71
34 41 13 00-0067 EA 11' Pedestal With Base Plate And Cover.....	1,410.72	138.60
34 41 13 00-0068 EA 15' Pedestal With Base Plate And Cover.....	1,566.39	165.34
34 41 13 00-0069 LF 6-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.34	
34 41 13 00-0070 LF 12-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.43	
34 41 13 00-0071 LF 24-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.67	
34 41 13 00-0072 LF 36-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.91	
34 41 13 00-0073 LF 48-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	2.16	
34 41 13 00-0074 LF 72-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	2.56	
34 41 13 00-0075 LF 96-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	2.95	
34 41 13 00-0076 LF 144-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	3.68	

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41	13 00-0077	LF	3/16" Diameter Messenger Cable	0.49	0.10
34 41	13 00-0078	LF	1/4" Diameter Messenger Cable	0.57	0.10
34 41	13 00-0079	LF	3/8" Diameter Messenger Cable	1.04	0.10
34 41	13 00-0080	LF	1/2" Diameter Messenger Cable	2.14	0.20
34 41	13 00-0081	EA	4' Diameter x 10' Concrete Base For Poles	2,826.60	
			Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.		
34 41	13 00-0082	EA	4' Diameter x 16' Concrete Base For Poles	4,492.29	
			Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.		
34 41	13 00-0083	EA	Internally Illuminated Street Name Sign, 1 Line, 4'	2,699.73	252.56
34 41	13 00-0084	EA	Internally Illuminated Street Name Sign, 1 Line, 6'	3,332.46	315.70
34 41	13 00-0085	EA	Internally Illuminated Street Name Sign, 1 Line, 8'	3,627.55	378.84
34 41	13 00-0086	EA	Internally Illuminated Street Name Sign, 1 Line, 10'	4,091.46	441.98
34 41	13 00-0087	EA	Internally Illuminated Street Name Sign, 1 Line, 12'	4,386.56	505.12
34 41	13 00-0088	EA	Internally Illuminated Street Name Sign, 2 Line, 4'	4,295.04	252.56
34 41	13 00-0089	EA	Internally Illuminated Street Name Sign, 2 Line, 6'	5,290.72	315.70
34 41	13 00-0090	EA	Internally Illuminated Street Name Sign, 2 Line, 8'	5,703.99	378.84
34 41	13 00-0091	EA	Internally Illuminated Street Name Sign, 2 Line, 10'	6,370.48	441.98
34 41	13 00-0092	EA	Internally Illuminated Street Name Sign, 2 Line, 12'	6,834.39	505.12
34 41	13 00-0093	EA	Photoelectric Controller, Multi-Volt	88.01	28.18
34 41	13 00-0094	EA	Photoelectric Controller, 120 Volt	92.38	28.18
34 41	13 00-0095	EA	Photoelectric Controller, 480 Volt	92.38	28.18
34 41	13 00-0096	EA	Wi-Fi Communication Unit	1,411.06	126.28
34 41	13 00-0097	EA	Wi-Fi Communication Unit Mounting Bracket	294.93	94.71
34 41	13 00-0098	EA	Wi-Fi Communication Unit Power Supply / POE Injector	271.88	63.14
34 41	13 00-0099	EA	Wi-Fi Communication Unit Packet	1,977.87	189.42
34 41	13 00-0100	LF	Preemptor Detector Cable	1.93	
34 41	13 00-0101	EA	Sno-Shoe Cable Storage Assembly	253.19	
34 41	13 00-0102	EA	16" Pedestal With Base Plate And Cover	1,654.31	165.34
34 41	13 00-0103	EA	Vehicle Signal Face, LED, 1 - 12" Section	535.15	161.01
34 41	13 00-0104	EA	Vehicle Signal Face, LED, 2 - 12" Sections	874.54	227.31
34 41	13 00-0105	EA	Vehicle Signal Face, LED, 3 - 12" Sections	1,230.89	277.82
34 41	13 00-0106	EA	Vehicle Signal Face, LED, 3 - 12" Sections, Middle Section Blank	1,167.59	277.82
34 41	13 00-0107	EA	Vehicle Signal Face, LED, 4 - 12" Sections	1,568.36	309.39
34 41	13 00-0108	EA	Vehicle Signal Face, LED, 5 - 12" Sections	1,880.58	328.32
34 41	13 00-0109	EA	Vehicle Signal Face, LED, 5 - 12" Sections, Cluster	2,002.97	328.32
34 41	13 00-0110	EA	Vehicle Signal Face, LED, 1 - 8" Section	503.50	161.01
34 41	13 00-0111	EA	Vehicle Signal Face, LED, 2 - 8" Sections	811.23	227.31
34 41	13 00-0112	EA	Vehicle Signal Face, LED, 3 - 8" Sections	1,076.85	277.82
34 41	13 00-0113	EA	Vehicle Signal Face, LED, 2 - 8" Sections, 1 - 12" Section	1,154.93	277.82
34 41	13 00-0114	EA	Vehicle Signal Face, LED, 2 - 8" Sections, 2 - 12" Sections	1,433.31	309.39
34 41	13 00-0115	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 1 - 12" Section	1,388.99	309.39
34 41	13 00-0116	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections	1,648.45	328.32
34 41	13 00-0117	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections In Cluster	1,747.63	328.32
34 41	13 00-0118	EA	Vehicle Signal Face, LED, 3 - 12" Sections, Optically Programmed	2,539.22	277.82
34 41	13 00-0119	EA	Vehicle Signal Face, LED, 4 - 12" Sections, Optically Programmed	3,326.16	309.39
34 41	13 00-0120	EA	Vehicle Signal Face, LED, 5 - 12" Sections, Optically Programmed	4,349.51	328.32
34 41	13 00-0121	EA	Vehicle Signal Face, LED, 5 - 12" Sections In Cluster, Optically Programmed	4,718.80	328.32
34 41	13 00-0122	EA	Bracket Signal Mounting Assembly	518.45	126.28
34 41	13 00-0123	EA	Mast Arm Signal Mounting Assembly	914.50	252.56
34 41	13 00-0124	EA	Top Pole Signal Mounting Assembly	320.25	94.71
34 41	13 00-0125	EA	Pedestrian Signal Head	948.59	189.42
34 41	13 00-0126	EA	Pedestrian Signal Insert	588.25	94.71
34 41	13 00-0127	EA	Audible Pedestrian Signal	1,065.99	
34 41	13 00-0128	EA	Junction Box, Pole Or Post Mounted	407.19	
34 41	13 00-0129	EA	Pedestrian Push Button	382.68	
34 41	13 00-0130	EA	Illuminated Sign, Bracket Mounted, Symbolic	2,890.27	
34 41	13 00-0131	EA	Illuminated Sign, Mast Arm Mounted, Symbolic	3,030.46	
34 41	13 00-0132	EA	Sign, Message, "BLANK OUT", Bracket Mounted	3,161.40	
34 41	13 00-0133	EA	Sign, Message, "BLANK OUT", Mast Arm Mounted	3,371.10	
34 41	13 00-0134	EA	Sign, Fiber Optic, Bracket Mounted	3,572.08	
34 41	13 00-0135	EA	Sign, Fiber Optic, Mast Arm Mounted	3,786.26	
34 41	13 00-0136	EA	30' Type 15TS Signal And Lighting Standard	5,390.90	
			Note: 8" diameter base and 3-7/8" diameter top. 0.1793" wall thickness.		
34 41	13 00-0137	EA	35' Type 21TS Signal And Lighting Standard	6,218.02	
			Note: 9-3/8" diameter base and 3-9/16" diameter top. 0.1793" wall thickness.		
34 41	13 00-0138	EA	17' Type 18-2-100 Signal And Lighting Standard	3,085.43	
			Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.1793" wall thickness.		
34 41	13 00-0139	EA	17' Type 18-3-100 Signal And Lighting Standard	3,404.78	
			Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.2391" wall thickness.		
34 41	13 00-0140	EA	17' Type 18-4-100 Or 23-4-100 Signal And Lighting Standard	3,527.20	
			Note: 12" diameter base and 9" diameter top. 0.2391" wall thickness.		
34 41	13 00-0141	EA	17' Type 23-3-100 Signal And Lighting Standard	3,527.20	
			Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.		
34 41	13 00-0142	EA	17' Type 23-4-100 Signal And Lighting Standard	3,591.47	
			Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.		
34 41	13 00-0143	EA	17' Type 27-3-100 Signal And Lighting Standard	3,912.82	
			Note: 12-1/8" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.		
34 41	13 00-0144	EA	17' Type 27-4-100 Signal And Lighting Standard	3,986.72	
			Note: 13-1/2" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.		
34 41	13 00-0145	EA	17' Type 28-5-100 Signal And Lighting Standard	4,138.24	
			Note: 14" diameter base and 11-11/16" diameter top. 0.3125" wall thickness.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0146 EA 17' Type 60-5-100 Signal And Lighting Standard.....	4,376.88	
Note: 16" diameter base and 13-11/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0147 EA 18'-6" Type 16-2-100 Or 16-3-100 Signal And Lighting Standard.....	3,273.29	
Note: 10-3/4" diameter base and 8-1/4" diameter top. 0.1793" wall thickness.		
34 41 13 00-0148 EA 30' Type 17-2-100 Or 17-3-100 Signal And Lighting Standard.....	5,726.22	
Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.1793" wall thickness.		
34 41 13 00-0149 EA 30' Type 19-2-100 Signal And Lighting Standard.....	6,396.86	
Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0150 EA 30' Type 19-3-100 Or 24-3-100 Signal And Lighting Standard.....	6,653.93	
Note: 12" diameter base and 7-7/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0151 EA 30' Type 19-4-100 Or 24-4-100 Signal And Lighting Standard.....	6,653.93	
Note: 12" diameter base and 8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0152 EA 30' Type 26-3-100 Signal And Lighting Standard.....	7,463.72	
Note: 12-1/8" diameter base and 8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0153 EA 30' Type 26-4-100 Signal And Lighting Standard.....	7,774.15	
Note: 13-1/2" diameter base and 8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0154 EA 30' Type 29-5-100 Signal And Lighting Standard.....	8,100.08	
Note: 14" diameter base and 9-7/8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0155 EA 30' Type 61-5-100 Signal And Lighting Standard.....	8,613.44	
Note: 16" diameter base and 11-7/8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0156 EA 35' Type 17A-2-100 Signal And Lighting Standard.....	6,650.70	
Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0157 EA 35' Type 19A-2-100 Signal And Lighting Standard.....	7,433.11	
Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0158 EA 35' Type 19A-3-100 Or 24A-3-100 Signal And Lighting Standard.....	7,733.04	
Note: 12" diameter base and 7-3/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0159 EA 35' Type 19A-4-100 Or 24A-4-100 Signal And Lighting Standard.....	7,733.04	
Note: 12" diameter base and 7-5/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0160 EA 35' Type 26A-3-100 Signal And Lighting Standard.....	8,677.78	
Note: 12-1/8" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0161 EA 35' Type 26A-4-100 Signal And Lighting Standard.....	9,039.95	
Note: 13-1/2" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0162 EA 35' Type 29A-5-100 Signal And Lighting Standard.....	9,420.21	
Note: 14" diameter base and 9-3/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0163 EA 35' Type 61A-5-100 Signal And Lighting Standard.....	10,019.12	
Note: 16" diameter base and 11" diameter top. 0.3125" wall thickness.		
34 41 13 00-0164 EA 15' Steel Straight Mast Arm, MONOTUBE.....	2,360.05	
34 41 13 00-0165 EA 20' Steel Straight Mast Arm, MONOTUBE.....	2,481.97	
34 41 13 00-0166 EA 25' Steel Straight Mast Arm, MONOTUBE.....	2,645.88	
34 41 13 00-0167 EA 30' Steel Straight Mast Arm, MONOTUBE.....	3,492.62	
34 41 13 00-0168 EA 35' Steel Straight Mast Arm, MONOTUBE.....	4,170.22	
34 41 13 00-0169 EA 40' Steel Straight Mast Arm, MONOTUBE.....	4,466.48	
34 41 13 00-0170 EA 45' Steel Straight Mast Arm, MONOTUBE.....	4,925.53	
34 41 13 00-0171 EA 50' Steel Straight Mast Arm, MONOTUBE.....	5,588.22	
34 41 13 00-0172 EA 55' Steel Straight Mast Arm, MONOTUBE.....	6,392.48	
34 41 13 00-0173 EA 60' Steel Straight Mast Arm, MONOTUBE.....	6,952.46	
34 41 13 00-0174 EA 65' Steel Straight Mast Arm, MONOTUBE.....	8,055.17	
34 41 13 00-0175 EA 4' Steel Curved Luminaire Mast Arm.....	821.16	
For High Rise Arm, Add	59.72	
For High Rise Straight Arm, Add	47.77	
34 41 13 00-0176 EA 6' Steel Curved Luminaire Mast Arm.....	1,062.63	
For High Rise Arm, Add	79.84	
For High Rise Straight Arm, Add	63.87	
34 41 13 00-0177 EA 8' Steel Curved Luminaire Mast Arm.....	1,329.35	
For High Rise Arm, Add	99.96	
For High Rise Straight Arm, Add	79.97	
34 41 13 00-0178 EA 10' Steel Curved Luminaire Mast Arm.....	1,866.12	
For High Rise Arm, Add	117.52	
For High Rise Straight Arm, Add	94.02	
34 41 13 00-0179 EA 12' Steel Curved Luminaire Mast Arm.....	2,041.56	
For High Rise Arm, Add	138.60	
For High Rise Straight Arm, Add	110.88	
34 41 13 00-0180 EA 15' Steel Curved Luminaire Mast Arm.....	2,113.09	
For High Rise Arm, Add	154.57	
For High Rise Straight Arm, Add	123.65	
34 41 13 00-0181 EA 20' Steel Curved Luminaire Mast Arm.....	2,381.91	
For High Rise Arm, Add	184.58	
34 41 13 00-0182 EA 15' Tubular Aluminum Post.....	878.36	
34 41 13 00-0183 EA 17' Tubular Aluminum Post.....	940.69	
34 41 13 00-0184 EA 20' Tubular Aluminum Post.....	1,051.09	
34 41 13 00-0185 EA CUT-OFF POLE AND CAPPED.....	161.91	
34 41 13 00-0186 EA PAINT EXISTING SL/TS CONTROLLER COMPLETE.....	47.87	
34 41 13 00-0187 EA PAINT EXISTING TS POST COMPLETE.....	229.54	
34 41 13 00-0188 EA 1 Channel Loop Detector Amplifier.....	1,178.77	
34 41 13 00-0189 EA 4 Channel Loop Detector Amplifier.....	2,195.43	
34 41 13 00-0190 EA FLASHING BEACON WITH DOWNLIGHT.....	1,829.29	
34 41 13 00-0191 EA Flashing Beacon, Bracket Mounted.....	687.35	
34 41 13 00-0192 EA Flashing Beacon, Mast Arm Mounted.....	687.35	
34 41 13 00-0193 EA Flashing Beacon, Solar Powered, Bracket Mounted.....	15,371.87	
34 41 13 00-0194 EA Wireless Access Point (Proxim Tsunami MP11 954-BSUR-US).....	3,841.83	
34 41 13 00-0195 EA Ruggedized Subscriber Unit (Proxim Tsunami MP11 954-SUA-US).....	2,060.69	
34 41 13 00-0196 EA Smart Sensor HD (Wavetronix HD125).....	10,991.02	

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0197 EA Access Point (Sensys AP240-ES) Note: RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality.	5,079.46	
34 41 13 00-0198 EA Sensys Access Point AP240-ESC-VER - RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality with Integrated 1xRTT cellular data modem for data relay via CDMA.....	8,791.00	
34 41 13 00-0199 EA Mounting Kit for Access Points and Repeaters (KIT-MTG).....	308.87	
34 41 13 00-0200 EA Repeater (Sensys RP240-B-LL) Note: Nominal battery capacity of 171 Ah with seven (7) year battery-life.	2,326.90	
34 41 13 00-0201 EA Wireless Flush Mounted Sensor (Sensys VSN240-F) Note: Excludes coring.	1,036.76	
34 41 13 00-0202 EA Sensor Mounting Bracket, Cable, Lightning Surge Protector, Power Supply, Breaker, AC Surge Protector, Din Rail and Power Plug	2,588.07	
34 41 13 00-0203 EA Pole Base Foundation for 17-2-80, 17-2-100, 19-2-80 Poles.....	6,770.29	1.58
34 41 13 00-0204 EA Pole Base Foundation for 17-3-80, 19-3-80, 26-3-80 & 26-4-80 Poles	8,864.18	1.58
34 41 13 00-0205 EA Pole Base Foundation for Type 15 and 21 Poles.....	5,281.59	1.58
34 41 13 00-0206 EA Pole Base Foundation for 18-4-100, 19-4-100, 23-4-100, And 24-4-100 Poles.....	6,770.29	1.58
34 41 13 00-0207 EA Pole Base Foundation for 26-4-100 And 27-4-100 Poles.....	8,864.18	1.58
34 41 13 00-0208 EA Service Equipment Enclosure, Type III-AF	1,340.31	
34 41 13 00-0209 EA 12", 3 Section Signal, Mast Arm Mounted.....	1,509.28	
34 41 13 00-0210 EA 8", 3 Section Signal, Mast Arm Mounted.....	1,345.55	
34 41 13 00-0211 EA 12" FCV Visor	94.70	
34 41 13 00-0212 EA 8" FCV Visor.....	66.56	
34 41 13 00-0213 EA Eggcrate Visor.....	91.22	
34 41 13 00-0214 EA Pedestrian H/M	1,014.52	
34 41 13 00-0215 EA Pedestrian Audio.....	1,118.19	
34 41 13 00-0216 EA Adjustable Pushbutton.....	269.64	
34 41 13 00-0217 EA ADA Cap And Switch.....	347.09	
34 41 13 00-0218 EA 3 Section 12" Backplate.....	152.59	
34 41 13 00-0219 EA 3 Section 12" MAS Mount Backplate	224.70	
34 41 13 00-0220 EA 3 Section 8" Backplate.....	122.57	
34 41 13 00-0221 EA 12" Red LED Lenses.....	260.08	
34 41 13 00-0222 EA 12" Amber LED Lenses.....	279.45	
34 41 13 00-0223 EA 12" Green LED Lenses.....	491.89	
34 41 13 00-0224 EA 12" Red Arrow.....	258.52	
34 41 13 00-0225 EA 12" Amber Arrow.....	244.34	
34 41 13 00-0226 EA 12" Green Arrow	368.60	
34 41 13 00-0227 EA 8" Red.....	255.65	
34 41 13 00-0228 EA 8" Amber.....	245.18	
34 41 13 00-0229 EA 8" Green.....	296.86	
34 41 13 00-0230 EA Hand/Man	449.35	
34 41 13 00-0231 EA Frameworks, 8" TV-1-T.....	547.52	
34 41 13 00-0232 EA Frameworks, 8" TV-2-T.....	622.74	
34 41 13 00-0233 EA Frameworks, MAT MT	162.34	
34 41 13 00-0234 EA Frameworks, MAS MT	177.38	
34 41 13 00-0235 EA Frameworks, 3W PT TC	319.27	
34 41 13 00-0236 EA Frameworks, 2W PT TC	355.88	
34 41 13 00-0237 EA Frameworks, 2W SM TC.....	335.82	
34 41 13 00-0238 EA Frameworks, SV-1	222.19	
34 41 13 00-0239 EA Frameworks, TV-1	214.67	
34 41 13 00-0240 EA Type III Service Pedestal.....	4,339.85	
34 41 13 00-0241 EA Single Fuse Holder.....	40.22	
34 41 13 00-0242 EA Double Fuse Holder.....	103.38	
34 41 13 00-0243 EA Pullbox, 1-1/2" x 20" x 14".....	91.99	
34 41 13 00-0244 EA Pullbox, 5" x 28" x 18".....	125.29	
34 41 13 00-0245 EA Pullbox, 6" x 36" x 23".....	163.41	
34 41 13 00-0246 EA Pullbox Lids, FL9D.....	102.69	
34 41 13 00-0247 EA Pullbox Lids, FL30D.....	192.61	
34 41 13 00-0248 EA Pullbox Lids, FL36D.....	51.39	
34 41 13 00-0249 EA LED Enhanced Pedestrian Crossing Symbol Sign..... Note: 2 required per system.	1,819.63	99.00
34 41 13 00-0250 EA 42" Height, 8-1/2" Diameter Automatic Bollard Activation System..... Note: 4 required per system.	5,216.94	594.03
34 41 13 00-0251 EA Power Control Unit With Enclosure (Solar)..... Note: LightGuard Systems solar power equipment Includes: one solar array consisting of 1 Siemens SP70 solar power module (21" x 47" to be pole mounted, pole not included), #14 AWG solar tray cable, mounting hardware, one enclosure (16-1/2" width x 27-1/2" height x 15" depth), two 12V 80AH deep cycle gel cell batteries and a solar power control unit (PCU).	18,650.94	396.01
34 41 13 00-0252 EA Power Control Unit With Enclosure (A/C).....	11,936.44	396.01
34 41 13 00-0253 EA Push Button Assembly With Sign.....	1,022.88	198.01
34 41 13 00-0254 EA Advanced Warning Signs.....	2,053.74	198.01
34 41 13 00-0255 EA 14' High Galvanized Steel Traffic Signal Pole..... Note: For mast arm.	2,766.08	
34 41 13 00-0256 EA 21' High Galvanized Steel Traffic Signal Pole..... Note: For mast arm.	4,086.06	
34 41 13 00-0257 EA 22' High Galvanized Steel Traffic Signal Pole..... Note: For mast arm and luminare arm.	4,235.09	
34 41 13 00-0258 EA 30' High Galvanized Steel Traffic Signal Pole, Tapered, For >55' Mast Arm..... Note: For mast arm and luminare arm.	5,722.09	
34 41 13 00-0259 EA 32' High Galvanized Steel Traffic Signal Pole, Tapered, For Up To 55' Mast Arm..... Note: For mast arm and luminare arm.	5,959.58	
34 41 13 00-0260 EA 30' High Galvanized Steel Traffic Signal Pole, Tapered, For Up To 55' Mast Arm.....	4,765.33	
34 41 13 00-0261 EA 30' High Galvanized Steel Traffic Signal Pole, Octafute.....	4,280.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0262 EA 30' (High Spun Aluminum Traffic Signal Pole, Tapered.....	3,546.09	
34 41 13 00-0263 EA Type 26-6-70 Signal Pole With 55' SMA And 20' LMA	23,496.84	
34 41 13 00-0264 EA Type 29-6-70 Signal Pole With 65' SMA And 20' LMA	27,091.05	
34 41 13 00-0265 Traffic Signal Cable <small>(34 41 13)</small>		
34 41 13 00-0266 LF 16 AWG, 2-Conductor, Solid, Traffic Signal Cable	1.98	0.88
34 41 13 00-0267 LF 16 AWG, 3-Conductor, Solid, Traffic Signal Cable	2.21	0.95
34 41 13 00-0268 LF 16 AWG, 4-Conductor, Solid, Traffic Signal Cable	2.44	1.01
34 41 13 00-0269 LF 16 AWG, 5-Conductor, Solid, Traffic Signal Cable	2.64	1.07
34 41 13 00-0270 LF 16 AWG, 6-Conductor, Solid, Traffic Signal Cable	2.89	1.14
34 41 13 00-0271 LF 16 AWG, 8-Conductor, Solid, Traffic Signal Cable	3.33	1.26
34 41 13 00-0272 LF 16 AWG, 10-Conductor, Solid, Traffic Signal Cable	3.91	1.45
34 41 13 00-0273 LF 16 AWG, 12-Conductor, Solid, Traffic Signal Cable	4.48	1.64
34 41 13 00-0274 LF 16 AWG, 16-Conductor, Solid, Traffic Signal Cable	5.25	1.83
34 41 13 00-0275 LF 16 AWG, 20-Conductor, Solid, Traffic Signal Cable	6.16	2.02
34 41 13 00-0276 LF 14 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.04	0.88
34 41 13 00-0277 LF 14 AWG, 3-Conductor, Solid, Traffic Signal Cable	2.30	0.95
34 41 13 00-0278 LF 14 AWG, 4-Conductor, Solid, Traffic Signal Cable	2.54	1.01
34 41 13 00-0279 LF 14 AWG, 5-Conductor, Solid, Traffic Signal Cable	2.76	1.07
34 41 13 00-0280 LF 14 AWG, 6-Conductor, Solid, Traffic Signal Cable	3.05	1.14
34 41 13 00-0281 LF 14 AWG, 8-Conductor, Solid, Traffic Signal Cable	3.54	1.26
34 41 13 00-0282 LF 14 AWG, 10-Conductor, Solid, Traffic Signal Cable	4.16	1.45
34 41 13 00-0283 LF 14 AWG, 12-Conductor, Solid, Traffic Signal Cable	4.78	1.64
34 41 13 00-0284 LF 14 AWG, 16-Conductor, Solid, Traffic Signal Cable	5.65	1.83
34 41 13 00-0285 LF 14 AWG, 20-Conductor, Solid, Traffic Signal Cable	6.70	2.02
34 41 13 00-0286 LF 12 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.17	0.88
34 41 13 00-0287 LF 12 AWG, 3-Conductor, Solid, Traffic Signal Cable	2.49	0.95
34 41 13 00-0288 LF 12 AWG, 4-Conductor, Solid, Traffic Signal Cable	2.79	1.01
34 41 13 00-0289 LF 12 AWG, 5-Conductor, Solid, Traffic Signal Cable	3.06	1.07
34 41 13 00-0290 LF 12 AWG, 6-Conductor, Solid, Traffic Signal Cable	3.42	1.14
34 41 13 00-0291 LF 12 AWG, 8-Conductor, Solid, Traffic Signal Cable	4.02	1.26
34 41 13 00-0292 LF 12 AWG, 10-Conductor, Solid, Traffic Signal Cable	4.76	1.45
34 41 13 00-0293 LF 12 AWG, 12-Conductor, Solid, Traffic Signal Cable	5.50	1.64
34 41 13 00-0294 LF 12 AWG, 16-Conductor, Solid, Traffic Signal Cable	6.61	1.83
34 41 13 00-0295 LF 12 AWG, 20-Conductor, Solid, Traffic Signal Cable	7.97	2.02
34 41 13 00-0296 School Zone Flasher Beacons <small>(34 41 13)</small>		
34 41 13 00-0297 EA One 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	5,590.06	187.51
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0298 EA One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	5,630.15	187.51
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0299 EA Two 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	6,310.75	187.51
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0300 EA Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	6,439.03	187.51
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0301 EA 10" Digit Radar Display, One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly ...	11,856.94	187.51
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 80 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0302 EA 10" Digit Radar Display, Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly ...	12,359.67	187.51
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0303 Traffic Light Control Synchronization <small>(34 41 13)</small>		
34 41 13 00-0304 EA ENCOM COMPACT IP Radio/Wireless Ethernet Transceiver, 900 MHz FHSS 1 Watt output power and 128-bit data encryption with 1.1Mbps Throughput.....	4,836.08	
34 41 13 00-0305 EA ENCOM 5200R 900 MHz Serial Radio Modem, contains one Serial (RS-232 or RS-485) interface and 170/TS1/TS2 detector rack (EPR-5200R)	3,596.79	
34 41 13 00-0306 EA ENCOM Dual 2.4/2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24/24)	8,167.60	
34 41 13 00-0307 EA 5.8 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB58INT)	5,612.34	
34 41 13 00-0308 EA 2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24INT)	5,612.34	
34 41 13 00-0309 EA Solar Cabinet Assembly	15,025.90	
34 41 13 00-0310 EA Data Controller Interface Cable Assembly	586.10	
34 41 13 00-0311 EA 900 MHZ Splitter	709.46	
34 41 13 00-0312 EA 900 MHZ Surge Suppressor.....	256.96	
34 41 13 00-0313 EA Surge-Radio Lead in Cable.....	161.77	
34 41 13 00-0314 EA 12DB GAIN YAGI Antenna	712.60	
34 41 13 00-0315 EA PELCO Antenna Mounting Bracket	468.03	
34 41 13 00-0316 MLF Coaxial Cable, LMR-400.....	3,915.03	
34 41 13 00-0317 EA Perle 16 Port Serial Server	3,953.05	
34 41 13 00-0318 EA Serial to Ethernet Card	2,152.58	
34 41 13 00-0319 EA 404 Stand Alone Modem (GDI 404).....	1,977.60	
34 41 13 00-0320 Traffic Signal Controls <small>(34 41 13)</small>		

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41	13 00-0321	EA	Master Card for Type 2070 or NEMA TS2 traffic controllers (CC-TS2).....	1,689.34	
34 41	13 00-0322	EA	Extension Card for Type 2070 or NEMA traffic controllers (EX-TS2).....	720.40	
34 41	13 00-0323	EA	AccessBox for contract closure master card (CC-ACC).....	252.98	
34 41	13 00-0324	EA	Flush Mount Wireless Sensor (ATT VSN240-F).....	972.50	
34 41	13 00-0325	EA	Flush Mount Wireless Sensor (Speed & Count VSN240-F).....	972.50	
34 41	13 00-0326	EA	Epoxy Tube for Installation of Wireless Sensor (VSN240-EPX).....	149.55	
34 41	13 00-0327	EA	SNAPS License for each enabled AP (SNAPS-PER-AP).....	414.09	
34 41 13 00-0328 Traffic Signal Devices (34 41 13)					
34 41	13 00-0329	EA	12" Polycarbonate Signal Head Housing (McCain).....	901.33	89.10
34 41	13 00-0330	EA	16" Polycarbonate Pedestrian Signal Housing (McCain).....	454.96	69.31
34 41	13 00-0331	EA	Pedestrian Push Button Cap & Switch (McCain M31334).....	329.72	128.71
34 41	13 00-0332	EA	Pedestrian Push Button Frame Assembly 4" Diameter Pole (McCain M19712).....	448.53	188.11
34 41	13 00-0333	EA	Pedestrian Push Button Frame Assembly 2" Diameter Pole (McCain M30793).....	344.01	148.51
34 41	13 00-0334	EA	16 Channel Conflict Monitor (McCain 2010 ECLIP).....	1,367.05	64.35
34 41	13 00-0335	EA	LED Countdown Head (McCain GTX PS7-CFF1-VLA).....	279.09	24.75
34 41	13 00-0336	EA	Traffic signal Video Detection Camera (Iteris RZ4-awdr).....	3,101.25	108.91
34 41	13 00-0337	EA	Camera processor card (Iteris Edge Connect).....	7,096.07	158.41
34 41	13 00-0338	EA	Wireless Broadband Radio (Encorn BB58).....	6,701.14	148.51
34 41	13 00-0339	EA	24-port Gigabit and 4-port 1G/10G SFP+ Ethernet Switch (Etherwan EX77900).....	4,422.67	118.81
34 41	13 00-0340	EA	Power Adapter (Mean Well DR-120-48).....	149.47	37.13
34 41	13 00-0341	LF	14/1 Cal Trans Type 2 Inductive Traffic Detection Loops (Advanced Digital Cable 8452).....	0.85	
34 41	13 00-0342	EA	Radar Detection System (Wavetronix Matrix).....	12,782.08	376.22
34 41	13 00-0343	EA	Pedestrian Audio Push Button (Polaris APS).....	368.49	94.06
34 41	13 00-0344	EA	Opticom Infrared System - Detector (GTT 711).....	982.90	88.31
34 41	13 00-0345	EA	Opticom Infrared System - Detector (GTT 721).....	1,099.70	98.81
34 41	13 00-0346	EA	Opticom Infrared System - Detector (GTT 722).....	1,531.65	137.62
34 41	13 00-0347	EA	Opticom Multimode Phase Selector (GTT 764).....	5,136.12	81.43
34 41	13 00-0348	LF	Opticom GPS Installation Cable (GTT 1070).....	1.03	
34 41	13 00-0349	EA	Precast Concrete Traffic Pull Box, 5-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1324).....	851.53	
34 41	13 00-0350	EA	Precast Concrete Traffic Pull Box, 6-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1730).....	903.24	
34 41	13 00-0351	EA	UPS Module (Alpha Technologies FXM 350).....	1,388.19	54.18
Note: For battery backup in traffic signal control cabinet					
34 41	13 00-0352	EA	Web Connected Relay Switch (Control by Web X-301 WebRelay-Dual).....	432.49	44.56
Note: To control flashing "School" signs					
34 41	13 00-0353	LF	Fiber optic cable, 72 strand, single mode, riser non-plenum jacket (Optical Cable Corp DX072DSLX9KR).....	9.80	0.45
34 41	13 00-0354	LF	Fiber optic cable, 12 strand, multi mode, riser non-plenum jacket (Superior Essex W30126G01 MM Fiber).....	2.33	0.39
34 41	13 00-0355	EA	12" LED Signal Module, Tinted Lens, Red (GE DR6-RTFB-VLA).....	124.87	44.56
34 41	13 00-0356	EA	12" LED Signal Module, Tinted Lens, Yellow (GE DR6-YTFB-VLA).....	124.87	44.56
34 41	13 00-0357	EA	12" LED Signal Module, Tinted Lens, Green (GE DR6-GTFB-VLA).....	124.87	44.56
34 41	13 00-0358	EA	12" LED Signal Module, Clear Lens, Red (GE DR6-RCFB-VLA).....	124.87	44.56
34 41	13 00-0359	EA	12" LED Signal Module, Clear Lens, Yellow (GE DR6-YCFB-VLA).....	124.87	44.56
34 41	13 00-0360	EA	12" LED Signal Module, Clear Lens, Green (GE DR6-GCFB-VLA).....	124.87	44.56
34 41	13 00-0361	EA	LED Countdown Pedestrian Signal, 16" x 18" (GE PS7-CFF1-VLA).....	370.87	113.85
34 41	13 00-0362	EA	EOC Switch (Actellis ML688).....	5,055.96	352.22
34 41	13 00-0363	EA	Ethernet Extender Kit (ENABLE-IT 860 Pro).....	1,364.24	81.28
34 41	13 00-0364	EA	#5 pull box lid (Concrete, Bolt down) (Christy N30T).....	107.17	21.43
34 41	13 00-0365	EA	#5 pull box lid (Steel, Bolt down) (Christy N30-61J).....	391.10	31.02
34 41	13 00-0366	EA	#6 pull box lid (Concrete, Bolt down) (Christy N36T).....	134.16	21.43
34 41	13 00-0367	EA	#6 pull box lid (Steel, Bolt down) (Christy N36-61J).....	474.61	31.02
34 41	13 00-0368	EA	Battery Back-up (Alpha FXM110 UPS).....	3,294.58	108.38
34 41	13 00-0369	EA	Battery (Alpha AlphaCell 220GXL).....	464.55	27.10
34 41	13 00-0370	EA	BBS Cabinet (Alpha SE48-1616).....	3,770.70	243.84
34 41	13 00-0371	LF	Fiber 72 Strands (Corning 072ZU4-T3F22D20).....	5.47	2.12
34 41	13 00-0372	LF	Fiber 12 Strands (Corning 012ZU4-T3F22D20).....	2.40	0.97
34 41	13 00-0373	EA	FDU & Splice Cassette with LC connector type (Corning CCH-01U, CCH-CS12-B3-P00RE).....	1,170.60	81.28
34 41	13 00-0374	EA	12" THREE SECTION HOUSING (McCain M22435).....	806.02	54.18
34 41	13 00-0375	EA	12" FOUR SECTION HOUSING (McCain M30883).....	1,034.61	81.28
34 41	13 00-0376	EA	12" FIVE SECTION HOUSING (McCain M31769).....	1,209.02	81.28
34 41	13 00-0377	EA	12" CLUSTER, WITHOUT MAS (McCain M30987).....	1,296.22	81.28
34 41	13 00-0378	EA	CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	806.02	54.18
34 41	13 00-0379	EA	NAVIGATOR iN2 APS 2 WIRE PPB #IN250N0-B (Polaris iN250N0-B).....	806.02	54.18
34 41	13 00-0380	EA	NAVIGATOR iN2 CONTROLLER RACK MOUNT iCCU-C (Polaris iCCU-C).....	4,739.56	189.66
34 41	13 00-0381	EA	NAVIGATOR iN2 INTERCONNECT BOARD iN2-ICB-C (Polaris iN2-ICB-C).....	228.59	27.10
34 41	13 00-0382	EA	NAVIGATOR iN2 POWER SUPPLY iN2-150-WPS-C (Polaris iN2-150-WPS-C).....	228.59	27.10
34 41	13 00-0383	EA	NAVIGATOR iN2 CONNECTOR iN2-C4CABLE-C (Polaris iN2-c4cable-C).....	517.30	40.64
34 41	13 00-0384	EA	12" Visor (McCain M19302).....	39.11	10.84
34 41	13 00-0385	EA	LS.2202-HV (iPack), HDSP/FLASHER UNIT,ATC (McCain M36256).....	430.10	40.64
34 41	13 00-0386	EA	SIU.2218 SERIAL INTERFACE UNIT,ATC (McCain M36258).....	718.82	54.18
34 41	13 00-0387	EA	CMU.2212-HV (ip).32 CH W/ ETHERNET PORT, ATC (McCain M36259).....	1,339.83	81.28
34 41	13 00-0388	EA	ATCC-HV, INPUT ASSEMBLY, 24 CH W/ CONN IDC26 (McCain M54487).....	718.82	54.18
34 41	13 00-0389	EA	HARN, SB1/SB2, COMM EXTENSION (McCain M48062).....	141.38	27.10
34 41	13 00-0390	EA	ATCC-HV/LV, FITA ASSEMBLY, 24CH (McCain M54489).....	430.10	40.64
34 41	13 00-0391	EA	CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	806.02	54.18
34 41	13 00-0392	EA	242L ISOLATOR, EDI (McCain M56812).....	141.38	27.10
34 41	13 00-0393	EA	EDI 222 DETECTOR (McCain M11407).....	184.99	27.10
34 41	13 00-0394	EA	ALPHA BBS, INVERTER & BYPASS SWITCH (McCain M59763).....	3,235.91	135.46
34 41	13 00-0395	EA	GENERATOR SWITCH AND PLUG ASSY FOR ALPHA BBS (McCain M68752-2).....	526.96	54.18



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	34 41	13 00	0396	EA BBS BATTERY, ALPHACELL 165GXL (McCain M59884).....	718.82	54.18
	34 41	13 00	0397	EA Battery Backup Cabinet Anonize 44x26x12 (McCain M64438A).....	1,514.24	81.28
34 41 16 Traffic Control Equipment (34 41)						
34 41 16 00-0001 Transportation Control Equipment (34 41 16)						
	34 41	16 00	0002	EA CONTROLLER/SL/POLE MTD/1-PHASE/100A.....	7,546.41	872.85
	34 41	16 00	0003	EA CONTROLLER/SL/ON EMB POLE 1-PH/100A.....	7,646.96	923.11
	34 41	16 00	0004	EA CONTROLLER, SL, 3-PHASE, 100A, BASE MTD.....	9,238.65	933.97
	34 41	16 00	0005	EA CONTROLLER, SL, 3-PHASE, 200A, BASE MTD.....	10,992.61	1,134.00
	34 41	16 00	0006	EA CONTROLLER/SL/BASE MTD/1-PHASE/100A.....	8,879.04	559.42
	34 41	16 00	0007	EA CONTROLLER/SL/BASE MTD/1-PHASE/200A.....	9,840.98	612.45
	34 41	16 00	0008	EA CONTROLLER, TS, 12-BAY, "M" CABINET.....	16,190.07	962.89
	34 41	16 00	0009	EA CONTROLLER, TS, 12-BAY, "P" CABINET.....	17,250.03	1,067.07
	34 41	16 00	0010	EA CONTROLLER, TS, 12-BAY "P" CABINET With FO MASTER.....	24,540.93	1,199.66
	34 41	16 00	0011	EA CONTROLLER, TS, 16-BAY, "P" CABINET.....	19,517.94	1,136.52
	34 41	16 00	0012	EA CONTROLLER, PEDESTRIAN CROSSING, ADD-IN.....	618.12	133.48
	34 41	16 00	0013	EA CONCRETE BLOCK PEDESTAL.....	754.56	200.40
	34 41	16 00	0014	WK MAINTAIN EXIST TS INSTALLATION.....	301.00	150.49
	34 41	16 00	0015	EA INST SIGN BOARDS, ST. NAME.....	553.26	264.31
	34 41	16 00	0016	EA F.O. ADD-IN FOR LOCAL CONTROLLER.....	8,128.72	338.89
	34 41	16 00	0017	EA F.O. ADD-IN FOR MASTER CONTROLLER.....	19,539.19	508.48
	34 41	16 00	0018	EA PDU Equipped netBooster With IEC320 C13 Outlets (Synaccess NP-0808DUH).....	993.32	14.11
	34 41	16 00	0019	EA Remote Power Switched netBooster PDU, 8 Independent Outlets (Synaccess NP-0801DU).....	563.17	14.11
34 41 16 00-0020 Transportation Cabinets (34 41 16)						
34 41 16 00-0021 Transportation Cabinets (Dudlik Enclosures) (34 41 16 00-0020)						
	34 41	16 00	0022	EA 50" x 30" x 17", Aluminum CCTV Cabinet (Dudlik Enclosures).....	2,583.97	162.56
	34 41	16 00	0023	EA 66" x 48" x 30", Quad Door, 19" Racks, Aluminum CCTV Cabinet (Dudlik Enclosures).....	11,144.80	162.56
	34 41	16 00	0024	EA 46" x 30" x 20", 19" Rack, Aluminum TTS Cabinet (Dudlik Enclosures).....	2,413.13	162.56
	34 41	16 00	0025	EA 50" x 30" x 17", Aluminum ITS Controller Cabinet (Dudlik Enclosures).....	2,583.97	162.56
	34 41	16 00	0026	EA 60" x 50" x 36", Quad Door, 19" Racks, Aluminum Fiber Cross Connect Cabinet (Dudlik Enclosures).....	11,524.44	162.56
	34 41	16 00	0027	EA 55" x 16" x 17", Aluminum ITS Meter Cabinet (Dudlik Enclosures).....	1,653.85	162.56
34 41 16 00-0028 Transportation Cabinets (APX Enclosures) (34 41 16 00-0020)						
	34 41	16 00	0029	EA 28" Wide, 16" Depth, 46" High, ITS Controller Cabinet (APX Enclosure LS503017)..... Note: 3R, single door, pad mounted aluminum enclosure. Includes natural finish, aluminum back panel, light kit with door switch, thermostatically controlled fan kit, heater kit with thermostat, one aluminum moveable shelf, and one aluminum moveable shelf with slide out drawer. Excludes pad.	6,340.27	189.66
34 41 16 00-0030 Transportation Cabinets (Transportation Control Systems) (34 41 16 00-0020)						
	34 41	16 00	0031	EA 30" Wide, 16" Depth, 48" High, Type 4, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B483016B2D2S).....	2,432.43	162.56
	34 41	16 00	0032	EA 30" Wide, 16" Depth, 60" High, Type 4 Stretch, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B603016B2D2S).....	3,039.48	173.40
34 41 16 00-0033 Transportation Cabinets (McCain) (34 41 16 00-0020)						
	34 41	16 00	0034	EA 24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 352i)..... Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.	11,611.17	189.66
	34 41	16 00	0035	EA 24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 332)..... Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.	11,611.17	189.66
	34 41	16 00	0036	EA ATC ColdFire Controller (McCain 170).....	5,922.76	
34 41 16 00-0037 Traffic Control Equipment (34 41 16)						
	34 41	16 00	0038	EA ProStar PWM Charge Controller 12/24 Volt, 15 Amperes Without Display (Morningstar PS-15).....	285.55	54.18
	34 41	16 00	0039	EA ProStar PWM Charge Controller 12/24 Volt, 15 Amperes With Display (Morningstar PS-15M).....	381.55	54.18
	34 41	16 00	0040	EA ProStar PWM Charge Controller 12/24 Volt, 30 Amperes With Display (Morningstar PS-30M).....	442.53	54.18
	34 41	16 00	0041	EA ProStar PWM Charge Controller 12/24 Volt, 30 Amperes Without Display (Morningstar PS-30).....	338.86	54.18
	34 41	16 00	0042	MLF 10 AWG, 2 Conductor, 600V, Type TC, Non-Shielded Control Tray Cable (EnerSys A51002R).....	2,648.58	594.03
	34 41	16 00	0043	EA Vehicle Detector, Circuit Breaker, 0.2 Amperes, Wavetronix SmartSensor (Wavetronix WX-CLK-210-02).....	112.72	27.10
	34 41	16 00	0044	EA Vehicle Detector, 2.4 GHz 12 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0141).....	534.77	62.50
	34 41	16 00	0045	EA Detection System, Vehicle, Two Sensor Preamsembled Backplate, with AC Power (Wavetronix WX-SSB01-0003).....	2,833.55	187.51
	34 41	16 00	0046	EA Vehicle Detector, Power Supply, 24 Volt DC, 4 Amperes (Wavetronix WX-CLK-204).....	512.72	27.10
	34 41	16 00	0047	EA Vehicle Detector, 4-Channel Contact Matrix Closure, Rack Card (Wavetronix WX-CLK-114).....	737.11	27.10
	34 41	16 00	0048	EA 4 Channel Din-Rail Contact Closure Module (Wavetronix WX-CLK-104).....	840.09	54.18
	34 41	16 00	0049	EA Detection System, Vehicle, Four Sensor Preamsembled Backplate, With AC Power, Wavetronix Smartsensor (Wavetronix WX-SS-B01-0005).....	3,737.64	54.18
	34 41	16 00	0050	EA 50' Wavetronix Wiring Whip (Wavetronix WX-SS-708-060).....	375.02	187.51
	34 41	16 00	0051	EA 60', 6-Conductor Power And Communication Cable With Connector (Wavetronix WX-SS-704-060).....	532.77	46.88
	34 41	16 00	0052	EA 900 MHz 5 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0119).....	456.72	62.50
	34 41	16 00	0053	EA 900 MHz 9 dBi Yagi Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0120).....	281.11	62.50
	34 41	16 00	0054	EA Wavetronix Click 201 AC To DC Power Converter (Wavetronix WX-CLK-201).....	317.59	27.10
	34 41	16 00	0055	EA 24 Volt DC 2 Amperes, Wavetronix Smartsensor (Wavetronix WX-CLK-202).....	385.89	27.10
	34 41	16 00	0056	EA Coax Surge N-Type, Wavetronix SmartSensor (Wavetronix WX-CLK-250).....	171.25	27.10

34 Transportation
34 40 Transportation Signaling and Control Equipment
34 41 Roadway Signaling and Control Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0057 EA Power, RS232/RS485 Surge, Wavetronix Smartsensor (Wavetronix WX-CLK-200)	522.47	27.10
34 41 16 00-0058 EA Two Sensor Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-222)	590.76	27.10
34 41 16 00-0059 EA RS232 to RS485 Converter, Wavetronix SmartSensor (Wavetronix WX-CLK-304)	737.11	27.10
34 41 16 00-0060 EA Wavetronix Click 301 Serial To Ethernet Converter (Wavetronix CLK-301)	54.18	27.10
34 41 16 00-0061 EA Sensor Mount, Heavy Duty, 6 inch, 2 Axis Aluminum Bracket (Wavetronix WX-SS-611)	466.47	62.50
34 41 16 00-0062 MLF LF, UV Resistant Polyethylene Jacketed Cable (Times Microwave Systems LMR-400)	3,136.39	594.03
34 41 16 00-0063 EA N-Male (Plug) Clamp Connector (Times Microwave Systems TC-400-NMC)	53.97	16.26
34 41 16 00-0064 EA Spectra IV SE Back Box, Heavy-Duty, Pendant Mount (Pelco BB4HD-PG-E)	954.07	65.02
34 41 16 00-0065 EA Spectra III Clear Pendant Lower Dome, Heavy Duty (Pelco Id53hdpb-1)	921.49	81.28
34 41 16 00-0066 EA 24" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2000)	185.36	27.10
34 41 16 00-0067 EA 10" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2010)	135.54	27.10
34 41 16 00-0068 EA 24 Volt AC, Remote Data Port (Pelco IPS-RDPE-2)	498.36	27.10
34 41 16 00-0069 EA Spectra IV Remote Monitor Interface Cable (Pelco IPS-CABLE)	202.37	27.10
34 41 16 00-0070 EA 120 Volt AC, 12.5 Watt, 12 Volt DC, 600 mA, External Plug In Power Supply (Triad Magnetics WDU12-600)	76.38	27.10
34 41 16 00-0071 EA Control Area Network Direct Current Input/Output (Daktronics 0P-1247-0009)	693.74	54.18
Note: Input/Output for sign peripherals.		
34 41 16 00-0072 EA Control Area Network Direct Current Input/Output (Daktronics 0P-1247-4009)	693.74	54.18
Note: Input/Output for sign peripherals.		
34 41 16 00-0073 EA Control Area Network Distribution Board (Daktronics 0P-1248-0005)	1,327.89	54.18
Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0074 EA Control Area Network Distribution Board (Daktronics 0P-1248-0011)	1,327.89	54.18
Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0075 EA Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0019)	440.09	54.18
Note: Measures temperature and detects light and reports to CAN Dist Board.		
34 41 16 00-0076 EA Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0015)	635.21	54.18
Note: Measures temperature and detects light and humidity and reports to CAN Dist board.		
34 41 16 00-0077 EA Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0021)	635.21	54.18
Note: Measures temperature and detects light and humidity and reports to CAN Dist board.		
34 41 16 00-0078 EA Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0003)	518.14	54.18
Note: Measures temperature and detects light and reports to CAN Dist board.		
34 41 16 00-0079 EA Controller, VFC-3000 Field Controller NTCIPv1 (Daktronics 0A-1248-0016)	9,213.96	216.75
Note: The "brains" of the sign. Receives information from NTCIP central software and reports status and diagnostic information.		
34 41 16 00-0080 EA DC/DC, Direct Current to Direct Current Converter (Daktronics 0P-1247-0025)	385.89	27.10
Note: Takes 24 Volt DC input from two power supplies and outputs 9 Volt DC for CAN Dist Board, providing power redundancy.		
34 41 16 00-0081 EA Driver (Daktronics 0P-1100-0026)	730.59	43.35
Note: Driver takes data packets from Control Area Network to determine what pixels (LED clusters) are ON and which are OFF.		
34 41 16 00-0082 EA External Temp Sensor (Daktronics 0P-1100-0014)	642.79	43.35
Note: Sensor that measures ambient temperature.		
34 41 16 00-0083 EA Internal Temp Sensor (Daktronics 0P-1100-0038)	720.83	43.35
Note: Sensor that measures sign internal temperature.		
34 41 16 00-0084 EA Light Level Detector (Daktronics 0P-1151-0002)	428.15	43.35
Note: The values from the light sensors are used by the sign controller to determine the appropriate sign brightness.		
34 41 16 00-0085 EA Module (Daktronics 0A-1253-0608)	1,327.89	54.18
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0086 EA Module (Daktronics 0A-1253-3018)	1,669.35	54.18
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0087 EA Module (Daktronics 0A-1266-5002)	1,474.23	54.18
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0088 EA Module (Daktronics 0A-1332-6252)	2,059.60	54.18
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0089 EA Module (Daktronics 0A-1332-6455)	1,669.35	54.18
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0090 EA Module (Daktronics 0A-1332-6654)	1,669.35	54.18
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0091 EA Module (Daktronics 0P-1332-3015)	888.87	54.18
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0092 EA Module (Daktronics 0P-1332-4116)	888.87	54.18
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0093 EA Module (Daktronics 0P-1332-5031)	888.87	54.18
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0094 EA Module (Daktronics 0P-1332-5017)	888.87	54.18
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0095 EA Module Without Pan (Daktronics 0A-1253-0603)	1,327.89	54.18
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).		
34 41 16 00-0096 EA Module Without Pan (Daktronics 0A-1253-1605)	1,327.89	54.18
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).		
34 41 16 00-0097 EA Module Without Pan (Daktronics 0A-1254-1601)	1,327.89	54.18
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).		
34 41 16 00-0098 EA Pixel Strip (Daktronics 0P-1100-0016)	449.84	54.18
Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.		
34 41 16 00-0099 EA Pixel Strip (Daktronics 0P-1100-0029)	527.89	54.18
Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.		
34 41 16 00-0100 EA Power Supply (Daktronics A-1593)	1,571.79	54.18
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0101 EA Power Supply (Daktronics A-1648)	1,571.79	54.18
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0102 EA Power Supply (Daktronics A-2307)..... Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	596.18	54.18
34 41 16 00-0103 EA Surge Suppressor (Daktronics A-1129)..... Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	240.63	32.51
34 41 16 00-0104 EA Surge Suppressor (Daktronics A-1412)..... Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	504.04	32.51
34 41 16 00-0105 EA Surge Suppressor (Daktronics A-1772)..... Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	504.04	32.51
34 41 16 00-0106 EA Surge Suppressor (Daktronics A-2139)..... Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	747.95	32.51
34 41 16 00-0107 EA VCB, Vanguard Control Board (Daktronics 0P-1248-0022)..... Note: Receives high speed serial communication over fiber or CAT5 from VFC-3000 and reports sign status and peripheral diagnostics.	1,269.35	54.18
34 41 16 00-0108 EA VMS I/O, Variable Message Sign Input/Output (Daktronics 0P-1194-0001)..... Note: Input/Output board for sign peripherals.	1,718.13	54.18
34 41 16 00-0109 EA Power Supply Assembly (Daktronics A-1856R).....	1,132.77	54.18
34 41 16 00-0110 EA Power Supply Isolation Board (Daktronics 0P-1447-2000).....	742.52	54.18
34 41 16 00-0111 EA Ventilation/Circulation Fan (Daktronics B-1075).....	274.23	54.18
34 41 16 00-0112 EA VMS Controller (V2) (Daktronics 0A-1248-0028).....	9,213.96	216.75
34 41 16 00-0113 EA Photo/Temp Sensor (Daktronics 0P-1247-0015).....	635.21	54.18
34 41 16 00-0114 EA Defog Fan (Daktronics B-1053).....	102.96	27.10
34 41 16 00-0115 EA Defog Heater (Daktronics A-1792).....	132.23	27.10
34 41 16 00-0116 EA Display Card 1500, 15' Clear (Ver-Mac PB-AFF-06023A-03 PF).....	840.09	54.18
34 41 16 00-0117 EA Display Card 1500, 30' Amber (Ver-Mac PB-AFF-06023-01 PF).....	840.09	54.18
34 41 16 00-0118 EA 1-Port Decoder With H.264 And High-Definition Technology (Verint S1801E-R).....	1,096.95	54.28
34 41 16 00-0119 EA 1-Port Video Encoder Featuring H.264 Technology With One Bi-directional Audio Channel And 12V DC Universal Power Supply (Verint S1801E).....	1,096.95	54.28
34 41 16 00-0120 EA 16-Port Video Encoder Featuring H.264 Technology (Verint S1816E).....	5,964.00	54.28
34 41 16 00-0121 EA Encoder H.264 Compact, Hiperfmc (Verint S1802E).....	1,419.19	54.28
34 41 16 00-0122 EA 110 Volt AC To 12 Volt DC At 45 Watt, Transformer (Verint PS1261).....	190.90	27.10
34 41 16 00-0123 EA 1-Channel Encoder, H.264 Dual-Streaming, SD Card Slot (Bosch VIP-X1XF-E).....	673.44	54.28
34 41 16 00-0124 EA Single/Quad-Stream Decoder (Bosch VIP-XD).....	1,768.01	54.28
34 41 16 00-0125 EA 1-Output, Outdoor-Rated CCTV Power Supply Unit, 24/26/28 Volt AC (Pelco WCS1-4).....	252.78	54.18
34 41 16 00-0126 EA 4-Outputs, Outdoor-Rated CCTV Power Supply With Circuit Breaker, 24/28 Volt AC (Pelco WCS4-20B).....	547.46	54.18
34 41 16 00-0127 EA 12.5KVA, 12 Volt, 75Ah, UPS Battery (UPG UB12750).....	268.80	13.57
34 41 16 00-0128 EA Managed Ethernet Switch with 4 10/100TX Ports + 4 100FX Fiber Ports (EtherWAN EX71440-B0B).....	3,411.67	108.38
34 41 16 00-0129 EA Power Supply, Hardened, External 100-240 Volt AC Input; TS2 rated; 12 Volt DC Output Power (EtherWAN 41-136046-1).....	209.04	27.10
34 41 16 00-0130 EA 4kVA / 3.6kW Split-Phase Power Module (Eaton 9PXMSPPM).....	3,103.15	54.18
34 41 16 00-0131 EA 208-240 Volt, 4-20kVA Rack/Tower UPS (Eaton 9PXM).....	7,248.34	268.22
34 41 16 00-0132 EA 30 Amperes, 600 Volt, 3-Pole, Fusible, NEMA 3R Rainproof, Safety Switch (Square D H361RB).....	961.28	140.89
34 41 16 00-0133 EA 30 Amperes, 600 Volt, LKS Fuse (Eaton Bussmann LKS-30).....	22.79	8.67
34 41 16 00-0134 EA 60 Amperes, 600 Volt, 3-Pole, Fusible, Heavy Duty, Safety Switch (Square D H362DS).....	2,521.88	108.38
34 41 16 00-0135 EA 60 Amperes, 600 Volt, Dual Element, Time-Delay Fuse (Eaton Bussmann FRS-R-60).....	52.44	8.67
34 41 16 00-0136 EA 50 Mbps, MIMO 2x2, 15 dBi Integrated Antenna (Proxim Wireless TSUNAMI QB-820).....	2,252.58	62.50
34 41 16 00-0137 EA Singlemode Loaded Fiber Adapter Panel, 6 Simplex SC/UPC Adapters (Multi-Link 10-4810).....	117.84	41.18
34 41 16 00-0138 EA 12" x 6" x 5-1/2", 2 Panel, 2 Splice Dual Security Door, Compact Wall Mount Fiber Distribution Unit (Multilink 10-4469).....	347.55	54.18
34 41 16 00-0139 EA Single AC Inlet, 8 Nema 5-15 Outlets, Built-in AC Current Drawing Sensing Module (Synaccess NP-0801DT).....	632.67	14.11
34 41 16 00-0140 EA Aggregated TRMS AC Current Sensing, One Readout For All Outlets (Synaccess NP-0801DT(H)).....	682.03	14.11
34 41 16 00-0141 EA 550 Watt, 120 Volt AC, Fan Heater With Adjustable Thermostat, 32-140 Degree Fahrenheit (Stego CR-027).....	359.78	21.67
34 41 16 00-0142 EA 10/100M Switch, 4 x 1G Combo, LAN Base (Cisco IE-4000-4TC4G-E).....	4,347.92	130.05
34 41 16 00-0143 EA 12 Port, 2 Panel, Wall Mount, Compact Fiber Distribution Unit (Multilink FWM012XLC).....	158.19	24.92
34 41 16 00-0144 EA 6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel (Multilink MSC-06-SM-C-BLK).....	40.42	5.42
34 41 16 00-0145 EA 170 Watt AC To DC, Industrial Ethernet Family Power Supply (Cisco PWR-IE170W-PC-AC).....	1,369.92	54.18
34 41 16 00-0146 EA 12 Port, Industrial Ethernet Layer 3 Switch Installed In Transportation Control Equipment (Cisco IE-4000-4GC4GP4G-E).....	4,722.12	108.38
34 41 16 00-0147 EA 2 KVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line Uninterruptible Power Supply (UPS) (Xtreme Power P90-3000).....	3,172.74	178.82
34 41 16 00-0148 EA 100 Amperes, 16 Circuit, Main Lug Load Center Panelboard, 8-1 AWG, 120/240 Volt, Single Phase (Square D QO816L100DS).....	703.92	309.95
34 41 16 00-0149 EA 70 Amperes, 4 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase (Square D QO24L70S).....	490.42	216.75
34 41 16 00-0150 EA 60 Amperes, 120/240 Volt, 2 Pole Common Trip Miniature Circuit Breaker, Plug On Mounting (Square D QO260).....	102.96	29.26
34 41 16 00-0151 EA 15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QOT1515).....	78.45	19.51
34 41 16 00-0152 EA 15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	60.79	19.51
34 41 16 00-0153 EA 20 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	60.79	19.51
34 41 16 00-0154 EA One Output Outdoor-rated CCTV Power Supply Unit, 24/26/28 Volt AC At 4 Amperes Total Supply Current, Fuse Protected Output, UL Listed (Pelco WCS1-4).....	252.78	54.18
34 41 16 00-0155 EA DIN Rail Mount, Switching Power Supply (TKH Security PSR12DC).....	296.11	27.15
34 41 16 00-0156 EA H.264 Multi-codec Video Encoder With Audio, Data And CC's (TKH Security C-60-E-MC).....	2,791.86	27.15
34 41 16 00-0157 EA Expansion Power Module For IE-3000-4TC And IE-3000-8TC (Cisco PWR-IE50W-AC-IEC).....	544.27	14.11
34 41 16 00-0158 EA Traffic Monitoring System (BlueToad Spectra Cellular/Solar Version).....	11,232.67	187.51
34 41 16 00-0159 EA Ubiquiti Rocket M9 Wireless Access Point (ROCKETM9).....	422.93	62.50

34 70 Transportation Construction and Equipment ⁽³⁴⁾

34 71 Roadway Construction ^(34 70)



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

34 71 13	Vehicle Barriers <small>(34 71)</small>		
34 71 13 13	Vehicle Median Barriers <small>(34 71 13)</small>		
34 71 13 13-0001	Concrete Median Barrier <small>(34 71 13 13)</small>		
34 71 13 13-0002	LF Median Barrier, Precast, 42" High Single Face.....	67.80	3.88
34 71 13 13-0003	LF Median Barrier, Precast, 32" High, 2' Wide Base, Double Face.....	104.84	3.88
34 71 13 13-0004	LF Median Barrier, Precast, 42" High, 2' Wide Base, Double Face.....	143.58	3.88
34 71 13 13-0005	LF Median Barrier, Cast In Place With Steel Forms.....	47.20	6.05
34 71 13 13-0006	LF Median Barrier, Slipformed Concrete.....	38.86	3.20
34 71 13 16	Vehicle Crash Barriers <small>(34 71 13)</small>		
34 71 13 16-0001	Impact Barrier, Non-Redirective <small>(34 71 13 16)</small>		
34 71 13 16-0002	Sand Barrel Impact Attenuator <small>(34 71 13 16-0001)</small>		
	Note: Includes containers, inserts, and lid. Excludes sand.		
34 71 13 16-0003	EA 200, 400 Or 700 LB Sand Barrel.....	621.90	45.69
	Note: Includes containers, inserts, and lid.		
34 71 13 16-0004	EA 1400 LB Sand Barrel.....	578.45	53.65
	Note: Includes containers, inserts, and lid.		
34 71 13 16-0005	EA 2100 LB Sand Barrel.....	623.74	61.59
	Note: Includes containers, inserts, and lid.		
34 71 13 16-0006	Sand For Sand Barrel Impact Attenuator <small>(34 71 13 16-0001)</small>		
34 71 13 16-0007	LB Sand for Sand Barrels.....	0.09	
34 71 13 26	Vehicle Guide Rails <small>(34 71 13)</small>		
34 71 13 26-0001	Mobilize Guide Rail Crew <small>(34 71 13 26)</small>		
34 71 13 26-0002	EA Mobilize Guide Rail Crew.....	1,165.30	
	Note: Excludes equipment mobilization.		
34 71 13 26-0003	Corrugated Beam Guide Rail <small>(34 71 13 26)</small>		
34 71 13 26-0004	Corrugated Beam Guide Railing <small>(34 71 13 26-0003)</small>		
34 71 13 26-0005	Corrugated Beam Guide Railing, Straight Sections <small>(34 71 13 26-0004)</small>		
	Note: Add additional length for back-up sections.		
34 71 13 26-0006	LF Corrugated Beam Guide Railing.....	17.92	2.08
34 71 13 26-0007	LF Corrugated Beam Guide Railing (Rustic).....	19.35	2.08
34 71 13 26-0008	Corrugated Beam Guide Railing, Shop Curved <small>(34 71 13 26-0004)</small>		
	Note: Add additional length for back-up sections.		
34 71 13 26-0009	LF Shop Curved Corrugated Beam Guide Railing.....	23.53	2.08
34 71 13 26-0010	LF Shop Curved Corrugated Beam Guide Railing (Rustic).....	25.50	2.08
34 71 13 26-0011	LF Shop Curved Corrugated Beam Guide Railing End.....	60.91	2.08
	Note: Treatment for mall barriers driveways, walkways, special end, etc.		
34 71 13 26-0012	LF Shop Curved Corrugated Beam Guide Railing (Rustic) End.....	66.50	2.08
	Note: Treatment for mall barriers shop curved corrugated beam guide railing end etc.		
34 71 13 26-0013	Corrugated Beam Guide Railing, Manufactured End Sections <small>(34 71 13 26-0003)</small>		
34 71 13 26-0014	EA Corrugated Beam Guide Railing End Section At Anchor Unit.....	133.22	27.47
34 71 13 26-0015	EA Corrugated Beam Guide Railing End Section (Rustic) At Anchor Unit.....	140.85	27.47
34 71 13 26-0016	EA Corrugated Beam Guide Railing Flared Or 180 Degree End Section.....	179.03	27.47
34 71 13 26-0017	EA Corrugated Beam Guide Railing Flared Or 180 Degree End Section (Rustic).....	186.66	27.47
34 71 13 26-0018	EA Corrugated Beam Guide Railing 225 Degree End Section.....	179.03	27.47
34 71 13 26-0019	EA Corrugated Beam Guide Railing 225 Degree End Section (Rustic).....	186.66	27.47
34 71 13 26-0020	Corrugated Beam Guide Rail End Terminal Systems <small>(34 71 13 26-0003)</small>		
	Note: Excludes post. As manufactured and distributed by R. G. Steel Corp.		
34 71 13 26-0021	EA Regent Flared End Terminal Head With Bracket, Type B & C.....	4,612.44	167.09
34 71 13 26-0022	EA Fleet Flared End Terminal Head With Bracket.....	3,849.02	167.09
34 71 13 26-0023	EA SKT 350 Tangent End Terminal Head With Bracket.....	4,612.44	167.09
34 71 13 26-0024	EA 12'-6" Corrugated Beam Pre-drilled #1 Panel.....	677.58	78.77
34 71 13 26-0025	EA Terminal Support System, Type SFT.....	899.64	210.61
34 71 13 26-0026	EA Terminal Support System, Type ET.....	4,483.89	596.07
34 71 13 26-0027	EA Terminal Support System, Type SRT.....	4,874.66	596.07
34 71 13 26-0028	Corrugated Beam Guide Rail Posts <small>(34 71 13 26-0003)</small>		
	Note: Includes mounting hardware.		
34 71 13 26-0029	EA Standard Post For Corrugated Beam Guide Rail.....	142.56	15.30
	For Installation Without Soil Plate, Deduct	-5.00	
	For Installation In Rock, Add	4.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0030 EA Standard Post For (Rustic) Corrugated Beam Guide Rail..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	150.19 -5.00 4.08	15.30
34 71 13 26-0031 EA Extra Long Post For Corrugated Beam Guide Rail..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	157.83 -5.00 4.08	15.30
34 71 13 26-0032 EA Extra Long Post (Rustic) for Corrugated Beam Guide Rail..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	165.46 -5.00 4.08	15.30
34 71 13 26-0033 EA 6BB-1/2" or Mall Barrier Post for Corrugated Beam Guide Rail..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	142.56 -5.00 4.08	15.30
34 71 13 26-0034 EA Post Struts for Corrugated Beam Guide Rail Mall Barrier Post..... <i>For Installation In Rock, Add</i>	203.63 4.08	15.30
34 71 13 26-0035 Heavy Post Blocked Out Corrugated Beam Guide Rail Posts (34 71 13 26-0003) Note: Includes mounting hardware. Excludes triangular mounting brackets.		
34 71 13 26-0036 EA Standard Post For Heavy Post Blocked Out Corrugated Beam Guide.....	142.56	15.30
34 71 13 26-0037 EA Standard Rustic Post For Heavy Post Blocked Out Corrugated Beam Guide.....	150.19	15.30
34 71 13 26-0038 EA Extra Long Post for Heavy Post Blocked Out Corrugated Beam Guide.....	157.83	15.30
34 71 13 26-0039 EA Extra Long Post (Rustic) For heavy post blocked out corrugated beam guide rail..... Note: For heavy post blocked out corrugated beam guide (rustic)	165.46	15.30
34 71 13 26-0040 EA Type A Post 1630mm Post..... Note: For heavy post blocked out corrugated beam guide rail	138.74	15.30
34 71 13 26-0041 EA Type A Post 1630mm Post (Rustic)..... Note: For heavy post blocked out corrugated beam guide rail	146.37	15.30
34 71 13 26-0042 EA Type B Post 1460mm..... Note: For heavy post blocked out corrugated beam guide rail	131.11	15.30
34 71 13 26-0043 EA Type B Post 1460mm (Rustic)..... Note: For heavy post blocked out corrugated beam guide rail	138.74	15.30
34 71 13 26-0044 EA Type C Post 1290mm..... Note: For heavy post blocked out corrugated beam guide rail	123.47	15.30
34 71 13 26-0045 EA Type C Post 1290mm (Rustic)..... Note: For heavy post blocked out corrugated beam guide rail	131.11	15.30
34 71 13 26-0046 EA Breakaway Wood Or Steel Post In Steel Foundation Tube.....	525.49	15.30
34 71 13 26-0047 EA Wood, Metal, Plastic Or Composite Offset Block Or Beam..... Note: For heavy post blocked out corrugated beam guide rail.	58.58	15.30
34 71 13 26-0048 Corrugated Beam Guide Rail Accessories (34 71 13 26-0003)		
34 71 13 26-0049 EA Triangular Mounting Brackets (Galvanized Or Rustic) For All Post Types A, B And C.....	117.95	31.21
34 71 13 26-0050 Corrugated Beam Guide Rail Repair for Existing Guide Rail (34 71 13 26-0003) Note: Includes associated hardware.		
34 71 13 26-0051 LF Removal And Storage Of Corrugated Beam Guide Railing And Post.....	12.20	
34 71 13 26-0052 EA Install Stored Post For Corrugated Beam Guide Rail.....	41.61	
34 71 13 26-0053 LF Install Stored Corrugated Beam Guide Railing And Post.....	7.08	
34 71 13 26-0054 Corrugated Thrie Beam Guide Railing (34 71 13 26-0003)		
34 71 13 26-0055 Corrugated Thrie Beam Guide Railing. Straight Sections (34 71 13 26-0054) Note: Add additional length for back-up sections.		
34 71 13 26-0056 LF Corrugated Thrie Beam Guide Railing.....	42.47	2.62
34 71 13 26-0057 LF Corrugated Thrie Beam Guide Railing (Rustic).....	44.79	2.62
34 71 13 26-0058 Corrugated Thrie Beam Guide Railing. Shop Curved (34 71 13 26-0054) Note: Add additional length for back-up sections.		
34 71 13 26-0059 LF Shop Curved Corrugated Thrie Beam Guide Railing.....	51.77	2.62
34 71 13 26-0060 LF Shop Curved Corrugated Thrie Beam Guide Railing (Rustic).....	54.10	2.62
34 71 13 26-0061 Corrugated Thrie Beam Guide Rail Posts (34 71 13 26-0054) Note: Includes hardware for mounting.		
34 71 13 26-0062 EA Standard Post For Corrugated Thrie Beam Guide Rail..... <i>For Installation Without Soil Plate, Deduct</i> <i>For 32" Soil Plate, Add</i>	171.44 -5.00 7.00	2.62
34 71 13 26-0063 EA Standard Post (Rustic) For Corrugated Thrie Beam Guide Rail..... <i>For Installation Without Soil Plate, Deduct</i> <i>For 32" Soil Plate, Add</i>	179.08 -5.00 7.00	2.62
34 71 13 26-0064 Timber Guide Rails (34 71 13 26) Note: Includes drilling and fasteners. Excludes excavation, auguring and concrete.		
34 71 13 26-0065 Timber Guide Rail Posts (34 71 13 26-0064)		
34 71 13 26-0066 EA 6" x 8" Timber Guide Rail Post.....	105.14	10.40
34 71 13 26-0067 EA 6" x 9" Timber Guide Rail Post.....	120.41	10.40
34 71 13 26-0068 EA 10" x 10" Timber Guide Rail Post.....	240.00	10.40
34 71 13 26-0069 EA 10" x 12" Timber Guide Rail Post.....	254.26	10.40

34 Transportation
34 70 Transportation Construction and Equipment
34 71 Roadway Construction



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0070 EA 12" x 12" Timber Guide Rail Post.....	294.91	10.40
34 71 13 26-0071 Timber Guide Rails (34 71 13 26-0064) Note: Excludes posts, spacer blocks and steel backup plates.		
34 71 13 26-0072 LF 4" x 9" Timber Guide Rail.....	13.07	1.25
34 71 13 26-0073 LF 6" x 10" Timber Guide Rail.....	18.56	1.25
34 71 13 26-0074 LF 6" x 12" Timber Guide Rail.....	21.78	1.25
34 71 13 26-0075 Spacer Blocks For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0076 EA 4" x 9" Spacer Block For Timber Guide Rails.....	17.00	1.67
34 71 13 26-0077 EA 6" x 8" Spacer Block For Timber Guide Rails.....	19.63	1.67
34 71 13 26-0078 EA 8" x 8" Spacer Block For Timber Guide Rails.....	22.99	1.67
34 71 13 26-0079 Weathering Steel Backup Plates For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0080 LF 6" High, Weathering Steel Backup Plate For Timber Guide Rails.....	24.08	1.04
34 71 13 26-0081 Weathering Steel Splice And Bearing Plates For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0082 EA Weathering Steel Splice Plate For Timber Guide Rails.....	165.07	14.56
34 71 13 26-0083 EA Weathering Steel Bearing Termination Plate For Timber Guide Rails.....	103.12	10.40
34 71 13 26-0084 Cable Guide Rail (34 71 13 26)		
34 71 13 26-0085 Cable Guide Rail (34 71 13 26-0084)		
34 71 13 26-0086 LF Cable (Each Cable).....	9.51	2.25
Note: Includes tensioning. Excludes splices.		
34 71 13 26-0087 EA Cable Splice With Wedges.....	249.84	15.61
34 71 13 26-0088 Cable Guide Rail Posts (34 71 13 26-0084) Note: Includes hardware for cable mounting.		
34 71 13 26-0089 EA Standard Post for Cable Guide Rail.....	182.53	51.01
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	13.60	
34 71 13 26-0090 EA Standard Post (Rustic) for Cable Guide Rail.....	190.17	51.01
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	13.60	
34 71 13 26-0091 EA Extra Long Post for Cable Guide Rail.....	190.17	51.01
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	13.60	
34 71 13 26-0092 EA Extra Long Post (Rustic) for Cable Guide Rail.....	197.80	51.01
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	13.60	
34 71 13 26-0093 EA Slip Impact Post Top for Anchor Unit.....	118.81	20.41
34 71 13 26-0094 EA Slip Impact Post Base and Keeper Plate.....	309.67	20.41
Note: For anchor unit.		
34 71 13 26-0095 Cable Guide Rail Accessories For Breakaway Anchor Angle Systems (34 71 13 26-0084)		
34 71 13 26-0096 EA Turnbuckle Cable End Assembly For Use With Breakaway Anchors.....	537.57	208.51
34 71 13 26-0097 EA Turnbuckle Cable End Assembly.....	166.58	10.42
34 71 13 26-0098 EA Spring Cable End Assembly (Compensating Device) For Use With Breakaway Anchors.....	541.30	5.18
34 71 13 26-0099 EA Spring Cable End Assembly (Compensating Device) Without Turnbuckle.....	556.57	5.18
34 71 13 26-0100 EA Breakaway Anchor Angle.....	212.39	10.42
34 71 13 26-0101 EA Standard End Post Cap Assembly.....	98.52	5.18
34 71 13 26-0102 EA Driveway End Post Cap Assembly.....	83.25	5.18
34 71 13 26-0103 EA End Post Ground Support Plates.....	45.08	5.18
34 71 13 26-0104 EA 11" Stud Bolt, Cable Guide Rail.....	39.36	5.18
34 71 13 26-0105 EA 18" Stud Bolt, Cable Guide Rail.....	46.99	5.18
34 71 13 26-0106 EA 25" Stud Bolt, Cable Guide Rail.....	54.62	5.18
34 71 13 26-0107 EA 1-1/4" Diameter Turnbuckle, Cable Guide Rail.....	471.95	10.42
34 71 13 26-0108 EA 1-1/2" Diameter Turnbuckle, Cable Guide Rail.....	502.49	10.42
34 71 13 26-0109 EA 5/8" Diameter Turnbuckle With 12" Take-up And Shackle Ends, Cable Guide Rail.....	334.54	10.42
34 71 13 26-0110 EA 5/8" Eye Bolt 18" Long, Cable Guide Rail.....	205.40	5.18
34 71 13 26-0111 EA 3/4" Eye Bolt 8'-6" Long, Cable Guide Rail.....	212.39	10.42
34 71 13 26-0112 EA 1-5/8" Anchor Rod 10' Long With Plate, Cable Guide Rail.....	226.93	15.61
34 71 13 26-0113 Cable Guide Rail Accessories For Slip Impact Post Systems (34 71 13 26-0084)		
34 71 13 26-0114 EA Turnbuckle Cable End Assembly.....	381.53	17.04
Note: For use with slip impact post.		
34 71 13 26-0115 EA Spring Cable End Assembly (Compensating Device).....	747.97	17.04
Note: For use with slip impact post.		
34 71 13 26-0116 EA Anchor Angle For Slip Impact Post System.....	221.21	17.04
34 71 13 26-0117 EA Cable End Assembly Rod.....	183.04	17.04
Note: Includes cable end, threaded rod and keeper to anchor angle.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0118 Cable Guide Rail Repair For Existing Guide Rail <small>(34 71 13 26-0084)</small>		
<i>Note: Includes associated hardware.</i>		
34 71 13 26-0119 LF Retention Existing Cable (Each Cable).....	1.39	
34 71 13 26-0120 LF Removal And Storage Of Cable Guide Railing.....	8.38	
34 71 13 26-0121 EA Install Stored Post For Cable Guide Railing.....	68.02	
34 71 13 26-0122 LF Install Stored Cable, (Each Cable).....	3.70	
<i>Note: Includes retensioning. Excludes splices.</i>		
34 71 13 26-0123 6" x 6" Box Beam Guide Rail <small>(34 71 13 26)</small>		
34 71 13 26-0124 Box Beam Guide Rail, 6" x 6" <small>(34 71 13 26-0123)</small>		
34 71 13 26-0125 Straight Sections, Box Beam Guide Rail <small>(34 71 13 26-0124)</small>		
34 71 13 26-0126 LF Box Beam Guide Railing 6" x 6" x 3/16" Galvanized.....	51.19	2.62
<i>Note: Excludes splices.</i>		
<i>For Flush Mounting Directly To Structure, Add</i>		
	1.83	
34 71 13 26-0127 LF Box Beam Guide Railing 6" x 6" x 3/16" (Rustic).....	58.17	2.62
<i>Note: Excludes splices.</i>		
<i>For Flush Mounting Directly To Structure, Add</i>		
	1.83	
34 71 13 26-0128 Shop Curved, Box Beam Guide Rail <small>(34 71 13 26-0124)</small>		
34 71 13 26-0129 LF Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" Galvanized.....	77.95	2.62
<i>Note: Excludes splices.</i>		
<i>For Shop Curved At <20' Radius, Add</i>		
	2.44	
<i>For Flush Mounting Directly To Structure, Add</i>		
	1.83	
34 71 13 26-0130 LF Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" (Rustic).....	84.93	2.62
<i>Note: Excludes splices.</i>		
<i>For Shop Curved At <20' Radius, Add</i>		
	2.44	
<i>For Flush Mounting Directly To Structure, Add</i>		
	1.83	
34 71 13 26-0131 Box Beam Guide Rail End Treatment Sections <small>(34 71 13 26-0123)</small>		
<i>Note: Includes rail, end cover plate and hardware only. Excludes posts and splice.</i>		
34 71 13 26-0132 EA Box Beam End Piece Guide Railing Section.....	805.03	31.21
<i>Note: Galvanized excludes splices.</i>		
34 71 13 26-0133 EA Box Beam End Piece Guide Railing Section (Rustic).....	889.01	31.21
<i>Note: Excludes splices.</i>		
34 71 13 26-0134 EA Box Beam Guide Railing End Treatment Section At Driveway, Galvanized.....	759.22	31.21
<i>Note: Excludes splices.</i>		
34 71 13 26-0135 EA Box Beam Guide Railing End Treatment Section At Driveway, (Rustic).....	789.76	31.21
<i>Note: Excludes splices.</i>		
34 71 13 26-0136 Splices For Box Beam Guide Rail <small>(34 71 13 26-0123)</small>		
34 71 13 26-0137 EA Splice For Box Beam Guide Rail.....	207.18	46.33
34 71 13 26-0138 EA Splice For Box Beam Guide Rail (Rustic).....	260.62	46.33
34 71 13 26-0139 Box Beam Guide Rail Posts <small>(34 71 13 26-0123)</small>		
<i>Note: Includes hardware for box beam mounting.</i>		
34 71 13 26-0140 EA Standard Post For Box Beam Guide Rail.....	190.17	51.01
<i>For Installation Without Soil Plate, Deduct</i>		
	-5.00	
<i>For Installation In Rock, Add</i>		
	13.60	
34 71 13 26-0141 EA Standard Post (Rustic) for Box Beam Guide Railing.....	197.80	51.01
<i>For Installation Without Soil Plate, Deduct</i>		
	-5.00	
<i>For Installation In Rock, Add</i>		
	13.60	
34 71 13 26-0142 EA Extra Long Post For Box Beam Guide Rail.....	205.44	51.01
<i>For Installation Without Soil Plate, Deduct</i>		
	-5.00	
<i>For Installation In Rock, Add</i>		
	13.60	
34 71 13 26-0143 EA Extra Long Post (Rustic) For Box Beam Guide Rail.....	213.07	51.01
<i>For Installation Without Soil Plate, Deduct</i>		
	-5.00	
<i>For Installation In Rock, Add</i>		
	13.60	
34 71 13 26-0144 EA Type I End Assembly Post.....	182.53	51.01
<i>For Installation Without Soil Plate, Deduct</i>		
	-5.00	
<i>For Installation In Rock, Add</i>		
	13.60	
34 71 13 26-0145 EA Type I End Assembly Post (Rustic).....	190.17	51.01
<i>For Installation Without Soil Plate, Deduct</i>		
	-5.00	
<i>For Installation In Rock, Add</i>		
	13.60	
34 71 13 26-0146 EA Type II End Assembly Post.....	174.90	51.01
<i>For Installation Without Soil Plate, Deduct</i>		
	-5.00	
<i>For Installation In Rock, Add</i>		
	13.60	
34 71 13 26-0147 EA Type II End Assembly Post (Rustic).....	182.53	51.01
<i>For Installation Without Soil Plate, Deduct</i>		
	-5.00	
<i>For Installation In Rock, Add</i>		
	13.60	
34 71 13 26-0148 Box Beam Guide Rail Accessories <small>(34 71 13 26-0123)</small>		
34 71 13 26-0149 EA Box Beam Guide Rail End Cover Plate.....	104.09	9.36
34 71 13 26-0150 EA Box Beam Guide Rail End Cover Plate (Rustic).....	111.72	9.36

34 Transportation
34 70 Transportation Construction and Equipment
34 71 Roadway Construction



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0151			Box Beam Guide Railing Repair, And Resetting (34 71 13 26-0123) Note: For existing guide rail.		
34 71 13 26-0152	LF		Removal And Storage Of Box Beam Guide Rail And Post	4.11	
34 71 13 26-0153	LF		Reset Box Beam Guide Rail	12.00	
34 71 13 26-0154			6" x 8" Box Beam Median Barrier (34 71 13 26)		
34 71 13 26-0155			Box Beam Median Barrier, 6" x 8" (34 71 13 26-0154)		
34 71 13 26-0156			Straight Sections, Box Beam Median Barrier (34 71 13 26-0155)		
34 71 13 26-0157	LF		Box Beam Median Barrier Galvanized Excludes Splices	85.78	9.36
			<i>For Flush Mounting Directly To Structure, Add</i>	1.83	
34 71 13 26-0158	LF		Box Beam Median Barrier (Rustic) Excludes Splices.....	92.76	9.36
			<i>For Flush Mounting Directly To Structure, Add</i>	1.83	
34 71 13 26-0159			Shop Curved, Box Beam Median Barrier (34 71 13 26-0155)		
34 71 13 26-0160	LF		Shop Curved Box Beam Median Barrier Galvanized	104.12	9.36
			Note: Excludes splices.		
			<i>For Shop Curved At <20' Radius, Add</i>	2.44	
			<i>For Flush Mounting Directly To Structure, Add</i>	1.83	
34 71 13 26-0161	LF		Shop Curved Box Beam Median Barrier Rustic	127.03	9.36
			Note: Excludes splices.		
			<i>For Shop Curved At <20' Radius, Add</i>	2.44	
			<i>For Flush Mounting Directly To Structure, Add</i>	1.83	
34 71 13 26-0162			Box Beam Median Barrier End Treatment Sections (34 71 13 26-0154) Note: Includes rail, end cover plate and hardware. Excludes posts.		
34 71 13 26-0163	EA		Box Beam Median Barrier Type A End Treatment Section, Galvanized	2,629.60	31.21
			Note: Excludes splices and post.		
34 71 13 26-0164	EA		Box Beam Median Barrier Type A End Treatment Section (Rustic).....	2,690.68	31.21
			Note: Excludes splices and post.		
34 71 13 26-0165	EA		Box Beam Median Barrier Type B End Treatment Section, Galvanized	2,629.60	31.21
			Note: Excludes splices and post.		
34 71 13 26-0166	EA		Box Beam Median Barrier Type B End Treatment Section (Rustic).....	2,690.68	31.21
			Note: Excludes splices and post.		
34 71 13 26-0167			Splices For Box Beam Median Barrier (34 71 13 26-0154)		
34 71 13 26-0168	EA		Splice for Box Beam Median Barrier	201.24	24.97
34 71 13 26-0169	EA		Splice for Box Beam Median Barrier (Rustic).....	315.76	24.97
34 71 13 26-0170			Box Beam Median Barrier Posts Driven With Soil Plate (34 71 13 26-0154) Note: Includes all associated hardware.		
34 71 13 26-0171	EA		Standard Post for Box Beam Median Barrier	190.17	51.01
			<i>For Installation Without Soil Plate, Deduct</i>	-5.00	
			<i>For Installation In Rock, Add</i>	13.60	
34 71 13 26-0172	EA		Standard Post (Rustic) for Box Beam Median Barrier.....	197.80	51.01
			<i>For Installation Without Soil Plate, Deduct</i>	-5.00	
			<i>For Installation In Rock, Add</i>	13.60	
34 71 13 26-0173	EA		Extra Long Post for Box Beam Median Barrier	205.44	51.01
			<i>For Installation Without Soil Plate, Deduct</i>	-5.00	
			<i>For Installation In Rock, Add</i>	13.60	
34 71 13 26-0174	EA		Extra Long Post (Rustic) for Box Beam Median Barrier	213.07	51.01
			<i>For Installation Without Soil Plate, Deduct</i>	-5.00	
			<i>For Installation In Rock, Add</i>	13.60	
34 71 13 26-0175	EA		Type B End Treatment or Rub Back Anchor Post for Box Beam.....	174.90	51.01
			Note: For median barrier.		
			<i>For Installation Without Soil Plate, Deduct</i>	-5.00	
			<i>For Installation In Rock, Add</i>	13.60	
34 71 13 26-0176	EA		Type B End Treatment or Rub Back Anchor Post (Rustic)	174.90	51.01
			Note: For box beam median barrier.		
			<i>For Installation Without Soil Plate, Deduct</i>	-5.00	
			<i>For Installation In Rock, Add</i>	13.60	
34 71 13 26-0177	EA		Type I End Assembly Post for Box Beam Median Barrier to Concrete	205.44	51.01
			Note: For median barrier transition.		
			<i>For Installation Without Soil Plate, Deduct</i>	-5.00	
			<i>For Installation In Rock, Add</i>	13.60	
34 71 13 26-0178	EA		Type I End Assembly Post (Rustic) for Box Beam Median Barrier.....	213.07	51.01
			Note: For Concrete median barrier transition.		
			<i>For Installation Without Soil Plate, Deduct</i>	-5.00	
			<i>For Installation In Rock, Add</i>	13.60	
34 71 13 26-0179			Box Beam Median Barrier Accessories (34 71 13 26-0154)		
34 71 13 26-0180	EA		Box Beam Median Barrier End Cover Plate.....	128.72	21.98
34 71 13 26-0181	EA		Box Beam Median Barrier End Cover Plate (Rustic).....	136.35	21.98



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0182 Box Beam Median Barrier Repair, And Resetting <small>(34 71 13 26-0154)</small>		
<i>Note: For existing guide rail.</i>		
34 71 13 26-0183 LF Removal And Storage Of Box Beam Median Barrier and Posts	4.25	
34 71 13 26-0184 LF Reset Box Beam Median Barrier	12.57	
34 71 13 26-0185 Universal Guide Rail Items <small>(34 71 13 26)</small>		
34 71 13 26-0186 Guide Rail Concrete Anchor Units For All Types Of Guide Rail <small>(34 71 13 26-0185)</small>		
<i>Note: For cast in place or precast. Includes excavation, formwork, concrete, reinforcement, anchor rods and/or imbedded plate. Excludes anchor angle. For anchor angles and other terminal connections, use accessories section for respective guide rail type.</i>		
34 71 13 26-0187 CY Guide Rail Concrete Anchor Unit.....	731.01	
<i>For Each Additional Set Of Anchor Rods, Add</i>		
34 71 13 26-0188 EA Reset Existing Anchorage Unit For All Types Of Guide Rail.....	38.00	
<i>Note: Includes excavation and backfill.</i>		
34 71 13 26-0189 EA Removal Of Guide Rail Concrete Anchor Unit.....	558.24	
34 71 13 26-0190 Guide Rail Repair For All Types Of Existing Guide Rail <small>(34 71 13 26-0185)</small>		
<i>Note: Includes associated hardware.</i>		
34 71 13 26-0191 EA Straighten And Reset Driven Post For Guide Rail	68.02	
34 71 13 26-0192 EA Straighten And Reset Post Mounted On Concrete For Guide Rail	79.01	
<i>Note: With base plate for guide rail. Includes new anchor bolts.</i>		
34 71 13 26-0193 Additional Wood and Steel Posts <small>(34 71 13 26-0185)</small>		
34 71 13 26-0194 LF 4" x 6" Wood Post.....	58.98	17.04
<i>For Installation In Rock, Add</i>		
	4.54	
34 71 13 26-0195 LF 6" x 8" Wood Post.....	70.43	17.04
<i>For Installation In Rock, Add</i>		
	4.54	
34 71 13 26-0196 LF 6" x 7/8" Galvanized Steel Post	44.35	17.04
<i>For Installation In Rock, Add</i>		
	4.54	
34 71 13 26-0197 EA Base Plate With Anchor Bolts For Mounting Post On Concrete.....	409.42	17.04
34 71 13 26-0198 Accessories For All Types of Guide Rail <small>(34 71 13 26-0185)</small>		
34 71 13 26-0199 EA Reflector For Guard Rail.....	49.30	
34 71 13 26-0200 Resilient Guard Fence And Light Shield <small>(34 71 13 26)</small>		
34 71 13 26-0201 LF Resilient Guard Fence And Light Shield, Up To 6' High	81.41	6.36
34 71 13 26-0202 Individual Concrete Guard Rail Posts <small>(34 71 13 26)</small>		
34 71 13 26-0203 EA 6'-5" Concrete Guard Rail Posts, Round.....	87.72	6.36
34 71 13 26-0204 EA 6'-5" Concrete Posts, Square.....	98.05	7.15
34 71 13 26-0205 EA 6'-5" Concrete Posts, Triangular.....	95.35	7.15
34 71 13 26-0206 Guide Rail Transitions <small>(34 71 13 26)</small>		
34 71 13 26-0207 Transition Box Beam Guide Rail To Corrugated Beam <small>(34 71 13 26-0206)</small>		
34 71 13 26-0208 EA Box Beam To Corrugated Beam Rail Bolted Section.....	736.06	
34 71 13 26-0209 EA Box Beam To Corrugated Beam Rail Bolted Plate	430.69	
<i>Note: For making cable connections.</i>		
34 71 13 26-0210 Transition Box Beam Median Barrier To Corrugated Beam Median <small>(34 71 13 26-0206)</small>		
34 71 13 26-0211 EA Box Beam Median Barrier To Corrugated Beam Bolted Section	751.33	
34 71 13 26-0212 EA Box Beam Median Barrier To Corrugated Beam Harness Plate	430.69	
<i>Note: For making cable connections.</i>		
34 71 13 26-0213 Transition Box Beam Guide Rail To Cable Guide Rail <small>(34 71 13 26-0206)</small>		
34 71 13 26-0214 EA Box Beam to Cable Guide Rail U-bolt And Plate	104.14	16.65
34 71 13 26-0215 Transition Box Beam Median Barrier To Concrete Median Barrier <small>(34 71 13 26-0206)</small>		
34 71 13 26-0216 EA Box Beam Median Barrier To Concrete Barrier End Connection.....	1,041.43	
34 71 13 26-0217 Transition Thrie Beam To Concrete Median Barrier <small>(34 71 13 26-0206)</small>		
34 71 13 26-0218 EA Thrie Beam Terminal Connector At Concrete Median Barrier.....	659.72	
34 71 13 26-0219 EA Thrie Beam Transition Section To Corrugated Beam Guide Rail.....	850.57	
34 71 13 26-0220 Transition Railing (Monterey County) <small>(34 71 13 26)</small>		
<i>Note: Complete with rail, posts, transition and bolts.</i>		
34 71 13 26-0221 EA Transition Railing, Type WB-31 (Monterey County).....	3,051.74	2.08

34 Transportation**34 70 Transportation Construction and Equipment****34 71 Roadway Construction**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**34 71 16 Impact Attenuating Devices (34 71)**

34 71 16 00-0001		Guard Rail Energy Absorbing Terminals (34 71 16)		
		Note: Crushable foam cartridges surrounded by steel guardrail for narrow hazards. QuadGuard System as manufactured by Energy Absorption Systems, Inc.		
34 71 16 00-0002		24" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0003	EA	24" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	33,574.95	3,362.39
34 71 16 00-0004	EA	24" Wide, 5 Cartridge, Bays Energy Absorbing Crash Attenuator	46,640.84	4,483.18
34 71 16 00-0005	EA	24" Wide, 7 Cartridge, Bays Energy Absorbing Crash Attenuator	63,668.40	5,884.17
34 71 16 00-0006	EA	24" Wide, 9 Cartridge, Bays Energy Absorbing Crash Attenuator	70,722.31	7,285.17
34 71 16 00-0007		30" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0008	EA	30" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	36,143.70	3,782.69
34 71 16 00-0009	EA	30" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	50,362.43	5,043.58
34 71 16 00-0010	EA	30" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	69,132.03	6,724.77
34 71 16 00-0011	EA	30" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	79,146.59	8,125.76
34 71 16 00-0012		36" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0013	EA	36" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	38,742.35	4,202.98
34 71 16 00-0014	EA	36" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	54,113.21	5,603.98
34 71 16 00-0015	EA	36" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	74,006.94	7,425.27
34 71 16 00-0016	EA	36" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	87,540.06	8,966.35
34 71 16 00-0017		69" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0018	EA	69" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	41,948.27	4,623.28
34 71 16 00-0019	EA	69" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	58,100.71	6,164.38
34 71 16 00-0020	EA	69" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	79,827.29	8,125.76
34 71 16 00-0021	EA	69" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	93,978.94	9,806.96
34 71 16 00-0022		90" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0023	EA	90" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	45,242.32	5,043.58
34 71 16 00-0024	EA	90" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	62,191.77	6,724.77
34 71 16 00-0025	EA	90" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	86,415.41	8,966.35
34 71 16 00-0026	EA	90" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	100,599.63	10,647.55

34 71 19 Vehicle Delineators (34 71)**34 71 19 16 Flexible Vehicle Delineators (34 71 19)**

34 71 19 16-0001	EA	2' High, 3" Diameter Flexible Fixed Stanchion Delineator	86.49	7.94
34 71 19 16-0002	EA	3' High, 3" Diameter Flexible Fixed Stanchion Delineator	87.75	7.94
34 71 19 16-0003	EA	3-1/2' High, 3" Diameter Flexible Fixed Stanchion Delineator	89.00	7.94
34 71 19 16-0004	EA	4' High, 3" Diameter Flexible Fixed Stanchion Delineator	90.26	7.94

34 80 Bridges (34)**34 82 Bridge Specialties (34 80)****34 82 23 Bridge Railing (34 82)**

34 82 23 00-0001		Metal Bridge Railing (34 82 23)		
		Note: Includes hardware for bridge rail mounting.		
34 82 23 00-0002	LF	2" x 2" x 1/8" Bridge Railing	38.32	3.53
34 82 23 00-0003	LF	3" x 3" x 5/16" Bridge Railing	66.35	5.50
34 82 23 00-0004	LF	5" x 3" x 1/4" Bridge Railing	84.95	8.06
34 82 23 00-0005	LF	6" x 6" x 3/16" Bridge Railing	112.38	10.15
34 82 23 00-0006	LF	5" Outside Diameter x 1/4" Bridge Railing	90.64	7.83
34 82 23 00-0007		Bridge Post (34 82 23)		
		Note: Includes hardware for bridge post mounting.		
34 82 23 00-0008	EA	6" x 9" x 5'-6" Bridge Post	154.45	44.28
34 82 23 00-0009	EA	6" x 9" x 7" Bridge Post	192.83	47.05
34 82 23 00-0010	EA	Two Rail With Base Plate Bridge Post Assembly	446.40	83.03
34 82 23 00-0011	EA	Two Rail With Curb Bridge Post Assembly	549.34	88.56
34 82 23 00-0012	EA	Two Rail (Curbless) Bridge Post Assembly	500.59	88.56
34 82 23 00-0013	EA	Two Rail With Optional Handrail Bridge Post Assembly	604.37	88.56
34 82 23 00-0014	EA	Three Rail With Base Plate Bridge Post Assembly	462.53	88.56
34 82 23 00-0015	EA	Three Rail With Curb Bridge Post Assembly	632.69	91.33
34 82 23 00-0016	EA	Three Rail (Curbless) Bridge Post Assembly	619.83	91.33
34 82 23 00-0017	EA	Three Rail With Optional Handrail Bridge Post Assembly	765.78	91.33
34 82 23 00-0018	EA	Four Rail (Curbless) With Base Plate Bridge Post	514.71	94.10
34 82 23 00-0019	EA	Four Rail With Base Plate (Sidewalk Type) Bridge Post	514.85	94.10



Transportation	34
Bridges	34 80
Bridge Specialties	34 82

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 82 23 00-0020 EA Four Rail With Curb Bridge Post Assembly	775.69	94.10
34 82 23 00-0021 EA Four Rail (Curbless) Bridge Post Assembly.....	796.89	94.10
34 82 23 00-0022 EA Five Rail With Base Plate (Curbless) Bridge Post Assembly	573.00	99.64
34 82 23 00-0023 Bridge Railing Splices (34 82 23)		
Note: Includes hardware for splices.		
34 82 23 00-0024 EA 5" Outside Diameter Bridge Railing Splice.....	238.88	21.21
34 82 23 00-0025 EA 5" x 3" Bridge Railing Splice	141.29	18.56
34 82 23 00-0026 EA 3" x 3" Bridge Railing Splice	86.70	13.26
34 82 23 00-0027 EA 2" x 2" Bridge Railing Splice	43.78	9.54
34 82 23 00-0028 EA 5" x 5" x 3' Expansion Splice Tube	180.80	20.51
34 82 23 00-0029 EA 4" x 2" x 3' Expansion Splice Bar	192.71	20.51
34 82 23 00-0030 EA 5" x 5" x 2' Fixed Splice Tube	165.13	20.51
34 82 23 00-0031 EA 4" x 2" x 2' Fixed Splice Bar.....	169.43	20.51
34 82 23 00-0032 EA 6" x 6" x 3/16" Box x 9' Flare Tube.....	244.13	27.70
34 82 23 00-0033 Transition For Bridge Railing (34 82 23)		
Note: Includes hardware for transition for bridge railing.		
34 82 23 00-0034 EA Two Rail Box Beam To Bridge Transition With Splices	996.84	110.71
34 82 23 00-0035 EA Three Rail Box Beam To Bridge Transition With Splices.....	1,060.92	116.23
34 82 23 00-0036 EA Four Rail Box Beam To Bridge Transition With Splices.....	1,237.86	121.77
34 82 23 00-0037 EA 6" x 6" x 16-1/2' Bottom Transition Tube.....	420.67	55.35
34 82 23 00-0038 EA 6" x 6" x 22' Bottom Transition Tube.....	518.98	60.88
34 82 23 00-0039 EA 8" x 6" x 16-1/2' Bottom Transition Tube.....	490.80	55.35
34 82 23 00-0040 EA 6" x 6" x 16-1/2' Top Transition Tube.....	431.21	55.35
34 82 23 00-0041 EA 6" x 6" x 21-1/2' Top Transition Tube.....	510.28	60.88
34 82 23 00-0042 EA 8" x 6" x 16-1/2' Top Transition Tube.....	503.88	55.35
34 82 23 00-0043 EA 6" x 6" x 16-1/2' Middle Transition Tube	406.21	55.35
34 82 23 00-0044 EA 8" x 6" x 16-1/2' Middle Transition Tube	497.34	55.35
34 82 23 00-0045 Anchor Plates And End Caps For Bridge Railing (34 82 23)		
34 82 23 00-0046 EA 14" x 14" Bridge Railing Anchor Plate.....	44.46	5.31
34 82 23 00-0047 EA 18" x 22" Deck Anchor Plate.....	268.45	26.52
34 82 23 00-0048 EA 2" x 2" Bridge Railing End Cap	36.13	2.66
34 82 23 00-0049 EA 3" x 3" Bridge Railing End Cap	22.59	2.66
34 82 23 00-0050 EA 5" O.D Bridge Railing End Cap.....	22.43	2.66
34 82 26 Bridge Slope Protection (34 82)		
34 82 26 00-0001 Bridge Slope Protection (34 82 26)		
Note: Solid concrete masonry unit installed in sand bedding.		
34 82 26 00-0002 SF 8" x 16" x 4" Solid Concrete Block, Bridge Slope Protection.....	14.00	5.27
34 82 26 00-0003 SF 8" x 16" x 6" Solid Concrete Block, Bridge Slope Protection.....	16.78	5.81
34 82 26 00-0004 SF 8" x 16" x 8" Solid Concrete Block, Bridge Slope Protection.....	18.60	6.17

END OF SECTION 34

34 Transportation

34 80 Bridges

34 82 Bridge Specialties



MINOR	DESCRIPTION
CSI	UOM

TOTAL DIRECT	DEMOLITION
UNIT COST	UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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35 Waterway and Marine Construction

35 05 Common Work Results for Waterway and Marine Construction⁽³⁵⁾

35 05 70 Common Work Results for Dams^(35 05)

35 05 70 00-0001 Rubber Dam Repair^(35 05 70)

35 05 70 00-0002	EA	Class A Rubber Dam Repair (Bullet And Similar Holes).....	35.16
35 05 70 00-0003	SF	Class B Rubber Dam Repair (Minor Surface Rubber Damage).....	70.53
35 05 70 00-0004	SF	Class C Rubber Dam Repair (Major Surface Rubber Damage).....	102.90
35 05 70 00-0005	SF	Class D Rubber Dam Repair (Serious Surface Rubber Damage), Per Layer Of Material	115.23

END OF SECTION 35

35 Waterway and Marine Construction

35 05 Common Work Results for Waterway and Marine Construction

35 05 70 Common Work Results for Dams



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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40 Process Interconnections

40 05 Common Work Results For Process Interconnections ⁽⁴⁰⁾

40 05 19 Ductile Iron Process Pipe ^(40 05)

40 05 19 00-0001	Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Piping ^(40 05 19) <small>Note: C110 Fittings, 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes. Pipe barrels conform to ANSI/AWWA C151/A21.51. The bolt holes are aligned per ANSI/AWWA C115/A21.15. Flanged fittings conform to ANSI/AWWA C110/A21.10. Interiors shall be cement lined in accordance with ANSI/AWWA C104/A21.04. Exterior shall be bituminous coating, in accordance with ANSI/AWWA C104/A21.04. See CSI section 40 05 19 00-2059 for bolts, 40 05 19 00-2074 for gaskets.</small>		
40 05 19 00-0002	Flanged End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ^(40 05 19 00-0001)		
40 05 19 00-0003	4" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ^(40 05 19 00-0002)		
40 05 19 00-0004	EA 4" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	788.88	219.10
	For Class 52 Rating, Deduct	-50.26	
	For Class 54 Rating, Add	72.52	
	For Class 55 Rating, Add	109.86	
	For Class 56 Rating, Add	146.74	
40 05 19 00-0005	EA 4" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	843.57	222.93
	For Class 52 Rating, Deduct	-55.64	
	For Class 54 Rating, Add	79.92	
	For Class 55 Rating, Add	120.90	
	For Class 56 Rating, Add	161.37	
40 05 19 00-0006	EA 4" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	898.26	226.76
	For Class 52 Rating, Deduct	-61.02	
	For Class 54 Rating, Add	87.33	
	For Class 55 Rating, Add	131.94	
	For Class 56 Rating, Add	176.00	
40 05 19 00-0007	EA 4" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	952.96	230.59
	For Class 52 Rating, Deduct	-66.39	
	For Class 54 Rating, Add	94.73	
	For Class 55 Rating, Add	142.98	
	For Class 56 Rating, Add	190.63	
40 05 19 00-0008	EA 4" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,007.65	234.41
	For Class 52 Rating, Deduct	-71.77	
	For Class 54 Rating, Add	102.13	
	For Class 55 Rating, Add	154.03	
	For Class 56 Rating, Add	205.27	
40 05 19 00-0009	EA 4" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,062.35	238.24
	For Class 52 Rating, Deduct	-77.15	
	For Class 54 Rating, Add	109.54	
	For Class 55 Rating, Add	165.07	
	For Class 56 Rating, Add	219.90	
40 05 19 00-0010	EA 4" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,117.04	242.08
	For Class 52 Rating, Deduct	-82.53	
	For Class 54 Rating, Add	116.94	
	For Class 55 Rating, Add	176.11	
	For Class 56 Rating, Add	234.53	
40 05 19 00-0011	EA 4" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,171.73	245.91
	For Class 52 Rating, Deduct	-87.91	
	For Class 54 Rating, Add	124.34	
	For Class 55 Rating, Add	187.15	
	For Class 56 Rating, Add	249.16	
40 05 19 00-0012	EA 4" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,226.42	249.74
	For Class 52 Rating, Deduct	-93.28	
	For Class 54 Rating, Add	131.74	
	For Class 55 Rating, Add	198.19	
	For Class 56 Rating, Add	263.79	
40 05 19 00-0013	EA 4" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,281.11	253.57
	For Class 52 Rating, Deduct	-98.66	
	For Class 54 Rating, Add	139.15	
	For Class 55 Rating, Add	209.23	
	For Class 56 Rating, Add	278.42	
40 05 19 00-0014	EA 4" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,335.80	257.40
	For Class 52 Rating, Deduct	-104.04	
	For Class 54 Rating, Add	146.55	
	For Class 55 Rating, Add	220.27	
	For Class 56 Rating, Add	293.05	
40 05 19 00-0015	EA 4" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,390.50	261.23
	For Class 52 Rating, Deduct	-109.42	
	For Class 54 Rating, Add	153.95	
	For Class 55 Rating, Add	231.32	
	For Class 56 Rating, Add	307.68	
40 05 19 00-0016	EA 4" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,445.19	265.06
	For Class 52 Rating, Deduct	-114.79	
	For Class 54 Rating, Add	161.36	
	For Class 55 Rating, Add	242.36	
	For Class 56 Rating, Add	322.31	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0017 EA 4" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,499.88	268.89
For Class 52 Rating, Deduct	-120.17	
For Class 54 Rating, Add	168.76	
For Class 55 Rating, Add	253.40	
For Class 56 Rating, Add	336.95	
40 05 19 00-0018 EA 4" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,554.57	272.72
For Class 52 Rating, Deduct	-125.55	
For Class 54 Rating, Add	176.16	
For Class 55 Rating, Add	264.44	
For Class 56 Rating, Add	351.57	
40 05 19 00-0019 EA 4" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,609.26	276.55
For Class 52 Rating, Deduct	-130.93	
For Class 54 Rating, Add	183.56	
For Class 55 Rating, Add	275.48	
For Class 56 Rating, Add	366.21	
40 05 19 00-0020 EA 4" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,653.95	280.39
For Class 52 Rating, Deduct	-136.30	
For Class 54 Rating, Add	190.97	
For Class 55 Rating, Add	286.52	
For Class 56 Rating, Add	380.84	
40 05 19 00-0021 EA 4" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,718.65	284.22
For Class 52 Rating, Deduct	-141.68	
For Class 54 Rating, Add	198.37	
For Class 55 Rating, Add	297.56	
For Class 56 Rating, Add	395.47	
40 05 19 00-0022 EA 4" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,773.34	288.04
For Class 52 Rating, Deduct	-147.06	
For Class 54 Rating, Add	205.77	
For Class 55 Rating, Add	308.61	
For Class 56 Rating, Add	410.10	
40 05 19 00-0023 EA 4" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,828.03	291.87
For Class 52 Rating, Deduct	-152.44	
For Class 54 Rating, Add	213.18	
For Class 55 Rating, Add	319.65	
For Class 56 Rating, Add	424.73	
40 05 19 00-0024 EA 4" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,882.72	295.70
For Class 52 Rating, Deduct	-157.81	
For Class 54 Rating, Add	220.58	
For Class 55 Rating, Add	330.69	
For Class 56 Rating, Add	439.36	
40 05 19 00-0025 EA 4" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,937.41	299.53
For Class 52 Rating, Deduct	-163.19	
For Class 54 Rating, Add	227.98	
For Class 55 Rating, Add	341.73	
For Class 56 Rating, Add	453.99	
40 05 19 00-0026 EA 4" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,992.10	303.36
For Class 52 Rating, Deduct	-168.57	
For Class 54 Rating, Add	235.38	
For Class 55 Rating, Add	352.77	
For Class 56 Rating, Add	468.62	
40 05 19 00-0027 EA 4" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,046.80	307.19
For Class 52 Rating, Deduct	-173.95	
For Class 54 Rating, Add	242.79	
For Class 55 Rating, Add	363.81	
For Class 56 Rating, Add	483.25	
40 05 19 00-0028 EA 4" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,101.49	311.02
For Class 52 Rating, Deduct	-179.33	
For Class 54 Rating, Add	250.19	
For Class 55 Rating, Add	374.85	
For Class 56 Rating, Add	497.89	
40 05 19 00-0029 EA 4" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,156.18	314.85
For Class 52 Rating, Deduct	-184.70	
For Class 54 Rating, Add	257.59	
For Class 55 Rating, Add	385.90	
For Class 56 Rating, Add	512.52	
40 05 19 00-0030 EA 4" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,210.87	318.69
For Class 52 Rating, Deduct	-190.08	
For Class 54 Rating, Add	265.00	
For Class 55 Rating, Add	396.93	
For Class 56 Rating, Add	527.15	
40 05 19 00-0031 EA 4" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,265.56	322.52
For Class 52 Rating, Deduct	-195.46	
For Class 54 Rating, Add	272.40	
For Class 55 Rating, Add	407.98	
For Class 56 Rating, Add	541.78	
40 05 19 00-0032 EA 4" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,320.25	326.35
For Class 52 Rating, Deduct	-200.84	
For Class 54 Rating, Add	279.80	
For Class 55 Rating, Add	419.02	
For Class 56 Rating, Add	556.41	
40 05 19 00-0033 EA 4" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,374.95	330.18
For Class 52 Rating, Deduct	-206.21	
For Class 54 Rating, Add	287.21	
For Class 55 Rating, Add	430.06	
For Class 56 Rating, Add	571.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0034 EA 4" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,429.64	334.01
<i>For Class 52 Rating, Deduct</i>	-211.59	
<i>For Class 54 Rating, Add</i>	294.61	
<i>For Class 55 Rating, Add</i>	441.10	
<i>For Class 56 Rating, Add</i>	585.67	
40 05 19 00-0035 EA 4" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,484.33	337.84
<i>For Class 52 Rating, Deduct</i>	-216.97	
<i>For Class 54 Rating, Add</i>	302.01	
<i>For Class 55 Rating, Add</i>	452.14	
<i>For Class 56 Rating, Add</i>	600.30	
40 05 19 00-0036 EA 4" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,539.02	341.67
<i>For Class 52 Rating, Deduct</i>	-222.35	
<i>For Class 54 Rating, Add</i>	309.41	
<i>For Class 55 Rating, Add</i>	463.18	
<i>For Class 56 Rating, Add</i>	614.93	
40 05 19 00-0037 EA 4" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,593.71	345.49
<i>For Class 52 Rating, Deduct</i>	-227.73	
<i>For Class 54 Rating, Add</i>	316.82	
<i>For Class 55 Rating, Add</i>	474.22	
<i>For Class 56 Rating, Add</i>	629.56	
40 05 19 00-0038 EA 4" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,648.40	349.32
<i>For Class 52 Rating, Deduct</i>	-233.10	
<i>For Class 54 Rating, Add</i>	324.22	
<i>For Class 55 Rating, Add</i>	485.27	
<i>For Class 56 Rating, Add</i>	644.19	
40 05 19 00-0039 EA 4" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,703.10	353.16
<i>For Class 52 Rating, Deduct</i>	-238.48	
<i>For Class 54 Rating, Add</i>	331.62	
<i>For Class 55 Rating, Add</i>	496.31	
<i>For Class 56 Rating, Add</i>	658.83	
40 05 19 00-0040 EA 4" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,757.79	356.99
<i>For Class 52 Rating, Deduct</i>	-243.86	
<i>For Class 54 Rating, Add</i>	339.03	
<i>For Class 55 Rating, Add</i>	507.35	
<i>For Class 56 Rating, Add</i>	673.46	
40 05 19 00-0041 EA 4" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,812.48	360.82
<i>For Class 52 Rating, Deduct</i>	-249.24	
<i>For Class 54 Rating, Add</i>	346.43	
<i>For Class 55 Rating, Add</i>	518.39	
<i>For Class 56 Rating, Add</i>	688.09	
40 05 19 00-0042 EA 4" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,867.17	364.65
<i>For Class 52 Rating, Deduct</i>	-254.61	
<i>For Class 54 Rating, Add</i>	353.83	
<i>For Class 55 Rating, Add</i>	529.43	
<i>For Class 56 Rating, Add</i>	702.72	
40 05 19 00-0043 6" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0044 EA 6" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	998.87	275.78
<i>For Class 52 Rating, Deduct</i>	-63.91	
<i>For Class 54 Rating, Add</i>	92.17	
<i>For Class 55 Rating, Add</i>	139.60	
<i>For Class 56 Rating, Add</i>	186.44	
40 05 19 00-0045 EA 6" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,064.85	279.62
<i>For Class 52 Rating, Deduct</i>	-70.53	
<i>For Class 54 Rating, Add</i>	101.26	
<i>For Class 55 Rating, Add</i>	153.15	
<i>For Class 56 Rating, Add</i>	204.40	
40 05 19 00-0046 EA 6" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,130.82	283.45
<i>For Class 52 Rating, Deduct</i>	-77.15	
<i>For Class 54 Rating, Add</i>	110.36	
<i>For Class 55 Rating, Add</i>	166.71	
<i>For Class 56 Rating, Add</i>	222.36	
40 05 19 00-0047 EA 6" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,196.79	287.28
<i>For Class 52 Rating, Deduct</i>	-83.77	
<i>For Class 54 Rating, Add</i>	119.45	
<i>For Class 55 Rating, Add</i>	180.27	
<i>For Class 56 Rating, Add</i>	240.32	
40 05 19 00-0048 EA 6" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,262.77	291.11
<i>For Class 52 Rating, Deduct</i>	-90.39	
<i>For Class 54 Rating, Add</i>	128.55	
<i>For Class 55 Rating, Add</i>	193.82	
<i>For Class 56 Rating, Add</i>	258.28	
40 05 19 00-0049 EA 6" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,328.74	294.94
<i>For Class 52 Rating, Deduct</i>	-97.01	
<i>For Class 54 Rating, Add</i>	137.64	
<i>For Class 55 Rating, Add</i>	207.38	
<i>For Class 56 Rating, Add</i>	276.24	
40 05 19 00-0050 EA 6" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,394.71	298.77
<i>For Class 52 Rating, Deduct</i>	-103.62	
<i>For Class 54 Rating, Add</i>	146.74	
<i>For Class 55 Rating, Add</i>	220.94	
<i>For Class 56 Rating, Add</i>	294.20	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0051	EA		6" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,460.69	302.60
			<i>For Class 52 Rating, Deduct</i>	-110.24	
			<i>For Class 54 Rating, Add</i>	155.83	
			<i>For Class 55 Rating, Add</i>	234.50	
			<i>For Class 56 Rating, Add</i>	312.16	
40 05 19 00-0052	EA		6" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,526.66	306.43
			<i>For Class 52 Rating, Deduct</i>	-116.86	
			<i>For Class 54 Rating, Add</i>	164.93	
			<i>For Class 55 Rating, Add</i>	248.05	
			<i>For Class 56 Rating, Add</i>	330.12	
40 05 19 00-0053	EA		6" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,592.63	310.25
			<i>For Class 52 Rating, Deduct</i>	-123.48	
			<i>For Class 54 Rating, Add</i>	174.02	
			<i>For Class 55 Rating, Add</i>	261.61	
			<i>For Class 56 Rating, Add</i>	348.08	
40 05 19 00-0054	EA		6" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,658.62	314.08
			<i>For Class 52 Rating, Deduct</i>	-130.10	
			<i>For Class 54 Rating, Add</i>	183.12	
			<i>For Class 55 Rating, Add</i>	275.17	
			<i>For Class 56 Rating, Add</i>	366.03	
40 05 19 00-0055	EA		6" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,724.59	317.92
			<i>For Class 52 Rating, Deduct</i>	-136.72	
			<i>For Class 54 Rating, Add</i>	192.21	
			<i>For Class 55 Rating, Add</i>	288.73	
			<i>For Class 56 Rating, Add</i>	383.99	
40 05 19 00-0056	EA		6" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,790.56	321.75
			<i>For Class 52 Rating, Deduct</i>	-143.34	
			<i>For Class 54 Rating, Add</i>	201.31	
			<i>For Class 55 Rating, Add</i>	302.28	
			<i>For Class 56 Rating, Add</i>	401.95	
40 05 19 00-0057	EA		6" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,856.54	325.58
			<i>For Class 52 Rating, Deduct</i>	-149.96	
			<i>For Class 54 Rating, Add</i>	210.40	
			<i>For Class 55 Rating, Add</i>	315.84	
			<i>For Class 56 Rating, Add</i>	419.91	
40 05 19 00-0058	EA		6" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,922.51	329.41
			<i>For Class 52 Rating, Deduct</i>	-156.57	
			<i>For Class 54 Rating, Add</i>	219.50	
			<i>For Class 55 Rating, Add</i>	329.40	
			<i>For Class 56 Rating, Add</i>	437.87	
40 05 19 00-0059	EA		6" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,988.48	333.24
			<i>For Class 52 Rating, Deduct</i>	-163.19	
			<i>For Class 54 Rating, Add</i>	228.59	
			<i>For Class 55 Rating, Add</i>	342.95	
			<i>For Class 56 Rating, Add</i>	455.83	
40 05 19 00-0060	EA		6" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,054.46	337.07
			<i>For Class 52 Rating, Deduct</i>	-169.81	
			<i>For Class 54 Rating, Add</i>	237.69	
			<i>For Class 55 Rating, Add</i>	356.51	
			<i>For Class 56 Rating, Add</i>	473.79	
40 05 19 00-0061	EA		6" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,120.43	340.90
			<i>For Class 52 Rating, Deduct</i>	-176.43	
			<i>For Class 54 Rating, Add</i>	246.78	
			<i>For Class 55 Rating, Add</i>	370.07	
			<i>For Class 56 Rating, Add</i>	491.75	
40 05 19 00-0062	EA		6" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,186.40	344.73
			<i>For Class 52 Rating, Deduct</i>	-183.05	
			<i>For Class 54 Rating, Add</i>	255.88	
			<i>For Class 55 Rating, Add</i>	383.63	
			<i>For Class 56 Rating, Add</i>	509.71	
40 05 19 00-0063	EA		6" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,252.38	348.56
			<i>For Class 52 Rating, Deduct</i>	-189.67	
			<i>For Class 54 Rating, Add</i>	264.98	
			<i>For Class 55 Rating, Add</i>	397.18	
			<i>For Class 56 Rating, Add</i>	527.67	
40 05 19 00-0064	EA		6" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,318.35	352.40
			<i>For Class 52 Rating, Deduct</i>	-196.29	
			<i>For Class 54 Rating, Add</i>	274.07	
			<i>For Class 55 Rating, Add</i>	410.74	
			<i>For Class 56 Rating, Add</i>	545.63	
40 05 19 00-0065	EA		6" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,384.32	356.23
			<i>For Class 52 Rating, Deduct</i>	-202.90	
			<i>For Class 54 Rating, Add</i>	283.17	
			<i>For Class 55 Rating, Add</i>	424.30	
			<i>For Class 56 Rating, Add</i>	563.58	
40 05 19 00-0066	EA		6" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,450.30	360.06
			<i>For Class 52 Rating, Deduct</i>	-209.52	
			<i>For Class 54 Rating, Add</i>	292.26	
			<i>For Class 55 Rating, Add</i>	437.85	
			<i>For Class 56 Rating, Add</i>	581.54	
40 05 19 00-0067	EA		6" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,516.27	363.89
			<i>For Class 52 Rating, Deduct</i>	-216.14	
			<i>For Class 54 Rating, Add</i>	301.36	
			<i>For Class 55 Rating, Add</i>	451.41	
			<i>For Class 56 Rating, Add</i>	599.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0068 EA 6" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,582.24	367.71
<i>For Class 52 Rating, Deduct</i>	-222.76	
<i>For Class 54 Rating, Add</i>	310.45	
<i>For Class 55 Rating, Add</i>	464.97	
<i>For Class 56 Rating, Add</i>	617.46	
40 05 19 00-0069 EA 6" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,648.22	371.54
<i>For Class 52 Rating, Deduct</i>	-229.38	
<i>For Class 54 Rating, Add</i>	319.55	
<i>For Class 55 Rating, Add</i>	478.53	
<i>For Class 56 Rating, Add</i>	635.42	
40 05 19 00-0070 EA 6" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,714.20	375.37
<i>For Class 52 Rating, Deduct</i>	-236.00	
<i>For Class 54 Rating, Add</i>	328.64	
<i>For Class 55 Rating, Add</i>	492.09	
<i>For Class 56 Rating, Add</i>	653.38	
40 05 19 00-0071 EA 6" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,780.18	379.20
<i>For Class 52 Rating, Deduct</i>	-242.62	
<i>For Class 54 Rating, Add</i>	337.74	
<i>For Class 55 Rating, Add</i>	505.64	
<i>For Class 56 Rating, Add</i>	671.34	
40 05 19 00-0072 EA 6" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,846.15	383.03
<i>For Class 52 Rating, Deduct</i>	-249.24	
<i>For Class 54 Rating, Add</i>	346.83	
<i>For Class 55 Rating, Add</i>	519.20	
<i>For Class 56 Rating, Add</i>	689.30	
40 05 19 00-0073 EA 6" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,912.12	386.86
<i>For Class 52 Rating, Deduct</i>	-255.86	
<i>For Class 54 Rating, Add</i>	355.93	
<i>For Class 55 Rating, Add</i>	532.76	
<i>For Class 56 Rating, Add</i>	707.26	
40 05 19 00-0074 EA 6" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,978.10	390.70
<i>For Class 52 Rating, Deduct</i>	-262.47	
<i>For Class 54 Rating, Add</i>	365.02	
<i>For Class 55 Rating, Add</i>	546.31	
<i>For Class 56 Rating, Add</i>	725.22	
40 05 19 00-0075 EA 6" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,044.07	394.53
<i>For Class 52 Rating, Deduct</i>	-269.09	
<i>For Class 54 Rating, Add</i>	374.12	
<i>For Class 55 Rating, Add</i>	559.87	
<i>For Class 56 Rating, Add</i>	743.18	
40 05 19 00-0076 EA 6" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,110.04	398.36
<i>For Class 52 Rating, Deduct</i>	-275.71	
<i>For Class 54 Rating, Add</i>	383.21	
<i>For Class 55 Rating, Add</i>	573.43	
<i>For Class 56 Rating, Add</i>	761.14	
40 05 19 00-0077 EA 6" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,176.02	402.19
<i>For Class 52 Rating, Deduct</i>	-282.33	
<i>For Class 54 Rating, Add</i>	392.31	
<i>For Class 55 Rating, Add</i>	586.99	
<i>For Class 56 Rating, Add</i>	779.10	
40 05 19 00-0078 EA 6" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,241.99	406.02
<i>For Class 52 Rating, Deduct</i>	-288.95	
<i>For Class 54 Rating, Add</i>	401.40	
<i>For Class 55 Rating, Add</i>	600.54	
<i>For Class 56 Rating, Add</i>	797.06	
40 05 19 00-0079 EA 6" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,307.96	409.85
<i>For Class 52 Rating, Deduct</i>	-295.57	
<i>For Class 54 Rating, Add</i>	410.50	
<i>For Class 55 Rating, Add</i>	614.10	
<i>For Class 56 Rating, Add</i>	815.01	
40 05 19 00-0080 EA 6" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,373.94	413.68
<i>For Class 52 Rating, Deduct</i>	-302.19	
<i>For Class 54 Rating, Add</i>	419.59	
<i>For Class 55 Rating, Add</i>	627.66	
<i>For Class 56 Rating, Add</i>	832.97	
40 05 19 00-0081 EA 6" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,439.91	417.51
<i>For Class 52 Rating, Deduct</i>	-308.81	
<i>For Class 54 Rating, Add</i>	428.69	
<i>For Class 55 Rating, Add</i>	641.21	
<i>For Class 56 Rating, Add</i>	850.93	
40 05 19 00-0082 EA 6" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,505.88	421.34
<i>For Class 52 Rating, Deduct</i>	-315.42	
<i>For Class 54 Rating, Add</i>	437.78	
<i>For Class 55 Rating, Add</i>	654.77	
<i>For Class 56 Rating, Add</i>	868.89	
40 05 19 00-0083 8" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-0002)</small>		
40 05 19 00-0084 EA 8" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,389.48	352.40
<i>For Class 52 Rating, Deduct</i>	-94.11	
<i>For Class 54 Rating, Add</i>	134.74	
<i>For Class 55 Rating, Add</i>	203.60	
<i>For Class 56 Rating, Add</i>	271.61	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0085	EA	8" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,478.01	356.23
		<i>For Class 52 Rating, Deduct</i>	-103.21	
		<i>For Class 54 Rating, Add</i>	147.22	
		<i>For Class 55 Rating, Add</i>	222.19	
		<i>For Class 56 Rating, Add</i>	296.22	
40 05 19 00-0086	EA	8" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,566.55	360.06
		<i>For Class 52 Rating, Deduct</i>	-112.31	
		<i>For Class 54 Rating, Add</i>	159.70	
		<i>For Class 55 Rating, Add</i>	240.78	
		<i>For Class 56 Rating, Add</i>	320.84	
40 05 19 00-0087	EA	8" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,655.09	363.89
		<i>For Class 52 Rating, Deduct</i>	-121.41	
		<i>For Class 54 Rating, Add</i>	172.18	
		<i>For Class 55 Rating, Add</i>	259.37	
		<i>For Class 56 Rating, Add</i>	345.45	
40 05 19 00-0088	EA	8" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,743.62	367.71
		<i>For Class 52 Rating, Deduct</i>	-130.51	
		<i>For Class 54 Rating, Add</i>	184.66	
		<i>For Class 55 Rating, Add</i>	277.96	
		<i>For Class 56 Rating, Add</i>	370.07	
40 05 19 00-0089	EA	8" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,832.17	371.54
		<i>For Class 52 Rating, Deduct</i>	-139.61	
		<i>For Class 54 Rating, Add</i>	197.14	
		<i>For Class 55 Rating, Add</i>	296.55	
		<i>For Class 56 Rating, Add</i>	394.69	
40 05 19 00-0090	EA	8" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,920.70	375.37
		<i>For Class 52 Rating, Deduct</i>	-148.71	
		<i>For Class 54 Rating, Add</i>	209.62	
		<i>For Class 55 Rating, Add</i>	315.13	
		<i>For Class 56 Rating, Add</i>	419.30	
40 05 19 00-0091	EA	8" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,009.24	379.20
		<i>For Class 52 Rating, Deduct</i>	-157.81	
		<i>For Class 54 Rating, Add</i>	222.10	
		<i>For Class 55 Rating, Add</i>	333.72	
		<i>For Class 56 Rating, Add</i>	443.91	
40 05 19 00-0092	EA	8" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,097.78	383.03
		<i>For Class 52 Rating, Deduct</i>	-166.92	
		<i>For Class 54 Rating, Add</i>	234.58	
		<i>For Class 55 Rating, Add</i>	352.31	
		<i>For Class 56 Rating, Add</i>	468.53	
40 05 19 00-0093	EA	8" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,186.31	386.86
		<i>For Class 52 Rating, Deduct</i>	-176.02	
		<i>For Class 54 Rating, Add</i>	247.06	
		<i>For Class 55 Rating, Add</i>	370.90	
		<i>For Class 56 Rating, Add</i>	493.15	
40 05 19 00-0094	EA	8" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,274.86	390.70
		<i>For Class 52 Rating, Deduct</i>	-185.12	
		<i>For Class 54 Rating, Add</i>	259.54	
		<i>For Class 55 Rating, Add</i>	389.49	
		<i>For Class 56 Rating, Add</i>	517.76	
40 05 19 00-0095	EA	8" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,363.39	394.53
		<i>For Class 52 Rating, Deduct</i>	-194.22	
		<i>For Class 54 Rating, Add</i>	272.02	
		<i>For Class 55 Rating, Add</i>	408.08	
		<i>For Class 56 Rating, Add</i>	542.38	
40 05 19 00-0096	EA	8" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,451.92	398.36
		<i>For Class 52 Rating, Deduct</i>	-203.32	
		<i>For Class 54 Rating, Add</i>	284.50	
		<i>For Class 55 Rating, Add</i>	426.67	
		<i>For Class 56 Rating, Add</i>	566.99	
40 05 19 00-0097	EA	8" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,540.47	402.19
		<i>For Class 52 Rating, Deduct</i>	-212.42	
		<i>For Class 54 Rating, Add</i>	296.98	
		<i>For Class 55 Rating, Add</i>	445.26	
		<i>For Class 56 Rating, Add</i>	591.61	
40 05 19 00-0098	EA	8" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,629.00	406.02
		<i>For Class 52 Rating, Deduct</i>	-221.52	
		<i>For Class 54 Rating, Add</i>	309.46	
		<i>For Class 55 Rating, Add</i>	463.85	
		<i>For Class 56 Rating, Add</i>	616.22	
40 05 19 00-0099	EA	8" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,717.54	409.85
		<i>For Class 52 Rating, Deduct</i>	-230.62	
		<i>For Class 54 Rating, Add</i>	321.94	
		<i>For Class 55 Rating, Add</i>	482.44	
		<i>For Class 56 Rating, Add</i>	640.84	
40 05 19 00-0100	EA	8" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,806.08	413.68
		<i>For Class 52 Rating, Deduct</i>	-239.72	
		<i>For Class 54 Rating, Add</i>	334.41	
		<i>For Class 55 Rating, Add</i>	501.02	
		<i>For Class 56 Rating, Add</i>	665.45	
40 05 19 00-0101	EA	8" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,894.61	417.51
		<i>For Class 52 Rating, Deduct</i>	-248.82	
		<i>For Class 54 Rating, Add</i>	346.89	
		<i>For Class 55 Rating, Add</i>	519.61	
		<i>For Class 56 Rating, Add</i>	690.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0102 EA 8" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,983.15	421.34
<i>For Class 52 Rating, Deduct</i>	-257.92	
<i>For Class 54 Rating, Add</i>	359.37	
<i>For Class 55 Rating, Add</i>	538.20	
<i>For Class 56 Rating, Add</i>	714.69	
40 05 19 00-0103 EA 8" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,071.69	425.16
<i>For Class 52 Rating, Deduct</i>	-267.02	
<i>For Class 54 Rating, Add</i>	371.85	
<i>For Class 55 Rating, Add</i>	556.79	
<i>For Class 56 Rating, Add</i>	739.30	
40 05 19 00-0104 EA 8" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,160.23	429.00
<i>For Class 52 Rating, Deduct</i>	-276.13	
<i>For Class 54 Rating, Add</i>	384.33	
<i>For Class 55 Rating, Add</i>	575.38	
<i>For Class 56 Rating, Add</i>	763.92	
40 05 19 00-0105 EA 8" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,248.76	432.83
<i>For Class 52 Rating, Deduct</i>	-285.23	
<i>For Class 54 Rating, Add</i>	396.81	
<i>For Class 55 Rating, Add</i>	593.97	
<i>For Class 56 Rating, Add</i>	788.53	
40 05 19 00-0106 EA 8" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,337.31	436.66
<i>For Class 52 Rating, Deduct</i>	-294.33	
<i>For Class 54 Rating, Add</i>	409.29	
<i>For Class 55 Rating, Add</i>	612.56	
<i>For Class 56 Rating, Add</i>	813.15	
40 05 19 00-0107 EA 8" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,425.84	440.49
<i>For Class 52 Rating, Deduct</i>	-303.43	
<i>For Class 54 Rating, Add</i>	421.77	
<i>For Class 55 Rating, Add</i>	631.15	
<i>For Class 56 Rating, Add</i>	837.76	
40 05 19 00-0108 EA 8" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,514.37	444.32
<i>For Class 52 Rating, Deduct</i>	-312.53	
<i>For Class 54 Rating, Add</i>	434.25	
<i>For Class 55 Rating, Add</i>	649.74	
<i>For Class 56 Rating, Add</i>	862.38	
40 05 19 00-0109 EA 8" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,602.92	448.15
<i>For Class 52 Rating, Deduct</i>	-321.63	
<i>For Class 54 Rating, Add</i>	446.73	
<i>For Class 55 Rating, Add</i>	668.33	
<i>For Class 56 Rating, Add</i>	887.00	
40 05 19 00-0110 EA 8" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,691.45	451.98
<i>For Class 52 Rating, Deduct</i>	-330.73	
<i>For Class 54 Rating, Add</i>	459.21	
<i>For Class 55 Rating, Add</i>	686.91	
<i>For Class 56 Rating, Add</i>	911.61	
40 05 19 00-0111 EA 8" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,779.99	455.81
<i>For Class 52 Rating, Deduct</i>	-339.83	
<i>For Class 54 Rating, Add</i>	471.69	
<i>For Class 55 Rating, Add</i>	705.50	
<i>For Class 56 Rating, Add</i>	936.23	
40 05 19 00-0112 EA 8" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,868.53	459.64
<i>For Class 52 Rating, Deduct</i>	-348.93	
<i>For Class 54 Rating, Add</i>	484.17	
<i>For Class 55 Rating, Add</i>	724.09	
<i>For Class 56 Rating, Add</i>	960.84	
40 05 19 00-0113 EA 8" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,957.06	463.48
<i>For Class 52 Rating, Deduct</i>	-358.03	
<i>For Class 54 Rating, Add</i>	496.65	
<i>For Class 55 Rating, Add</i>	742.68	
<i>For Class 56 Rating, Add</i>	985.46	
40 05 19 00-0114 EA 8" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,045.60	467.31
<i>For Class 52 Rating, Deduct</i>	-367.13	
<i>For Class 54 Rating, Add</i>	509.13	
<i>For Class 55 Rating, Add</i>	761.27	
<i>For Class 56 Rating, Add</i>	1,010.07	
40 05 19 00-0115 EA 8" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,134.14	471.14
<i>For Class 52 Rating, Deduct</i>	-376.23	
<i>For Class 54 Rating, Add</i>	521.61	
<i>For Class 55 Rating, Add</i>	779.86	
<i>For Class 56 Rating, Add</i>	1,034.69	
40 05 19 00-0116 EA 8" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,222.68	474.97
<i>For Class 52 Rating, Deduct</i>	-385.33	
<i>For Class 54 Rating, Add</i>	534.09	
<i>For Class 55 Rating, Add</i>	798.45	
<i>For Class 56 Rating, Add</i>	1,059.30	
40 05 19 00-0117 EA 8" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,311.21	478.80
<i>For Class 52 Rating, Deduct</i>	-394.43	
<i>For Class 54 Rating, Add</i>	546.57	
<i>For Class 55 Rating, Add</i>	817.04	
<i>For Class 56 Rating, Add</i>	1,083.92	
40 05 19 00-0118 EA 8" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,399.75	482.62
<i>For Class 52 Rating, Deduct</i>	-403.54	
<i>For Class 54 Rating, Add</i>	559.05	
<i>For Class 55 Rating, Add</i>	835.63	
<i>For Class 56 Rating, Add</i>	1,108.53	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0119	EA		8" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,488.29	486.45
			<i>For Class 52 Rating, Deduct</i>	-412.64	
			<i>For Class 54 Rating, Add</i>	571.53	
			<i>For Class 55 Rating, Add</i>	854.22	
			<i>For Class 56 Rating, Add</i>	1,133.15	
40 05 19 00-0120	EA		8" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,576.82	490.28
			<i>For Class 52 Rating, Deduct</i>	-421.74	
			<i>For Class 54 Rating, Add</i>	584.01	
			<i>For Class 55 Rating, Add</i>	872.80	
			<i>For Class 56 Rating, Add</i>	1,157.76	
40 05 19 00-0121	EA		8" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,665.37	494.11
			<i>For Class 52 Rating, Deduct</i>	-430.84	
			<i>For Class 54 Rating, Add</i>	596.49	
			<i>For Class 55 Rating, Add</i>	891.39	
			<i>For Class 56 Rating, Add</i>	1,182.38	
40 05 19 00-0122	EA		8" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,753.90	497.94
			<i>For Class 52 Rating, Deduct</i>	-439.94	
			<i>For Class 54 Rating, Add</i>	608.97	
			<i>For Class 55 Rating, Add</i>	909.98	
			<i>For Class 56 Rating, Add</i>	1,207.00	
40 05 19 00-0123			10" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0124	EA		10" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,748.11	429.00
			<i>For Class 52 Rating, Deduct</i>	-120.79	
			<i>For Class 54 Rating, Add</i>	172.52	
			<i>For Class 55 Rating, Add</i>	260.48	
			<i>For Class 56 Rating, Add</i>	347.34	
40 05 19 00-0125	EA		10" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,862.97	432.83
			<i>For Class 52 Rating, Deduct</i>	-132.79	
			<i>For Class 54 Rating, Add</i>	188.95	
			<i>For Class 55 Rating, Add</i>	284.94	
			<i>For Class 56 Rating, Add</i>	379.72	
40 05 19 00-0126	EA		10" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,977.83	436.66
			<i>For Class 52 Rating, Deduct</i>	-144.78	
			<i>For Class 54 Rating, Add</i>	205.37	
			<i>For Class 55 Rating, Add</i>	309.40	
			<i>For Class 56 Rating, Add</i>	412.10	
40 05 19 00-0127	EA		10" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,092.69	440.49
			<i>For Class 52 Rating, Deduct</i>	-156.78	
			<i>For Class 54 Rating, Add</i>	221.80	
			<i>For Class 55 Rating, Add</i>	333.86	
			<i>For Class 56 Rating, Add</i>	444.48	
40 05 19 00-0128	EA		10" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,207.55	444.32
			<i>For Class 52 Rating, Deduct</i>	-168.78	
			<i>For Class 54 Rating, Add</i>	238.23	
			<i>For Class 55 Rating, Add</i>	358.31	
			<i>For Class 56 Rating, Add</i>	476.87	
40 05 19 00-0129	EA		10" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,322.42	448.15
			<i>For Class 52 Rating, Deduct</i>	-180.77	
			<i>For Class 54 Rating, Add</i>	254.66	
			<i>For Class 55 Rating, Add</i>	382.77	
			<i>For Class 56 Rating, Add</i>	509.25	
40 05 19 00-0130	EA		10" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,437.28	451.98
			<i>For Class 52 Rating, Deduct</i>	-192.77	
			<i>For Class 54 Rating, Add</i>	271.09	
			<i>For Class 55 Rating, Add</i>	407.23	
			<i>For Class 56 Rating, Add</i>	541.63	
40 05 19 00-0131	EA		10" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,552.14	455.81
			<i>For Class 52 Rating, Deduct</i>	-204.77	
			<i>For Class 54 Rating, Add</i>	287.52	
			<i>For Class 55 Rating, Add</i>	431.69	
			<i>For Class 56 Rating, Add</i>	574.01	
40 05 19 00-0132	EA		10" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,667.01	459.64
			<i>For Class 52 Rating, Deduct</i>	-216.76	
			<i>For Class 54 Rating, Add</i>	303.94	
			<i>For Class 55 Rating, Add</i>	456.15	
			<i>For Class 56 Rating, Add</i>	606.39	
40 05 19 00-0133	EA		10" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,781.86	463.48
			<i>For Class 52 Rating, Deduct</i>	-228.76	
			<i>For Class 54 Rating, Add</i>	320.37	
			<i>For Class 55 Rating, Add</i>	480.61	
			<i>For Class 56 Rating, Add</i>	638.77	
40 05 19 00-0134	EA		10" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,896.72	467.31
			<i>For Class 52 Rating, Deduct</i>	-240.76	
			<i>For Class 54 Rating, Add</i>	336.80	
			<i>For Class 55 Rating, Add</i>	505.07	
			<i>For Class 56 Rating, Add</i>	671.15	
40 05 19 00-0135	EA		10" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,011.59	471.14
			<i>For Class 52 Rating, Deduct</i>	-252.75	
			<i>For Class 54 Rating, Add</i>	353.23	
			<i>For Class 55 Rating, Add</i>	529.53	
			<i>For Class 56 Rating, Add</i>	703.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0136 EA 10" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,126.45	474.97
<i>For Class 52 Rating, Deduct</i>	-264.75	
<i>For Class 54 Rating, Add</i>	369.66	
<i>For Class 55 Rating, Add</i>	553.99	
<i>For Class 56 Rating, Add</i>	735.92	
40 05 19 00-0137 EA 10" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,241.31	478.80
<i>For Class 52 Rating, Deduct</i>	-276.75	
<i>For Class 54 Rating, Add</i>	386.09	
<i>For Class 55 Rating, Add</i>	578.45	
<i>For Class 56 Rating, Add</i>	768.30	
40 05 19 00-0138 EA 10" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,356.18	482.62
<i>For Class 52 Rating, Deduct</i>	-288.74	
<i>For Class 54 Rating, Add</i>	402.51	
<i>For Class 55 Rating, Add</i>	602.91	
<i>For Class 56 Rating, Add</i>	800.68	
40 05 19 00-0139 EA 10" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,471.04	486.45
<i>For Class 52 Rating, Deduct</i>	-300.74	
<i>For Class 54 Rating, Add</i>	418.94	
<i>For Class 55 Rating, Add</i>	627.37	
<i>For Class 56 Rating, Add</i>	833.06	
40 05 19 00-0140 EA 10" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,585.89	490.28
<i>For Class 52 Rating, Deduct</i>	-312.73	
<i>For Class 54 Rating, Add</i>	435.37	
<i>For Class 55 Rating, Add</i>	651.83	
<i>For Class 56 Rating, Add</i>	865.44	
40 05 19 00-0141 EA 10" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,700.76	494.11
<i>For Class 52 Rating, Deduct</i>	-324.73	
<i>For Class 54 Rating, Add</i>	451.80	
<i>For Class 55 Rating, Add</i>	676.29	
<i>For Class 56 Rating, Add</i>	897.82	
40 05 19 00-0142 EA 10" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,815.62	497.94
<i>For Class 52 Rating, Deduct</i>	-336.73	
<i>For Class 54 Rating, Add</i>	468.23	
<i>For Class 55 Rating, Add</i>	700.75	
<i>For Class 56 Rating, Add</i>	930.20	
40 05 19 00-0143 EA 10" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,930.48	501.78
<i>For Class 52 Rating, Deduct</i>	-348.72	
<i>For Class 54 Rating, Add</i>	484.66	
<i>For Class 55 Rating, Add</i>	725.21	
<i>For Class 56 Rating, Add</i>	962.58	
40 05 19 00-0144 EA 10" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,045.35	505.61
<i>For Class 52 Rating, Deduct</i>	-360.72	
<i>For Class 54 Rating, Add</i>	501.08	
<i>For Class 55 Rating, Add</i>	749.67	
<i>For Class 56 Rating, Add</i>	994.97	
40 05 19 00-0145 EA 10" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,160.21	509.44
<i>For Class 52 Rating, Deduct</i>	-372.72	
<i>For Class 54 Rating, Add</i>	517.51	
<i>For Class 55 Rating, Add</i>	774.12	
<i>For Class 56 Rating, Add</i>	1,027.35	
40 05 19 00-0146 EA 10" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,275.07	513.27
<i>For Class 52 Rating, Deduct</i>	-384.71	
<i>For Class 54 Rating, Add</i>	533.94	
<i>For Class 55 Rating, Add</i>	798.58	
<i>For Class 56 Rating, Add</i>	1,059.73	
40 05 19 00-0147 EA 10" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,389.93	517.10
<i>For Class 52 Rating, Deduct</i>	-396.71	
<i>For Class 54 Rating, Add</i>	550.37	
<i>For Class 55 Rating, Add</i>	823.04	
<i>For Class 56 Rating, Add</i>	1,092.11	
40 05 19 00-0148 EA 10" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,504.79	520.93
<i>For Class 52 Rating, Deduct</i>	-408.71	
<i>For Class 54 Rating, Add</i>	566.80	
<i>For Class 55 Rating, Add</i>	847.50	
<i>For Class 56 Rating, Add</i>	1,124.49	
40 05 19 00-0149 EA 10" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,619.66	524.76
<i>For Class 52 Rating, Deduct</i>	-420.70	
<i>For Class 54 Rating, Add</i>	583.23	
<i>For Class 55 Rating, Add</i>	871.96	
<i>For Class 56 Rating, Add</i>	1,156.87	
40 05 19 00-0150 EA 10" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,734.53	528.59
<i>For Class 52 Rating, Deduct</i>	-432.70	
<i>For Class 54 Rating, Add</i>	599.66	
<i>For Class 55 Rating, Add</i>	896.42	
<i>For Class 56 Rating, Add</i>	1,189.25	
40 05 19 00-0151 EA 10" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,849.39	532.42
<i>For Class 52 Rating, Deduct</i>	-444.70	
<i>For Class 54 Rating, Add</i>	616.08	
<i>For Class 55 Rating, Add</i>	920.88	
<i>For Class 56 Rating, Add</i>	1,221.63	
40 05 19 00-0152 EA 10" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,964.25	536.24
<i>For Class 52 Rating, Deduct</i>	-456.69	
<i>For Class 54 Rating, Add</i>	632.51	
<i>For Class 55 Rating, Add</i>	945.34	
<i>For Class 56 Rating, Add</i>	1,254.02	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0153	EA	10" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,079.12	540.08
		<i>For Class 52 Rating, Deduct</i>	-468.69	
		<i>For Class 54 Rating, Add</i>	648.94	
		<i>For Class 55 Rating, Add</i>	969.80	
		<i>For Class 56 Rating, Add</i>	1,286.40	
40 05 19 00-0154	EA	10" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,193.97	543.91
		<i>For Class 52 Rating, Deduct</i>	-480.68	
		<i>For Class 54 Rating, Add</i>	665.37	
		<i>For Class 55 Rating, Add</i>	994.26	
		<i>For Class 56 Rating, Add</i>	1,318.78	
40 05 19 00-0155	EA	10" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,306.95	547.74
		<i>For Class 52 Rating, Deduct</i>	-492.47	
		<i>For Class 54 Rating, Add</i>	681.51	
		<i>For Class 55 Rating, Add</i>	1,018.30	
		<i>For Class 56 Rating, Add</i>	1,350.60	
40 05 19 00-0156	EA	10" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,423.70	551.57
		<i>For Class 52 Rating, Deduct</i>	-504.68	
		<i>For Class 54 Rating, Add</i>	698.23	
		<i>For Class 55 Rating, Add</i>	1,043.18	
		<i>For Class 56 Rating, Add</i>	1,383.54	
40 05 19 00-0157	EA	10" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,538.56	555.40
		<i>For Class 52 Rating, Deduct</i>	-516.67	
		<i>For Class 54 Rating, Add</i>	714.65	
		<i>For Class 55 Rating, Add</i>	1,067.64	
		<i>For Class 56 Rating, Add</i>	1,415.92	
40 05 19 00-0158	EA	10" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,653.42	559.23
		<i>For Class 52 Rating, Deduct</i>	-528.67	
		<i>For Class 54 Rating, Add</i>	731.08	
		<i>For Class 55 Rating, Add</i>	1,092.10	
		<i>For Class 56 Rating, Add</i>	1,448.30	
40 05 19 00-0159	EA	10" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,768.29	563.06
		<i>For Class 52 Rating, Deduct</i>	-540.67	
		<i>For Class 54 Rating, Add</i>	747.51	
		<i>For Class 55 Rating, Add</i>	1,116.56	
		<i>For Class 56 Rating, Add</i>	1,480.68	
40 05 19 00-0160	EA	10" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,883.15	566.89
		<i>For Class 52 Rating, Deduct</i>	-552.66	
		<i>For Class 54 Rating, Add</i>	763.94	
		<i>For Class 55 Rating, Add</i>	1,141.02	
		<i>For Class 56 Rating, Add</i>	1,513.07	
40 05 19 00-0161	EA	10" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,998.00	570.72
		<i>For Class 52 Rating, Deduct</i>	-564.66	
		<i>For Class 54 Rating, Add</i>	780.37	
		<i>For Class 55 Rating, Add</i>	1,165.47	
		<i>For Class 56 Rating, Add</i>	1,545.44	
40 05 19 00-0162	EA	10" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,112.87	574.56
		<i>For Class 52 Rating, Deduct</i>	-576.66	
		<i>For Class 54 Rating, Add</i>	796.80	
		<i>For Class 55 Rating, Add</i>	1,189.93	
		<i>For Class 56 Rating, Add</i>	1,577.83	
40 05 19 00-0163		12" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0164	EA	12" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,282.91	536.24
		<i>For Class 52 Rating, Deduct</i>	-161.75	
		<i>For Class 54 Rating, Add</i>	230.31	
		<i>For Class 55 Rating, Add</i>	347.40	
		<i>For Class 56 Rating, Add</i>	463.02	
40 05 19 00-0165	EA	12" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,425.98	540.08
		<i>For Class 52 Rating, Deduct</i>	-176.84	
		<i>For Class 54 Rating, Add</i>	250.97	
		<i>For Class 55 Rating, Add</i>	378.15	
		<i>For Class 56 Rating, Add</i>	503.72	
40 05 19 00-0166	EA	12" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,569.05	543.91
		<i>For Class 52 Rating, Deduct</i>	-191.94	
		<i>For Class 54 Rating, Add</i>	271.63	
		<i>For Class 55 Rating, Add</i>	408.90	
		<i>For Class 56 Rating, Add</i>	544.43	
40 05 19 00-0167	EA	12" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,712.11	547.74
		<i>For Class 52 Rating, Deduct</i>	-207.04	
		<i>For Class 54 Rating, Add</i>	292.29	
		<i>For Class 55 Rating, Add</i>	439.65	
		<i>For Class 56 Rating, Add</i>	585.13	
40 05 19 00-0168	EA	12" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,855.18	551.57
		<i>For Class 52 Rating, Deduct</i>	-222.14	
		<i>For Class 54 Rating, Add</i>	312.95	
		<i>For Class 55 Rating, Add</i>	470.40	
		<i>For Class 56 Rating, Add</i>	625.83	
40 05 19 00-0169	EA	12" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,998.25	555.40
		<i>For Class 52 Rating, Deduct</i>	-237.24	
		<i>For Class 54 Rating, Add</i>	333.61	
		<i>For Class 55 Rating, Add</i>	501.15	
		<i>For Class 56 Rating, Add</i>	666.53	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0170 EA 12" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,141.31	559.23
<i>For Class 52 Rating, Deduct</i>	-252.34	
<i>For Class 54 Rating, Add</i>	354.27	
<i>For Class 55 Rating, Add</i>	531.90	
<i>For Class 56 Rating, Add</i>	707.23	
40 05 19 00-0171 EA 12" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,284.38	563.06
<i>For Class 52 Rating, Deduct</i>	-267.44	
<i>For Class 54 Rating, Add</i>	374.93	
<i>For Class 55 Rating, Add</i>	562.64	
<i>For Class 56 Rating, Add</i>	747.93	
40 05 19 00-0172 EA 12" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,427.45	566.89
<i>For Class 52 Rating, Deduct</i>	-282.54	
<i>For Class 54 Rating, Add</i>	395.59	
<i>For Class 55 Rating, Add</i>	593.39	
<i>For Class 56 Rating, Add</i>	788.63	
40 05 19 00-0173 EA 12" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,570.51	570.72
<i>For Class 52 Rating, Deduct</i>	-297.64	
<i>For Class 54 Rating, Add</i>	416.24	
<i>For Class 55 Rating, Add</i>	624.14	
<i>For Class 56 Rating, Add</i>	829.34	
40 05 19 00-0174 EA 12" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,713.58	574.56
<i>For Class 52 Rating, Deduct</i>	-312.73	
<i>For Class 54 Rating, Add</i>	436.90	
<i>For Class 55 Rating, Add</i>	654.89	
<i>For Class 56 Rating, Add</i>	870.04	
40 05 19 00-0175 EA 12" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,856.65	578.39
<i>For Class 52 Rating, Deduct</i>	-327.83	
<i>For Class 54 Rating, Add</i>	457.56	
<i>For Class 55 Rating, Add</i>	685.64	
<i>For Class 56 Rating, Add</i>	910.74	
40 05 19 00-0176 EA 12" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,999.71	582.22
<i>For Class 52 Rating, Deduct</i>	-342.93	
<i>For Class 54 Rating, Add</i>	478.22	
<i>For Class 55 Rating, Add</i>	716.39	
<i>For Class 56 Rating, Add</i>	951.44	
40 05 19 00-0177 EA 12" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,142.78	586.05
<i>For Class 52 Rating, Deduct</i>	-358.03	
<i>For Class 54 Rating, Add</i>	498.88	
<i>For Class 55 Rating, Add</i>	747.14	
<i>For Class 56 Rating, Add</i>	992.14	
40 05 19 00-0178 EA 12" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,285.85	589.88
<i>For Class 52 Rating, Deduct</i>	-373.13	
<i>For Class 54 Rating, Add</i>	519.54	
<i>For Class 55 Rating, Add</i>	777.89	
<i>For Class 56 Rating, Add</i>	1,032.84	
40 05 19 00-0179 EA 12" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,428.91	593.70
<i>For Class 52 Rating, Deduct</i>	-388.23	
<i>For Class 54 Rating, Add</i>	540.20	
<i>For Class 55 Rating, Add</i>	808.64	
<i>For Class 56 Rating, Add</i>	1,073.55	
40 05 19 00-0180 EA 12" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,571.98	597.53
<i>For Class 52 Rating, Deduct</i>	-403.33	
<i>For Class 54 Rating, Add</i>	560.86	
<i>For Class 55 Rating, Add</i>	839.38	
<i>For Class 56 Rating, Add</i>	1,114.25	
40 05 19 00-0181 EA 12" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,715.05	601.36
<i>For Class 52 Rating, Deduct</i>	-418.43	
<i>For Class 54 Rating, Add</i>	581.52	
<i>For Class 55 Rating, Add</i>	870.14	
<i>For Class 56 Rating, Add</i>	1,154.95	
40 05 19 00-0182 EA 12" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,858.11	605.19
<i>For Class 52 Rating, Deduct</i>	-433.53	
<i>For Class 54 Rating, Add</i>	602.18	
<i>For Class 55 Rating, Add</i>	900.88	
<i>For Class 56 Rating, Add</i>	1,195.65	
40 05 19 00-0183 EA 12" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,001.18	609.02
<i>For Class 52 Rating, Deduct</i>	-448.63	
<i>For Class 54 Rating, Add</i>	622.83	
<i>For Class 55 Rating, Add</i>	931.63	
<i>For Class 56 Rating, Add</i>	1,236.35	
40 05 19 00-0184 EA 12" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,144.25	612.86
<i>For Class 52 Rating, Deduct</i>	-463.72	
<i>For Class 54 Rating, Add</i>	643.49	
<i>For Class 55 Rating, Add</i>	962.38	
<i>For Class 56 Rating, Add</i>	1,277.05	
40 05 19 00-0185 EA 12" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,287.31	616.69
<i>For Class 52 Rating, Deduct</i>	-478.82	
<i>For Class 54 Rating, Add</i>	664.15	
<i>For Class 55 Rating, Add</i>	993.13	
<i>For Class 56 Rating, Add</i>	1,317.75	
40 05 19 00-0186 EA 12" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,430.38	620.52
<i>For Class 52 Rating, Deduct</i>	-493.92	
<i>For Class 54 Rating, Add</i>	684.81	
<i>For Class 55 Rating, Add</i>	1,023.88	
<i>For Class 56 Rating, Add</i>	1,358.46	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0187	EA	12" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,573.45	624.35
		<i>For Class 52 Rating, Deduct</i>	-509.02	
		<i>For Class 54 Rating, Add</i>	705.47	
		<i>For Class 55 Rating, Add</i>	1,054.63	
		<i>For Class 56 Rating, Add</i>	1,399.16	
40 05 19 00-0188	EA	12" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,716.51	628.18
		<i>For Class 52 Rating, Deduct</i>	-524.12	
		<i>For Class 54 Rating, Add</i>	726.13	
		<i>For Class 55 Rating, Add</i>	1,085.38	
		<i>For Class 56 Rating, Add</i>	1,439.86	
40 05 19 00-0189	EA	12" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,859.58	632.01
		<i>For Class 52 Rating, Deduct</i>	-539.22	
		<i>For Class 54 Rating, Add</i>	746.79	
		<i>For Class 55 Rating, Add</i>	1,116.13	
		<i>For Class 56 Rating, Add</i>	1,480.56	
40 05 19 00-0190	EA	12" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,002.65	635.84
		<i>For Class 52 Rating, Deduct</i>	-554.32	
		<i>For Class 54 Rating, Add</i>	767.45	
		<i>For Class 55 Rating, Add</i>	1,146.88	
		<i>For Class 56 Rating, Add</i>	1,521.26	
40 05 19 00-0191	EA	12" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,145.72	639.67
		<i>For Class 52 Rating, Deduct</i>	-569.42	
		<i>For Class 54 Rating, Add</i>	788.11	
		<i>For Class 55 Rating, Add</i>	1,177.62	
		<i>For Class 56 Rating, Add</i>	1,561.96	
40 05 19 00-0192	EA	12" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,288.78	643.50
		<i>For Class 52 Rating, Deduct</i>	-584.52	
		<i>For Class 54 Rating, Add</i>	808.77	
		<i>For Class 55 Rating, Add</i>	1,208.37	
		<i>For Class 56 Rating, Add</i>	1,602.67	
40 05 19 00-0193	EA	12" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,431.85	647.33
		<i>For Class 52 Rating, Deduct</i>	-599.62	
		<i>For Class 54 Rating, Add</i>	829.43	
		<i>For Class 55 Rating, Add</i>	1,239.12	
		<i>For Class 56 Rating, Add</i>	1,643.37	
40 05 19 00-0194	EA	12" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,574.92	651.16
		<i>For Class 52 Rating, Deduct</i>	-614.71	
		<i>For Class 54 Rating, Add</i>	850.09	
		<i>For Class 55 Rating, Add</i>	1,269.87	
		<i>For Class 56 Rating, Add</i>	1,684.07	
40 05 19 00-0195	EA	12" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,717.98	654.99
		<i>For Class 52 Rating, Deduct</i>	-629.81	
		<i>For Class 54 Rating, Add</i>	870.74	
		<i>For Class 55 Rating, Add</i>	1,300.62	
		<i>For Class 56 Rating, Add</i>	1,724.77	
40 05 19 00-0196	EA	12" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,861.05	658.82
		<i>For Class 52 Rating, Deduct</i>	-644.91	
		<i>For Class 54 Rating, Add</i>	891.40	
		<i>For Class 55 Rating, Add</i>	1,331.37	
		<i>For Class 56 Rating, Add</i>	1,765.47	
40 05 19 00-0197	EA	12" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,004.12	662.65
		<i>For Class 52 Rating, Deduct</i>	-660.01	
		<i>For Class 54 Rating, Add</i>	912.06	
		<i>For Class 55 Rating, Add</i>	1,362.12	
		<i>For Class 56 Rating, Add</i>	1,806.17	
40 05 19 00-0198	EA	12" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,147.18	666.48
		<i>For Class 52 Rating, Deduct</i>	-675.11	
		<i>For Class 54 Rating, Add</i>	932.72	
		<i>For Class 55 Rating, Add</i>	1,392.87	
		<i>For Class 56 Rating, Add</i>	1,846.87	
40 05 19 00-0199	EA	12" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,290.25	670.31
		<i>For Class 52 Rating, Deduct</i>	-690.21	
		<i>For Class 54 Rating, Add</i>	953.38	
		<i>For Class 55 Rating, Add</i>	1,423.62	
		<i>For Class 56 Rating, Add</i>	1,887.58	
40 05 19 00-0200	EA	12" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,433.32	674.14
		<i>For Class 52 Rating, Deduct</i>	-705.31	
		<i>For Class 54 Rating, Add</i>	974.04	
		<i>For Class 55 Rating, Add</i>	1,454.37	
		<i>For Class 56 Rating, Add</i>	1,928.28	
40 05 19 00-0201	EA	12" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,576.38	677.97
		<i>For Class 52 Rating, Deduct</i>	-720.41	
		<i>For Class 54 Rating, Add</i>	994.70	
		<i>For Class 55 Rating, Add</i>	1,485.11	
		<i>For Class 56 Rating, Add</i>	1,968.98	
40 05 19 00-0202	EA	12" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,719.45	681.80
		<i>For Class 52 Rating, Deduct</i>	-735.51	
		<i>For Class 54 Rating, Add</i>	1,015.36	
		<i>For Class 55 Rating, Add</i>	1,515.86	
		<i>For Class 56 Rating, Add</i>	2,009.68	

40 05 19 00-0203 14" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat,
Ductile Iron Pipe (40 05 19 00-0002)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0204 EA 14" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,033.95	643.50
<i>For Class 52 Rating, Deduct</i>	-226.48	
<i>For Class 54 Rating, Add</i>	320.54	
<i>For Class 55 Rating, Add</i>	482.55	
<i>For Class 56 Rating, Add</i>	642.49	
40 05 19 00-0205 EA 14" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,207.10	647.33
<i>For Class 52 Rating, Deduct</i>	-244.89	
<i>For Class 54 Rating, Add</i>	345.71	
<i>For Class 55 Rating, Add</i>	520.00	
<i>For Class 56 Rating, Add</i>	692.07	
40 05 19 00-0206 EA 14" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,380.26	651.16
<i>For Class 52 Rating, Deduct</i>	-263.30	
<i>For Class 54 Rating, Add</i>	370.89	
<i>For Class 55 Rating, Add</i>	557.46	
<i>For Class 56 Rating, Add</i>	741.64	
40 05 19 00-0207 EA 14" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,553.41	654.99
<i>For Class 52 Rating, Deduct</i>	-281.71	
<i>For Class 54 Rating, Add</i>	396.06	
<i>For Class 55 Rating, Add</i>	594.92	
<i>For Class 56 Rating, Add</i>	791.22	
40 05 19 00-0208 EA 14" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,726.55	658.82
<i>For Class 52 Rating, Deduct</i>	-300.12	
<i>For Class 54 Rating, Add</i>	421.23	
<i>For Class 55 Rating, Add</i>	632.38	
<i>For Class 56 Rating, Add</i>	840.80	
40 05 19 00-0209 EA 14" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,899.71	662.65
<i>For Class 52 Rating, Deduct</i>	-318.53	
<i>For Class 54 Rating, Add</i>	446.40	
<i>For Class 55 Rating, Add</i>	669.84	
<i>For Class 56 Rating, Add</i>	890.37	
40 05 19 00-0210 EA 14" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,072.86	666.48
<i>For Class 52 Rating, Deduct</i>	-336.93	
<i>For Class 54 Rating, Add</i>	471.57	
<i>For Class 55 Rating, Add</i>	707.29	
<i>For Class 56 Rating, Add</i>	939.95	
40 05 19 00-0211 EA 14" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,246.01	670.31
<i>For Class 52 Rating, Deduct</i>	-355.34	
<i>For Class 54 Rating, Add</i>	496.75	
<i>For Class 55 Rating, Add</i>	744.75	
<i>For Class 56 Rating, Add</i>	989.53	
40 05 19 00-0212 EA 14" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,419.17	674.14
<i>For Class 52 Rating, Deduct</i>	-373.75	
<i>For Class 54 Rating, Add</i>	521.92	
<i>For Class 55 Rating, Add</i>	782.21	
<i>For Class 56 Rating, Add</i>	1,039.10	
40 05 19 00-0213 EA 14" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,592.32	677.97
<i>For Class 52 Rating, Deduct</i>	-392.16	
<i>For Class 54 Rating, Add</i>	547.09	
<i>For Class 55 Rating, Add</i>	819.67	
<i>For Class 56 Rating, Add</i>	1,088.68	
40 05 19 00-0214 EA 14" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,765.47	681.80
<i>For Class 52 Rating, Deduct</i>	-410.57	
<i>For Class 54 Rating, Add</i>	572.26	
<i>For Class 55 Rating, Add</i>	857.13	
<i>For Class 56 Rating, Add</i>	1,138.26	
40 05 19 00-0215 EA 14" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,938.62	685.63
<i>For Class 52 Rating, Deduct</i>	-428.98	
<i>For Class 54 Rating, Add</i>	597.43	
<i>For Class 55 Rating, Add</i>	894.58	
<i>For Class 56 Rating, Add</i>	1,187.83	
40 05 19 00-0216 EA 14" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,111.77	689.47
<i>For Class 52 Rating, Deduct</i>	-447.38	
<i>For Class 54 Rating, Add</i>	622.61	
<i>For Class 55 Rating, Add</i>	932.04	
<i>For Class 56 Rating, Add</i>	1,237.41	
40 05 19 00-0217 EA 14" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,284.92	693.30
<i>For Class 52 Rating, Deduct</i>	-465.79	
<i>For Class 54 Rating, Add</i>	647.78	
<i>For Class 55 Rating, Add</i>	969.50	
<i>For Class 56 Rating, Add</i>	1,286.99	
40 05 19 00-0218 EA 14" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,458.08	697.13
<i>For Class 52 Rating, Deduct</i>	-484.20	
<i>For Class 54 Rating, Add</i>	672.95	
<i>For Class 55 Rating, Add</i>	1,006.96	
<i>For Class 56 Rating, Add</i>	1,336.56	
40 05 19 00-0219 EA 14" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,631.23	700.96
<i>For Class 52 Rating, Deduct</i>	-502.61	
<i>For Class 54 Rating, Add</i>	698.12	
<i>For Class 55 Rating, Add</i>	1,044.42	
<i>For Class 56 Rating, Add</i>	1,386.14	
40 05 19 00-0220 EA 14" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,804.38	704.79
<i>For Class 52 Rating, Deduct</i>	-521.02	
<i>For Class 54 Rating, Add</i>	723.29	
<i>For Class 55 Rating, Add</i>	1,081.87	
<i>For Class 56 Rating, Add</i>	1,435.72	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0221	EA		14" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,977.53	708.61
			<i>For Class 52 Rating, Deduct</i>	-539.43	
			<i>For Class 54 Rating, Add</i>	748.46	
			<i>For Class 55 Rating, Add</i>	1,119.33	
			<i>For Class 56 Rating, Add</i>	1,485.29	
40 05 19 00-0222	EA		14" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,150.68	712.44
			<i>For Class 52 Rating, Deduct</i>	-557.83	
			<i>For Class 54 Rating, Add</i>	773.64	
			<i>For Class 55 Rating, Add</i>	1,156.79	
			<i>For Class 56 Rating, Add</i>	1,534.87	
40 05 19 00-0223	EA		14" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,323.83	716.27
			<i>For Class 52 Rating, Deduct</i>	-576.24	
			<i>For Class 54 Rating, Add</i>	798.81	
			<i>For Class 55 Rating, Add</i>	1,194.25	
			<i>For Class 56 Rating, Add</i>	1,584.45	
40 05 19 00-0224	EA		14" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,496.99	720.10
			<i>For Class 52 Rating, Deduct</i>	-594.65	
			<i>For Class 54 Rating, Add</i>	823.98	
			<i>For Class 55 Rating, Add</i>	1,231.71	
			<i>For Class 56 Rating, Add</i>	1,634.02	
40 05 19 00-0225	EA		14" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,670.14	723.94
			<i>For Class 52 Rating, Deduct</i>	-613.06	
			<i>For Class 54 Rating, Add</i>	849.15	
			<i>For Class 55 Rating, Add</i>	1,269.16	
			<i>For Class 56 Rating, Add</i>	1,683.60	
40 05 19 00-0226	EA		14" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,843.29	727.77
			<i>For Class 52 Rating, Deduct</i>	-631.47	
			<i>For Class 54 Rating, Add</i>	874.33	
			<i>For Class 55 Rating, Add</i>	1,306.62	
			<i>For Class 56 Rating, Add</i>	1,733.18	
40 05 19 00-0227	EA		14" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,016.46	731.60
			<i>For Class 52 Rating, Deduct</i>	-649.88	
			<i>For Class 54 Rating, Add</i>	899.50	
			<i>For Class 55 Rating, Add</i>	1,344.08	
			<i>For Class 56 Rating, Add</i>	1,782.76	
40 05 19 00-0228	EA		14" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,189.60	735.43
			<i>For Class 52 Rating, Deduct</i>	-668.28	
			<i>For Class 54 Rating, Add</i>	924.67	
			<i>For Class 55 Rating, Add</i>	1,381.54	
			<i>For Class 56 Rating, Add</i>	1,832.33	
40 05 19 00-0229	EA		14" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,362.75	739.26
			<i>For Class 52 Rating, Deduct</i>	-686.69	
			<i>For Class 54 Rating, Add</i>	949.84	
			<i>For Class 55 Rating, Add</i>	1,419.00	
			<i>For Class 56 Rating, Add</i>	1,881.91	
40 05 19 00-0230	EA		14" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,535.91	743.09
			<i>For Class 52 Rating, Deduct</i>	-705.10	
			<i>For Class 54 Rating, Add</i>	975.01	
			<i>For Class 55 Rating, Add</i>	1,456.45	
			<i>For Class 56 Rating, Add</i>	1,931.49	
40 05 19 00-0231	EA		14" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,709.06	746.92
			<i>For Class 52 Rating, Deduct</i>	-723.51	
			<i>For Class 54 Rating, Add</i>	1,000.18	
			<i>For Class 55 Rating, Add</i>	1,493.91	
			<i>For Class 56 Rating, Add</i>	1,981.06	
40 05 19 00-0232	EA		14" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,882.21	750.75
			<i>For Class 52 Rating, Deduct</i>	-741.92	
			<i>For Class 54 Rating, Add</i>	1,025.36	
			<i>For Class 55 Rating, Add</i>	1,531.37	
			<i>For Class 56 Rating, Add</i>	2,030.64	
40 05 19 00-0233	EA		14" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,055.37	754.58
			<i>For Class 52 Rating, Deduct</i>	-760.33	
			<i>For Class 54 Rating, Add</i>	1,050.53	
			<i>For Class 55 Rating, Add</i>	1,568.83	
			<i>For Class 56 Rating, Add</i>	2,080.22	
40 05 19 00-0234	EA		14" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,228.51	758.41
			<i>For Class 52 Rating, Deduct</i>	-778.73	
			<i>For Class 54 Rating, Add</i>	1,075.70	
			<i>For Class 55 Rating, Add</i>	1,606.28	
			<i>For Class 56 Rating, Add</i>	2,129.79	
40 05 19 00-0235	EA		14" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,401.66	762.24
			<i>For Class 52 Rating, Deduct</i>	-797.14	
			<i>For Class 54 Rating, Add</i>	1,100.87	
			<i>For Class 55 Rating, Add</i>	1,643.74	
			<i>For Class 56 Rating, Add</i>	2,179.37	
40 05 19 00-0236	EA		14" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,574.82	766.07
			<i>For Class 52 Rating, Deduct</i>	-815.55	
			<i>For Class 54 Rating, Add</i>	1,126.04	
			<i>For Class 55 Rating, Add</i>	1,681.20	
			<i>For Class 56 Rating, Add</i>	2,228.95	
40 05 19 00-0237	EA		14" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,747.97	769.90
			<i>For Class 52 Rating, Deduct</i>	-833.96	
			<i>For Class 54 Rating, Add</i>	1,151.22	
			<i>For Class 55 Rating, Add</i>	1,718.66	
			<i>For Class 56 Rating, Add</i>	2,278.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0238 EA 14" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,921.12	773.73
<i>For Class 52 Rating, Deduct</i>	-852.37	
<i>For Class 54 Rating, Add</i>	1,176.39	
<i>For Class 55 Rating, Add</i>	1,756.12	
<i>For Class 56 Rating, Add</i>	2,328.10	
40 05 19 00-0239 EA 14" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,094.28	777.56
<i>For Class 52 Rating, Deduct</i>	-870.78	
<i>For Class 54 Rating, Add</i>	1,201.56	
<i>For Class 55 Rating, Add</i>	1,793.58	
<i>For Class 56 Rating, Add</i>	2,377.68	
40 05 19 00-0240 EA 14" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,267.43	781.39
<i>For Class 52 Rating, Deduct</i>	-889.19	
<i>For Class 54 Rating, Add</i>	1,226.73	
<i>For Class 55 Rating, Add</i>	1,831.03	
<i>For Class 56 Rating, Add</i>	2,427.25	
40 05 19 00-0241 EA 14" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,440.57	785.22
<i>For Class 52 Rating, Deduct</i>	-907.59	
<i>For Class 54 Rating, Add</i>	1,251.90	
<i>For Class 55 Rating, Add</i>	1,868.49	
<i>For Class 56 Rating, Add</i>	2,476.83	
40 05 19 00-0242 16" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0243 EA 16" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,554.95	735.43
<i>For Class 52 Rating, Deduct</i>	-268.47	
<i>For Class 54 Rating, Add</i>	379.47	
<i>For Class 55 Rating, Add</i>	571.01	
<i>For Class 56 Rating, Add</i>	760.11	
40 05 19 00-0244 EA 16" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,756.30	739.26
<i>For Class 52 Rating, Deduct</i>	-289.98	
<i>For Class 54 Rating, Add</i>	408.87	
<i>For Class 55 Rating, Add</i>	614.76	
<i>For Class 56 Rating, Add</i>	818.01	
40 05 19 00-0245 EA 16" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,957.66	743.09
<i>For Class 52 Rating, Deduct</i>	-311.49	
<i>For Class 54 Rating, Add</i>	438.27	
<i>For Class 55 Rating, Add</i>	658.50	
<i>For Class 56 Rating, Add</i>	875.90	
40 05 19 00-0246 EA 16" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,159.02	746.92
<i>For Class 52 Rating, Deduct</i>	-333.01	
<i>For Class 54 Rating, Add</i>	467.68	
<i>For Class 55 Rating, Add</i>	702.25	
<i>For Class 56 Rating, Add</i>	933.80	
40 05 19 00-0247 EA 16" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,360.37	750.75
<i>For Class 52 Rating, Deduct</i>	-354.52	
<i>For Class 54 Rating, Add</i>	497.08	
<i>For Class 55 Rating, Add</i>	746.00	
<i>For Class 56 Rating, Add</i>	991.70	
40 05 19 00-0248 EA 16" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,561.73	754.58
<i>For Class 52 Rating, Deduct</i>	-376.03	
<i>For Class 54 Rating, Add</i>	526.48	
<i>For Class 55 Rating, Add</i>	789.75	
<i>For Class 56 Rating, Add</i>	1,049.59	
40 05 19 00-0249 EA 16" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,763.09	758.41
<i>For Class 52 Rating, Deduct</i>	-397.54	
<i>For Class 54 Rating, Add</i>	555.89	
<i>For Class 55 Rating, Add</i>	833.50	
<i>For Class 56 Rating, Add</i>	1,107.49	
40 05 19 00-0250 EA 16" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,964.44	762.24
<i>For Class 52 Rating, Deduct</i>	-419.05	
<i>For Class 54 Rating, Add</i>	585.29	
<i>For Class 55 Rating, Add</i>	877.24	
<i>For Class 56 Rating, Add</i>	1,165.39	
40 05 19 00-0251 EA 16" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,165.80	766.07
<i>For Class 52 Rating, Deduct</i>	-440.56	
<i>For Class 54 Rating, Add</i>	614.69	
<i>For Class 55 Rating, Add</i>	920.99	
<i>For Class 56 Rating, Add</i>	1,223.28	
40 05 19 00-0252 EA 16" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,367.15	769.90
<i>For Class 52 Rating, Deduct</i>	-462.07	
<i>For Class 54 Rating, Add</i>	644.09	
<i>For Class 55 Rating, Add</i>	964.74	
<i>For Class 56 Rating, Add</i>	1,281.18	
40 05 19 00-0253 EA 16" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,568.51	773.73
<i>For Class 52 Rating, Deduct</i>	-483.58	
<i>For Class 54 Rating, Add</i>	673.50	
<i>For Class 55 Rating, Add</i>	1,008.49	
<i>For Class 56 Rating, Add</i>	1,339.08	
40 05 19 00-0254 EA 16" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,769.87	777.56
<i>For Class 52 Rating, Deduct</i>	-505.09	
<i>For Class 54 Rating, Add</i>	702.90	
<i>For Class 55 Rating, Add</i>	1,052.23	
<i>For Class 56 Rating, Add</i>	1,396.98	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0255	EA	16" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,971.22	781.39
		<i>For Class 52 Rating, Deduct</i>	-526.60	
		<i>For Class 54 Rating, Add</i>	732.30	
		<i>For Class 55 Rating, Add</i>	1,095.98	
		<i>For Class 56 Rating, Add</i>	1,454.87	
40 05 19 00-0256	EA	16" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,172.58	785.22
		<i>For Class 52 Rating, Deduct</i>	-548.11	
		<i>For Class 54 Rating, Add</i>	761.70	
		<i>For Class 55 Rating, Add</i>	1,139.73	
		<i>For Class 56 Rating, Add</i>	1,512.77	
40 05 19 00-0257	EA	16" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,373.94	789.05
		<i>For Class 52 Rating, Deduct</i>	-569.62	
		<i>For Class 54 Rating, Add</i>	791.11	
		<i>For Class 55 Rating, Add</i>	1,183.48	
		<i>For Class 56 Rating, Add</i>	1,570.67	
40 05 19 00-0258	EA	16" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,575.29	792.88
		<i>For Class 52 Rating, Deduct</i>	-591.13	
		<i>For Class 54 Rating, Add</i>	820.51	
		<i>For Class 55 Rating, Add</i>	1,227.22	
		<i>For Class 56 Rating, Add</i>	1,628.56	
40 05 19 00-0259	EA	16" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,776.65	796.71
		<i>For Class 52 Rating, Deduct</i>	-612.65	
		<i>For Class 54 Rating, Add</i>	849.91	
		<i>For Class 55 Rating, Add</i>	1,270.97	
		<i>For Class 56 Rating, Add</i>	1,686.46	
40 05 19 00-0260	EA	16" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,978.01	800.55
		<i>For Class 52 Rating, Deduct</i>	-634.16	
		<i>For Class 54 Rating, Add</i>	879.31	
		<i>For Class 55 Rating, Add</i>	1,314.72	
		<i>For Class 56 Rating, Add</i>	1,744.36	
40 05 19 00-0261	EA	16" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,179.36	804.38
		<i>For Class 52 Rating, Deduct</i>	-655.67	
		<i>For Class 54 Rating, Add</i>	908.72	
		<i>For Class 55 Rating, Add</i>	1,358.47	
		<i>For Class 56 Rating, Add</i>	1,802.25	
40 05 19 00-0262	EA	16" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,380.72	808.21
		<i>For Class 52 Rating, Deduct</i>	-677.18	
		<i>For Class 54 Rating, Add</i>	938.12	
		<i>For Class 55 Rating, Add</i>	1,402.22	
		<i>For Class 56 Rating, Add</i>	1,860.15	
40 05 19 00-0263	EA	16" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,582.08	812.04
		<i>For Class 52 Rating, Deduct</i>	-698.69	
		<i>For Class 54 Rating, Add</i>	967.52	
		<i>For Class 55 Rating, Add</i>	1,445.96	
		<i>For Class 56 Rating, Add</i>	1,918.05	
40 05 19 00-0264	EA	16" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,783.43	815.87
		<i>For Class 52 Rating, Deduct</i>	-720.20	
		<i>For Class 54 Rating, Add</i>	996.92	
		<i>For Class 55 Rating, Add</i>	1,489.71	
		<i>For Class 56 Rating, Add</i>	1,975.95	
40 05 19 00-0265	EA	16" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,984.79	819.69
		<i>For Class 52 Rating, Deduct</i>	-741.71	
		<i>For Class 54 Rating, Add</i>	1,026.33	
		<i>For Class 55 Rating, Add</i>	1,533.46	
		<i>For Class 56 Rating, Add</i>	2,033.85	
40 05 19 00-0266	EA	16" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,186.15	823.52
		<i>For Class 52 Rating, Deduct</i>	-763.22	
		<i>For Class 54 Rating, Add</i>	1,055.73	
		<i>For Class 55 Rating, Add</i>	1,577.21	
		<i>For Class 56 Rating, Add</i>	2,091.74	
40 05 19 00-0267	EA	16" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,387.50	827.35
		<i>For Class 52 Rating, Deduct</i>	-784.73	
		<i>For Class 54 Rating, Add</i>	1,085.13	
		<i>For Class 55 Rating, Add</i>	1,620.95	
		<i>For Class 56 Rating, Add</i>	2,149.64	
40 05 19 00-0268	EA	16" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,588.86	831.18
		<i>For Class 52 Rating, Deduct</i>	-806.24	
		<i>For Class 54 Rating, Add</i>	1,114.54	
		<i>For Class 55 Rating, Add</i>	1,664.70	
		<i>For Class 56 Rating, Add</i>	2,207.54	
40 05 19 00-0269	EA	16" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,790.22	835.02
		<i>For Class 52 Rating, Deduct</i>	-827.75	
		<i>For Class 54 Rating, Add</i>	1,143.94	
		<i>For Class 55 Rating, Add</i>	1,708.45	
		<i>For Class 56 Rating, Add</i>	2,265.43	
40 05 19 00-0270	EA	16" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,991.57	838.85
		<i>For Class 52 Rating, Deduct</i>	-849.26	
		<i>For Class 54 Rating, Add</i>	1,173.34	
		<i>For Class 55 Rating, Add</i>	1,752.20	
		<i>For Class 56 Rating, Add</i>	2,323.33	
40 05 19 00-0271	EA	16" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,192.93	842.68
		<i>For Class 52 Rating, Deduct</i>	-870.78	
		<i>For Class 54 Rating, Add</i>	1,202.74	
		<i>For Class 55 Rating, Add</i>	1,795.94	
		<i>For Class 56 Rating, Add</i>	2,381.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0272 EA 16" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,394.29	846.51
<i>For Class 52 Rating, Deduct</i>	-892.29	
<i>For Class 54 Rating, Add</i>	1,232.15	
<i>For Class 55 Rating, Add</i>	1,839.69	
<i>For Class 56 Rating, Add</i>	2,439.12	
40 05 19 00-0273 EA 16" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,595.64	850.34
<i>For Class 52 Rating, Deduct</i>	-913.80	
<i>For Class 54 Rating, Add</i>	1,261.55	
<i>For Class 55 Rating, Add</i>	1,883.44	
<i>For Class 56 Rating, Add</i>	2,497.02	
40 05 19 00-0274 EA 16" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,797.00	854.17
<i>For Class 52 Rating, Deduct</i>	-935.31	
<i>For Class 54 Rating, Add</i>	1,290.95	
<i>For Class 55 Rating, Add</i>	1,927.19	
<i>For Class 56 Rating, Add</i>	2,554.92	
40 05 19 00-0275 EA 16" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,998.36	858.00
<i>For Class 52 Rating, Deduct</i>	-956.82	
<i>For Class 54 Rating, Add</i>	1,320.35	
<i>For Class 55 Rating, Add</i>	1,970.93	
<i>For Class 56 Rating, Add</i>	2,612.82	
40 05 19 00-0276 EA 16" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,199.71	861.83
<i>For Class 52 Rating, Deduct</i>	-978.33	
<i>For Class 54 Rating, Add</i>	1,349.76	
<i>For Class 55 Rating, Add</i>	2,014.68	
<i>For Class 56 Rating, Add</i>	2,670.71	
40 05 19 00-0277 EA 16" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,401.07	865.66
<i>For Class 52 Rating, Deduct</i>	-999.84	
<i>For Class 54 Rating, Add</i>	1,379.16	
<i>For Class 55 Rating, Add</i>	2,058.43	
<i>For Class 56 Rating, Add</i>	2,728.61	
40 05 19 00-0278 EA 16" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,602.43	869.49
<i>For Class 52 Rating, Deduct</i>	-1,021.35	
<i>For Class 54 Rating, Add</i>	1,408.56	
<i>For Class 55 Rating, Add</i>	2,102.18	
<i>For Class 56 Rating, Add</i>	2,786.51	
40 05 19 00-0279 EA 16" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,803.78	873.33
<i>For Class 52 Rating, Deduct</i>	-1,042.86	
<i>For Class 54 Rating, Add</i>	1,437.96	
<i>For Class 55 Rating, Add</i>	2,145.92	
<i>For Class 56 Rating, Add</i>	2,844.40	
40 05 19 00-0280 EA 16" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,005.14	877.15
<i>For Class 52 Rating, Deduct</i>	-1,064.37	
<i>For Class 54 Rating, Add</i>	1,467.37	
<i>For Class 55 Rating, Add</i>	2,189.67	
<i>For Class 56 Rating, Add</i>	2,902.30	
40 05 19 00-0281 18" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0282 EA 18" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,132.78	828.89
<i>For Class 52 Rating, Deduct</i>	-316.46	
<i>For Class 54 Rating, Add</i>	446.60	
<i>For Class 55 Rating, Add</i>	671.69	
<i>For Class 56 Rating, Add</i>	893.89	
40 05 19 00-0283 EA 18" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,364.23	832.71
<i>For Class 52 Rating, Deduct</i>	-341.28	
<i>For Class 54 Rating, Add</i>	480.52	
<i>For Class 55 Rating, Add</i>	722.14	
<i>For Class 56 Rating, Add</i>	960.67	
40 05 19 00-0284 EA 18" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,595.67	836.55
<i>For Class 52 Rating, Deduct</i>	-366.10	
<i>For Class 54 Rating, Add</i>	514.44	
<i>For Class 55 Rating, Add</i>	772.60	
<i>For Class 56 Rating, Add</i>	1,027.44	
40 05 19 00-0285 EA 18" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,827.10	840.38
<i>For Class 52 Rating, Deduct</i>	-390.92	
<i>For Class 54 Rating, Add</i>	548.35	
<i>For Class 55 Rating, Add</i>	823.06	
<i>For Class 56 Rating, Add</i>	1,094.21	
40 05 19 00-0286 EA 18" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,058.55	844.21
<i>For Class 52 Rating, Deduct</i>	-415.74	
<i>For Class 54 Rating, Add</i>	582.27	
<i>For Class 55 Rating, Add</i>	873.51	
<i>For Class 56 Rating, Add</i>	1,160.98	
40 05 19 00-0287 EA 18" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,289.99	848.04
<i>For Class 52 Rating, Deduct</i>	-440.56	
<i>For Class 54 Rating, Add</i>	616.18	
<i>For Class 55 Rating, Add</i>	923.97	
<i>For Class 56 Rating, Add</i>	1,227.76	
40 05 19 00-0288 EA 18" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,521.43	851.87
<i>For Class 52 Rating, Deduct</i>	-465.38	
<i>For Class 54 Rating, Add</i>	650.10	
<i>For Class 55 Rating, Add</i>	974.43	
<i>For Class 56 Rating, Add</i>	1,294.53	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0289	EA	18" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,752.88	855.70
		<i>For Class 52 Rating, Deduct</i>	-490.20	
		<i>For Class 54 Rating, Add</i>	684.01	
		<i>For Class 55 Rating, Add</i>	1,024.88	
		<i>For Class 56 Rating, Add</i>	1,361.30	
40 05 19 00-0290	EA	18" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,984.32	859.53
		<i>For Class 52 Rating, Deduct</i>	-515.02	
		<i>For Class 54 Rating, Add</i>	717.93	
		<i>For Class 55 Rating, Add</i>	1,075.34	
		<i>For Class 56 Rating, Add</i>	1,428.07	
40 05 19 00-0291	EA	18" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,215.76	863.36
		<i>For Class 52 Rating, Deduct</i>	-539.84	
		<i>For Class 54 Rating, Add</i>	751.84	
		<i>For Class 55 Rating, Add</i>	1,125.80	
		<i>For Class 56 Rating, Add</i>	1,494.85	
40 05 19 00-0292	EA	18" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,447.20	867.19
		<i>For Class 52 Rating, Deduct</i>	-564.66	
		<i>For Class 54 Rating, Add</i>	785.76	
		<i>For Class 55 Rating, Add</i>	1,176.25	
		<i>For Class 56 Rating, Add</i>	1,561.62	
40 05 19 00-0293	EA	18" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,678.64	871.02
		<i>For Class 52 Rating, Deduct</i>	-589.48	
		<i>For Class 54 Rating, Add</i>	819.67	
		<i>For Class 55 Rating, Add</i>	1,226.71	
		<i>For Class 56 Rating, Add</i>	1,628.39	
40 05 19 00-0294	EA	18" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,910.08	874.86
		<i>For Class 52 Rating, Deduct</i>	-614.30	
		<i>For Class 54 Rating, Add</i>	853.59	
		<i>For Class 55 Rating, Add</i>	1,277.17	
		<i>For Class 56 Rating, Add</i>	1,695.16	
40 05 19 00-0295	EA	18" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,141.53	878.69
		<i>For Class 52 Rating, Deduct</i>	-639.12	
		<i>For Class 54 Rating, Add</i>	887.50	
		<i>For Class 55 Rating, Add</i>	1,327.62	
		<i>For Class 56 Rating, Add</i>	1,761.93	
40 05 19 00-0296	EA	18" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,372.97	882.52
		<i>For Class 52 Rating, Deduct</i>	-663.94	
		<i>For Class 54 Rating, Add</i>	921.42	
		<i>For Class 55 Rating, Add</i>	1,378.08	
		<i>For Class 56 Rating, Add</i>	1,828.71	
40 05 19 00-0297	EA	18" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,604.42	886.34
		<i>For Class 52 Rating, Deduct</i>	-688.76	
		<i>For Class 54 Rating, Add</i>	955.34	
		<i>For Class 55 Rating, Add</i>	1,428.54	
		<i>For Class 56 Rating, Add</i>	1,895.48	
40 05 19 00-0298	EA	18" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,835.85	890.17
		<i>For Class 52 Rating, Deduct</i>	-713.58	
		<i>For Class 54 Rating, Add</i>	989.25	
		<i>For Class 55 Rating, Add</i>	1,478.99	
		<i>For Class 56 Rating, Add</i>	1,962.25	
40 05 19 00-0299	EA	18" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,067.29	894.00
		<i>For Class 52 Rating, Deduct</i>	-738.40	
		<i>For Class 54 Rating, Add</i>	1,023.17	
		<i>For Class 55 Rating, Add</i>	1,529.45	
		<i>For Class 56 Rating, Add</i>	2,029.02	
40 05 19 00-0300	EA	18" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,298.74	897.83
		<i>For Class 52 Rating, Deduct</i>	-763.22	
		<i>For Class 54 Rating, Add</i>	1,057.08	
		<i>For Class 55 Rating, Add</i>	1,579.91	
		<i>For Class 56 Rating, Add</i>	2,095.80	
40 05 19 00-0301	EA	18" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,530.18	901.66
		<i>For Class 52 Rating, Deduct</i>	-788.04	
		<i>For Class 54 Rating, Add</i>	1,091.00	
		<i>For Class 55 Rating, Add</i>	1,630.36	
		<i>For Class 56 Rating, Add</i>	2,162.57	
40 05 19 00-0302	EA	18" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,761.62	905.49
		<i>For Class 52 Rating, Deduct</i>	-812.86	
		<i>For Class 54 Rating, Add</i>	1,124.91	
		<i>For Class 55 Rating, Add</i>	1,680.82	
		<i>For Class 56 Rating, Add</i>	2,229.34	
40 05 19 00-0303	EA	18" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,993.07	909.33
		<i>For Class 52 Rating, Deduct</i>	-837.68	
		<i>For Class 54 Rating, Add</i>	1,158.83	
		<i>For Class 55 Rating, Add</i>	1,731.28	
		<i>For Class 56 Rating, Add</i>	2,296.11	
40 05 19 00-0304	EA	18" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,224.50	913.16
		<i>For Class 52 Rating, Deduct</i>	-862.50	
		<i>For Class 54 Rating, Add</i>	1,192.74	
		<i>For Class 55 Rating, Add</i>	1,781.73	
		<i>For Class 56 Rating, Add</i>	2,362.88	
40 05 19 00-0305	EA	18" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,455.94	916.99
		<i>For Class 52 Rating, Deduct</i>	-887.32	
		<i>For Class 54 Rating, Add</i>	1,226.66	
		<i>For Class 55 Rating, Add</i>	1,832.19	
		<i>For Class 56 Rating, Add</i>	2,429.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0306 EA 18" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,687.39	920.82
<i>For Class 52 Rating, Deduct</i>	-912.14	
<i>For Class 54 Rating, Add</i>	1,260.57	
<i>For Class 55 Rating, Add</i>	1,882.65	
<i>For Class 56 Rating, Add</i>	2,496.43	
40 05 19 00-0307 EA 18" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,918.83	924.65
<i>For Class 52 Rating, Deduct</i>	-936.96	
<i>For Class 54 Rating, Add</i>	1,294.49	
<i>For Class 55 Rating, Add</i>	1,933.10	
<i>For Class 56 Rating, Add</i>	2,563.20	
40 05 19 00-0308 EA 18" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,150.27	928.48
<i>For Class 52 Rating, Deduct</i>	-961.78	
<i>For Class 54 Rating, Add</i>	1,328.40	
<i>For Class 55 Rating, Add</i>	1,983.56	
<i>For Class 56 Rating, Add</i>	2,629.97	
40 05 19 00-0309 EA 18" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,381.72	932.31
<i>For Class 52 Rating, Deduct</i>	-986.60	
<i>For Class 54 Rating, Add</i>	1,362.32	
<i>For Class 55 Rating, Add</i>	2,034.02	
<i>For Class 56 Rating, Add</i>	2,696.75	
40 05 19 00-0310 EA 18" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,613.15	936.14
<i>For Class 52 Rating, Deduct</i>	-1,011.42	
<i>For Class 54 Rating, Add</i>	1,396.23	
<i>For Class 55 Rating, Add</i>	2,084.47	
<i>For Class 56 Rating, Add</i>	2,763.52	
40 05 19 00-0311 EA 18" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,844.59	939.97
<i>For Class 52 Rating, Deduct</i>	-1,036.24	
<i>For Class 54 Rating, Add</i>	1,430.15	
<i>For Class 55 Rating, Add</i>	2,134.93	
<i>For Class 56 Rating, Add</i>	2,830.29	
40 05 19 00-0312 EA 18" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,076.04	943.79
<i>For Class 52 Rating, Deduct</i>	-1,061.06	
<i>For Class 54 Rating, Add</i>	1,464.07	
<i>For Class 55 Rating, Add</i>	2,185.39	
<i>For Class 56 Rating, Add</i>	2,897.06	
40 05 19 00-0313 EA 18" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,307.48	947.63
<i>For Class 52 Rating, Deduct</i>	-1,085.88	
<i>For Class 54 Rating, Add</i>	1,497.98	
<i>For Class 55 Rating, Add</i>	2,235.84	
<i>For Class 56 Rating, Add</i>	2,963.83	
40 05 19 00-0314 EA 18" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,538.92	951.46
<i>For Class 52 Rating, Deduct</i>	-1,110.71	
<i>For Class 54 Rating, Add</i>	1,531.90	
<i>For Class 55 Rating, Add</i>	2,286.30	
<i>For Class 56 Rating, Add</i>	3,030.61	
40 05 19 00-0315 EA 18" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,770.37	955.29
<i>For Class 52 Rating, Deduct</i>	-1,135.53	
<i>For Class 54 Rating, Add</i>	1,565.81	
<i>For Class 55 Rating, Add</i>	2,336.76	
<i>For Class 56 Rating, Add</i>	3,097.38	
40 05 19 00-0316 EA 18" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,001.81	959.12
<i>For Class 52 Rating, Deduct</i>	-1,160.35	
<i>For Class 54 Rating, Add</i>	1,599.73	
<i>For Class 55 Rating, Add</i>	2,387.21	
<i>For Class 56 Rating, Add</i>	3,164.15	
40 05 19 00-0317 EA 18" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,233.24	962.95
<i>For Class 52 Rating, Deduct</i>	-1,185.17	
<i>For Class 54 Rating, Add</i>	1,633.64	
<i>For Class 55 Rating, Add</i>	2,437.67	
<i>For Class 56 Rating, Add</i>	3,230.92	
40 05 19 00-0318 EA 18" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,464.69	966.78
<i>For Class 52 Rating, Deduct</i>	-1,209.99	
<i>For Class 54 Rating, Add</i>	1,667.56	
<i>For Class 55 Rating, Add</i>	2,488.13	
<i>For Class 56 Rating, Add</i>	3,297.70	
40 05 19 00-0319 EA 18" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,696.13	970.61
<i>For Class 52 Rating, Deduct</i>	-1,234.81	
<i>For Class 54 Rating, Add</i>	1,701.47	
<i>For Class 55 Rating, Add</i>	2,538.58	
<i>For Class 56 Rating, Add</i>	3,364.47	
40 05 19 00-0320 20" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0321 EA 20" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,834.99	946.10
<i>For Class 52 Rating, Deduct</i>	-374.17	
<i>For Class 54 Rating, Add</i>	527.43	
<i>For Class 55 Rating, Add</i>	792.94	
<i>For Class 56 Rating, Add</i>	1,055.05	
40 05 19 00-0322 EA 20" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,100.27	949.93
<i>For Class 52 Rating, Deduct</i>	-402.71	
<i>For Class 54 Rating, Add</i>	566.42	
<i>For Class 55 Rating, Add</i>	850.94	
<i>For Class 56 Rating, Add</i>	1,131.80	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0323	EA		20" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,365.56	953.76
			<i>For Class 52 Rating, Deduct</i>	-431.25	
			<i>For Class 54 Rating, Add</i>	605.41	
			<i>For Class 55 Rating, Add</i>	908.95	
			<i>For Class 56 Rating, Add</i>	1,208.56	
40 05 19 00-0324	EA		20" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,630.85	957.59
			<i>For Class 52 Rating, Deduct</i>	-459.79	
			<i>For Class 54 Rating, Add</i>	644.40	
			<i>For Class 55 Rating, Add</i>	966.95	
			<i>For Class 56 Rating, Add</i>	1,285.32	
40 05 19 00-0325	EA		20" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,896.14	961.42
			<i>For Class 52 Rating, Deduct</i>	-488.34	
			<i>For Class 54 Rating, Add</i>	683.40	
			<i>For Class 55 Rating, Add</i>	1,024.96	
			<i>For Class 56 Rating, Add</i>	1,362.08	
40 05 19 00-0326	EA		20" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,161.42	965.25
			<i>For Class 52 Rating, Deduct</i>	-516.88	
			<i>For Class 54 Rating, Add</i>	722.39	
			<i>For Class 55 Rating, Add</i>	1,082.96	
			<i>For Class 56 Rating, Add</i>	1,438.83	
40 05 19 00-0327	EA		20" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,426.71	969.08
			<i>For Class 52 Rating, Deduct</i>	-545.42	
			<i>For Class 54 Rating, Add</i>	761.38	
			<i>For Class 55 Rating, Add</i>	1,140.96	
			<i>For Class 56 Rating, Add</i>	1,515.59	
40 05 19 00-0328	EA		20" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,692.00	972.91
			<i>For Class 52 Rating, Deduct</i>	-573.97	
			<i>For Class 54 Rating, Add</i>	800.37	
			<i>For Class 55 Rating, Add</i>	1,198.97	
			<i>For Class 56 Rating, Add</i>	1,592.35	
40 05 19 00-0329	EA		20" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,957.28	976.74
			<i>For Class 52 Rating, Deduct</i>	-602.51	
			<i>For Class 54 Rating, Add</i>	839.36	
			<i>For Class 55 Rating, Add</i>	1,256.97	
			<i>For Class 56 Rating, Add</i>	1,669.10	
40 05 19 00-0330	EA		20" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,222.58	980.57
			<i>For Class 52 Rating, Deduct</i>	-631.05	
			<i>For Class 54 Rating, Add</i>	878.36	
			<i>For Class 55 Rating, Add</i>	1,314.98	
			<i>For Class 56 Rating, Add</i>	1,745.86	
40 05 19 00-0331	EA		20" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,487.86	984.41
			<i>For Class 52 Rating, Deduct</i>	-659.60	
			<i>For Class 54 Rating, Add</i>	917.35	
			<i>For Class 55 Rating, Add</i>	1,372.98	
			<i>For Class 56 Rating, Add</i>	1,822.62	
40 05 19 00-0332	EA		20" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,753.14	988.23
			<i>For Class 52 Rating, Deduct</i>	-688.14	
			<i>For Class 54 Rating, Add</i>	956.34	
			<i>For Class 55 Rating, Add</i>	1,430.98	
			<i>For Class 56 Rating, Add</i>	1,899.37	
40 05 19 00-0333	EA		20" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,018.44	992.06
			<i>For Class 52 Rating, Deduct</i>	-716.68	
			<i>For Class 54 Rating, Add</i>	995.33	
			<i>For Class 55 Rating, Add</i>	1,488.99	
			<i>For Class 56 Rating, Add</i>	1,976.13	
40 05 19 00-0334	EA		20" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,283.72	995.89
			<i>For Class 52 Rating, Deduct</i>	-745.23	
			<i>For Class 54 Rating, Add</i>	1,034.33	
			<i>For Class 55 Rating, Add</i>	1,546.99	
			<i>For Class 56 Rating, Add</i>	2,052.88	
40 05 19 00-0335	EA		20" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,549.01	999.72
			<i>For Class 52 Rating, Deduct</i>	-773.77	
			<i>For Class 54 Rating, Add</i>	1,073.32	
			<i>For Class 55 Rating, Add</i>	1,605.00	
			<i>For Class 56 Rating, Add</i>	2,129.64	
40 05 19 00-0336	EA		20" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,814.30	1,003.55
			<i>For Class 52 Rating, Deduct</i>	-802.31	
			<i>For Class 54 Rating, Add</i>	1,112.31	
			<i>For Class 55 Rating, Add</i>	1,663.00	
			<i>For Class 56 Rating, Add</i>	2,206.40	
40 05 19 00-0337	EA		20" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,079.59	1,007.38
			<i>For Class 52 Rating, Deduct</i>	-830.86	
			<i>For Class 54 Rating, Add</i>	1,151.30	
			<i>For Class 55 Rating, Add</i>	1,721.01	
			<i>For Class 56 Rating, Add</i>	2,283.16	
40 05 19 00-0338	EA		20" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,344.87	1,011.21
			<i>For Class 52 Rating, Deduct</i>	-859.40	
			<i>For Class 54 Rating, Add</i>	1,190.30	
			<i>For Class 55 Rating, Add</i>	1,779.01	
			<i>For Class 56 Rating, Add</i>	2,359.91	
40 05 19 00-0339	EA		20" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,610.16	1,015.04
			<i>For Class 52 Rating, Deduct</i>	-887.94	
			<i>For Class 54 Rating, Add</i>	1,229.29	
			<i>For Class 55 Rating, Add</i>	1,837.01	
			<i>For Class 56 Rating, Add</i>	2,436.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0340 EA 20" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,875.45	1,018.87
<i>For Class 52 Rating, Deduct</i>	-916.49	
<i>For Class 54 Rating, Add</i>	1,268.28	
<i>For Class 55 Rating, Add</i>	1,895.02	
<i>For Class 56 Rating, Add</i>	2,513.43	
40 05 19 00-0341 EA 20" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,140.73	1,022.71
<i>For Class 52 Rating, Deduct</i>	-945.03	
<i>For Class 54 Rating, Add</i>	1,307.27	
<i>For Class 55 Rating, Add</i>	1,953.02	
<i>For Class 56 Rating, Add</i>	2,590.18	
40 05 19 00-0342 EA 20" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,406.03	1,026.54
<i>For Class 52 Rating, Deduct</i>	-973.57	
<i>For Class 54 Rating, Add</i>	1,346.26	
<i>For Class 55 Rating, Add</i>	2,011.03	
<i>For Class 56 Rating, Add</i>	2,666.94	
40 05 19 00-0343 EA 20" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,671.31	1,030.37
<i>For Class 52 Rating, Deduct</i>	-1,002.12	
<i>For Class 54 Rating, Add</i>	1,385.26	
<i>For Class 55 Rating, Add</i>	2,069.03	
<i>For Class 56 Rating, Add</i>	2,743.70	
40 05 19 00-0344 EA 20" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,936.59	1,034.20
<i>For Class 52 Rating, Deduct</i>	-1,030.66	
<i>For Class 54 Rating, Add</i>	1,424.25	
<i>For Class 55 Rating, Add</i>	2,127.03	
<i>For Class 56 Rating, Add</i>	2,820.45	
40 05 19 00-0345 EA 20" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,201.89	1,038.03
<i>For Class 52 Rating, Deduct</i>	-1,059.20	
<i>For Class 54 Rating, Add</i>	1,463.24	
<i>For Class 55 Rating, Add</i>	2,185.04	
<i>For Class 56 Rating, Add</i>	2,897.21	
40 05 19 00-0346 EA 20" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,467.17	1,041.86
<i>For Class 52 Rating, Deduct</i>	-1,087.75	
<i>For Class 54 Rating, Add</i>	1,502.23	
<i>For Class 55 Rating, Add</i>	2,243.04	
<i>For Class 56 Rating, Add</i>	2,973.97	
40 05 19 00-0347 EA 20" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,732.46	1,045.68
<i>For Class 52 Rating, Deduct</i>	-1,116.29	
<i>For Class 54 Rating, Add</i>	1,541.23	
<i>For Class 55 Rating, Add</i>	2,301.05	
<i>For Class 56 Rating, Add</i>	3,050.72	
40 05 19 00-0348 EA 20" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,997.75	1,049.51
<i>For Class 52 Rating, Deduct</i>	-1,144.83	
<i>For Class 54 Rating, Add</i>	1,580.22	
<i>For Class 55 Rating, Add</i>	2,359.05	
<i>For Class 56 Rating, Add</i>	3,127.48	
40 05 19 00-0349 EA 20" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,263.04	1,053.34
<i>For Class 52 Rating, Deduct</i>	-1,173.38	
<i>For Class 54 Rating, Add</i>	1,619.21	
<i>For Class 55 Rating, Add</i>	2,417.06	
<i>For Class 56 Rating, Add</i>	3,204.24	
40 05 19 00-0350 EA 20" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,528.32	1,057.18
<i>For Class 52 Rating, Deduct</i>	-1,201.92	
<i>For Class 54 Rating, Add</i>	1,658.20	
<i>For Class 55 Rating, Add</i>	2,475.06	
<i>For Class 56 Rating, Add</i>	3,280.99	
40 05 19 00-0351 EA 20" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,793.61	1,061.01
<i>For Class 52 Rating, Deduct</i>	-1,230.46	
<i>For Class 54 Rating, Add</i>	1,697.19	
<i>For Class 55 Rating, Add</i>	2,533.06	
<i>For Class 56 Rating, Add</i>	3,357.75	
40 05 19 00-0352 EA 20" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,058.90	1,064.84
<i>For Class 52 Rating, Deduct</i>	-1,259.01	
<i>For Class 54 Rating, Add</i>	1,736.19	
<i>For Class 55 Rating, Add</i>	2,591.07	
<i>For Class 56 Rating, Add</i>	3,434.51	
40 05 19 00-0353 EA 20" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,324.18	1,068.67
<i>For Class 52 Rating, Deduct</i>	-1,287.55	
<i>For Class 54 Rating, Add</i>	1,775.18	
<i>For Class 55 Rating, Add</i>	2,649.07	
<i>For Class 56 Rating, Add</i>	3,511.26	
40 05 19 00-0354 EA 20" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,589.48	1,072.50
<i>For Class 52 Rating, Deduct</i>	-1,316.09	
<i>For Class 54 Rating, Add</i>	1,814.17	
<i>For Class 55 Rating, Add</i>	2,707.08	
<i>For Class 56 Rating, Add</i>	3,588.02	
40 05 19 00-0355 EA 20" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,854.76	1,076.33
<i>For Class 52 Rating, Deduct</i>	-1,344.64	
<i>For Class 54 Rating, Add</i>	1,853.16	
<i>For Class 55 Rating, Add</i>	2,765.08	
<i>For Class 56 Rating, Add</i>	3,664.78	
40 05 19 00-0356 EA 20" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,120.04	1,080.16
<i>For Class 52 Rating, Deduct</i>	-1,373.18	
<i>For Class 54 Rating, Add</i>	1,892.16	
<i>For Class 55 Rating, Add</i>	2,823.09	
<i>For Class 56 Rating, Add</i>	3,741.53	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0357	EA	20" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,385.34	1,083.99
		<i>For Class 52 Rating, Deduct</i>	-1,401.72	
		<i>For Class 54 Rating, Add</i>	1,931.15	
		<i>For Class 55 Rating, Add</i>	2,881.09	
		<i>For Class 56 Rating, Add</i>	3,818.29	
40 05 19 00-0358	EA	20" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,650.62	1,087.82
		<i>For Class 52 Rating, Deduct</i>	-1,430.27	
		<i>For Class 54 Rating, Add</i>	1,970.14	
		<i>For Class 55 Rating, Add</i>	2,939.09	
		<i>For Class 56 Rating, Add</i>	3,895.05	
40 05 19 00-0359 24" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)				
40 05 19 00-0360	EA	24" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,940.40	1,118.46
		<i>For Class 52 Rating, Deduct</i>	-467.03	
		<i>For Class 54 Rating, Add</i>	657.20	
		<i>For Class 55 Rating, Add</i>	987.48	
		<i>For Class 56 Rating, Add</i>	1,313.51	
40 05 19 00-0361	EA	24" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,267.74	1,122.29
		<i>For Class 52 Rating, Deduct</i>	-502.40	
		<i>For Class 54 Rating, Add</i>	705.50	
		<i>For Class 55 Rating, Add</i>	1,059.32	
		<i>For Class 56 Rating, Add</i>	1,408.57	
40 05 19 00-0362	EA	24" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,595.07	1,126.12
		<i>For Class 52 Rating, Deduct</i>	-537.77	
		<i>For Class 54 Rating, Add</i>	753.80	
		<i>For Class 55 Rating, Add</i>	1,131.16	
		<i>For Class 56 Rating, Add</i>	1,503.63	
40 05 19 00-0363	EA	24" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,922.42	1,129.95
		<i>For Class 52 Rating, Deduct</i>	-573.14	
		<i>For Class 54 Rating, Add</i>	802.10	
		<i>For Class 55 Rating, Add</i>	1,203.00	
		<i>For Class 56 Rating, Add</i>	1,598.69	
40 05 19 00-0364	EA	24" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,249.75	1,133.79
		<i>For Class 52 Rating, Deduct</i>	-608.51	
		<i>For Class 54 Rating, Add</i>	850.40	
		<i>For Class 55 Rating, Add</i>	1,274.84	
		<i>For Class 56 Rating, Add</i>	1,693.75	
40 05 19 00-0365	EA	24" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,577.09	1,137.62
		<i>For Class 52 Rating, Deduct</i>	-643.88	
		<i>For Class 54 Rating, Add</i>	898.70	
		<i>For Class 55 Rating, Add</i>	1,346.68	
		<i>For Class 56 Rating, Add</i>	1,788.82	
40 05 19 00-0366	EA	24" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,904.43	1,141.45
		<i>For Class 52 Rating, Deduct</i>	-679.25	
		<i>For Class 54 Rating, Add</i>	947.00	
		<i>For Class 55 Rating, Add</i>	1,418.53	
		<i>For Class 56 Rating, Add</i>	1,883.88	
40 05 19 00-0367	EA	24" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,231.77	1,145.28
		<i>For Class 52 Rating, Deduct</i>	-714.62	
		<i>For Class 54 Rating, Add</i>	995.30	
		<i>For Class 55 Rating, Add</i>	1,490.37	
		<i>For Class 56 Rating, Add</i>	1,978.94	
40 05 19 00-0368	EA	24" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,559.12	1,149.11
		<i>For Class 52 Rating, Deduct</i>	-749.98	
		<i>For Class 54 Rating, Add</i>	1,043.60	
		<i>For Class 55 Rating, Add</i>	1,562.21	
		<i>For Class 56 Rating, Add</i>	2,074.00	
40 05 19 00-0369	EA	24" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,886.46	1,152.94
		<i>For Class 52 Rating, Deduct</i>	-785.35	
		<i>For Class 54 Rating, Add</i>	1,091.90	
		<i>For Class 55 Rating, Add</i>	1,634.05	
		<i>For Class 56 Rating, Add</i>	2,169.06	
40 05 19 00-0370	EA	24" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,213.79	1,156.77
		<i>For Class 52 Rating, Deduct</i>	-820.72	
		<i>For Class 54 Rating, Add</i>	1,140.20	
		<i>For Class 55 Rating, Add</i>	1,705.89	
		<i>For Class 56 Rating, Add</i>	2,264.12	
40 05 19 00-0371	EA	24" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,541.13	1,160.59
		<i>For Class 52 Rating, Deduct</i>	-856.09	
		<i>For Class 54 Rating, Add</i>	1,188.50	
		<i>For Class 55 Rating, Add</i>	1,777.73	
		<i>For Class 56 Rating, Add</i>	2,359.18	
40 05 19 00-0372	EA	24" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,868.47	1,164.42
		<i>For Class 52 Rating, Deduct</i>	-891.46	
		<i>For Class 54 Rating, Add</i>	1,236.80	
		<i>For Class 55 Rating, Add</i>	1,849.58	
		<i>For Class 56 Rating, Add</i>	2,454.25	
40 05 19 00-0373	EA	24" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,195.80	1,168.26
		<i>For Class 52 Rating, Deduct</i>	-926.83	
		<i>For Class 54 Rating, Add</i>	1,285.10	
		<i>For Class 55 Rating, Add</i>	1,921.42	
		<i>For Class 56 Rating, Add</i>	2,549.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0374 EA 24" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,523.15	1,172.09
<i>For Class 52 Rating, Deduct</i>	-962.20	
<i>For Class 54 Rating, Add</i>	1,333.40	
<i>For Class 55 Rating, Add</i>	1,993.26	
<i>For Class 56 Rating, Add</i>	2,644.37	
40 05 19 00-0375 EA 24" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,850.48	1,175.92
<i>For Class 52 Rating, Deduct</i>	-997.57	
<i>For Class 54 Rating, Add</i>	1,381.70	
<i>For Class 55 Rating, Add</i>	2,065.10	
<i>For Class 56 Rating, Add</i>	2,739.43	
40 05 19 00-0376 EA 24" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,177.82	1,179.75
<i>For Class 52 Rating, Deduct</i>	-1,032.94	
<i>For Class 54 Rating, Add</i>	1,430.00	
<i>For Class 55 Rating, Add</i>	2,136.94	
<i>For Class 56 Rating, Add</i>	2,834.49	
40 05 19 00-0377 EA 24" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,505.16	1,183.58
<i>For Class 52 Rating, Deduct</i>	-1,068.30	
<i>For Class 54 Rating, Add</i>	1,478.30	
<i>For Class 55 Rating, Add</i>	2,208.78	
<i>For Class 56 Rating, Add</i>	2,929.55	
40 05 19 00-0378 EA 24" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,832.50	1,187.41
<i>For Class 52 Rating, Deduct</i>	-1,103.67	
<i>For Class 54 Rating, Add</i>	1,526.60	
<i>For Class 55 Rating, Add</i>	2,280.62	
<i>For Class 56 Rating, Add</i>	3,024.62	
40 05 19 00-0379 EA 24" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,159.83	1,191.24
<i>For Class 52 Rating, Deduct</i>	-1,139.04	
<i>For Class 54 Rating, Add</i>	1,574.90	
<i>For Class 55 Rating, Add</i>	2,352.47	
<i>For Class 56 Rating, Add</i>	3,119.68	
40 05 19 00-0380 EA 24" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,487.18	1,195.07
<i>For Class 52 Rating, Deduct</i>	-1,174.41	
<i>For Class 54 Rating, Add</i>	1,623.20	
<i>For Class 55 Rating, Add</i>	2,424.31	
<i>For Class 56 Rating, Add</i>	3,214.74	
40 05 19 00-0381 EA 24" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,814.51	1,198.90
<i>For Class 52 Rating, Deduct</i>	-1,209.78	
<i>For Class 54 Rating, Add</i>	1,671.50	
<i>For Class 55 Rating, Add</i>	2,496.15	
<i>For Class 56 Rating, Add</i>	3,309.80	
40 05 19 00-0382 EA 24" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,141.85	1,202.73
<i>For Class 52 Rating, Deduct</i>	-1,245.15	
<i>For Class 54 Rating, Add</i>	1,719.80	
<i>For Class 55 Rating, Add</i>	2,567.99	
<i>For Class 56 Rating, Add</i>	3,404.86	
40 05 19 00-0383 EA 24" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,469.19	1,206.57
<i>For Class 52 Rating, Deduct</i>	-1,280.52	
<i>For Class 54 Rating, Add</i>	1,768.10	
<i>For Class 55 Rating, Add</i>	2,639.83	
<i>For Class 56 Rating, Add</i>	3,499.93	
40 05 19 00-0384 EA 24" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,796.53	1,210.40
<i>For Class 52 Rating, Deduct</i>	-1,315.89	
<i>For Class 54 Rating, Add</i>	1,816.40	
<i>For Class 55 Rating, Add</i>	2,711.67	
<i>For Class 56 Rating, Add</i>	3,594.99	
40 05 19 00-0385 EA 24" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,123.86	1,214.22
<i>For Class 52 Rating, Deduct</i>	-1,351.25	
<i>For Class 54 Rating, Add</i>	1,864.70	
<i>For Class 55 Rating, Add</i>	2,783.51	
<i>For Class 56 Rating, Add</i>	3,690.05	
40 05 19 00-0386 EA 24" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,451.21	1,218.05
<i>For Class 52 Rating, Deduct</i>	-1,386.62	
<i>For Class 54 Rating, Add</i>	1,913.00	
<i>For Class 55 Rating, Add</i>	2,855.36	
<i>For Class 56 Rating, Add</i>	3,785.11	
40 05 19 00-0387 EA 24" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,778.54	1,221.88
<i>For Class 52 Rating, Deduct</i>	-1,421.99	
<i>For Class 54 Rating, Add</i>	1,961.30	
<i>For Class 55 Rating, Add</i>	2,927.20	
<i>For Class 56 Rating, Add</i>	3,880.17	
40 05 19 00-0388 EA 24" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,105.87	1,225.71
<i>For Class 52 Rating, Deduct</i>	-1,457.36	
<i>For Class 54 Rating, Add</i>	2,009.60	
<i>For Class 55 Rating, Add</i>	2,999.04	
<i>For Class 56 Rating, Add</i>	3,975.23	
40 05 19 00-0389 EA 24" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,531.87	1,294.66
<i>For Class 52 Rating, Deduct</i>	-1,492.73	
<i>For Class 54 Rating, Add</i>	2,059.08	
<i>For Class 55 Rating, Add</i>	3,073.25	
<i>For Class 56 Rating, Add</i>	4,073.85	
40 05 19 00-0390 EA 24" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,859.21	1,298.49
<i>For Class 52 Rating, Deduct</i>	-1,528.10	
<i>For Class 54 Rating, Add</i>	2,107.38	
<i>For Class 55 Rating, Add</i>	3,145.09	
<i>For Class 56 Rating, Add</i>	4,168.91	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0391	EA		24" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,186.55	1,302.32
			<i>For Class 52 Rating, Deduct</i>	-1,563.47	
			<i>For Class 54 Rating, Add</i>	2,155.68	
			<i>For Class 55 Rating, Add</i>	3,216.93	
			<i>For Class 56 Rating, Add</i>	4,263.97	
40 05 19 00-0392	EA		24" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,513.88	1,306.15
			<i>For Class 52 Rating, Deduct</i>	-1,598.84	
			<i>For Class 54 Rating, Add</i>	2,203.98	
			<i>For Class 55 Rating, Add</i>	3,288.77	
			<i>For Class 56 Rating, Add</i>	4,359.03	
40 05 19 00-0393	EA		24" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,841.23	1,309.98
			<i>For Class 52 Rating, Deduct</i>	-1,634.21	
			<i>For Class 54 Rating, Add</i>	2,252.28	
			<i>For Class 55 Rating, Add</i>	3,360.62	
			<i>For Class 56 Rating, Add</i>	4,454.09	
40 05 19 00-0394	EA		24" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,168.56	1,313.81
			<i>For Class 52 Rating, Deduct</i>	-1,669.57	
			<i>For Class 54 Rating, Add</i>	2,300.58	
			<i>For Class 55 Rating, Add</i>	3,432.46	
			<i>For Class 56 Rating, Add</i>	4,549.15	
40 05 19 00-0395	EA		24" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,495.90	1,317.65
			<i>For Class 52 Rating, Deduct</i>	-1,704.94	
			<i>For Class 54 Rating, Add</i>	2,348.88	
			<i>For Class 55 Rating, Add</i>	3,504.30	
			<i>For Class 56 Rating, Add</i>	4,644.22	
40 05 19 00-0396	EA		24" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,823.24	1,321.48
			<i>For Class 52 Rating, Deduct</i>	-1,740.31	
			<i>For Class 54 Rating, Add</i>	2,397.18	
			<i>For Class 55 Rating, Add</i>	3,576.14	
			<i>For Class 56 Rating, Add</i>	4,739.28	
40 05 19 00-0397	EA		24" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,150.58	1,325.31
			<i>For Class 52 Rating, Deduct</i>	-1,775.68	
			<i>For Class 54 Rating, Add</i>	2,445.48	
			<i>For Class 55 Rating, Add</i>	3,647.98	
			<i>For Class 56 Rating, Add</i>	4,834.34	
40 05 19 00-0398			30" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0399	EA		30" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,141.42	1,578.11
			<i>For Class 52 Rating, Deduct</i>	-742.54	
			<i>For Class 54 Rating, Add</i>	1,041.25	
			<i>For Class 55 Rating, Add</i>	1,562.71	
			<i>For Class 56 Rating, Add</i>	2,077.43	
40 05 19 00-0400	EA		30" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,611.67	1,581.94
			<i>For Class 52 Rating, Deduct</i>	-793.63	
			<i>For Class 54 Rating, Add</i>	1,110.98	
			<i>For Class 55 Rating, Add</i>	1,666.42	
			<i>For Class 56 Rating, Add</i>	2,214.65	
40 05 19 00-0401	EA		30" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,081.91	1,585.77
			<i>For Class 52 Rating, Deduct</i>	-844.72	
			<i>For Class 54 Rating, Add</i>	1,180.72	
			<i>For Class 55 Rating, Add</i>	1,770.13	
			<i>For Class 56 Rating, Add</i>	2,351.87	
40 05 19 00-0402	EA		30" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,552.15	1,589.60
			<i>For Class 52 Rating, Deduct</i>	-895.80	
			<i>For Class 54 Rating, Add</i>	1,250.45	
			<i>For Class 55 Rating, Add</i>	1,873.84	
			<i>For Class 56 Rating, Add</i>	2,489.09	
40 05 19 00-0403	EA		30" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,022.39	1,593.43
			<i>For Class 52 Rating, Deduct</i>	-946.89	
			<i>For Class 54 Rating, Add</i>	1,320.19	
			<i>For Class 55 Rating, Add</i>	1,977.55	
			<i>For Class 56 Rating, Add</i>	2,626.30	
40 05 19 00-0404	EA		30" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,492.63	1,597.26
			<i>For Class 52 Rating, Deduct</i>	-997.98	
			<i>For Class 54 Rating, Add</i>	1,389.92	
			<i>For Class 55 Rating, Add</i>	2,081.26	
			<i>For Class 56 Rating, Add</i>	2,763.52	
40 05 19 00-0405	EA		30" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,962.87	1,601.09
			<i>For Class 52 Rating, Deduct</i>	-1,049.07	
			<i>For Class 54 Rating, Add</i>	1,459.66	
			<i>For Class 55 Rating, Add</i>	2,184.97	
			<i>For Class 56 Rating, Add</i>	2,900.74	
40 05 19 00-0406	EA		30" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,433.12	1,604.92
			<i>For Class 52 Rating, Deduct</i>	-1,100.16	
			<i>For Class 54 Rating, Add</i>	1,529.39	
			<i>For Class 55 Rating, Add</i>	2,288.68	
			<i>For Class 56 Rating, Add</i>	3,037.96	
40 05 19 00-0407	EA		30" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,903.36	1,608.74
			<i>For Class 52 Rating, Deduct</i>	-1,151.24	
			<i>For Class 54 Rating, Add</i>	1,599.13	
			<i>For Class 55 Rating, Add</i>	2,392.39	
			<i>For Class 56 Rating, Add</i>	3,175.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0408 EA 30" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,373.60	1,612.57
<i>For Class 52 Rating, Deduct</i>	-1,202.33	
<i>For Class 54 Rating, Add</i>	1,668.86	
<i>For Class 55 Rating, Add</i>	2,496.10	
<i>For Class 56 Rating, Add</i>	3,312.40	
40 05 19 00-0409 EA 30" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,843.85	1,616.41
<i>For Class 52 Rating, Deduct</i>	-1,253.42	
<i>For Class 54 Rating, Add</i>	1,738.60	
<i>For Class 55 Rating, Add</i>	2,599.81	
<i>For Class 56 Rating, Add</i>	3,449.62	
40 05 19 00-0410 EA 30" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,314.09	1,620.24
<i>For Class 52 Rating, Deduct</i>	-1,304.51	
<i>For Class 54 Rating, Add</i>	1,808.34	
<i>For Class 55 Rating, Add</i>	2,703.51	
<i>For Class 56 Rating, Add</i>	3,586.83	
40 05 19 00-0411 EA 30" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,784.33	1,624.07
<i>For Class 52 Rating, Deduct</i>	-1,355.60	
<i>For Class 54 Rating, Add</i>	1,878.07	
<i>For Class 55 Rating, Add</i>	2,807.22	
<i>For Class 56 Rating, Add</i>	3,724.05	
40 05 19 00-0412 EA 30" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,254.58	1,627.90
<i>For Class 52 Rating, Deduct</i>	-1,406.69	
<i>For Class 54 Rating, Add</i>	1,947.81	
<i>For Class 55 Rating, Add</i>	2,910.93	
<i>For Class 56 Rating, Add</i>	3,861.27	
40 05 19 00-0413 EA 30" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,724.82	1,631.73
<i>For Class 52 Rating, Deduct</i>	-1,457.78	
<i>For Class 54 Rating, Add</i>	2,017.54	
<i>For Class 55 Rating, Add</i>	3,014.64	
<i>For Class 56 Rating, Add</i>	3,998.49	
40 05 19 00-0414 EA 30" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,195.05	1,635.56
<i>For Class 52 Rating, Deduct</i>	-1,508.86	
<i>For Class 54 Rating, Add</i>	2,087.28	
<i>For Class 55 Rating, Add</i>	3,118.35	
<i>For Class 56 Rating, Add</i>	4,135.71	
40 05 19 00-0415 EA 30" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,665.30	1,639.39
<i>For Class 52 Rating, Deduct</i>	-1,559.95	
<i>For Class 54 Rating, Add</i>	2,157.01	
<i>For Class 55 Rating, Add</i>	3,222.06	
<i>For Class 56 Rating, Add</i>	4,272.93	
40 05 19 00-0416 EA 30" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,135.54	1,643.22
<i>For Class 52 Rating, Deduct</i>	-1,611.04	
<i>For Class 54 Rating, Add</i>	2,226.75	
<i>For Class 55 Rating, Add</i>	3,325.77	
<i>For Class 56 Rating, Add</i>	4,410.14	
40 05 19 00-0417 EA 30" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,605.79	1,647.05
<i>For Class 52 Rating, Deduct</i>	-1,662.13	
<i>For Class 54 Rating, Add</i>	2,296.48	
<i>For Class 55 Rating, Add</i>	3,429.48	
<i>For Class 56 Rating, Add</i>	4,547.36	
40 05 19 00-0418 EA 30" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,076.03	1,650.89
<i>For Class 52 Rating, Deduct</i>	-1,713.22	
<i>For Class 54 Rating, Add</i>	2,366.22	
<i>For Class 55 Rating, Add</i>	3,533.19	
<i>For Class 56 Rating, Add</i>	4,684.58	
40 05 19 00-0419 EA 30" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,546.27	1,654.72
<i>For Class 52 Rating, Deduct</i>	-1,764.30	
<i>For Class 54 Rating, Add</i>	2,435.96	
<i>For Class 55 Rating, Add</i>	3,636.90	
<i>For Class 56 Rating, Add</i>	4,821.80	
40 05 19 00-0420 EA 30" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,016.52	1,658.55
<i>For Class 52 Rating, Deduct</i>	-1,815.39	
<i>For Class 54 Rating, Add</i>	2,505.69	
<i>For Class 55 Rating, Add</i>	3,740.61	
<i>For Class 56 Rating, Add</i>	4,959.02	
40 05 19 00-0421 EA 30" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,486.76	1,662.38
<i>For Class 52 Rating, Deduct</i>	-1,866.48	
<i>For Class 54 Rating, Add</i>	2,575.43	
<i>For Class 55 Rating, Add</i>	3,844.32	
<i>For Class 56 Rating, Add</i>	5,096.24	
40 05 19 00-0422 EA 30" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,957.00	1,666.20
<i>For Class 52 Rating, Deduct</i>	-1,917.57	
<i>For Class 54 Rating, Add</i>	2,645.16	
<i>For Class 55 Rating, Add</i>	3,948.03	
<i>For Class 56 Rating, Add</i>	5,233.46	
40 05 19 00-0423 EA 30" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,425.37	1,670.03
<i>For Class 52 Rating, Deduct</i>	-1,968.45	
<i>For Class 54 Rating, Add</i>	2,714.62	
<i>For Class 55 Rating, Add</i>	4,051.32	
<i>For Class 56 Rating, Add</i>	5,370.12	
40 05 19 00-0424 EA 30" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,897.48	1,673.86
<i>For Class 52 Rating, Deduct</i>	-2,019.75	
<i>For Class 54 Rating, Add</i>	2,784.63	
<i>For Class 55 Rating, Add</i>	4,155.44	
<i>For Class 56 Rating, Add</i>	5,507.89	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0425 EA 30" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,367.72	1,677.69
For Class 52 Rating, Deduct	-2,070.83	
For Class 54 Rating, Add	2,854.37	
For Class 55 Rating, Add	4,259.15	
For Class 56 Rating, Add	5,645.11	
40 05 19 00-0426 EA 30" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,837.97	1,681.52
For Class 52 Rating, Deduct	-2,121.92	
For Class 54 Rating, Add	2,924.10	
For Class 55 Rating, Add	4,362.86	
For Class 56 Rating, Add	5,782.33	
40 05 19 00-0427 EA 30" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,308.21	1,685.35
For Class 52 Rating, Deduct	-2,173.01	
For Class 54 Rating, Add	2,993.84	
For Class 55 Rating, Add	4,466.57	
For Class 56 Rating, Add	5,919.55	
40 05 19 00-0428 EA 30" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,778.45	1,689.19
For Class 52 Rating, Deduct	-2,224.10	
For Class 54 Rating, Add	3,063.57	
For Class 55 Rating, Add	4,570.28	
For Class 56 Rating, Add	6,056.77	
40 05 19 00-0429 EA 30" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,248.70	1,693.02
For Class 52 Rating, Deduct	-2,275.19	
For Class 54 Rating, Add	3,133.31	
For Class 55 Rating, Add	4,673.99	
For Class 56 Rating, Add	6,193.98	
40 05 19 00-0430 EA 30" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,718.94	1,696.85
For Class 52 Rating, Deduct	-2,326.28	
For Class 54 Rating, Add	3,203.05	
For Class 55 Rating, Add	4,777.70	
For Class 56 Rating, Add	6,331.20	
40 05 19 00-0431 EA 30" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,189.18	1,700.68
For Class 52 Rating, Deduct	-2,377.36	
For Class 54 Rating, Add	3,272.78	
For Class 55 Rating, Add	4,881.41	
For Class 56 Rating, Add	6,468.42	
40 05 19 00-0432 EA 30" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,659.43	1,704.51
For Class 52 Rating, Deduct	-2,428.45	
For Class 54 Rating, Add	3,342.52	
For Class 55 Rating, Add	4,985.12	
For Class 56 Rating, Add	6,605.64	
40 05 19 00-0433 EA 30" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,129.67	1,708.34
For Class 52 Rating, Deduct	-2,479.54	
For Class 54 Rating, Add	3,412.25	
For Class 55 Rating, Add	5,088.83	
For Class 56 Rating, Add	6,742.86	
40 05 19 00-0434 EA 30" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,599.91	1,712.17
For Class 52 Rating, Deduct	-2,530.63	
For Class 54 Rating, Add	3,481.99	
For Class 55 Rating, Add	5,192.54	
For Class 56 Rating, Add	6,880.08	
40 05 19 00-0435 EA 30" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,070.15	1,716.00
For Class 52 Rating, Deduct	-2,581.72	
For Class 54 Rating, Add	3,551.72	
For Class 55 Rating, Add	5,296.24	
For Class 56 Rating, Add	7,017.29	
40 05 19 00-0436 EA 30" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,540.39	1,719.83
For Class 52 Rating, Deduct	-2,632.80	
For Class 54 Rating, Add	3,621.46	
For Class 55 Rating, Add	5,399.95	
For Class 56 Rating, Add	7,154.51	
40 05 19 00-0437 36" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0438 EA 36" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,688.67	1,999.45
For Class 52 Rating, Deduct	-1,062.51	
For Class 54 Rating, Add	1,485.23	
For Class 55 Rating, Add	2,226.71	
For Class 56 Rating, Add	2,958.52	
40 05 19 00-0439 EA 36" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,326.26	2,003.27
For Class 52 Rating, Deduct	-1,132.01	
For Class 54 Rating, Add	1,580.07	
For Class 55 Rating, Add	2,367.74	
For Class 56 Rating, Add	3,145.11	
40 05 19 00-0440 EA 36" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,963.85	2,007.10
For Class 52 Rating, Deduct	-1,201.51	
For Class 54 Rating, Add	1,674.91	
For Class 55 Rating, Add	2,508.77	
For Class 56 Rating, Add	3,331.70	
40 05 19 00-0441 EA 36" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,601.45	2,010.93
For Class 52 Rating, Deduct	-1,271.00	
For Class 54 Rating, Add	1,769.75	
For Class 55 Rating, Add	2,649.79	
For Class 56 Rating, Add	3,518.29	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0442 EA 36" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,239.03	2,014.76
<i>For Class 52 Rating, Deduct</i>	-1,340.50	
<i>For Class 54 Rating, Add</i>	1,864.58	
<i>For Class 55 Rating, Add</i>	2,790.82	
<i>For Class 56 Rating, Add</i>	3,704.87	
40 05 19 00-0443 EA 36" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,876.62	2,018.59
<i>For Class 52 Rating, Deduct</i>	-1,410.00	
<i>For Class 54 Rating, Add</i>	1,959.42	
<i>For Class 55 Rating, Add</i>	2,931.85	
<i>For Class 56 Rating, Add</i>	3,891.46	
40 05 19 00-0444 EA 36" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,514.22	2,022.43
<i>For Class 52 Rating, Deduct</i>	-1,479.49	
<i>For Class 54 Rating, Add</i>	2,054.26	
<i>For Class 55 Rating, Add</i>	3,072.88	
<i>For Class 56 Rating, Add</i>	4,078.04	
40 05 19 00-0445 EA 36" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,151.81	2,026.26
<i>For Class 52 Rating, Deduct</i>	-1,548.99	
<i>For Class 54 Rating, Add</i>	2,149.10	
<i>For Class 55 Rating, Add</i>	3,213.91	
<i>For Class 56 Rating, Add</i>	4,264.63	
40 05 19 00-0446 EA 36" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,789.39	2,030.09
<i>For Class 52 Rating, Deduct</i>	-1,618.49	
<i>For Class 54 Rating, Add</i>	2,243.94	
<i>For Class 55 Rating, Add</i>	3,354.93	
<i>For Class 56 Rating, Add</i>	4,451.21	
40 05 19 00-0447 EA 36" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,426.99	2,033.92
<i>For Class 52 Rating, Deduct</i>	-1,687.98	
<i>For Class 54 Rating, Add</i>	2,338.77	
<i>For Class 55 Rating, Add</i>	3,495.96	
<i>For Class 56 Rating, Add</i>	4,637.80	
40 05 19 00-0448 EA 36" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,064.58	2,037.75
<i>For Class 52 Rating, Deduct</i>	-1,757.48	
<i>For Class 54 Rating, Add</i>	2,433.61	
<i>For Class 55 Rating, Add</i>	3,636.99	
<i>For Class 56 Rating, Add</i>	4,824.39	
40 05 19 00-0449 EA 36" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,702.17	2,041.58
<i>For Class 52 Rating, Deduct</i>	-1,826.98	
<i>For Class 54 Rating, Add</i>	2,528.45	
<i>For Class 55 Rating, Add</i>	3,778.02	
<i>For Class 56 Rating, Add</i>	5,010.98	
40 05 19 00-0450 EA 36" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,339.76	2,045.41
<i>For Class 52 Rating, Deduct</i>	-1,896.47	
<i>For Class 54 Rating, Add</i>	2,623.29	
<i>For Class 55 Rating, Add</i>	3,919.04	
<i>For Class 56 Rating, Add</i>	5,197.56	
40 05 19 00-0451 EA 36" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,977.35	2,049.24
<i>For Class 52 Rating, Deduct</i>	-1,965.97	
<i>For Class 54 Rating, Add</i>	2,718.12	
<i>For Class 55 Rating, Add</i>	4,060.07	
<i>For Class 56 Rating, Add</i>	5,384.15	
40 05 19 00-0452 EA 36" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,614.94	2,053.07
<i>For Class 52 Rating, Deduct</i>	-2,035.47	
<i>For Class 54 Rating, Add</i>	2,812.96	
<i>For Class 55 Rating, Add</i>	4,201.10	
<i>For Class 56 Rating, Add</i>	5,570.73	
40 05 19 00-0453 EA 36" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,252.54	2,056.90
<i>For Class 52 Rating, Deduct</i>	-2,104.96	
<i>For Class 54 Rating, Add</i>	2,907.80	
<i>For Class 55 Rating, Add</i>	4,342.13	
<i>For Class 56 Rating, Add</i>	5,757.32	
40 05 19 00-0454 EA 36" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,890.12	2,060.73
<i>For Class 52 Rating, Deduct</i>	-2,174.46	
<i>For Class 54 Rating, Add</i>	3,002.64	
<i>For Class 55 Rating, Add</i>	4,483.16	
<i>For Class 56 Rating, Add</i>	5,943.90	
40 05 19 00-0455 EA 36" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,527.71	2,064.56
<i>For Class 52 Rating, Deduct</i>	-2,243.95	
<i>For Class 54 Rating, Add</i>	3,097.48	
<i>For Class 55 Rating, Add</i>	4,624.18	
<i>For Class 56 Rating, Add</i>	6,130.49	
40 05 19 00-0456 EA 36" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,165.31	2,068.39
<i>For Class 52 Rating, Deduct</i>	-2,313.45	
<i>For Class 54 Rating, Add</i>	3,192.31	
<i>For Class 55 Rating, Add</i>	4,765.21	
<i>For Class 56 Rating, Add</i>	6,317.08	
40 05 19 00-0457 EA 36" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,802.90	2,072.22
<i>For Class 52 Rating, Deduct</i>	-2,382.95	
<i>For Class 54 Rating, Add</i>	3,287.15	
<i>For Class 55 Rating, Add</i>	4,906.24	
<i>For Class 56 Rating, Add</i>	6,503.67	
40 05 19 00-0458 EA 36" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,440.48	2,076.05
<i>For Class 52 Rating, Deduct</i>	-2,452.44	
<i>For Class 54 Rating, Add</i>	3,381.99	
<i>For Class 55 Rating, Add</i>	5,047.27	
<i>For Class 56 Rating, Add</i>	6,690.25	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0459	EA		36" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,078.08	2,079.88
			<i>For Class 52 Rating, Deduct</i>	-2,521.94	
			<i>For Class 54 Rating, Add</i>	3,476.83	
			<i>For Class 55 Rating, Add</i>	5,188.30	
			<i>For Class 56 Rating, Add</i>	6,876.84	
40 05 19 00-0460	EA		36" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,715.67	2,083.71
			<i>For Class 52 Rating, Deduct</i>	-2,591.44	
			<i>For Class 54 Rating, Add</i>	3,571.67	
			<i>For Class 55 Rating, Add</i>	5,329.32	
			<i>For Class 56 Rating, Add</i>	7,063.42	
40 05 19 00-0461	EA		36" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,353.26	2,087.54
			<i>For Class 52 Rating, Deduct</i>	-2,660.94	
			<i>For Class 54 Rating, Add</i>	3,666.50	
			<i>For Class 55 Rating, Add</i>	5,470.35	
			<i>For Class 56 Rating, Add</i>	7,250.01	
40 05 19 00-0462	EA		36" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,990.85	2,091.37
			<i>For Class 52 Rating, Deduct</i>	-2,730.43	
			<i>For Class 54 Rating, Add</i>	3,761.34	
			<i>For Class 55 Rating, Add</i>	5,611.38	
			<i>For Class 56 Rating, Add</i>	7,436.59	
40 05 19 00-0463	EA		36" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,628.44	2,095.21
			<i>For Class 52 Rating, Deduct</i>	-2,799.93	
			<i>For Class 54 Rating, Add</i>	3,856.18	
			<i>For Class 55 Rating, Add</i>	5,752.41	
			<i>For Class 56 Rating, Add</i>	7,623.18	
40 05 19 00-0464	EA		36" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,266.03	2,099.04
			<i>For Class 52 Rating, Deduct</i>	-2,869.42	
			<i>For Class 54 Rating, Add</i>	3,951.02	
			<i>For Class 55 Rating, Add</i>	5,893.44	
			<i>For Class 56 Rating, Add</i>	7,809.77	
40 05 19 00-0465	EA		36" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,903.63	2,102.87
			<i>For Class 52 Rating, Deduct</i>	-2,938.92	
			<i>For Class 54 Rating, Add</i>	4,045.85	
			<i>For Class 55 Rating, Add</i>	6,034.46	
			<i>For Class 56 Rating, Add</i>	7,996.36	
40 05 19 00-0466	EA		36" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,541.21	2,106.70
			<i>For Class 52 Rating, Deduct</i>	-3,008.42	
			<i>For Class 54 Rating, Add</i>	4,140.69	
			<i>For Class 55 Rating, Add</i>	6,175.49	
			<i>For Class 56 Rating, Add</i>	8,182.94	
40 05 19 00-0467	EA		36" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,178.80	2,110.53
			<i>For Class 52 Rating, Deduct</i>	-3,077.91	
			<i>For Class 54 Rating, Add</i>	4,235.53	
			<i>For Class 55 Rating, Add</i>	6,316.52	
			<i>For Class 56 Rating, Add</i>	8,369.53	
40 05 19 00-0468	EA		36" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,816.40	2,114.36
			<i>For Class 52 Rating, Deduct</i>	-3,147.41	
			<i>For Class 54 Rating, Add</i>	4,330.37	
			<i>For Class 55 Rating, Add</i>	6,457.55	
			<i>For Class 56 Rating, Add</i>	8,556.11	
40 05 19 00-0469	EA		36" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,453.99	2,118.18
			<i>For Class 52 Rating, Deduct</i>	-3,216.91	
			<i>For Class 54 Rating, Add</i>	4,425.21	
			<i>For Class 55 Rating, Add</i>	6,598.58	
			<i>For Class 56 Rating, Add</i>	8,742.70	
40 05 19 00-0470	EA		36" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,091.57	2,122.01
			<i>For Class 52 Rating, Deduct</i>	-3,286.40	
			<i>For Class 54 Rating, Add</i>	4,520.04	
			<i>For Class 55 Rating, Add</i>	6,739.60	
			<i>For Class 56 Rating, Add</i>	8,929.28	
40 05 19 00-0471	EA		36" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,729.17	2,125.84
			<i>For Class 52 Rating, Deduct</i>	-3,355.90	
			<i>For Class 54 Rating, Add</i>	4,614.88	
			<i>For Class 55 Rating, Add</i>	6,880.63	
			<i>For Class 56 Rating, Add</i>	9,115.87	
40 05 19 00-0472	EA		36" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,366.76	2,129.67
			<i>For Class 52 Rating, Deduct</i>	-3,425.40	
			<i>For Class 54 Rating, Add</i>	4,709.72	
			<i>For Class 55 Rating, Add</i>	7,021.66	
			<i>For Class 56 Rating, Add</i>	9,302.46	
40 05 19 00-0473	EA		36" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,004.35	2,133.51
			<i>For Class 52 Rating, Deduct</i>	-3,494.89	
			<i>For Class 54 Rating, Add</i>	4,804.56	
			<i>For Class 55 Rating, Add</i>	7,162.69	
			<i>For Class 56 Rating, Add</i>	9,489.05	
40 05 19 00-0474	EA		36" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,641.94	2,137.34
			<i>For Class 52 Rating, Deduct</i>	-3,564.39	
			<i>For Class 54 Rating, Add</i>	4,899.39	
			<i>For Class 55 Rating, Add</i>	7,303.71	
			<i>For Class 56 Rating, Add</i>	9,675.63	
40 05 19 00-0475	EA		36" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,279.53	2,141.17
			<i>For Class 52 Rating, Deduct</i>	-3,633.89	
			<i>For Class 54 Rating, Add</i>	4,994.23	
			<i>For Class 55 Rating, Add</i>	7,444.74	
			<i>For Class 56 Rating, Add</i>	9,862.22	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0476			42" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0477	EA		42" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,704.58	2,520.37
			For Class 52 Rating, Deduct	-1,417.44	
			For Class 54 Rating, Add	1,978.70	
			For Class 55 Rating, Add	2,965.19	
			For Class 56 Rating, Add	3,938.79	
40 05 19 00-0478	EA		42" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,654.30	2,524.20
			For Class 52 Rating, Deduct	-1,521.27	
			For Class 54 Rating, Add	2,120.36	
			For Class 55 Rating, Add	3,175.82	
			For Class 56 Rating, Add	4,217.46	
40 05 19 00-0479	EA		42" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,592.74	2,528.03
			For Class 52 Rating, Deduct	-1,623.86	
			For Class 54 Rating, Add	2,260.32	
			For Class 55 Rating, Add	3,383.94	
			For Class 56 Rating, Add	4,492.80	
40 05 19 00-0480	EA		42" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,540.59	2,531.86
			For Class 52 Rating, Deduct	-1,727.49	
			For Class 54 Rating, Add	2,401.70	
			For Class 55 Rating, Add	3,594.16	
			For Class 56 Rating, Add	4,770.91	
40 05 19 00-0481	EA		42" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,479.03	2,535.69
			For Class 52 Rating, Deduct	-1,830.08	
			For Class 54 Rating, Add	2,541.66	
			For Class 55 Rating, Add	3,802.27	
			For Class 56 Rating, Add	5,046.25	
40 05 19 00-0482	EA		42" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,428.75	2,539.53
			For Class 52 Rating, Deduct	-1,933.91	
			For Class 54 Rating, Add	2,683.32	
			For Class 55 Rating, Add	4,012.91	
			For Class 56 Rating, Add	5,324.91	
40 05 19 00-0483	EA		42" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,365.32	2,543.36
			For Class 52 Rating, Deduct	-2,036.29	
			For Class 54 Rating, Add	2,823.01	
			For Class 55 Rating, Add	4,220.61	
			For Class 56 Rating, Add	5,599.69	
40 05 19 00-0484	EA		42" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,315.04	2,547.19
			For Class 52 Rating, Deduct	-2,140.12	
			For Class 54 Rating, Add	2,964.66	
			For Class 55 Rating, Add	4,431.24	
			For Class 56 Rating, Add	5,878.36	
40 05 19 00-0485	EA		42" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,253.48	2,551.02
			For Class 52 Rating, Deduct	-2,242.71	
			For Class 54 Rating, Add	3,104.63	
			For Class 55 Rating, Add	4,639.36	
			For Class 56 Rating, Add	6,153.70	
40 05 19 00-0486	EA		42" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,201.33	2,554.85
			For Class 52 Rating, Deduct	-2,346.34	
			For Class 54 Rating, Add	3,246.00	
			For Class 55 Rating, Add	4,849.57	
			For Class 56 Rating, Add	6,431.81	
40 05 19 00-0487	EA		42" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,139.77	2,558.68
			For Class 52 Rating, Deduct	-2,448.93	
			For Class 54 Rating, Add	3,385.97	
			For Class 55 Rating, Add	5,057.69	
			For Class 56 Rating, Add	6,707.15	
40 05 19 00-0488	EA		42" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,087.61	2,562.51
			For Class 52 Rating, Deduct	-2,552.55	
			For Class 54 Rating, Add	3,527.35	
			For Class 55 Rating, Add	5,267.90	
			For Class 56 Rating, Add	6,985.26	
40 05 19 00-0489	EA		42" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,026.06	2,566.34
			For Class 52 Rating, Deduct	-2,655.14	
			For Class 54 Rating, Add	3,667.31	
			For Class 55 Rating, Add	5,476.02	
			For Class 56 Rating, Add	7,260.59	
40 05 19 00-0490	EA		42" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,966.38	2,570.16
			For Class 52 Rating, Deduct	-2,757.94	
			For Class 54 Rating, Add	3,807.56	
			For Class 55 Rating, Add	5,684.56	
			For Class 56 Rating, Add	7,536.49	
40 05 19 00-0491	EA		42" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,912.34	2,573.99
			For Class 52 Rating, Deduct	-2,861.36	
			For Class 54 Rating, Add	3,948.65	
			For Class 55 Rating, Add	5,894.35	
			For Class 56 Rating, Add	7,814.04	
40 05 19 00-0492	EA		42" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,850.79	2,577.83
			For Class 52 Rating, Deduct	-2,963.95	
			For Class 54 Rating, Add	4,088.62	
			For Class 55 Rating, Add	6,102.47	
			For Class 56 Rating, Add	8,089.38	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0493	EA		42" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,800.51	2,581.66
			<i>For Class 52 Rating, Deduct</i>	-3,067.78	
			<i>For Class 54 Rating, Add</i>	4,230.28	
			<i>For Class 55 Rating, Add</i>	6,313.11	
			<i>For Class 56 Rating, Add</i>	8,368.05	
40 05 19 00-0494	EA		42" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,738.94	2,585.49
			<i>For Class 52 Rating, Deduct</i>	-3,170.37	
			<i>For Class 54 Rating, Add</i>	4,370.24	
			<i>For Class 55 Rating, Add</i>	6,521.22	
			<i>For Class 56 Rating, Add</i>	8,643.38	
40 05 19 00-0495	EA		42" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,686.80	2,589.32
			<i>For Class 52 Rating, Deduct</i>	-3,273.99	
			<i>For Class 54 Rating, Add</i>	4,511.62	
			<i>For Class 55 Rating, Add</i>	6,731.44	
			<i>For Class 56 Rating, Add</i>	8,921.49	
40 05 19 00-0496	EA		42" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,625.23	2,593.15
			<i>For Class 52 Rating, Deduct</i>	-3,376.58	
			<i>For Class 54 Rating, Add</i>	4,651.58	
			<i>For Class 55 Rating, Add</i>	6,939.55	
			<i>For Class 56 Rating, Add</i>	9,196.83	
40 05 19 00-0497	EA		42" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,574.95	2,596.98
			<i>For Class 52 Rating, Deduct</i>	-3,480.42	
			<i>For Class 54 Rating, Add</i>	4,793.24	
			<i>For Class 55 Rating, Add</i>	7,150.19	
			<i>For Class 56 Rating, Add</i>	9,475.49	
40 05 19 00-0498	EA		42" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,513.40	2,600.81
			<i>For Class 52 Rating, Deduct</i>	-3,583.01	
			<i>For Class 54 Rating, Add</i>	4,933.20	
			<i>For Class 55 Rating, Add</i>	7,358.30	
			<i>For Class 56 Rating, Add</i>	9,750.83	
40 05 19 00-0499	EA		42" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,461.24	2,604.64
			<i>For Class 52 Rating, Deduct</i>	-3,686.63	
			<i>For Class 54 Rating, Add</i>	5,074.58	
			<i>For Class 55 Rating, Add</i>	7,568.52	
			<i>For Class 56 Rating, Add</i>	10,028.94	
40 05 19 00-0500	EA		42" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,399.69	2,608.47
			<i>For Class 52 Rating, Deduct</i>	-3,789.22	
			<i>For Class 54 Rating, Add</i>	5,214.55	
			<i>For Class 55 Rating, Add</i>	7,776.64	
			<i>For Class 56 Rating, Add</i>	10,304.28	
40 05 19 00-0501	EA		42" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,349.42	2,612.30
			<i>For Class 52 Rating, Deduct</i>	-3,893.05	
			<i>For Class 54 Rating, Add</i>	5,356.20	
			<i>For Class 55 Rating, Add</i>	7,987.27	
			<i>For Class 56 Rating, Add</i>	10,582.95	
40 05 19 00-0502	EA		42" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,287.86	2,616.14
			<i>For Class 52 Rating, Deduct</i>	-3,995.64	
			<i>For Class 54 Rating, Add</i>	5,496.17	
			<i>For Class 55 Rating, Add</i>	8,195.39	
			<i>For Class 56 Rating, Add</i>	10,858.28	
40 05 19 00-0503	EA		42" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,233.82	2,619.97
			<i>For Class 52 Rating, Deduct</i>	-4,099.06	
			<i>For Class 54 Rating, Add</i>	5,637.26	
			<i>For Class 55 Rating, Add</i>	8,405.18	
			<i>For Class 56 Rating, Add</i>	11,135.84	
40 05 19 00-0504	EA		42" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,174.15	2,623.80
			<i>For Class 52 Rating, Deduct</i>	-4,201.86	
			<i>For Class 54 Rating, Add</i>	5,777.51	
			<i>For Class 55 Rating, Add</i>	8,613.72	
			<i>For Class 56 Rating, Add</i>	11,411.73	
40 05 19 00-0505	EA		42" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,924.56	2,627.62
			<i>For Class 52 Rating, Deduct</i>	-4,283.76	
			<i>For Class 54 Rating, Add</i>	5,889.27	
			<i>For Class 55 Rating, Add</i>	8,779.91	
			<i>For Class 56 Rating, Add</i>	11,631.60	
40 05 19 00-0506	EA		42" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,060.43	2,631.45
			<i>For Class 52 Rating, Deduct</i>	-4,408.07	
			<i>For Class 54 Rating, Add</i>	6,058.85	
			<i>For Class 55 Rating, Add</i>	9,032.05	
			<i>For Class 56 Rating, Add</i>	11,965.18	
40 05 19 00-0507	EA		42" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,998.88	2,635.28
			<i>For Class 52 Rating, Deduct</i>	-4,510.66	
			<i>For Class 54 Rating, Add</i>	6,198.82	
			<i>For Class 55 Rating, Add</i>	9,240.17	
			<i>For Class 56 Rating, Add</i>	12,240.52	
40 05 19 00-0508	EA		42" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,946.72	2,639.11
			<i>For Class 52 Rating, Deduct</i>	-4,614.29	
			<i>For Class 54 Rating, Add</i>	6,340.19	
			<i>For Class 55 Rating, Add</i>	9,450.39	
			<i>For Class 56 Rating, Add</i>	12,518.63	
40 05 19 00-0509	EA		42" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,885.16	2,642.94
			<i>For Class 52 Rating, Deduct</i>	-4,716.88	
			<i>For Class 54 Rating, Add</i>	6,480.16	
			<i>For Class 55 Rating, Add</i>	9,658.50	
			<i>For Class 56 Rating, Add</i>	12,793.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0510 EA 42" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,834.89	2,646.77
<i>For Class 52 Rating, Deduct</i>	-4,820.71	
<i>For Class 54 Rating, Add</i>	6,621.82	
<i>For Class 55 Rating, Add</i>	9,869.14	
<i>For Class 56 Rating, Add</i>	13,072.63	
40 05 19 00-0511 EA 42" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	48,771.45	2,650.61
<i>For Class 52 Rating, Deduct</i>	-4,923.09	
<i>For Class 54 Rating, Add</i>	6,761.50	
<i>For Class 55 Rating, Add</i>	10,076.84	
<i>For Class 56 Rating, Add</i>	13,347.42	
40 05 19 00-0512 EA 42" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	49,721.17	2,654.44
<i>For Class 52 Rating, Deduct</i>	-5,026.92	
<i>For Class 54 Rating, Add</i>	6,903.16	
<i>For Class 55 Rating, Add</i>	10,287.47	
<i>For Class 56 Rating, Add</i>	13,626.08	
40 05 19 00-0513 EA 42" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	50,659.62	2,658.27
<i>For Class 52 Rating, Deduct</i>	-5,129.51	
<i>For Class 54 Rating, Add</i>	7,043.12	
<i>For Class 55 Rating, Add</i>	10,495.59	
<i>For Class 56 Rating, Add</i>	13,901.42	
40 05 19 00-0514 EA 42" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	51,607.46	2,662.10
<i>For Class 52 Rating, Deduct</i>	-5,233.14	
<i>For Class 54 Rating, Add</i>	7,184.50	
<i>For Class 55 Rating, Add</i>	10,705.80	
<i>For Class 56 Rating, Add</i>	14,179.53	
40 05 19 00-0515 48" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0516 EA 48" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,955.26	3,167.70
<i>For Class 52 Rating, Deduct</i>	-1,777.13	
<i>For Class 54 Rating, Add</i>	2,480.95	
<i>For Class 55 Rating, Add</i>	3,717.91	
<i>For Class 56 Rating, Add</i>	4,938.72	
40 05 19 00-0517 EA 48" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,335.57	3,171.54
<i>For Class 52 Rating, Deduct</i>	-1,928.32	
<i>For Class 54 Rating, Add</i>	2,687.20	
<i>For Class 55 Rating, Add</i>	4,024.57	
<i>For Class 56 Rating, Add</i>	5,344.41	
40 05 19 00-0518 EA 48" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,714.02	3,175.37
<i>For Class 52 Rating, Deduct</i>	-2,079.31	
<i>For Class 54 Rating, Add</i>	2,893.16	
<i>For Class 55 Rating, Add</i>	4,330.81	
<i>For Class 56 Rating, Add</i>	5,749.55	
40 05 19 00-0519 EA 48" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,103.73	3,179.20
<i>For Class 52 Rating, Deduct</i>	-2,231.54	
<i>For Class 54 Rating, Add</i>	3,100.82	
<i>For Class 55 Rating, Add</i>	4,639.56	
<i>For Class 56 Rating, Add</i>	6,158.01	
40 05 19 00-0520 EA 48" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,484.05	3,183.03
<i>For Class 52 Rating, Deduct</i>	-2,382.74	
<i>For Class 54 Rating, Add</i>	3,307.07	
<i>For Class 55 Rating, Add</i>	4,946.21	
<i>For Class 56 Rating, Add</i>	6,563.70	
40 05 19 00-0521 EA 48" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,864.37	3,186.86
<i>For Class 52 Rating, Deduct</i>	-2,533.94	
<i>For Class 54 Rating, Add</i>	3,513.31	
<i>For Class 55 Rating, Add</i>	5,252.87	
<i>For Class 56 Rating, Add</i>	6,969.39	
40 05 19 00-0522 EA 48" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,252.21	3,190.68
<i>For Class 52 Rating, Deduct</i>	-2,685.96	
<i>For Class 54 Rating, Add</i>	3,720.69	
<i>For Class 55 Rating, Add</i>	5,561.20	
<i>For Class 56 Rating, Add</i>	7,377.30	
40 05 19 00-0523 EA 48" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,634.40	3,194.51
<i>For Class 52 Rating, Deduct</i>	-2,837.37	
<i>For Class 54 Rating, Add</i>	3,927.22	
<i>For Class 55 Rating, Add</i>	5,868.28	
<i>For Class 56 Rating, Add</i>	7,783.54	
40 05 19 00-0524 EA 48" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,012.84	3,198.34
<i>For Class 52 Rating, Deduct</i>	-2,988.35	
<i>For Class 54 Rating, Add</i>	4,133.18	
<i>For Class 55 Rating, Add</i>	6,174.51	
<i>For Class 56 Rating, Add</i>	8,188.68	
40 05 19 00-0525 EA 48" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,402.56	3,202.17
<i>For Class 52 Rating, Deduct</i>	-3,140.59	
<i>For Class 54 Rating, Add</i>	4,340.84	
<i>For Class 55 Rating, Add</i>	6,483.27	
<i>For Class 56 Rating, Add</i>	8,597.14	
40 05 19 00-0526 EA 48" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,782.87	3,206.00
<i>For Class 52 Rating, Deduct</i>	-3,291.78	
<i>For Class 54 Rating, Add</i>	4,547.08	
<i>For Class 55 Rating, Add</i>	6,789.92	
<i>For Class 56 Rating, Add</i>	9,002.83	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0527	EA	48" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,172.60	3,209.84
		<i>For Class 52 Rating, Deduct</i>	-3,444.01	
		<i>For Class 54 Rating, Add</i>	4,754.74	
		<i>For Class 55 Rating, Add</i>	7,098.68	
		<i>For Class 56 Rating, Add</i>	9,411.30	
40 05 19 00-0528	EA	48" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,551.03	3,213.67
		<i>For Class 52 Rating, Deduct</i>	-3,595.00	
		<i>For Class 54 Rating, Add</i>	4,960.71	
		<i>For Class 55 Rating, Add</i>	7,404.91	
		<i>For Class 56 Rating, Add</i>	9,816.43	
40 05 19 00-0529	EA	48" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,931.35	3,217.50
		<i>For Class 52 Rating, Deduct</i>	-3,746.20	
		<i>For Class 54 Rating, Add</i>	5,166.95	
		<i>For Class 55 Rating, Add</i>	7,711.57	
		<i>For Class 56 Rating, Add</i>	10,222.13	
40 05 19 00-0530	EA	48" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,321.07	3,221.33
		<i>For Class 52 Rating, Deduct</i>	-3,898.43	
		<i>For Class 54 Rating, Add</i>	5,374.61	
		<i>For Class 55 Rating, Add</i>	8,020.32	
		<i>For Class 56 Rating, Add</i>	10,630.59	
40 05 19 00-0531	EA	48" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,701.39	3,225.16
		<i>For Class 52 Rating, Deduct</i>	-4,049.63	
		<i>For Class 54 Rating, Add</i>	5,580.86	
		<i>For Class 55 Rating, Add</i>	8,326.98	
		<i>For Class 56 Rating, Add</i>	11,036.28	
40 05 19 00-0532	EA	48" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,079.82	3,228.99
		<i>For Class 52 Rating, Deduct</i>	-4,200.62	
		<i>For Class 54 Rating, Add</i>	5,786.82	
		<i>For Class 55 Rating, Add</i>	8,633.21	
		<i>For Class 56 Rating, Add</i>	11,441.42	
40 05 19 00-0533	EA	48" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,469.55	3,232.82
		<i>For Class 52 Rating, Deduct</i>	-4,352.85	
		<i>For Class 54 Rating, Add</i>	5,994.48	
		<i>For Class 55 Rating, Add</i>	8,941.96	
		<i>For Class 56 Rating, Add</i>	11,849.88	
40 05 19 00-0534	EA	48" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,849.87	3,236.65
		<i>For Class 52 Rating, Deduct</i>	-4,504.04	
		<i>For Class 54 Rating, Add</i>	6,200.73	
		<i>For Class 55 Rating, Add</i>	9,248.62	
		<i>For Class 56 Rating, Add</i>	12,255.57	
40 05 19 00-0535	EA	48" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,228.30	3,240.48
		<i>For Class 52 Rating, Deduct</i>	-4,655.03	
		<i>For Class 54 Rating, Add</i>	6,406.69	
		<i>For Class 55 Rating, Add</i>	9,554.86	
		<i>For Class 56 Rating, Add</i>	12,660.71	
40 05 19 00-0536	EA	48" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	48,618.03	3,244.32
		<i>For Class 52 Rating, Deduct</i>	-4,807.26	
		<i>For Class 54 Rating, Add</i>	6,614.35	
		<i>For Class 55 Rating, Add</i>	9,863.61	
		<i>For Class 56 Rating, Add</i>	13,069.17	
40 05 19 00-0537	EA	48" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	50,000.22	3,248.14
		<i>For Class 52 Rating, Deduct</i>	-4,958.67	
		<i>For Class 54 Rating, Add</i>	6,820.88	
		<i>For Class 55 Rating, Add</i>	10,170.68	
		<i>For Class 56 Rating, Add</i>	13,475.41	
40 05 19 00-0538	EA	48" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	51,378.66	3,251.97
		<i>For Class 52 Rating, Deduct</i>	-5,109.66	
		<i>For Class 54 Rating, Add</i>	7,026.84	
		<i>For Class 55 Rating, Add</i>	10,476.92	
		<i>For Class 56 Rating, Add</i>	13,880.55	
40 05 19 00-0539	EA	48" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	52,768.38	3,255.80
		<i>For Class 52 Rating, Deduct</i>	-5,261.89	
		<i>For Class 54 Rating, Add</i>	7,234.50	
		<i>For Class 55 Rating, Add</i>	10,785.67	
		<i>For Class 56 Rating, Add</i>	14,289.01	
40 05 19 00-0540	EA	48" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	54,148.69	3,259.63
		<i>For Class 52 Rating, Deduct</i>	-5,413.08	
		<i>For Class 54 Rating, Add</i>	7,440.74	
		<i>For Class 55 Rating, Add</i>	11,092.33	
		<i>For Class 56 Rating, Add</i>	14,694.70	
40 05 19 00-0541	EA	48" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	55,527.13	3,263.46
		<i>For Class 52 Rating, Deduct</i>	-5,564.07	
		<i>For Class 54 Rating, Add</i>	7,646.71	
		<i>For Class 55 Rating, Add</i>	11,398.57	
		<i>For Class 56 Rating, Add</i>	15,099.84	
40 05 19 00-0542	EA	48" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	56,916.85	3,267.29
		<i>For Class 52 Rating, Deduct</i>	-5,716.30	
		<i>For Class 54 Rating, Add</i>	7,854.37	
		<i>For Class 55 Rating, Add</i>	11,707.32	
		<i>For Class 56 Rating, Add</i>	15,508.30	
40 05 19 00-0543	EA	48" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	58,297.17	3,271.12
		<i>For Class 52 Rating, Deduct</i>	-5,867.50	
		<i>For Class 54 Rating, Add</i>	8,060.61	
		<i>For Class 55 Rating, Add</i>	12,013.98	
		<i>For Class 56 Rating, Add</i>	15,914.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0544 EA 48" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	59,508.25	3,274.95
For Class 52 Rating, Deduct	-6,000.08	
For Class 54 Rating, Add	8,241.47	
For Class 55 Rating, Add	12,282.89	
For Class 56 Rating, Add	16,269.76	
40 05 19 00-0545 EA 48" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	61,067.21	3,278.78
For Class 52 Rating, Deduct	-6,170.93	
For Class 54 Rating, Add	8,474.52	
For Class 55 Rating, Add	12,629.38	
For Class 56 Rating, Add	16,728.15	
40 05 19 00-0546 EA 48" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	62,445.64	3,282.62
For Class 52 Rating, Deduct	-6,321.92	
For Class 54 Rating, Add	8,680.48	
For Class 55 Rating, Add	12,935.62	
For Class 56 Rating, Add	17,133.29	
40 05 19 00-0547 EA 48" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	63,837.24	3,286.45
For Class 52 Rating, Deduct	-6,474.36	
For Class 54 Rating, Add	8,888.42	
For Class 55 Rating, Add	13,244.79	
For Class 56 Rating, Add	17,542.31	
40 05 19 00-0548 EA 48" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	65,215.68	3,290.28
For Class 52 Rating, Deduct	-6,625.35	
For Class 54 Rating, Add	9,094.38	
For Class 55 Rating, Add	13,551.03	
For Class 56 Rating, Add	17,947.44	
40 05 19 00-0549 EA 48" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	66,594.11	3,294.11
For Class 52 Rating, Deduct	-6,776.33	
For Class 54 Rating, Add	9,300.35	
For Class 55 Rating, Add	13,857.26	
For Class 56 Rating, Add	18,352.58	
40 05 19 00-0550 EA 48" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	67,985.71	3,297.94
For Class 52 Rating, Deduct	-6,928.77	
For Class 54 Rating, Add	9,508.29	
For Class 55 Rating, Add	14,166.44	
For Class 56 Rating, Add	18,761.60	
40 05 19 00-0551 EA 48" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	69,364.15	3,301.76
For Class 52 Rating, Deduct	-7,079.76	
For Class 54 Rating, Add	9,714.25	
For Class 55 Rating, Add	14,472.67	
For Class 56 Rating, Add	19,166.73	
40 05 19 00-0552 EA 48" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	70,744.47	3,305.59
For Class 52 Rating, Deduct	-7,230.96	
For Class 54 Rating, Add	9,920.50	
For Class 55 Rating, Add	14,779.33	
For Class 56 Rating, Add	19,572.42	
40 05 19 00-0553 EA 48" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	72,134.18	3,309.42
For Class 52 Rating, Deduct	-7,383.19	
For Class 54 Rating, Add	10,128.16	
For Class 55 Rating, Add	15,088.08	
For Class 56 Rating, Add	19,980.88	
 40 05 19 00-0554 Flanged End x Grooved End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0001)</small>		
 40 05 19 00-0555 4" Flanged End x Grooved End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0556 EA 4" Flanged x Grooved (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	585.22	175.28
For Class 52 Rating, Deduct	-35.16	
For Class 54 Rating, Add	51.13	
For Class 55 Rating, Add	77.66	
For Class 56 Rating, Add	103.86	
40 05 19 00-0557 EA 4" Flanged x Grooved (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	638.76	178.34
For Class 52 Rating, Deduct	-40.54	
For Class 54 Rating, Add	58.52	
For Class 55 Rating, Add	88.67	
For Class 56 Rating, Add	118.45	
40 05 19 00-0558 EA 4" Flanged x Grooved (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	692.29	181.41
For Class 52 Rating, Deduct	-45.92	
For Class 54 Rating, Add	65.91	
For Class 55 Rating, Add	99.68	
For Class 56 Rating, Add	133.04	
40 05 19 00-0559 EA 4" Flanged x Grooved (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	745.82	184.47
For Class 52 Rating, Deduct	-51.30	
For Class 54 Rating, Add	73.30	
For Class 55 Rating, Add	110.70	
For Class 56 Rating, Add	147.63	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0560	EA		4" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	799.35	187.53
			<i>For Class 52 Rating, Deduct</i>	-56.67	
			<i>For Class 54 Rating, Add</i>	80.69	
			<i>For Class 55 Rating, Add</i>	121.71	
			<i>For Class 56 Rating, Add</i>	162.22	
40 05 19 00-0561	EA		4" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	852.89	190.60
			<i>For Class 52 Rating, Deduct</i>	-62.05	
			<i>For Class 54 Rating, Add</i>	88.08	
			<i>For Class 55 Rating, Add</i>	132.73	
			<i>For Class 56 Rating, Add</i>	176.81	
40 05 19 00-0562	EA		4" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	906.41	193.66
			<i>For Class 52 Rating, Deduct</i>	-67.43	
			<i>For Class 54 Rating, Add</i>	95.47	
			<i>For Class 55 Rating, Add</i>	143.74	
			<i>For Class 56 Rating, Add</i>	191.39	
40 05 19 00-0563	EA		4" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	959.94	196.73
			<i>For Class 52 Rating, Deduct</i>	-72.81	
			<i>For Class 54 Rating, Add</i>	102.86	
			<i>For Class 55 Rating, Add</i>	154.75	
			<i>For Class 56 Rating, Add</i>	205.98	
40 05 19 00-0564	EA		4" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,013.48	199.80
			<i>For Class 52 Rating, Deduct</i>	-78.18	
			<i>For Class 54 Rating, Add</i>	110.25	
			<i>For Class 55 Rating, Add</i>	165.76	
			<i>For Class 56 Rating, Add</i>	220.57	
40 05 19 00-0565	EA		4" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,067.00	202.86
			<i>For Class 52 Rating, Deduct</i>	-83.56	
			<i>For Class 54 Rating, Add</i>	117.64	
			<i>For Class 55 Rating, Add</i>	176.78	
			<i>For Class 56 Rating, Add</i>	235.16	
40 05 19 00-0566	EA		4" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,120.54	205.92
			<i>For Class 52 Rating, Deduct</i>	-88.94	
			<i>For Class 54 Rating, Add</i>	125.03	
			<i>For Class 55 Rating, Add</i>	187.79	
			<i>For Class 56 Rating, Add</i>	249.75	
40 05 19 00-0567	EA		4" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,174.08	208.99
			<i>For Class 52 Rating, Deduct</i>	-94.32	
			<i>For Class 54 Rating, Add</i>	132.41	
			<i>For Class 55 Rating, Add</i>	198.81	
			<i>For Class 56 Rating, Add</i>	264.34	
40 05 19 00-0568	EA		4" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,227.59	212.05
			<i>For Class 52 Rating, Deduct</i>	-99.69	
			<i>For Class 54 Rating, Add</i>	139.80	
			<i>For Class 55 Rating, Add</i>	209.82	
			<i>For Class 56 Rating, Add</i>	278.93	
40 05 19 00-0569	EA		4" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,281.13	215.11
			<i>For Class 52 Rating, Deduct</i>	-105.07	
			<i>For Class 54 Rating, Add</i>	147.19	
			<i>For Class 55 Rating, Add</i>	220.83	
			<i>For Class 56 Rating, Add</i>	293.52	
40 05 19 00-0570	EA		4" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,334.67	218.18
			<i>For Class 52 Rating, Deduct</i>	-110.45	
			<i>For Class 54 Rating, Add</i>	154.58	
			<i>For Class 55 Rating, Add</i>	231.85	
			<i>For Class 56 Rating, Add</i>	308.11	
40 05 19 00-0571	EA		4" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,388.19	221.24
			<i>For Class 52 Rating, Deduct</i>	-115.83	
			<i>For Class 54 Rating, Add</i>	161.97	
			<i>For Class 55 Rating, Add</i>	242.86	
			<i>For Class 56 Rating, Add</i>	322.70	
40 05 19 00-0572	EA		4" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,441.73	224.31
			<i>For Class 52 Rating, Deduct</i>	-121.21	
			<i>For Class 54 Rating, Add</i>	169.36	
			<i>For Class 55 Rating, Add</i>	253.87	
			<i>For Class 56 Rating, Add</i>	337.29	
40 05 19 00-0573	EA		4" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,495.26	227.37
			<i>For Class 52 Rating, Deduct</i>	-126.58	
			<i>For Class 54 Rating, Add</i>	176.75	
			<i>For Class 55 Rating, Add</i>	264.89	
			<i>For Class 56 Rating, Add</i>	351.88	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0574 EA 4" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,548.78	230.43
<i>For Class 52 Rating, Deduct</i>	-131.96	
<i>For Class 54 Rating, Add</i>	184.14	
<i>For Class 55 Rating, Add</i>	275.90	
<i>For Class 56 Rating, Add</i>	366.46	
40 05 19 00-0575 EA 4" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,602.32	233.51
<i>For Class 52 Rating, Deduct</i>	-137.34	
<i>For Class 54 Rating, Add</i>	191.52	
<i>For Class 55 Rating, Add</i>	286.91	
<i>For Class 56 Rating, Add</i>	381.05	
40 05 19 00-0576 EA 4" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,655.85	236.57
<i>For Class 52 Rating, Deduct</i>	-142.72	
<i>For Class 54 Rating, Add</i>	198.91	
<i>For Class 55 Rating, Add</i>	297.93	
<i>For Class 56 Rating, Add</i>	395.64	
40 05 19 00-0577 EA 4" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,709.38	239.63
<i>For Class 52 Rating, Deduct</i>	-148.09	
<i>For Class 54 Rating, Add</i>	206.30	
<i>For Class 55 Rating, Add</i>	308.94	
<i>For Class 56 Rating, Add</i>	410.23	
40 05 19 00-0578 EA 4" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,762.91	242.70
<i>For Class 52 Rating, Deduct</i>	-153.47	
<i>For Class 54 Rating, Add</i>	213.69	
<i>For Class 55 Rating, Add</i>	319.95	
<i>For Class 56 Rating, Add</i>	424.82	
40 05 19 00-0579 EA 4" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,816.45	245.76
<i>For Class 52 Rating, Deduct</i>	-158.85	
<i>For Class 54 Rating, Add</i>	221.08	
<i>For Class 55 Rating, Add</i>	330.97	
<i>For Class 56 Rating, Add</i>	439.41	
40 05 19 00-0580 EA 4" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,869.97	248.82
<i>For Class 52 Rating, Deduct</i>	-164.23	
<i>For Class 54 Rating, Add</i>	228.47	
<i>For Class 55 Rating, Add</i>	341.98	
<i>For Class 56 Rating, Add</i>	454.00	
40 05 19 00-0581 EA 4" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,923.50	251.89
<i>For Class 52 Rating, Deduct</i>	-169.60	
<i>For Class 54 Rating, Add</i>	235.86	
<i>For Class 55 Rating, Add</i>	352.99	
<i>For Class 56 Rating, Add</i>	468.59	
40 05 19 00-0582 EA 4" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,977.04	254.95
<i>For Class 52 Rating, Deduct</i>	-174.98	
<i>For Class 54 Rating, Add</i>	243.25	
<i>For Class 55 Rating, Add</i>	364.01	
<i>For Class 56 Rating, Add</i>	483.18	
40 05 19 00-0583 EA 4" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,030.57	258.01
<i>For Class 52 Rating, Deduct</i>	-180.36	
<i>For Class 54 Rating, Add</i>	250.64	
<i>For Class 55 Rating, Add</i>	375.02	
<i>For Class 56 Rating, Add</i>	497.77	
40 05 19 00-0584 EA 4" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,084.10	261.08
<i>For Class 52 Rating, Deduct</i>	-185.74	
<i>For Class 54 Rating, Add</i>	258.03	
<i>For Class 55 Rating, Add</i>	386.04	
<i>For Class 56 Rating, Add</i>	512.36	
40 05 19 00-0585 EA 4" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,137.64	264.14
<i>For Class 52 Rating, Deduct</i>	-191.12	
<i>For Class 54 Rating, Add</i>	265.42	
<i>For Class 55 Rating, Add</i>	397.05	
<i>For Class 56 Rating, Add</i>	526.95	
40 05 19 00-0586 EA 4" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,191.15	267.20
<i>For Class 52 Rating, Deduct</i>	-196.49	
<i>For Class 54 Rating, Add</i>	272.80	
<i>For Class 55 Rating, Add</i>	408.06	
<i>For Class 56 Rating, Add</i>	541.53	
40 05 19 00-0587 EA 4" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,244.69	270.28
<i>For Class 52 Rating, Deduct</i>	-201.87	
<i>For Class 54 Rating, Add</i>	280.19	
<i>For Class 55 Rating, Add</i>	419.08	
<i>For Class 56 Rating, Add</i>	556.12	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0588	EA		4" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,298.23	273.34
			<i>For Class 52 Rating, Deduct</i>	-207.25	
			<i>For Class 54 Rating, Add</i>	287.58	
			<i>For Class 55 Rating, Add</i>	430.09	
			<i>For Class 56 Rating, Add</i>	570.71	
40 05 19 00-0589	EA		4" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,351.75	276.40
			<i>For Class 52 Rating, Deduct</i>	-212.63	
			<i>For Class 54 Rating, Add</i>	294.97	
			<i>For Class 55 Rating, Add</i>	441.10	
			<i>For Class 56 Rating, Add</i>	585.30	
40 05 19 00-0590	EA		4" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,405.29	279.47
			<i>For Class 52 Rating, Deduct</i>	-218.00	
			<i>For Class 54 Rating, Add</i>	302.36	
			<i>For Class 55 Rating, Add</i>	452.12	
			<i>For Class 56 Rating, Add</i>	599.89	
40 05 19 00-0591	EA		4" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,458.82	282.53
			<i>For Class 52 Rating, Deduct</i>	-223.38	
			<i>For Class 54 Rating, Add</i>	309.75	
			<i>For Class 55 Rating, Add</i>	463.13	
			<i>For Class 56 Rating, Add</i>	614.48	
40 05 19 00-0592	EA		4" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,512.34	285.59
			<i>For Class 52 Rating, Deduct</i>	-228.76	
			<i>For Class 54 Rating, Add</i>	317.14	
			<i>For Class 55 Rating, Add</i>	474.14	
			<i>For Class 56 Rating, Add</i>	629.07	
40 05 19 00-0593	EA		4" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,565.88	288.66
			<i>For Class 52 Rating, Deduct</i>	-234.14	
			<i>For Class 54 Rating, Add</i>	324.53	
			<i>For Class 55 Rating, Add</i>	485.16	
			<i>For Class 56 Rating, Add</i>	643.66	
40 05 19 00-0594	EA		4" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,619.41	291.72
			<i>For Class 52 Rating, Deduct</i>	-239.52	
			<i>For Class 54 Rating, Add</i>	331.92	
			<i>For Class 55 Rating, Add</i>	496.17	
			<i>For Class 56 Rating, Add</i>	658.25	
40 05 19 00-0595			6" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0594)		
40 05 19 00-0596	EA		6" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	731.03	220.63
			<i>For Class 52 Rating, Deduct</i>	-43.64	
			<i>For Class 54 Rating, Add</i>	63.52	
			<i>For Class 55 Rating, Add</i>	96.50	
			<i>For Class 56 Rating, Add</i>	129.08	
40 05 19 00-0597	EA		6" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	795.85	223.69
			<i>For Class 52 Rating, Deduct</i>	-50.26	
			<i>For Class 54 Rating, Add</i>	72.61	
			<i>For Class 55 Rating, Add</i>	110.03	
			<i>For Class 56 Rating, Add</i>	146.99	
40 05 19 00-0598	EA		6" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	860.66	226.76
			<i>For Class 52 Rating, Deduct</i>	-56.88	
			<i>For Class 54 Rating, Add</i>	81.69	
			<i>For Class 55 Rating, Add</i>	123.56	
			<i>For Class 56 Rating, Add</i>	164.91	
40 05 19 00-0599	EA		6" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	925.47	229.82
			<i>For Class 52 Rating, Deduct</i>	-63.50	
			<i>For Class 54 Rating, Add</i>	90.77	
			<i>For Class 55 Rating, Add</i>	137.09	
			<i>For Class 56 Rating, Add</i>	182.83	
40 05 19 00-0600	EA		6" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	990.29	232.88
			<i>For Class 52 Rating, Deduct</i>	-70.12	
			<i>For Class 54 Rating, Add</i>	99.85	
			<i>For Class 55 Rating, Add</i>	150.62	
			<i>For Class 56 Rating, Add</i>	200.74	
40 05 19 00-0601	EA		6" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,055.10	235.95
			<i>For Class 52 Rating, Deduct</i>	-76.74	
			<i>For Class 54 Rating, Add</i>	108.93	
			<i>For Class 55 Rating, Add</i>	164.14	
			<i>For Class 56 Rating, Add</i>	218.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0602 EA 6" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,119.91	239.01
<i>For Class 52 Rating, Deduct</i>	-83.35	
<i>For Class 54 Rating, Add</i>	118.01	
<i>For Class 55 Rating, Add</i>	177.67	
<i>For Class 56 Rating, Add</i>	236.58	
40 05 19 00-0603 EA 6" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,184.73	242.08
<i>For Class 52 Rating, Deduct</i>	-89.97	
<i>For Class 54 Rating, Add</i>	127.09	
<i>For Class 55 Rating, Add</i>	191.20	
<i>For Class 56 Rating, Add</i>	254.50	
40 05 19 00-0604 EA 6" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,249.54	245.15
<i>For Class 52 Rating, Deduct</i>	-96.59	
<i>For Class 54 Rating, Add</i>	136.17	
<i>For Class 55 Rating, Add</i>	204.73	
<i>For Class 56 Rating, Add</i>	272.41	
40 05 19 00-0605 EA 6" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,314.35	248.21
<i>For Class 52 Rating, Deduct</i>	-103.21	
<i>For Class 54 Rating, Add</i>	145.25	
<i>For Class 55 Rating, Add</i>	218.26	
<i>For Class 56 Rating, Add</i>	290.33	
40 05 19 00-0606 EA 6" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,379.16	251.27
<i>For Class 52 Rating, Deduct</i>	-109.83	
<i>For Class 54 Rating, Add</i>	154.34	
<i>For Class 55 Rating, Add</i>	231.79	
<i>For Class 56 Rating, Add</i>	308.25	
40 05 19 00-0607 EA 6" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,443.98	254.34
<i>For Class 52 Rating, Deduct</i>	-116.45	
<i>For Class 54 Rating, Add</i>	163.42	
<i>For Class 55 Rating, Add</i>	245.32	
<i>For Class 56 Rating, Add</i>	326.17	
40 05 19 00-0608 EA 6" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,508.79	257.40
<i>For Class 52 Rating, Deduct</i>	-123.07	
<i>For Class 54 Rating, Add</i>	172.50	
<i>For Class 55 Rating, Add</i>	258.85	
<i>For Class 56 Rating, Add</i>	344.08	
40 05 19 00-0609 EA 6" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,573.60	260.46
<i>For Class 52 Rating, Deduct</i>	-129.69	
<i>For Class 54 Rating, Add</i>	181.58	
<i>For Class 55 Rating, Add</i>	272.38	
<i>For Class 56 Rating, Add</i>	362.00	
40 05 19 00-0610 EA 6" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,638.42	263.53
<i>For Class 52 Rating, Deduct</i>	-136.30	
<i>For Class 54 Rating, Add</i>	190.66	
<i>For Class 55 Rating, Add</i>	285.91	
<i>For Class 56 Rating, Add</i>	379.92	
40 05 19 00-0611 EA 6" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,703.22	266.59
<i>For Class 52 Rating, Deduct</i>	-142.92	
<i>For Class 54 Rating, Add</i>	199.74	
<i>For Class 55 Rating, Add</i>	299.44	
<i>For Class 56 Rating, Add</i>	397.83	
40 05 19 00-0612 EA 6" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,768.04	269.65
<i>For Class 52 Rating, Deduct</i>	-149.54	
<i>For Class 54 Rating, Add</i>	208.82	
<i>For Class 55 Rating, Add</i>	312.97	
<i>For Class 56 Rating, Add</i>	415.75	
40 05 19 00-0613 EA 6" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,832.86	272.72
<i>For Class 52 Rating, Deduct</i>	-156.16	
<i>For Class 54 Rating, Add</i>	217.90	
<i>For Class 55 Rating, Add</i>	326.50	
<i>For Class 56 Rating, Add</i>	433.67	
40 05 19 00-0614 EA 6" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,897.66	275.78
<i>For Class 52 Rating, Deduct</i>	-162.78	
<i>For Class 54 Rating, Add</i>	226.99	
<i>For Class 55 Rating, Add</i>	340.03	
<i>For Class 56 Rating, Add</i>	451.59	
40 05 19 00-0615 EA 6" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,962.48	278.85
<i>For Class 52 Rating, Deduct</i>	-169.40	
<i>For Class 54 Rating, Add</i>	236.07	
<i>For Class 55 Rating, Add</i>	353.56	
<i>For Class 56 Rating, Add</i>	469.50	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0616	EA		6" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,027.30	281.92
			<i>For Class 52 Rating, Deduct</i>	-176.02	
			<i>For Class 54 Rating, Add</i>	245.15	
			<i>For Class 55 Rating, Add</i>	367.09	
			<i>For Class 56 Rating, Add</i>	487.42	
40 05 19 00-0617	EA		6" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,092.10	284.98
			<i>For Class 52 Rating, Deduct</i>	-182.64	
			<i>For Class 54 Rating, Add</i>	254.23	
			<i>For Class 55 Rating, Add</i>	380.61	
			<i>For Class 56 Rating, Add</i>	505.34	
40 05 19 00-0618	EA		6" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,156.92	288.04
			<i>For Class 52 Rating, Deduct</i>	-189.25	
			<i>For Class 54 Rating, Add</i>	263.31	
			<i>For Class 55 Rating, Add</i>	394.14	
			<i>For Class 56 Rating, Add</i>	523.26	
40 05 19 00-0619	EA		6" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,221.73	291.11
			<i>For Class 52 Rating, Deduct</i>	-195.87	
			<i>For Class 54 Rating, Add</i>	272.39	
			<i>For Class 55 Rating, Add</i>	407.67	
			<i>For Class 56 Rating, Add</i>	541.17	
40 05 19 00-0620	EA		6" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,286.54	294.17
			<i>For Class 52 Rating, Deduct</i>	-202.49	
			<i>For Class 54 Rating, Add</i>	281.47	
			<i>For Class 55 Rating, Add</i>	421.20	
			<i>For Class 56 Rating, Add</i>	559.09	
40 05 19 00-0621	EA		6" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,351.36	297.24
			<i>For Class 52 Rating, Deduct</i>	-209.11	
			<i>For Class 54 Rating, Add</i>	290.55	
			<i>For Class 55 Rating, Add</i>	434.73	
			<i>For Class 56 Rating, Add</i>	577.01	
40 05 19 00-0622	EA		6" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,416.17	300.30
			<i>For Class 52 Rating, Deduct</i>	-215.73	
			<i>For Class 54 Rating, Add</i>	299.64	
			<i>For Class 55 Rating, Add</i>	448.26	
			<i>For Class 56 Rating, Add</i>	594.93	
40 05 19 00-0623	EA		6" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,480.98	303.36
			<i>For Class 52 Rating, Deduct</i>	-222.35	
			<i>For Class 54 Rating, Add</i>	308.72	
			<i>For Class 55 Rating, Add</i>	461.79	
			<i>For Class 56 Rating, Add</i>	612.84	
40 05 19 00-0624	EA		6" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,545.79	306.43
			<i>For Class 52 Rating, Deduct</i>	-228.97	
			<i>For Class 54 Rating, Add</i>	317.80	
			<i>For Class 55 Rating, Add</i>	475.32	
			<i>For Class 56 Rating, Add</i>	630.76	
40 05 19 00-0625	EA		6" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,610.61	309.49
			<i>For Class 52 Rating, Deduct</i>	-235.58	
			<i>For Class 54 Rating, Add</i>	326.88	
			<i>For Class 55 Rating, Add</i>	488.85	
			<i>For Class 56 Rating, Add</i>	648.68	
40 05 19 00-0626	EA		6" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,675.42	312.55
			<i>For Class 52 Rating, Deduct</i>	-242.20	
			<i>For Class 54 Rating, Add</i>	335.96	
			<i>For Class 55 Rating, Add</i>	502.38	
			<i>For Class 56 Rating, Add</i>	666.59	
40 05 19 00-0627	EA		6" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,740.23	315.63
			<i>For Class 52 Rating, Deduct</i>	-248.82	
			<i>For Class 54 Rating, Add</i>	345.04	
			<i>For Class 55 Rating, Add</i>	515.91	
			<i>For Class 56 Rating, Add</i>	684.51	
40 05 19 00-0628	EA		6" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,805.06	318.69
			<i>For Class 52 Rating, Deduct</i>	-255.44	
			<i>For Class 54 Rating, Add</i>	354.12	
			<i>For Class 55 Rating, Add</i>	529.44	
			<i>For Class 56 Rating, Add</i>	702.43	
40 05 19 00-0629	EA		6" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,869.87	321.75
			<i>For Class 52 Rating, Deduct</i>	-262.06	
			<i>For Class 54 Rating, Add</i>	363.21	
			<i>For Class 55 Rating, Add</i>	542.97	
			<i>For Class 56 Rating, Add</i>	720.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0630 EA 6" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,934.68	324.82
For Class 52 Rating, Deduct	-268.68	
For Class 54 Rating, Add	372.29	
For Class 55 Rating, Add	556.50	
For Class 56 Rating, Add	738.27	
40 05 19 00-0631 EA 6" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,999.50	327.88
For Class 52 Rating, Deduct	-275.30	
For Class 54 Rating, Add	381.37	
For Class 55 Rating, Add	570.03	
For Class 56 Rating, Add	756.18	
40 05 19 00-0632 EA 6" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,064.30	330.94
For Class 52 Rating, Deduct	-281.92	
For Class 54 Rating, Add	390.45	
For Class 55 Rating, Add	583.56	
For Class 56 Rating, Add	774.10	
40 05 19 00-0633 EA 6" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,129.12	334.01
For Class 52 Rating, Deduct	-288.54	
For Class 54 Rating, Add	399.53	
For Class 55 Rating, Add	597.09	
For Class 56 Rating, Add	792.02	
40 05 19 00-0634 EA 6" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,193.94	337.07
For Class 52 Rating, Deduct	-295.15	
For Class 54 Rating, Add	408.61	
For Class 55 Rating, Add	610.62	
For Class 56 Rating, Add	809.94	
40 05 19 00-0635 8" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0636 EA 8" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,006.29	281.92
For Class 52 Rating, Deduct	-63.71	
For Class 54 Rating, Add	92.00	
For Class 55 Rating, Add	139.40	
For Class 56 Rating, Add	186.22	
40 05 19 00-0637 EA 8" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,093.65	284.98
For Class 52 Rating, Deduct	-72.81	
For Class 54 Rating, Add	104.46	
For Class 55 Rating, Add	157.96	
For Class 56 Rating, Add	210.80	
40 05 19 00-0638 EA 8" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,181.04	288.04
For Class 52 Rating, Deduct	-81.91	
For Class 54 Rating, Add	116.93	
For Class 55 Rating, Add	176.52	
For Class 56 Rating, Add	235.37	
40 05 19 00-0639 EA 8" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,268.41	291.11
For Class 52 Rating, Deduct	-91.01	
For Class 54 Rating, Add	129.39	
For Class 55 Rating, Add	195.08	
For Class 56 Rating, Add	259.94	
40 05 19 00-0640 EA 8" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,355.78	294.17
For Class 52 Rating, Deduct	-100.11	
For Class 54 Rating, Add	141.86	
For Class 55 Rating, Add	213.64	
For Class 56 Rating, Add	284.52	
40 05 19 00-0641 EA 8" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,443.17	297.24
For Class 52 Rating, Deduct	-109.21	
For Class 54 Rating, Add	154.33	
For Class 55 Rating, Add	232.21	
For Class 56 Rating, Add	309.09	
40 05 19 00-0642 EA 8" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,530.54	300.30
For Class 52 Rating, Deduct	-118.31	
For Class 54 Rating, Add	166.79	
For Class 55 Rating, Add	250.77	
For Class 56 Rating, Add	333.66	
40 05 19 00-0643 EA 8" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,617.92	303.36
For Class 52 Rating, Deduct	-127.41	
For Class 54 Rating, Add	179.26	
For Class 55 Rating, Add	269.33	
For Class 56 Rating, Add	358.24	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0644	EA		8" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,705.29	306.43
			<i>For Class 52 Rating, Deduct</i>	-136.51	
			<i>For Class 54 Rating, Add</i>	191.72	
			<i>For Class 55 Rating, Add</i>	287.89	
			<i>For Class 56 Rating, Add</i>	382.81	
40 05 19 00-0645	EA		8" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,792.68	309.49
			<i>For Class 52 Rating, Deduct</i>	-145.61	
			<i>For Class 54 Rating, Add</i>	204.19	
			<i>For Class 55 Rating, Add</i>	306.45	
			<i>For Class 56 Rating, Add</i>	407.39	
40 05 19 00-0646	EA		8" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,880.05	312.55
			<i>For Class 52 Rating, Deduct</i>	-154.71	
			<i>For Class 54 Rating, Add</i>	216.65	
			<i>For Class 55 Rating, Add</i>	325.01	
			<i>For Class 56 Rating, Add</i>	431.96	
40 05 19 00-0647	EA		8" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,967.42	315.63
			<i>For Class 52 Rating, Deduct</i>	-163.81	
			<i>For Class 54 Rating, Add</i>	229.12	
			<i>For Class 55 Rating, Add</i>	343.57	
			<i>For Class 56 Rating, Add</i>	456.53	
40 05 19 00-0648	EA		8" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,054.81	318.69
			<i>For Class 52 Rating, Deduct</i>	-172.91	
			<i>For Class 54 Rating, Add</i>	241.59	
			<i>For Class 55 Rating, Add</i>	362.13	
			<i>For Class 56 Rating, Add</i>	481.11	
40 05 19 00-0649	EA		8" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,142.18	321.75
			<i>For Class 52 Rating, Deduct</i>	-182.01	
			<i>For Class 54 Rating, Add</i>	254.05	
			<i>For Class 55 Rating, Add</i>	380.69	
			<i>For Class 56 Rating, Add</i>	505.68	
40 05 19 00-0650	EA		8" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,229.56	324.82
			<i>For Class 52 Rating, Deduct</i>	-191.12	
			<i>For Class 54 Rating, Add</i>	266.52	
			<i>For Class 55 Rating, Add</i>	399.26	
			<i>For Class 56 Rating, Add</i>	530.26	
40 05 19 00-0651	EA		8" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,316.94	327.88
			<i>For Class 52 Rating, Deduct</i>	-200.22	
			<i>For Class 54 Rating, Add</i>	278.98	
			<i>For Class 55 Rating, Add</i>	417.82	
			<i>For Class 56 Rating, Add</i>	554.83	
40 05 19 00-0652	EA		8" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,404.30	330.94
			<i>For Class 52 Rating, Deduct</i>	-209.32	
			<i>For Class 54 Rating, Add</i>	291.45	
			<i>For Class 55 Rating, Add</i>	436.38	
			<i>For Class 56 Rating, Add</i>	579.40	
40 05 19 00-0653	EA		8" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,491.69	334.01
			<i>For Class 52 Rating, Deduct</i>	-218.42	
			<i>For Class 54 Rating, Add</i>	303.92	
			<i>For Class 55 Rating, Add</i>	454.94	
			<i>For Class 56 Rating, Add</i>	603.98	
40 05 19 00-0654	EA		8" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,579.07	337.07
			<i>For Class 52 Rating, Deduct</i>	-227.52	
			<i>For Class 54 Rating, Add</i>	316.38	
			<i>For Class 55 Rating, Add</i>	473.50	
			<i>For Class 56 Rating, Add</i>	628.55	
40 05 19 00-0655	EA		8" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,666.44	340.13
			<i>For Class 52 Rating, Deduct</i>	-236.62	
			<i>For Class 54 Rating, Add</i>	328.85	
			<i>For Class 55 Rating, Add</i>	492.06	
			<i>For Class 56 Rating, Add</i>	653.12	
40 05 19 00-0656	EA		8" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,753.82	343.20
			<i>For Class 52 Rating, Deduct</i>	-245.72	
			<i>For Class 54 Rating, Add</i>	341.31	
			<i>For Class 55 Rating, Add</i>	510.62	
			<i>For Class 56 Rating, Add</i>	677.70	
40 05 19 00-0657	EA		8" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,841.19	346.26
			<i>For Class 52 Rating, Deduct</i>	-254.82	
			<i>For Class 54 Rating, Add</i>	353.78	
			<i>For Class 55 Rating, Add</i>	529.18	
			<i>For Class 56 Rating, Add</i>	702.27	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0658 EA 8" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,928.57	349.32
For Class 52 Rating, Deduct	-263.92	
For Class 54 Rating, Add	366.24	
For Class 55 Rating, Add	547.74	
For Class 56 Rating, Add	726.84	
40 05 19 00-0659 EA 8" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,015.95	352.40
For Class 52 Rating, Deduct	-273.02	
For Class 54 Rating, Add	378.71	
For Class 55 Rating, Add	566.30	
For Class 56 Rating, Add	751.42	
40 05 19 00-0660 EA 8" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,103.33	355.46
For Class 52 Rating, Deduct	-282.12	
For Class 54 Rating, Add	391.18	
For Class 55 Rating, Add	584.87	
For Class 56 Rating, Add	775.99	
40 05 19 00-0661 EA 8" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,190.70	358.52
For Class 52 Rating, Deduct	-291.22	
For Class 54 Rating, Add	403.64	
For Class 55 Rating, Add	603.43	
For Class 56 Rating, Add	800.57	
40 05 19 00-0662 EA 8" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,278.08	361.59
For Class 52 Rating, Deduct	-300.32	
For Class 54 Rating, Add	416.11	
For Class 55 Rating, Add	621.99	
For Class 56 Rating, Add	825.14	
40 05 19 00-0663 EA 8" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,365.46	364.65
For Class 52 Rating, Deduct	-309.43	
For Class 54 Rating, Add	428.57	
For Class 55 Rating, Add	640.55	
For Class 56 Rating, Add	849.71	
40 05 19 00-0664 EA 8" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,452.83	367.71
For Class 52 Rating, Deduct	-318.53	
For Class 54 Rating, Add	441.04	
For Class 55 Rating, Add	659.11	
For Class 56 Rating, Add	874.29	
40 05 19 00-0665 EA 8" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,540.21	370.78
For Class 52 Rating, Deduct	-327.63	
For Class 54 Rating, Add	453.51	
For Class 55 Rating, Add	677.67	
For Class 56 Rating, Add	898.86	
40 05 19 00-0666 EA 8" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,627.59	373.84
For Class 52 Rating, Deduct	-336.73	
For Class 54 Rating, Add	465.97	
For Class 55 Rating, Add	696.23	
For Class 56 Rating, Add	923.43	
40 05 19 00-0667 EA 8" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,714.97	376.91
For Class 52 Rating, Deduct	-345.83	
For Class 54 Rating, Add	478.44	
For Class 55 Rating, Add	714.80	
For Class 56 Rating, Add	948.01	
40 05 19 00-0668 EA 8" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,802.34	379.97
For Class 52 Rating, Deduct	-354.93	
For Class 54 Rating, Add	490.90	
For Class 55 Rating, Add	733.36	
For Class 56 Rating, Add	972.58	
40 05 19 00-0669 EA 8" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,889.72	383.03
For Class 52 Rating, Deduct	-364.03	
For Class 54 Rating, Add	503.37	
For Class 55 Rating, Add	751.92	
For Class 56 Rating, Add	997.15	
40 05 19 00-0670 EA 8" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,977.10	386.10
For Class 52 Rating, Deduct	-373.13	
For Class 54 Rating, Add	515.84	
For Class 55 Rating, Add	770.48	
For Class 56 Rating, Add	1,021.73	
40 05 19 00-0671 EA 8" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,064.47	389.16
For Class 52 Rating, Deduct	-382.23	
For Class 54 Rating, Add	528.30	
For Class 55 Rating, Add	789.04	
For Class 56 Rating, Add	1,046.30	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0672	EA		8" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,151.86	392.23
			<i>For Class 52 Rating, Deduct</i>	-391.33	
			<i>For Class 54 Rating, Add</i>	540.77	
			<i>For Class 55 Rating, Add</i>	807.60	
			<i>For Class 56 Rating, Add</i>	1,070.88	
40 05 19 00-0673	EA		8" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,239.23	395.30
			<i>For Class 52 Rating, Deduct</i>	-400.43	
			<i>For Class 54 Rating, Add</i>	553.23	
			<i>For Class 55 Rating, Add</i>	826.16	
			<i>For Class 56 Rating, Add</i>	1,095.45	
40 05 19 00-0674	EA		8" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,326.60	398.36
			<i>For Class 52 Rating, Deduct</i>	-409.53	
			<i>For Class 54 Rating, Add</i>	565.70	
			<i>For Class 55 Rating, Add</i>	844.72	
			<i>For Class 56 Rating, Add</i>	1,120.02	
40 05 19 00-0675			10" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0676	EA		10" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,260.85	343.20
			<i>For Class 52 Rating, Deduct</i>	-81.49	
			<i>For Class 54 Rating, Add</i>	117.37	
			<i>For Class 55 Rating, Add</i>	177.69	
			<i>For Class 56 Rating, Add</i>	237.27	
40 05 19 00-0677	EA		10" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,374.54	346.26
			<i>For Class 52 Rating, Deduct</i>	-93.49	
			<i>For Class 54 Rating, Add</i>	133.78	
			<i>For Class 55 Rating, Add</i>	202.12	
			<i>For Class 56 Rating, Add</i>	269.61	
40 05 19 00-0678	EA		10" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,488.24	349.32
			<i>For Class 52 Rating, Deduct</i>	-105.49	
			<i>For Class 54 Rating, Add</i>	150.20	
			<i>For Class 55 Rating, Add</i>	226.55	
			<i>For Class 56 Rating, Add</i>	301.95	
40 05 19 00-0679	EA		10" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,601.95	352.40
			<i>For Class 52 Rating, Deduct</i>	-117.48	
			<i>For Class 54 Rating, Add</i>	166.61	
			<i>For Class 55 Rating, Add</i>	250.98	
			<i>For Class 56 Rating, Add</i>	334.29	
40 05 19 00-0680	EA		10" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,715.65	355.46
			<i>For Class 52 Rating, Deduct</i>	-129.48	
			<i>For Class 54 Rating, Add</i>	183.02	
			<i>For Class 55 Rating, Add</i>	275.41	
			<i>For Class 56 Rating, Add</i>	366.63	
40 05 19 00-0681	EA		10" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,829.35	358.52
			<i>For Class 52 Rating, Deduct</i>	-141.48	
			<i>For Class 54 Rating, Add</i>	199.44	
			<i>For Class 55 Rating, Add</i>	299.85	
			<i>For Class 56 Rating, Add</i>	398.97	
40 05 19 00-0682	EA		10" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,943.06	361.59
			<i>For Class 52 Rating, Deduct</i>	-153.47	
			<i>For Class 54 Rating, Add</i>	215.85	
			<i>For Class 55 Rating, Add</i>	324.28	
			<i>For Class 56 Rating, Add</i>	431.31	
40 05 19 00-0683	EA		10" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,056.76	364.65
			<i>For Class 52 Rating, Deduct</i>	-165.47	
			<i>For Class 54 Rating, Add</i>	232.27	
			<i>For Class 55 Rating, Add</i>	348.71	
			<i>For Class 56 Rating, Add</i>	463.65	
40 05 19 00-0684	EA		10" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,170.45	367.71
			<i>For Class 52 Rating, Deduct</i>	-177.46	
			<i>For Class 54 Rating, Add</i>	248.68	
			<i>For Class 55 Rating, Add</i>	373.14	
			<i>For Class 56 Rating, Add</i>	495.98	
40 05 19 00-0685	EA		10" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,284.15	370.78
			<i>For Class 52 Rating, Deduct</i>	-189.46	
			<i>For Class 54 Rating, Add</i>	265.10	
			<i>For Class 55 Rating, Add</i>	397.57	
			<i>For Class 56 Rating, Add</i>	528.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0686 EA 10" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,397.86	373.84
<i>For Class 52 Rating, Deduct</i>	-201.46	
<i>For Class 54 Rating, Add</i>	281.51	
<i>For Class 55 Rating, Add</i>	422.00	
<i>For Class 56 Rating, Add</i>	560.66	
40 05 19 00-0687 EA 10" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,511.56	376.91
<i>For Class 52 Rating, Deduct</i>	-213.45	
<i>For Class 54 Rating, Add</i>	297.93	
<i>For Class 55 Rating, Add</i>	446.43	
<i>For Class 56 Rating, Add</i>	593.00	
40 05 19 00-0688 EA 10" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,625.26	379.97
<i>For Class 52 Rating, Deduct</i>	-225.45	
<i>For Class 54 Rating, Add</i>	314.34	
<i>For Class 55 Rating, Add</i>	470.87	
<i>For Class 56 Rating, Add</i>	625.34	
40 05 19 00-0689 EA 10" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,738.97	383.03
<i>For Class 52 Rating, Deduct</i>	-237.45	
<i>For Class 54 Rating, Add</i>	330.76	
<i>For Class 55 Rating, Add</i>	495.30	
<i>For Class 56 Rating, Add</i>	657.68	
40 05 19 00-0690 EA 10" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,852.67	386.10
<i>For Class 52 Rating, Deduct</i>	-249.44	
<i>For Class 54 Rating, Add</i>	347.17	
<i>For Class 55 Rating, Add</i>	519.73	
<i>For Class 56 Rating, Add</i>	690.02	
40 05 19 00-0691 EA 10" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,966.36	389.16
<i>For Class 52 Rating, Deduct</i>	-261.44	
<i>For Class 54 Rating, Add</i>	363.58	
<i>For Class 55 Rating, Add</i>	544.16	
<i>For Class 56 Rating, Add</i>	722.36	
40 05 19 00-0692 EA 10" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,080.07	392.23
<i>For Class 52 Rating, Deduct</i>	-273.44	
<i>For Class 54 Rating, Add</i>	380.00	
<i>For Class 55 Rating, Add</i>	568.59	
<i>For Class 56 Rating, Add</i>	754.70	
40 05 19 00-0693 EA 10" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,193.77	395.30
<i>For Class 52 Rating, Deduct</i>	-285.43	
<i>For Class 54 Rating, Add</i>	396.41	
<i>For Class 55 Rating, Add</i>	593.02	
<i>For Class 56 Rating, Add</i>	787.04	
40 05 19 00-0694 EA 10" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,307.47	398.36
<i>For Class 52 Rating, Deduct</i>	-297.43	
<i>For Class 54 Rating, Add</i>	412.83	
<i>For Class 55 Rating, Add</i>	617.46	
<i>For Class 56 Rating, Add</i>	819.38	
40 05 19 00-0695 EA 10" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,421.18	401.42
<i>For Class 52 Rating, Deduct</i>	-309.43	
<i>For Class 54 Rating, Add</i>	429.24	
<i>For Class 55 Rating, Add</i>	641.89	
<i>For Class 56 Rating, Add</i>	851.72	
40 05 19 00-0696 EA 10" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,534.88	404.49
<i>For Class 52 Rating, Deduct</i>	-321.42	
<i>For Class 54 Rating, Add</i>	445.66	
<i>For Class 55 Rating, Add</i>	666.32	
<i>For Class 56 Rating, Add</i>	884.06	
40 05 19 00-0697 EA 10" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,648.58	407.55
<i>For Class 52 Rating, Deduct</i>	-333.42	
<i>For Class 54 Rating, Add</i>	462.07	
<i>For Class 55 Rating, Add</i>	690.75	
<i>For Class 56 Rating, Add</i>	916.40	
40 05 19 00-0698 EA 10" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,762.27	410.61
<i>For Class 52 Rating, Deduct</i>	-345.41	
<i>For Class 54 Rating, Add</i>	478.49	
<i>For Class 55 Rating, Add</i>	715.18	
<i>For Class 56 Rating, Add</i>	948.74	
40 05 19 00-0699 EA 10" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,875.98	413.68
<i>For Class 52 Rating, Deduct</i>	-357.41	
<i>For Class 54 Rating, Add</i>	494.90	
<i>For Class 55 Rating, Add</i>	739.61	
<i>For Class 56 Rating, Add</i>	981.08	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0700	EA	10"	Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,989.68	416.74
			<i>For Class 52 Rating, Deduct</i>	-369.41	
			<i>For Class 54 Rating, Add</i>	511.31	
			<i>For Class 55 Rating, Add</i>	764.04	
			<i>For Class 56 Rating, Add</i>	1,013.42	
40 05 19 00-0701	EA	10"	Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,103.38	419.80
			<i>For Class 52 Rating, Deduct</i>	-381.40	
			<i>For Class 54 Rating, Add</i>	527.73	
			<i>For Class 55 Rating, Add</i>	788.48	
			<i>For Class 56 Rating, Add</i>	1,045.75	
40 05 19 00-0702	EA	10"	Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,217.09	422.87
			<i>For Class 52 Rating, Deduct</i>	-393.40	
			<i>For Class 54 Rating, Add</i>	544.14	
			<i>For Class 55 Rating, Add</i>	812.91	
			<i>For Class 56 Rating, Add</i>	1,078.10	
40 05 19 00-0703	EA	10"	Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,330.78	425.93
			<i>For Class 52 Rating, Deduct</i>	-405.40	
			<i>For Class 54 Rating, Add</i>	560.56	
			<i>For Class 55 Rating, Add</i>	837.34	
			<i>For Class 56 Rating, Add</i>	1,110.43	
40 05 19 00-0704	EA	10"	Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,444.49	429.00
			<i>For Class 52 Rating, Deduct</i>	-417.39	
			<i>For Class 54 Rating, Add</i>	576.97	
			<i>For Class 55 Rating, Add</i>	861.77	
			<i>For Class 56 Rating, Add</i>	1,142.77	
40 05 19 00-0705	EA	10"	Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,558.19	432.07
			<i>For Class 52 Rating, Deduct</i>	-429.39	
			<i>For Class 54 Rating, Add</i>	593.39	
			<i>For Class 55 Rating, Add</i>	886.20	
			<i>For Class 56 Rating, Add</i>	1,175.11	
40 05 19 00-0706	EA	10"	Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,671.88	435.13
			<i>For Class 52 Rating, Deduct</i>	-441.39	
			<i>For Class 54 Rating, Add</i>	609.80	
			<i>For Class 55 Rating, Add</i>	910.63	
			<i>For Class 56 Rating, Add</i>	1,207.45	
40 05 19 00-0707	EA	10"	Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,785.59	438.19
			<i>For Class 52 Rating, Deduct</i>	-453.38	
			<i>For Class 54 Rating, Add</i>	626.22	
			<i>For Class 55 Rating, Add</i>	935.06	
			<i>For Class 56 Rating, Add</i>	1,239.79	
40 05 19 00-0708	EA	10"	Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,899.30	441.26
			<i>For Class 52 Rating, Deduct</i>	-465.38	
			<i>For Class 54 Rating, Add</i>	642.63	
			<i>For Class 55 Rating, Add</i>	959.50	
			<i>For Class 56 Rating, Add</i>	1,272.13	
40 05 19 00-0709	EA	10"	Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,012.99	444.32
			<i>For Class 52 Rating, Deduct</i>	-477.38	
			<i>For Class 54 Rating, Add</i>	659.05	
			<i>For Class 55 Rating, Add</i>	983.93	
			<i>For Class 56 Rating, Add</i>	1,304.47	
40 05 19 00-0710	EA	10"	Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,126.70	447.38
			<i>For Class 52 Rating, Deduct</i>	-489.37	
			<i>For Class 54 Rating, Add</i>	675.46	
			<i>For Class 55 Rating, Add</i>	1,008.36	
			<i>For Class 56 Rating, Add</i>	1,336.81	
40 05 19 00-0711	EA	10"	Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,240.40	450.45
			<i>For Class 52 Rating, Deduct</i>	-501.37	
			<i>For Class 54 Rating, Add</i>	691.88	
			<i>For Class 55 Rating, Add</i>	1,032.79	
			<i>For Class 56 Rating, Add</i>	1,369.15	
40 05 19 00-0712	EA	10"	Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,354.09	453.51
			<i>For Class 52 Rating, Deduct</i>	-513.36	
			<i>For Class 54 Rating, Add</i>	708.29	
			<i>For Class 55 Rating, Add</i>	1,057.22	
			<i>For Class 56 Rating, Add</i>	1,401.49	
40 05 19 00-0713	EA	10"	Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,467.80	456.58
			<i>For Class 52 Rating, Deduct</i>	-525.36	
			<i>For Class 54 Rating, Add</i>	724.70	
			<i>For Class 55 Rating, Add</i>	1,081.65	
			<i>For Class 56 Rating, Add</i>	1,433.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0714 EA 10" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,581.50	459.64
For Class 52 Rating, Deduct	-537.36	
For Class 54 Rating, Add	741.12	
For Class 55 Rating, Add	1,106.08	
For Class 56 Rating, Add	1,466.17	
40 05 19 00-0715 12" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0716 EA 12" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,631.53	429.00
For Class 52 Rating, Deduct	-107.97	
For Class 54 Rating, Add	155.03	
For Class 55 Rating, Add	234.48	
For Class 56 Rating, Add	312.95	
40 05 19 00-0717 EA 12" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,773.44	432.07
For Class 52 Rating, Deduct	-123.07	
For Class 54 Rating, Add	175.67	
For Class 55 Rating, Add	265.20	
For Class 56 Rating, Add	353.61	
40 05 19 00-0718 EA 12" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,915.33	435.13
For Class 52 Rating, Deduct	-138.17	
For Class 54 Rating, Add	196.32	
For Class 55 Rating, Add	295.92	
For Class 56 Rating, Add	394.27	
40 05 19 00-0719 EA 12" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,057.25	438.19
For Class 52 Rating, Deduct	-153.27	
For Class 54 Rating, Add	216.97	
For Class 55 Rating, Add	326.64	
For Class 56 Rating, Add	434.93	
40 05 19 00-0720 EA 12" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,199.16	441.26
For Class 52 Rating, Deduct	-168.36	
For Class 54 Rating, Add	237.61	
For Class 55 Rating, Add	357.37	
For Class 56 Rating, Add	475.59	
40 05 19 00-0721 EA 12" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,341.05	444.32
For Class 52 Rating, Deduct	-183.46	
For Class 54 Rating, Add	258.25	
For Class 55 Rating, Add	388.09	
For Class 56 Rating, Add	516.25	
40 05 19 00-0722 EA 12" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,482.97	447.38
For Class 52 Rating, Deduct	-198.56	
For Class 54 Rating, Add	278.90	
For Class 55 Rating, Add	418.81	
For Class 56 Rating, Add	556.91	
40 05 19 00-0723 EA 12" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,624.87	450.45
For Class 52 Rating, Deduct	-213.66	
For Class 54 Rating, Add	299.55	
For Class 55 Rating, Add	449.53	
For Class 56 Rating, Add	597.57	
40 05 19 00-0724 EA 12" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,766.77	453.51
For Class 52 Rating, Deduct	-228.76	
For Class 54 Rating, Add	320.19	
For Class 55 Rating, Add	480.25	
For Class 56 Rating, Add	638.23	
40 05 19 00-0725 EA 12" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,908.69	456.58
For Class 52 Rating, Deduct	-243.86	
For Class 54 Rating, Add	340.84	
For Class 55 Rating, Add	510.97	
For Class 56 Rating, Add	678.89	
40 05 19 00-0726 EA 12" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,050.59	459.64
For Class 52 Rating, Deduct	-258.96	
For Class 54 Rating, Add	361.48	
For Class 55 Rating, Add	541.69	
For Class 56 Rating, Add	719.55	
40 05 19 00-0727 EA 12" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,192.49	462.70
For Class 52 Rating, Deduct	-274.06	
For Class 54 Rating, Add	382.13	
For Class 55 Rating, Add	572.41	
For Class 56 Rating, Add	760.21	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0728	EA	12"	Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,334.40	465.78
			<i>For Class 52 Rating, Deduct</i>	-289.16	
			<i>For Class 54 Rating, Add</i>	402.77	
			<i>For Class 55 Rating, Add</i>	603.13	
			<i>For Class 56 Rating, Add</i>	800.87	
40 05 19 00-0729	EA	12"	Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,476.31	468.84
			<i>For Class 52 Rating, Deduct</i>	-304.25	
			<i>For Class 54 Rating, Add</i>	423.42	
			<i>For Class 55 Rating, Add</i>	633.86	
			<i>For Class 56 Rating, Add</i>	841.53	
40 05 19 00-0730	EA	12"	Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,618.21	471.90
			<i>For Class 52 Rating, Deduct</i>	-319.35	
			<i>For Class 54 Rating, Add</i>	444.06	
			<i>For Class 55 Rating, Add</i>	664.58	
			<i>For Class 56 Rating, Add</i>	882.19	
40 05 19 00-0731	EA	12"	Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,760.12	474.97
			<i>For Class 52 Rating, Deduct</i>	-334.45	
			<i>For Class 54 Rating, Add</i>	464.71	
			<i>For Class 55 Rating, Add</i>	695.30	
			<i>For Class 56 Rating, Add</i>	922.85	
40 05 19 00-0732	EA	12"	Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,902.03	478.03
			<i>For Class 52 Rating, Deduct</i>	-349.55	
			<i>For Class 54 Rating, Add</i>	485.35	
			<i>For Class 55 Rating, Add</i>	726.02	
			<i>For Class 56 Rating, Add</i>	963.51	
40 05 19 00-0733	EA	12"	Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,043.93	481.09
			<i>For Class 52 Rating, Deduct</i>	-364.65	
			<i>For Class 54 Rating, Add</i>	506.00	
			<i>For Class 55 Rating, Add</i>	756.74	
			<i>For Class 56 Rating, Add</i>	1,004.17	
40 05 19 00-0734	EA	12"	Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,185.84	484.16
			<i>For Class 52 Rating, Deduct</i>	-379.75	
			<i>For Class 54 Rating, Add</i>	526.64	
			<i>For Class 55 Rating, Add</i>	787.46	
			<i>For Class 56 Rating, Add</i>	1,044.83	
40 05 19 00-0735	EA	12"	Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,327.75	487.22
			<i>For Class 52 Rating, Deduct</i>	-394.85	
			<i>For Class 54 Rating, Add</i>	547.29	
			<i>For Class 55 Rating, Add</i>	818.18	
			<i>For Class 56 Rating, Add</i>	1,085.49	
40 05 19 00-0736	EA	12"	Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,469.64	490.28
			<i>For Class 52 Rating, Deduct</i>	-409.95	
			<i>For Class 54 Rating, Add</i>	567.93	
			<i>For Class 55 Rating, Add</i>	848.90	
			<i>For Class 56 Rating, Add</i>	1,126.15	
40 05 19 00-0737	EA	12"	Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,611.56	493.35
			<i>For Class 52 Rating, Deduct</i>	-425.05	
			<i>For Class 54 Rating, Add</i>	588.58	
			<i>For Class 55 Rating, Add</i>	879.63	
			<i>For Class 56 Rating, Add</i>	1,166.81	
40 05 19 00-0738	EA	12"	Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,753.47	496.41
			<i>For Class 52 Rating, Deduct</i>	-440.15	
			<i>For Class 54 Rating, Add</i>	609.22	
			<i>For Class 55 Rating, Add</i>	910.35	
			<i>For Class 56 Rating, Add</i>	1,207.47	
40 05 19 00-0739	EA	12"	Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,895.36	499.47
			<i>For Class 52 Rating, Deduct</i>	-455.24	
			<i>For Class 54 Rating, Add</i>	629.87	
			<i>For Class 55 Rating, Add</i>	941.07	
			<i>For Class 56 Rating, Add</i>	1,248.13	
40 05 19 00-0740	EA	12"	Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,037.28	502.55
			<i>For Class 52 Rating, Deduct</i>	-470.34	
			<i>For Class 54 Rating, Add</i>	650.51	
			<i>For Class 55 Rating, Add</i>	971.79	
			<i>For Class 56 Rating, Add</i>	1,288.79	
40 05 19 00-0741	EA	12"	Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,179.18	505.61
			<i>For Class 52 Rating, Deduct</i>	-485.44	
			<i>For Class 54 Rating, Add</i>	671.16	
			<i>For Class 55 Rating, Add</i>	1,002.51	
			<i>For Class 56 Rating, Add</i>	1,329.45	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0742 EA 12" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,321.08	508.67
<i>For Class 52 Rating, Deduct</i>	-500.54	
<i>For Class 54 Rating, Add</i>	691.80	
<i>For Class 55 Rating, Add</i>	1,033.23	
<i>For Class 56 Rating, Add</i>	1,370.10	
40 05 19 00-0743 EA 12" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,463.00	511.74
<i>For Class 52 Rating, Deduct</i>	-515.64	
<i>For Class 54 Rating, Add</i>	712.45	
<i>For Class 55 Rating, Add</i>	1,063.95	
<i>For Class 56 Rating, Add</i>	1,410.77	
40 05 19 00-0744 EA 12" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,604.90	514.80
<i>For Class 52 Rating, Deduct</i>	-530.74	
<i>For Class 54 Rating, Add</i>	733.10	
<i>For Class 55 Rating, Add</i>	1,094.67	
<i>For Class 56 Rating, Add</i>	1,451.43	
40 05 19 00-0745 EA 12" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,746.80	517.86
<i>For Class 52 Rating, Deduct</i>	-545.84	
<i>For Class 54 Rating, Add</i>	753.74	
<i>For Class 55 Rating, Add</i>	1,125.39	
<i>For Class 56 Rating, Add</i>	1,492.08	
40 05 19 00-0746 EA 12" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,888.71	520.93
<i>For Class 52 Rating, Deduct</i>	-560.94	
<i>For Class 54 Rating, Add</i>	774.39	
<i>For Class 55 Rating, Add</i>	1,156.12	
<i>For Class 56 Rating, Add</i>	1,532.75	
40 05 19 00-0747 EA 12" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,030.62	523.99
<i>For Class 52 Rating, Deduct</i>	-576.04	
<i>For Class 54 Rating, Add</i>	795.03	
<i>For Class 55 Rating, Add</i>	1,186.84	
<i>For Class 56 Rating, Add</i>	1,573.41	
40 05 19 00-0748 EA 12" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,172.52	527.05
<i>For Class 52 Rating, Deduct</i>	-591.13	
<i>For Class 54 Rating, Add</i>	815.68	
<i>For Class 55 Rating, Add</i>	1,217.56	
<i>For Class 56 Rating, Add</i>	1,614.06	
40 05 19 00-0749 EA 12" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,314.43	530.12
<i>For Class 52 Rating, Deduct</i>	-606.23	
<i>For Class 54 Rating, Add</i>	836.32	
<i>For Class 55 Rating, Add</i>	1,248.28	
<i>For Class 56 Rating, Add</i>	1,654.73	
40 05 19 00-0750 EA 12" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,456.34	533.18
<i>For Class 52 Rating, Deduct</i>	-621.33	
<i>For Class 54 Rating, Add</i>	856.97	
<i>For Class 55 Rating, Add</i>	1,279.00	
<i>For Class 56 Rating, Add</i>	1,695.38	
40 05 19 00-0751 EA 12" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,598.24	536.24
<i>For Class 52 Rating, Deduct</i>	-636.43	
<i>For Class 54 Rating, Add</i>	877.61	
<i>For Class 55 Rating, Add</i>	1,309.72	
<i>For Class 56 Rating, Add</i>	1,736.04	
40 05 19 00-0752 EA 12" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,740.15	539.32
<i>For Class 52 Rating, Deduct</i>	-651.53	
<i>For Class 54 Rating, Add</i>	898.26	
<i>For Class 55 Rating, Add</i>	1,340.44	
<i>For Class 56 Rating, Add</i>	1,776.70	
40 05 19 00-0753 EA 12" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,882.06	542.38
<i>For Class 52 Rating, Deduct</i>	-666.63	
<i>For Class 54 Rating, Add</i>	918.90	
<i>For Class 55 Rating, Add</i>	1,371.16	
<i>For Class 56 Rating, Add</i>	1,817.36	
40 05 19 00-0754 EA 12" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,023.95	545.45
<i>For Class 52 Rating, Deduct</i>	-681.73	
<i>For Class 54 Rating, Add</i>	939.55	
<i>For Class 55 Rating, Add</i>	1,401.88	
<i>For Class 56 Rating, Add</i>	1,858.02	

40 05 19 00-0755 14" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0756	EA	14"	Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,246.65	514.80
			<i>For Class 52 Rating, Deduct</i>	-161.33	
			<i>For Class 54 Rating, Add</i>	229.36	
			<i>For Class 55 Rating, Add</i>	345.78	
			<i>For Class 56 Rating, Add</i>	460.74	
40 05 19 00-0757	EA	14"	Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,418.64	517.86
			<i>For Class 52 Rating, Deduct</i>	-179.74	
			<i>For Class 54 Rating, Add</i>	254.52	
			<i>For Class 55 Rating, Add</i>	383.21	
			<i>For Class 56 Rating, Add</i>	510.28	
40 05 19 00-0758	EA	14"	Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,590.63	520.93
			<i>For Class 52 Rating, Deduct</i>	-198.15	
			<i>For Class 54 Rating, Add</i>	279.67	
			<i>For Class 55 Rating, Add</i>	420.64	
			<i>For Class 56 Rating, Add</i>	559.81	
40 05 19 00-0759	EA	14"	Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,762.63	523.99
			<i>For Class 52 Rating, Deduct</i>	-216.56	
			<i>For Class 54 Rating, Add</i>	304.83	
			<i>For Class 55 Rating, Add</i>	458.07	
			<i>For Class 56 Rating, Add</i>	609.35	
40 05 19 00-0760	EA	14"	Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,934.61	527.05
			<i>For Class 52 Rating, Deduct</i>	-234.96	
			<i>For Class 54 Rating, Add</i>	329.99	
			<i>For Class 55 Rating, Add</i>	495.50	
			<i>For Class 56 Rating, Add</i>	658.88	
40 05 19 00-0761	EA	14"	Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,106.60	530.12
			<i>For Class 52 Rating, Deduct</i>	-253.37	
			<i>For Class 54 Rating, Add</i>	355.15	
			<i>For Class 55 Rating, Add</i>	532.93	
			<i>For Class 56 Rating, Add</i>	708.42	
40 05 19 00-0762	EA	14"	Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,278.60	533.18
			<i>For Class 52 Rating, Deduct</i>	-271.78	
			<i>For Class 54 Rating, Add</i>	380.31	
			<i>For Class 55 Rating, Add</i>	570.36	
			<i>For Class 56 Rating, Add</i>	757.95	
40 05 19 00-0763	EA	14"	Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,450.59	536.24
			<i>For Class 52 Rating, Deduct</i>	-290.19	
			<i>For Class 54 Rating, Add</i>	405.46	
			<i>For Class 55 Rating, Add</i>	607.79	
			<i>For Class 56 Rating, Add</i>	807.49	
40 05 19 00-0764	EA	14"	Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,622.58	539.32
			<i>For Class 52 Rating, Deduct</i>	-308.60	
			<i>For Class 54 Rating, Add</i>	430.62	
			<i>For Class 55 Rating, Add</i>	645.22	
			<i>For Class 56 Rating, Add</i>	857.02	
40 05 19 00-0765	EA	14"	Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,794.58	542.38
			<i>For Class 52 Rating, Deduct</i>	-327.01	
			<i>For Class 54 Rating, Add</i>	455.78	
			<i>For Class 55 Rating, Add</i>	682.66	
			<i>For Class 56 Rating, Add</i>	906.56	
40 05 19 00-0766	EA	14"	Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,966.55	545.45
			<i>For Class 52 Rating, Deduct</i>	-345.41	
			<i>For Class 54 Rating, Add</i>	480.94	
			<i>For Class 55 Rating, Add</i>	720.08	
			<i>For Class 56 Rating, Add</i>	956.09	
40 05 19 00-0767	EA	14"	Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,138.55	548.51
			<i>For Class 52 Rating, Deduct</i>	-363.82	
			<i>For Class 54 Rating, Add</i>	506.09	
			<i>For Class 55 Rating, Add</i>	757.51	
			<i>For Class 56 Rating, Add</i>	1,005.63	
40 05 19 00-0768	EA	14"	Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,310.55	551.57
			<i>For Class 52 Rating, Deduct</i>	-382.23	
			<i>For Class 54 Rating, Add</i>	531.25	
			<i>For Class 55 Rating, Add</i>	794.94	
			<i>For Class 56 Rating, Add</i>	1,055.16	
40 05 19 00-0769	EA	14"	Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,482.53	554.64
			<i>For Class 52 Rating, Deduct</i>	-400.64	
			<i>For Class 54 Rating, Add</i>	556.41	
			<i>For Class 55 Rating, Add</i>	832.37	
			<i>For Class 56 Rating, Add</i>	1,104.70	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0770	EA			14" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,654.53	557.70
				<i>For Class 52 Rating, Deduct</i>	-419.05	
				<i>For Class 54 Rating, Add</i>	581.57	
				<i>For Class 55 Rating, Add</i>	869.81	
				<i>For Class 56 Rating, Add</i>	1,154.23	
40 05 19 00-0771	EA			14" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,826.52	560.76
				<i>For Class 52 Rating, Deduct</i>	-437.46	
				<i>For Class 54 Rating, Add</i>	606.73	
				<i>For Class 55 Rating, Add</i>	907.24	
				<i>For Class 56 Rating, Add</i>	1,203.77	
40 05 19 00-0772	EA			14" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,998.51	563.83
				<i>For Class 52 Rating, Deduct</i>	-455.87	
				<i>For Class 54 Rating, Add</i>	631.89	
				<i>For Class 55 Rating, Add</i>	944.67	
				<i>For Class 56 Rating, Add</i>	1,253.30	
40 05 19 00-0773	EA			14" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,170.50	566.89
				<i>For Class 52 Rating, Deduct</i>	-474.27	
				<i>For Class 54 Rating, Add</i>	657.04	
				<i>For Class 55 Rating, Add</i>	982.09	
				<i>For Class 56 Rating, Add</i>	1,302.83	
40 05 19 00-0774	EA			14" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,342.49	569.95
				<i>For Class 52 Rating, Deduct</i>	-492.68	
				<i>For Class 54 Rating, Add</i>	682.20	
				<i>For Class 55 Rating, Add</i>	1,019.52	
				<i>For Class 56 Rating, Add</i>	1,352.37	
40 05 19 00-0775	EA			14" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,514.48	573.02
				<i>For Class 52 Rating, Deduct</i>	-511.09	
				<i>For Class 54 Rating, Add</i>	707.36	
				<i>For Class 55 Rating, Add</i>	1,056.96	
				<i>For Class 56 Rating, Add</i>	1,401.91	
40 05 19 00-0776	EA			14" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,686.48	576.09
				<i>For Class 52 Rating, Deduct</i>	-529.50	
				<i>For Class 54 Rating, Add</i>	732.52	
				<i>For Class 55 Rating, Add</i>	1,094.39	
				<i>For Class 56 Rating, Add</i>	1,451.44	
40 05 19 00-0777	EA			14" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,858.47	579.15
				<i>For Class 52 Rating, Deduct</i>	-547.91	
				<i>For Class 54 Rating, Add</i>	757.68	
				<i>For Class 55 Rating, Add</i>	1,131.82	
				<i>For Class 56 Rating, Add</i>	1,500.98	
40 05 19 00-0778	EA			14" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,030.46	582.22
				<i>For Class 52 Rating, Deduct</i>	-566.32	
				<i>For Class 54 Rating, Add</i>	782.83	
				<i>For Class 55 Rating, Add</i>	1,169.25	
				<i>For Class 56 Rating, Add</i>	1,550.51	
40 05 19 00-0779	EA			14" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,202.44	585.28
				<i>For Class 52 Rating, Deduct</i>	-584.72	
				<i>For Class 54 Rating, Add</i>	807.99	
				<i>For Class 55 Rating, Add</i>	1,206.67	
				<i>For Class 56 Rating, Add</i>	1,600.04	
40 05 19 00-0780	EA			14" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,374.44	588.34
				<i>For Class 52 Rating, Deduct</i>	-603.13	
				<i>For Class 54 Rating, Add</i>	833.15	
				<i>For Class 55 Rating, Add</i>	1,244.11	
				<i>For Class 56 Rating, Add</i>	1,649.58	
40 05 19 00-0781	EA			14" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,546.43	591.41
				<i>For Class 52 Rating, Deduct</i>	-621.54	
				<i>For Class 54 Rating, Add</i>	858.31	
				<i>For Class 55 Rating, Add</i>	1,281.54	
				<i>For Class 56 Rating, Add</i>	1,699.11	
40 05 19 00-0782	EA			14" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,718.42	594.47
				<i>For Class 52 Rating, Deduct</i>	-639.95	
				<i>For Class 54 Rating, Add</i>	883.47	
				<i>For Class 55 Rating, Add</i>	1,318.97	
				<i>For Class 56 Rating, Add</i>	1,748.65	
40 05 19 00-0783	EA			14" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,890.42	597.53
				<i>For Class 52 Rating, Deduct</i>	-658.36	
				<i>For Class 54 Rating, Add</i>	908.62	
				<i>For Class 55 Rating, Add</i>	1,356.40	
				<i>For Class 56 Rating, Add</i>	1,798.19	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0784	EA		14" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,062.40	600.60
			<i>For Class 52 Rating, Deduct</i>	-676.77	
			<i>For Class 54 Rating, Add</i>	933.78	
			<i>For Class 55 Rating, Add</i>	1,393.83	
			<i>For Class 56 Rating, Add</i>	1,847.72	
40 05 19 00-0785	EA		14" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,234.40	603.66
			<i>For Class 52 Rating, Deduct</i>	-695.17	
			<i>For Class 54 Rating, Add</i>	958.94	
			<i>For Class 55 Rating, Add</i>	1,431.26	
			<i>For Class 56 Rating, Add</i>	1,897.26	
40 05 19 00-0786	EA		14" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,406.39	606.72
			<i>For Class 52 Rating, Deduct</i>	-713.58	
			<i>For Class 54 Rating, Add</i>	984.10	
			<i>For Class 55 Rating, Add</i>	1,468.69	
			<i>For Class 56 Rating, Add</i>	1,946.79	
40 05 19 00-0787	EA		14" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,578.37	609.79
			<i>For Class 52 Rating, Deduct</i>	-731.99	
			<i>For Class 54 Rating, Add</i>	1,009.25	
			<i>For Class 55 Rating, Add</i>	1,506.12	
			<i>For Class 56 Rating, Add</i>	1,996.32	
40 05 19 00-0788	EA		14" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,750.37	612.86
			<i>For Class 52 Rating, Deduct</i>	-750.40	
			<i>For Class 54 Rating, Add</i>	1,034.41	
			<i>For Class 55 Rating, Add</i>	1,543.55	
			<i>For Class 56 Rating, Add</i>	2,045.86	
40 05 19 00-0789	EA		14" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,922.37	615.92
			<i>For Class 52 Rating, Deduct</i>	-768.81	
			<i>For Class 54 Rating, Add</i>	1,059.57	
			<i>For Class 55 Rating, Add</i>	1,580.98	
			<i>For Class 56 Rating, Add</i>	2,095.40	
40 05 19 00-0790	EA		14" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,094.35	618.99
			<i>For Class 52 Rating, Deduct</i>	-787.22	
			<i>For Class 54 Rating, Add</i>	1,084.73	
			<i>For Class 55 Rating, Add</i>	1,618.41	
			<i>For Class 56 Rating, Add</i>	2,144.93	
40 05 19 00-0791	EA		14" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,266.35	622.05
			<i>For Class 52 Rating, Deduct</i>	-805.62	
			<i>For Class 54 Rating, Add</i>	1,109.89	
			<i>For Class 55 Rating, Add</i>	1,655.84	
			<i>For Class 56 Rating, Add</i>	2,194.47	
40 05 19 00-0792	EA		14" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,438.33	625.12
			<i>For Class 52 Rating, Deduct</i>	-824.03	
			<i>For Class 54 Rating, Add</i>	1,135.04	
			<i>For Class 55 Rating, Add</i>	1,693.27	
			<i>For Class 56 Rating, Add</i>	2,244.00	
40 05 19 00-0793	EA		14" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,610.32	628.18
			<i>For Class 52 Rating, Deduct</i>	-842.44	
			<i>For Class 54 Rating, Add</i>	1,160.20	
			<i>For Class 55 Rating, Add</i>	1,730.70	
			<i>For Class 56 Rating, Add</i>	2,293.53	
40 05 19 00-0794			16" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
			<small>(40 05 19 00-0554)</small>		
40 05 19 00-0795	EA		16" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,626.97	588.34
			<i>For Class 52 Rating, Deduct</i>	-190.91	
			<i>For Class 54 Rating, Add</i>	271.03	
			<i>For Class 55 Rating, Add</i>	408.42	
			<i>For Class 56 Rating, Add</i>	544.08	
40 05 19 00-0796	EA		16" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,827.16	591.41
			<i>For Class 52 Rating, Deduct</i>	-212.42	
			<i>For Class 54 Rating, Add</i>	300.42	
			<i>For Class 55 Rating, Add</i>	452.14	
			<i>For Class 56 Rating, Add</i>	601.93	
40 05 19 00-0797	EA		16" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,027.35	594.47
			<i>For Class 52 Rating, Deduct</i>	-233.93	
			<i>For Class 54 Rating, Add</i>	329.80	
			<i>For Class 55 Rating, Add</i>	495.86	
			<i>For Class 56 Rating, Add</i>	659.78	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0798 EA 16" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,227.56	597.53
<i>For Class 52 Rating, Deduct</i>	-255.44	
<i>For Class 54 Rating, Add</i>	359.19	
<i>For Class 55 Rating, Add</i>	539.58	
<i>For Class 56 Rating, Add</i>	717.64	
40 05 19 00-0799 EA 16" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,427.74	600.60
<i>For Class 52 Rating, Deduct</i>	-276.95	
<i>For Class 54 Rating, Add</i>	388.58	
<i>For Class 55 Rating, Add</i>	583.30	
<i>For Class 56 Rating, Add</i>	775.50	
40 05 19 00-0800 EA 16" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,627.94	603.66
<i>For Class 52 Rating, Deduct</i>	-298.46	
<i>For Class 54 Rating, Add</i>	417.97	
<i>For Class 55 Rating, Add</i>	627.02	
<i>For Class 56 Rating, Add</i>	833.35	
40 05 19 00-0801 EA 16" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,828.15	606.72
<i>For Class 52 Rating, Deduct</i>	-319.97	
<i>For Class 54 Rating, Add</i>	447.36	
<i>For Class 55 Rating, Add</i>	670.74	
<i>For Class 56 Rating, Add</i>	891.21	
40 05 19 00-0802 EA 16" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,028.33	609.79
<i>For Class 52 Rating, Deduct</i>	-341.49	
<i>For Class 54 Rating, Add</i>	476.75	
<i>For Class 55 Rating, Add</i>	714.46	
<i>For Class 56 Rating, Add</i>	949.06	
40 05 19 00-0803 EA 16" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,228.53	612.86
<i>For Class 52 Rating, Deduct</i>	-363.00	
<i>For Class 54 Rating, Add</i>	506.14	
<i>For Class 55 Rating, Add</i>	758.18	
<i>For Class 56 Rating, Add</i>	1,006.92	
40 05 19 00-0804 EA 16" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,409.93	615.92
<i>For Class 52 Rating, Deduct</i>	-382.44	
<i>For Class 54 Rating, Add</i>	532.71	
<i>For Class 55 Rating, Add</i>	797.70	
<i>For Class 56 Rating, Add</i>	1,059.23	
40 05 19 00-0805 EA 16" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,628.92	618.99
<i>For Class 52 Rating, Deduct</i>	-406.02	
<i>For Class 54 Rating, Add</i>	564.91	
<i>For Class 55 Rating, Add</i>	845.62	
<i>For Class 56 Rating, Add</i>	1,122.63	
40 05 19 00-0806 EA 16" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,829.12	622.05
<i>For Class 52 Rating, Deduct</i>	-427.53	
<i>For Class 54 Rating, Add</i>	594.30	
<i>For Class 55 Rating, Add</i>	889.34	
<i>For Class 56 Rating, Add</i>	1,180.48	
40 05 19 00-0807 EA 16" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,029.31	625.12
<i>For Class 52 Rating, Deduct</i>	-449.04	
<i>For Class 54 Rating, Add</i>	623.69	
<i>For Class 55 Rating, Add</i>	933.06	
<i>For Class 56 Rating, Add</i>	1,238.34	
40 05 19 00-0808 EA 16" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,229.51	628.18
<i>For Class 52 Rating, Deduct</i>	-470.55	
<i>For Class 54 Rating, Add</i>	653.08	
<i>For Class 55 Rating, Add</i>	976.78	
<i>For Class 56 Rating, Add</i>	1,296.19	
40 05 19 00-0809 EA 16" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,429.71	631.24
<i>For Class 52 Rating, Deduct</i>	-492.06	
<i>For Class 54 Rating, Add</i>	682.47	
<i>For Class 55 Rating, Add</i>	1,020.50	
<i>For Class 56 Rating, Add</i>	1,354.05	
40 05 19 00-0810 EA 16" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,629.90	634.31
<i>For Class 52 Rating, Deduct</i>	-513.57	
<i>For Class 54 Rating, Add</i>	711.86	
<i>For Class 55 Rating, Add</i>	1,064.21	
<i>For Class 56 Rating, Add</i>	1,411.90	
40 05 19 00-0811 EA 16" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,830.11	637.37
<i>For Class 52 Rating, Deduct</i>	-535.08	
<i>For Class 54 Rating, Add</i>	741.25	
<i>For Class 55 Rating, Add</i>	1,107.94	
<i>For Class 56 Rating, Add</i>	1,469.76	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0812	EA		16" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,030.29	640.43
			<i>For Class 52 Rating, Deduct</i>	-556.59	
			<i>For Class 54 Rating, Add</i>	770.64	
			<i>For Class 55 Rating, Add</i>	1,151.66	
			<i>For Class 56 Rating, Add</i>	1,527.61	
40 05 19 00-0813	EA		16" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,230.49	643.50
			<i>For Class 52 Rating, Deduct</i>	-578.10	
			<i>For Class 54 Rating, Add</i>	800.02	
			<i>For Class 55 Rating, Add</i>	1,195.37	
			<i>For Class 56 Rating, Add</i>	1,585.47	
40 05 19 00-0814	EA		16" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,430.70	646.56
			<i>For Class 52 Rating, Deduct</i>	-599.62	
			<i>For Class 54 Rating, Add</i>	829.41	
			<i>For Class 55 Rating, Add</i>	1,239.10	
			<i>For Class 56 Rating, Add</i>	1,643.33	
40 05 19 00-0815	EA		16" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,630.88	649.63
			<i>For Class 52 Rating, Deduct</i>	-621.13	
			<i>For Class 54 Rating, Add</i>	858.80	
			<i>For Class 55 Rating, Add</i>	1,282.81	
			<i>For Class 56 Rating, Add</i>	1,701.18	
40 05 19 00-0816	EA		16" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,831.08	652.70
			<i>For Class 52 Rating, Deduct</i>	-642.64	
			<i>For Class 54 Rating, Add</i>	888.19	
			<i>For Class 55 Rating, Add</i>	1,326.53	
			<i>For Class 56 Rating, Add</i>	1,759.04	
40 05 19 00-0817	EA		16" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,031.29	655.76
			<i>For Class 52 Rating, Deduct</i>	-664.15	
			<i>For Class 54 Rating, Add</i>	917.58	
			<i>For Class 55 Rating, Add</i>	1,370.26	
			<i>For Class 56 Rating, Add</i>	1,816.89	
40 05 19 00-0818	EA		16" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,231.47	658.82
			<i>For Class 52 Rating, Deduct</i>	-685.66	
			<i>For Class 54 Rating, Add</i>	946.97	
			<i>For Class 55 Rating, Add</i>	1,413.97	
			<i>For Class 56 Rating, Add</i>	1,874.75	
40 05 19 00-0819	EA		16" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,431.67	661.89
			<i>For Class 52 Rating, Deduct</i>	-707.17	
			<i>For Class 54 Rating, Add</i>	976.36	
			<i>For Class 55 Rating, Add</i>	1,457.69	
			<i>For Class 56 Rating, Add</i>	1,932.60	
40 05 19 00-0820	EA		16" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,631.87	664.95
			<i>For Class 52 Rating, Deduct</i>	-728.68	
			<i>For Class 54 Rating, Add</i>	1,005.75	
			<i>For Class 55 Rating, Add</i>	1,501.41	
			<i>For Class 56 Rating, Add</i>	1,990.46	
40 05 19 00-0821	EA		16" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,832.06	668.01
			<i>For Class 52 Rating, Deduct</i>	-750.19	
			<i>For Class 54 Rating, Add</i>	1,035.13	
			<i>For Class 55 Rating, Add</i>	1,545.13	
			<i>For Class 56 Rating, Add</i>	2,048.31	
40 05 19 00-0822	EA		16" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,032.26	671.08
			<i>For Class 52 Rating, Deduct</i>	-771.70	
			<i>For Class 54 Rating, Add</i>	1,064.52	
			<i>For Class 55 Rating, Add</i>	1,588.85	
			<i>For Class 56 Rating, Add</i>	2,106.17	
40 05 19 00-0823	EA		16" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,232.46	674.14
			<i>For Class 52 Rating, Deduct</i>	-793.21	
			<i>For Class 54 Rating, Add</i>	1,093.91	
			<i>For Class 55 Rating, Add</i>	1,632.57	
			<i>For Class 56 Rating, Add</i>	2,164.03	
40 05 19 00-0824	EA		16" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,432.65	677.20
			<i>For Class 52 Rating, Deduct</i>	-814.72	
			<i>For Class 54 Rating, Add</i>	1,123.30	
			<i>For Class 55 Rating, Add</i>	1,676.29	
			<i>For Class 56 Rating, Add</i>	2,221.88	
40 05 19 00-0825	EA		16" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,632.84	680.27
			<i>For Class 52 Rating, Deduct</i>	-836.23	
			<i>For Class 54 Rating, Add</i>	1,152.69	
			<i>For Class 55 Rating, Add</i>	1,720.01	
			<i>For Class 56 Rating, Add</i>	2,279.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0826 EA 16" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,833.05	683.33
<i>For Class 52 Rating, Deduct</i>	-857.75	
<i>For Class 54 Rating, Add</i>	1,182.08	
<i>For Class 55 Rating, Add</i>	1,763.73	
<i>For Class 56 Rating, Add</i>	2,337.59	
40 05 19 00-0827 EA 16" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,033.24	686.40
<i>For Class 52 Rating, Deduct</i>	-879.26	
<i>For Class 54 Rating, Add</i>	1,211.47	
<i>For Class 55 Rating, Add</i>	1,807.45	
<i>For Class 56 Rating, Add</i>	2,395.45	
40 05 19 00-0828 EA 16" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,233.43	689.47
<i>For Class 52 Rating, Deduct</i>	-900.77	
<i>For Class 54 Rating, Add</i>	1,240.85	
<i>For Class 55 Rating, Add</i>	1,851.17	
<i>For Class 56 Rating, Add</i>	2,453.30	
40 05 19 00-0829 EA 16" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,433.64	692.53
<i>For Class 52 Rating, Deduct</i>	-922.28	
<i>For Class 54 Rating, Add</i>	1,270.24	
<i>For Class 55 Rating, Add</i>	1,894.89	
<i>For Class 56 Rating, Add</i>	2,511.16	
40 05 19 00-0830 EA 16" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,633.83	695.59
<i>For Class 52 Rating, Deduct</i>	-943.79	
<i>For Class 54 Rating, Add</i>	1,299.63	
<i>For Class 55 Rating, Add</i>	1,938.61	
<i>For Class 56 Rating, Add</i>	2,569.01	
40 05 19 00-0831 EA 16" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,834.02	698.66
<i>For Class 52 Rating, Deduct</i>	-965.30	
<i>For Class 54 Rating, Add</i>	1,329.02	
<i>For Class 55 Rating, Add</i>	1,982.33	
<i>For Class 56 Rating, Add</i>	2,626.87	
40 05 19 00-0832 EA 16" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,034.23	701.72
<i>For Class 52 Rating, Deduct</i>	-986.81	
<i>For Class 54 Rating, Add</i>	1,358.41	
<i>For Class 55 Rating, Add</i>	2,026.05	
<i>For Class 56 Rating, Add</i>	2,684.72	
40 05 19 00-0833 18" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0834 EA 18" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,063.67	663.11
<i>For Class 52 Rating, Deduct</i>	-226.48	
<i>For Class 54 Rating, Add</i>	320.90	
<i>For Class 55 Rating, Add</i>	483.26	
<i>For Class 56 Rating, Add</i>	643.56	
40 05 19 00-0835 EA 18" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,293.94	666.18
<i>For Class 52 Rating, Deduct</i>	-251.30	
<i>For Class 54 Rating, Add</i>	354.80	
<i>For Class 55 Rating, Add</i>	533.69	
<i>For Class 56 Rating, Add</i>	710.29	
40 05 19 00-0836 EA 18" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,524.23	669.25
<i>For Class 52 Rating, Deduct</i>	-276.13	
<i>For Class 54 Rating, Add</i>	388.70	
<i>For Class 55 Rating, Add</i>	584.12	
<i>For Class 56 Rating, Add</i>	777.02	
40 05 19 00-0837 EA 18" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,754.51	672.31
<i>For Class 52 Rating, Deduct</i>	-300.95	
<i>For Class 54 Rating, Add</i>	422.60	
<i>For Class 55 Rating, Add</i>	634.55	
<i>For Class 56 Rating, Add</i>	843.75	
40 05 19 00-0838 EA 18" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,984.78	675.38
<i>For Class 52 Rating, Deduct</i>	-325.77	
<i>For Class 54 Rating, Add</i>	456.50	
<i>For Class 55 Rating, Add</i>	684.97	
<i>For Class 56 Rating, Add</i>	910.48	
40 05 19 00-0839 EA 18" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,215.07	678.44
<i>For Class 52 Rating, Deduct</i>	-350.59	
<i>For Class 54 Rating, Add</i>	490.41	
<i>For Class 55 Rating, Add</i>	735.40	
<i>For Class 56 Rating, Add</i>	977.21	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0840	EA		18" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,445.35	681.50
			<i>For Class 52 Rating, Deduct</i>	-375.41	
			<i>For Class 54 Rating, Add</i>	524.31	
			<i>For Class 55 Rating, Add</i>	785.83	
			<i>For Class 56 Rating, Add</i>	1,043.94	
40 05 19 00-0841	EA		18" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,675.63	684.57
			<i>For Class 52 Rating, Deduct</i>	-400.23	
			<i>For Class 54 Rating, Add</i>	558.21	
			<i>For Class 55 Rating, Add</i>	836.26	
			<i>For Class 56 Rating, Add</i>	1,110.67	
40 05 19 00-0842	EA		18" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,905.92	687.63
			<i>For Class 52 Rating, Deduct</i>	-425.05	
			<i>For Class 54 Rating, Add</i>	592.11	
			<i>For Class 55 Rating, Add</i>	886.69	
			<i>For Class 56 Rating, Add</i>	1,177.40	
40 05 19 00-0843	EA		18" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,136.20	690.69
			<i>For Class 52 Rating, Deduct</i>	-449.87	
			<i>For Class 54 Rating, Add</i>	626.01	
			<i>For Class 55 Rating, Add</i>	937.12	
			<i>For Class 56 Rating, Add</i>	1,244.14	
40 05 19 00-0844	EA		18" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,366.47	693.76
			<i>For Class 52 Rating, Deduct</i>	-474.69	
			<i>For Class 54 Rating, Add</i>	659.91	
			<i>For Class 55 Rating, Add</i>	987.55	
			<i>For Class 56 Rating, Add</i>	1,310.86	
40 05 19 00-0845	EA		18" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,596.75	696.82
			<i>For Class 52 Rating, Deduct</i>	-499.51	
			<i>For Class 54 Rating, Add</i>	693.81	
			<i>For Class 55 Rating, Add</i>	1,037.98	
			<i>For Class 56 Rating, Add</i>	1,377.59	
40 05 19 00-0846	EA		18" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,827.04	699.88
			<i>For Class 52 Rating, Deduct</i>	-524.33	
			<i>For Class 54 Rating, Add</i>	727.72	
			<i>For Class 55 Rating, Add</i>	1,088.40	
			<i>For Class 56 Rating, Add</i>	1,444.33	
40 05 19 00-0847	EA		18" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,057.32	702.95
			<i>For Class 52 Rating, Deduct</i>	-549.15	
			<i>For Class 54 Rating, Add</i>	761.62	
			<i>For Class 55 Rating, Add</i>	1,138.83	
			<i>For Class 56 Rating, Add</i>	1,511.06	
40 05 19 00-0848	EA		18" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,287.60	706.02
			<i>For Class 52 Rating, Deduct</i>	-573.97	
			<i>For Class 54 Rating, Add</i>	795.52	
			<i>For Class 55 Rating, Add</i>	1,189.26	
			<i>For Class 56 Rating, Add</i>	1,577.79	
40 05 19 00-0849	EA		18" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,517.89	709.08
			<i>For Class 52 Rating, Deduct</i>	-598.79	
			<i>For Class 54 Rating, Add</i>	829.42	
			<i>For Class 55 Rating, Add</i>	1,239.69	
			<i>For Class 56 Rating, Add</i>	1,644.52	
40 05 19 00-0850	EA		18" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,748.15	712.15
			<i>For Class 52 Rating, Deduct</i>	-623.61	
			<i>For Class 54 Rating, Add</i>	863.32	
			<i>For Class 55 Rating, Add</i>	1,290.12	
			<i>For Class 56 Rating, Add</i>	1,711.25	
40 05 19 00-0851	EA		18" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,978.44	715.21
			<i>For Class 52 Rating, Deduct</i>	-648.43	
			<i>For Class 54 Rating, Add</i>	897.22	
			<i>For Class 55 Rating, Add</i>	1,340.55	
			<i>For Class 56 Rating, Add</i>	1,777.98	
40 05 19 00-0852	EA		18" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,208.73	718.27
			<i>For Class 52 Rating, Deduct</i>	-673.25	
			<i>For Class 54 Rating, Add</i>	931.13	
			<i>For Class 55 Rating, Add</i>	1,390.98	
			<i>For Class 56 Rating, Add</i>	1,844.71	
40 05 19 00-0853	EA		18" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,439.00	721.34
			<i>For Class 52 Rating, Deduct</i>	-698.07	
			<i>For Class 54 Rating, Add</i>	965.03	
			<i>For Class 55 Rating, Add</i>	1,441.41	
			<i>For Class 56 Rating, Add</i>	1,911.44	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0854 EA 18" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,669.29	724.40
<i>For Class 52 Rating, Deduct</i>	-722.89	
<i>For Class 54 Rating, Add</i>	998.93	
<i>For Class 55 Rating, Add</i>	1,491.84	
<i>For Class 56 Rating, Add</i>	1,978.17	
40 05 19 00-0855 EA 18" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,899.58	727.46
<i>For Class 52 Rating, Deduct</i>	-747.71	
<i>For Class 54 Rating, Add</i>	1,032.83	
<i>For Class 55 Rating, Add</i>	1,542.26	
<i>For Class 56 Rating, Add</i>	2,044.90	
40 05 19 00-0856 EA 18" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,129.85	730.53
<i>For Class 52 Rating, Deduct</i>	-772.53	
<i>For Class 54 Rating, Add</i>	1,066.73	
<i>For Class 55 Rating, Add</i>	1,592.69	
<i>For Class 56 Rating, Add</i>	2,111.63	
40 05 19 00-0857 EA 18" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,360.13	733.59
<i>For Class 52 Rating, Deduct</i>	-797.35	
<i>For Class 54 Rating, Add</i>	1,100.63	
<i>For Class 55 Rating, Add</i>	1,643.12	
<i>For Class 56 Rating, Add</i>	2,178.36	
40 05 19 00-0858 EA 18" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,590.41	736.66
<i>For Class 52 Rating, Deduct</i>	-822.17	
<i>For Class 54 Rating, Add</i>	1,134.53	
<i>For Class 55 Rating, Add</i>	1,693.55	
<i>For Class 56 Rating, Add</i>	2,245.09	
40 05 19 00-0859 EA 18" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,820.70	739.72
<i>For Class 52 Rating, Deduct</i>	-846.99	
<i>For Class 54 Rating, Add</i>	1,168.44	
<i>For Class 55 Rating, Add</i>	1,743.98	
<i>For Class 56 Rating, Add</i>	2,311.82	
40 05 19 00-0860 EA 18" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,050.98	742.78
<i>For Class 52 Rating, Deduct</i>	-871.81	
<i>For Class 54 Rating, Add</i>	1,202.34	
<i>For Class 55 Rating, Add</i>	1,794.41	
<i>For Class 56 Rating, Add</i>	2,378.55	
40 05 19 00-0861 EA 18" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,281.26	745.86
<i>For Class 52 Rating, Deduct</i>	-896.63	
<i>For Class 54 Rating, Add</i>	1,236.24	
<i>For Class 55 Rating, Add</i>	1,844.84	
<i>For Class 56 Rating, Add</i>	2,445.28	
40 05 19 00-0862 EA 18" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,511.55	748.92
<i>For Class 52 Rating, Deduct</i>	-921.45	
<i>For Class 54 Rating, Add</i>	1,270.14	
<i>For Class 55 Rating, Add</i>	1,895.27	
<i>For Class 56 Rating, Add</i>	2,512.01	
40 05 19 00-0863 EA 18" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,741.81	751.98
<i>For Class 52 Rating, Deduct</i>	-946.27	
<i>For Class 54 Rating, Add</i>	1,304.04	
<i>For Class 55 Rating, Add</i>	1,945.69	
<i>For Class 56 Rating, Add</i>	2,578.74	
40 05 19 00-0864 EA 18" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,972.10	755.05
<i>For Class 52 Rating, Deduct</i>	-971.09	
<i>For Class 54 Rating, Add</i>	1,337.94	
<i>For Class 55 Rating, Add</i>	1,996.12	
<i>For Class 56 Rating, Add</i>	2,645.47	
40 05 19 00-0865 EA 18" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,202.39	758.11
<i>For Class 52 Rating, Deduct</i>	-995.91	
<i>For Class 54 Rating, Add</i>	1,371.84	
<i>For Class 55 Rating, Add</i>	2,046.55	
<i>For Class 56 Rating, Add</i>	2,712.20	
40 05 19 00-0866 EA 18" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,432.66	761.17
<i>For Class 52 Rating, Deduct</i>	-1,020.73	
<i>For Class 54 Rating, Add</i>	1,405.75	
<i>For Class 55 Rating, Add</i>	2,096.98	
<i>For Class 56 Rating, Add</i>	2,778.94	
40 05 19 00-0867 EA 18" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,662.95	764.24
<i>For Class 52 Rating, Deduct</i>	-1,045.55	
<i>For Class 54 Rating, Add</i>	1,439.65	
<i>For Class 55 Rating, Add</i>	2,147.41	
<i>For Class 56 Rating, Add</i>	2,845.67	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0868	EA		18" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,893.24	767.30
			<i>For Class 52 Rating, Deduct</i>	-1,070.37	
			<i>For Class 54 Rating, Add</i>	1,473.55	
			<i>For Class 55 Rating, Add</i>	2,197.84	
			<i>For Class 56 Rating, Add</i>	2,912.40	
40 05 19 00-0869	EA		18" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,123.50	770.36
			<i>For Class 52 Rating, Deduct</i>	-1,095.19	
			<i>For Class 54 Rating, Add</i>	1,507.45	
			<i>For Class 55 Rating, Add</i>	2,248.27	
			<i>For Class 56 Rating, Add</i>	2,979.13	
40 05 19 00-0870	EA		18" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,353.79	773.43
			<i>For Class 52 Rating, Deduct</i>	-1,120.01	
			<i>For Class 54 Rating, Add</i>	1,541.35	
			<i>For Class 55 Rating, Add</i>	2,298.70	
			<i>For Class 56 Rating, Add</i>	3,045.86	
40 05 19 00-0871	EA		18" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,584.07	776.49
			<i>For Class 52 Rating, Deduct</i>	-1,144.83	
			<i>For Class 54 Rating, Add</i>	1,575.25	
			<i>For Class 55 Rating, Add</i>	2,349.12	
			<i>For Class 56 Rating, Add</i>	3,112.59	
40 05 19 00-0872			20" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0873	EA		20" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,551.72	756.87
			<i>For Class 52 Rating, Deduct</i>	-264.54	
			<i>For Class 54 Rating, Add</i>	374.50	
			<i>For Class 55 Rating, Add</i>	563.82	
			<i>For Class 56 Rating, Add</i>	750.74	
40 05 19 00-0874	EA		20" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,815.83	759.94
			<i>For Class 52 Rating, Deduct</i>	-293.09	
			<i>For Class 54 Rating, Add</i>	413.48	
			<i>For Class 55 Rating, Add</i>	621.80	
			<i>For Class 56 Rating, Add</i>	827.45	
40 05 19 00-0875	EA		20" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,079.97	763.01
			<i>For Class 52 Rating, Deduct</i>	-321.63	
			<i>For Class 54 Rating, Add</i>	452.46	
			<i>For Class 55 Rating, Add</i>	679.78	
			<i>For Class 56 Rating, Add</i>	904.17	
40 05 19 00-0876	EA		20" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,344.10	766.07
			<i>For Class 52 Rating, Deduct</i>	-350.17	
			<i>For Class 54 Rating, Add</i>	491.44	
			<i>For Class 55 Rating, Add</i>	737.75	
			<i>For Class 56 Rating, Add</i>	980.88	
40 05 19 00-0877	EA		20" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,608.22	769.14
			<i>For Class 52 Rating, Deduct</i>	-378.72	
			<i>For Class 54 Rating, Add</i>	530.41	
			<i>For Class 55 Rating, Add</i>	795.73	
			<i>For Class 56 Rating, Add</i>	1,057.60	
40 05 19 00-0878	EA		20" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,872.35	772.20
			<i>For Class 52 Rating, Deduct</i>	-407.26	
			<i>For Class 54 Rating, Add</i>	569.39	
			<i>For Class 55 Rating, Add</i>	853.70	
			<i>For Class 56 Rating, Add</i>	1,134.31	
40 05 19 00-0879	EA		20" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,136.48	775.26
			<i>For Class 52 Rating, Deduct</i>	-435.80	
			<i>For Class 54 Rating, Add</i>	608.37	
			<i>For Class 55 Rating, Add</i>	911.68	
			<i>For Class 56 Rating, Add</i>	1,211.03	
40 05 19 00-0880	EA		20" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,400.60	778.33
			<i>For Class 52 Rating, Deduct</i>	-464.35	
			<i>For Class 54 Rating, Add</i>	647.35	
			<i>For Class 55 Rating, Add</i>	969.66	
			<i>For Class 56 Rating, Add</i>	1,287.74	
40 05 19 00-0881	EA		20" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,664.73	781.39
			<i>For Class 52 Rating, Deduct</i>	-492.89	
			<i>For Class 54 Rating, Add</i>	686.33	
			<i>For Class 55 Rating, Add</i>	1,027.63	
			<i>For Class 56 Rating, Add</i>	1,364.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0882 EA 20" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,928.86	784.45
For Class 52 Rating, Deduct	-521.43	
For Class 54 Rating, Add	725.31	
For Class 55 Rating, Add	1,085.61	
For Class 56 Rating, Add	1,441.17	
40 05 19 00-0883 EA 20" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,192.98	787.52
For Class 52 Rating, Deduct	-549.97	
For Class 54 Rating, Add	764.28	
For Class 55 Rating, Add	1,143.59	
For Class 56 Rating, Add	1,517.89	
40 05 19 00-0884 EA 20" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,457.12	790.58
For Class 52 Rating, Deduct	-578.52	
For Class 54 Rating, Add	803.26	
For Class 55 Rating, Add	1,201.56	
For Class 56 Rating, Add	1,594.60	
40 05 19 00-0885 EA 20" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,721.24	793.65
For Class 52 Rating, Deduct	-607.06	
For Class 54 Rating, Add	842.24	
For Class 55 Rating, Add	1,259.54	
For Class 56 Rating, Add	1,671.32	
40 05 19 00-0886 EA 20" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,985.36	796.71
For Class 52 Rating, Deduct	-635.60	
For Class 54 Rating, Add	881.22	
For Class 55 Rating, Add	1,317.51	
For Class 56 Rating, Add	1,748.03	
40 05 19 00-0887 EA 20" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,249.49	799.78
For Class 52 Rating, Deduct	-664.15	
For Class 54 Rating, Add	920.20	
For Class 55 Rating, Add	1,375.49	
For Class 56 Rating, Add	1,824.75	
40 05 19 00-0888 EA 20" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,513.62	802.85
For Class 52 Rating, Deduct	-692.69	
For Class 54 Rating, Add	959.18	
For Class 55 Rating, Add	1,433.47	
For Class 56 Rating, Add	1,901.46	
40 05 19 00-0889 EA 20" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,777.75	805.91
For Class 52 Rating, Deduct	-721.23	
For Class 54 Rating, Add	998.15	
For Class 55 Rating, Add	1,491.45	
For Class 56 Rating, Add	1,978.18	
40 05 19 00-0890 EA 20" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,041.87	808.97
For Class 52 Rating, Deduct	-749.78	
For Class 54 Rating, Add	1,037.13	
For Class 55 Rating, Add	1,549.42	
For Class 56 Rating, Add	2,054.89	
40 05 19 00-0891 EA 20" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,306.00	812.04
For Class 52 Rating, Deduct	-778.32	
For Class 54 Rating, Add	1,076.11	
For Class 55 Rating, Add	1,607.40	
For Class 56 Rating, Add	2,131.61	
40 05 19 00-0892 EA 20" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,570.13	815.10
For Class 52 Rating, Deduct	-806.86	
For Class 54 Rating, Add	1,115.09	
For Class 55 Rating, Add	1,665.37	
For Class 56 Rating, Add	2,208.32	
40 05 19 00-0893 EA 20" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,834.25	818.16
For Class 52 Rating, Deduct	-835.41	
For Class 54 Rating, Add	1,154.07	
For Class 55 Rating, Add	1,723.35	
For Class 56 Rating, Add	2,285.04	
40 05 19 00-0894 EA 20" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,098.39	821.23
For Class 52 Rating, Deduct	-863.95	
For Class 54 Rating, Add	1,193.05	
For Class 55 Rating, Add	1,781.33	
For Class 56 Rating, Add	2,361.75	
40 05 19 00-0895 EA 20" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,362.50	824.29
For Class 52 Rating, Deduct	-892.49	
For Class 54 Rating, Add	1,232.02	
For Class 55 Rating, Add	1,839.30	
For Class 56 Rating, Add	2,438.47	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0896	EA	20"	Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,626.63	827.35
			<i>For Class 52 Rating, Deduct</i>	-921.04	
			<i>For Class 54 Rating, Add</i>	1,271.00	
			<i>For Class 55 Rating, Add</i>	1,897.28	
			<i>For Class 56 Rating, Add</i>	2,515.18	
40 05 19 00-0897	EA	20"	Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,890.77	830.42
			<i>For Class 52 Rating, Deduct</i>	-949.58	
			<i>For Class 54 Rating, Add</i>	1,309.98	
			<i>For Class 55 Rating, Add</i>	1,955.26	
			<i>For Class 56 Rating, Add</i>	2,591.90	
40 05 19 00-0898	EA	20"	Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,154.88	833.48
			<i>For Class 52 Rating, Deduct</i>	-978.12	
			<i>For Class 54 Rating, Add</i>	1,348.96	
			<i>For Class 55 Rating, Add</i>	2,013.23	
			<i>For Class 56 Rating, Add</i>	2,668.61	
40 05 19 00-0899	EA	20"	Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,419.02	836.55
			<i>For Class 52 Rating, Deduct</i>	-1,006.67	
			<i>For Class 54 Rating, Add</i>	1,387.94	
			<i>For Class 55 Rating, Add</i>	2,071.21	
			<i>For Class 56 Rating, Add</i>	2,745.33	
40 05 19 00-0900	EA	20"	Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,683.14	839.62
			<i>For Class 52 Rating, Deduct</i>	-1,035.21	
			<i>For Class 54 Rating, Add</i>	1,426.92	
			<i>For Class 55 Rating, Add</i>	2,129.18	
			<i>For Class 56 Rating, Add</i>	2,822.04	
40 05 19 00-0901	EA	20"	Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,947.27	842.68
			<i>For Class 52 Rating, Deduct</i>	-1,063.75	
			<i>For Class 54 Rating, Add</i>	1,465.89	
			<i>For Class 55 Rating, Add</i>	2,187.16	
			<i>For Class 56 Rating, Add</i>	2,898.76	
40 05 19 00-0902	EA	20"	Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,211.40	845.74
			<i>For Class 52 Rating, Deduct</i>	-1,092.30	
			<i>For Class 54 Rating, Add</i>	1,504.87	
			<i>For Class 55 Rating, Add</i>	2,245.14	
			<i>For Class 56 Rating, Add</i>	2,975.47	
40 05 19 00-0903	EA	20"	Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,475.52	848.81
			<i>For Class 52 Rating, Deduct</i>	-1,120.84	
			<i>For Class 54 Rating, Add</i>	1,543.85	
			<i>For Class 55 Rating, Add</i>	2,303.11	
			<i>For Class 56 Rating, Add</i>	3,052.19	
40 05 19 00-0904	EA	20"	Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,739.65	851.87
			<i>For Class 52 Rating, Deduct</i>	-1,149.38	
			<i>For Class 54 Rating, Add</i>	1,582.83	
			<i>For Class 55 Rating, Add</i>	2,361.09	
			<i>For Class 56 Rating, Add</i>	3,128.90	
40 05 19 00-0905	EA	20"	Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,003.77	854.93
			<i>For Class 52 Rating, Deduct</i>	-1,177.93	
			<i>For Class 54 Rating, Add</i>	1,621.81	
			<i>For Class 55 Rating, Add</i>	2,419.07	
			<i>For Class 56 Rating, Add</i>	3,205.62	
40 05 19 00-0906	EA	20"	Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,267.91	858.00
			<i>For Class 52 Rating, Deduct</i>	-1,206.47	
			<i>For Class 54 Rating, Add</i>	1,660.79	
			<i>For Class 55 Rating, Add</i>	2,477.04	
			<i>For Class 56 Rating, Add</i>	3,282.33	
40 05 19 00-0907	EA	20"	Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,532.03	861.06
			<i>For Class 52 Rating, Deduct</i>	-1,235.01	
			<i>For Class 54 Rating, Add</i>	1,699.76	
			<i>For Class 55 Rating, Add</i>	2,535.02	
			<i>For Class 56 Rating, Add</i>	3,359.05	
40 05 19 00-0908	EA	20"	Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,796.15	864.12
			<i>For Class 52 Rating, Deduct</i>	-1,263.56	
			<i>For Class 54 Rating, Add</i>	1,738.74	
			<i>For Class 55 Rating, Add</i>	2,592.99	
			<i>For Class 56 Rating, Add</i>	3,435.76	
40 05 19 00-0909	EA	20"	Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,060.29	867.19
			<i>For Class 52 Rating, Deduct</i>	-1,292.10	
			<i>For Class 54 Rating, Add</i>	1,777.72	
			<i>For Class 55 Rating, Add</i>	2,650.97	
			<i>For Class 56 Rating, Add</i>	3,512.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0910 EA 20" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,324.41	870.25
For Class 52 Rating, Deduct	-1,320.64	
For Class 54 Rating, Add	1,816.70	
For Class 55 Rating, Add	2,708.95	
For Class 56 Rating, Add	3,589.19	
40 05 19 00-0911 24" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0912 EA 24" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,394.31	894.77
For Class 52 Rating, Deduct	-334.25	
For Class 54 Rating, Add	472.06	
For Class 55 Rating, Add	710.14	
For Class 56 Rating, Add	945.19	
40 05 19 00-0913 EA 24" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,720.49	897.83
For Class 52 Rating, Deduct	-369.61	
For Class 54 Rating, Add	520.34	
For Class 55 Rating, Add	781.96	
For Class 56 Rating, Add	1,040.21	
40 05 19 00-0914 EA 24" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,046.67	900.90
For Class 52 Rating, Deduct	-404.98	
For Class 54 Rating, Add	568.63	
For Class 55 Rating, Add	853.77	
For Class 56 Rating, Add	1,135.23	
40 05 19 00-0915 EA 24" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,372.84	903.96
For Class 52 Rating, Deduct	-440.35	
For Class 54 Rating, Add	616.92	
For Class 55 Rating, Add	925.58	
For Class 56 Rating, Add	1,230.25	
40 05 19 00-0916 EA 24" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,699.03	907.02
For Class 52 Rating, Deduct	-475.72	
For Class 54 Rating, Add	665.20	
For Class 55 Rating, Add	997.40	
For Class 56 Rating, Add	1,325.27	
40 05 19 00-0917 EA 24" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,025.20	910.10
For Class 52 Rating, Deduct	-511.09	
For Class 54 Rating, Add	713.49	
For Class 55 Rating, Add	1,069.21	
For Class 56 Rating, Add	1,420.29	
40 05 19 00-0918 EA 24" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,351.38	913.16
For Class 52 Rating, Deduct	-546.46	
For Class 54 Rating, Add	761.77	
For Class 55 Rating, Add	1,141.03	
For Class 56 Rating, Add	1,515.31	
40 05 19 00-0919 EA 24" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,677.56	916.22
For Class 52 Rating, Deduct	-581.83	
For Class 54 Rating, Add	810.06	
For Class 55 Rating, Add	1,212.84	
For Class 56 Rating, Add	1,610.33	
40 05 19 00-0920 EA 24" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,003.72	919.29
For Class 52 Rating, Deduct	-617.20	
For Class 54 Rating, Add	858.34	
For Class 55 Rating, Add	1,284.65	
For Class 56 Rating, Add	1,705.35	
40 05 19 00-0921 EA 24" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,329.91	922.35
For Class 52 Rating, Deduct	-652.57	
For Class 54 Rating, Add	906.63	
For Class 55 Rating, Add	1,356.47	
For Class 56 Rating, Add	1,800.37	
40 05 19 00-0922 EA 24" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,656.09	925.41
For Class 52 Rating, Deduct	-687.93	
For Class 54 Rating, Add	954.92	
For Class 55 Rating, Add	1,428.28	
For Class 56 Rating, Add	1,895.39	
40 05 19 00-0923 EA 24" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,982.26	928.48
For Class 52 Rating, Deduct	-723.30	
For Class 54 Rating, Add	1,003.20	
For Class 55 Rating, Add	1,500.09	
For Class 56 Rating, Add	1,990.41	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0924	EA		24" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,308.44	931.54
			<i>For Class 52 Rating, Deduct</i>	-758.67	
			<i>For Class 54 Rating, Add</i>	1,051.49	
			<i>For Class 55 Rating, Add</i>	1,571.91	
			<i>For Class 56 Rating, Add</i>	2,085.43	
40 05 19 00-0925	EA		24" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,634.62	934.60
			<i>For Class 52 Rating, Deduct</i>	-794.04	
			<i>For Class 54 Rating, Add</i>	1,099.78	
			<i>For Class 55 Rating, Add</i>	1,643.72	
			<i>For Class 56 Rating, Add</i>	2,180.45	
40 05 19 00-0926	EA		24" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,960.79	937.67
			<i>For Class 52 Rating, Deduct</i>	-829.41	
			<i>For Class 54 Rating, Add</i>	1,148.06	
			<i>For Class 55 Rating, Add</i>	1,715.53	
			<i>For Class 56 Rating, Add</i>	2,275.47	
40 05 19 00-0927	EA		24" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,286.98	940.73
			<i>For Class 52 Rating, Deduct</i>	-864.78	
			<i>For Class 54 Rating, Add</i>	1,196.35	
			<i>For Class 55 Rating, Add</i>	1,787.35	
			<i>For Class 56 Rating, Add</i>	2,370.49	
40 05 19 00-0928	EA		24" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,613.15	943.79
			<i>For Class 52 Rating, Deduct</i>	-900.15	
			<i>For Class 54 Rating, Add</i>	1,244.63	
			<i>For Class 55 Rating, Add</i>	1,859.16	
			<i>For Class 56 Rating, Add</i>	2,465.51	
40 05 19 00-0929	EA		24" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,939.33	946.87
			<i>For Class 52 Rating, Deduct</i>	-935.52	
			<i>For Class 54 Rating, Add</i>	1,292.92	
			<i>For Class 55 Rating, Add</i>	1,930.98	
			<i>For Class 56 Rating, Add</i>	2,560.53	
40 05 19 00-0930	EA		24" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,265.51	949.93
			<i>For Class 52 Rating, Deduct</i>	-970.88	
			<i>For Class 54 Rating, Add</i>	1,341.20	
			<i>For Class 55 Rating, Add</i>	2,002.79	
			<i>For Class 56 Rating, Add</i>	2,655.55	
40 05 19 00-0931	EA		24" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,591.69	953.00
			<i>For Class 52 Rating, Deduct</i>	-1,006.25	
			<i>For Class 54 Rating, Add</i>	1,389.49	
			<i>For Class 55 Rating, Add</i>	2,074.60	
			<i>For Class 56 Rating, Add</i>	2,750.57	
40 05 19 00-0932	EA		24" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,917.86	956.06
			<i>For Class 52 Rating, Deduct</i>	-1,041.62	
			<i>For Class 54 Rating, Add</i>	1,437.78	
			<i>For Class 55 Rating, Add</i>	2,146.42	
			<i>For Class 56 Rating, Add</i>	2,845.59	
40 05 19 00-0933	EA		24" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,244.04	959.12
			<i>For Class 52 Rating, Deduct</i>	-1,076.99	
			<i>For Class 54 Rating, Add</i>	1,486.06	
			<i>For Class 55 Rating, Add</i>	2,218.23	
			<i>For Class 56 Rating, Add</i>	2,940.61	
40 05 19 00-0934	EA		24" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,570.22	962.19
			<i>For Class 52 Rating, Deduct</i>	-1,112.36	
			<i>For Class 54 Rating, Add</i>	1,534.35	
			<i>For Class 55 Rating, Add</i>	2,290.04	
			<i>For Class 56 Rating, Add</i>	3,035.63	
40 05 19 00-0935	EA		24" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,896.40	965.25
			<i>For Class 52 Rating, Deduct</i>	-1,147.73	
			<i>For Class 54 Rating, Add</i>	1,582.64	
			<i>For Class 55 Rating, Add</i>	2,361.86	
			<i>For Class 56 Rating, Add</i>	3,130.65	
40 05 19 00-0936	EA		24" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,222.57	968.31
			<i>For Class 52 Rating, Deduct</i>	-1,183.10	
			<i>For Class 54 Rating, Add</i>	1,630.92	
			<i>For Class 55 Rating, Add</i>	2,433.67	
			<i>For Class 56 Rating, Add</i>	3,225.67	
40 05 19 00-0937	EA		24" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,548.76	971.38
			<i>For Class 52 Rating, Deduct</i>	-1,218.47	
			<i>For Class 54 Rating, Add</i>	1,679.21	
			<i>For Class 55 Rating, Add</i>	2,505.49	
			<i>For Class 56 Rating, Add</i>	3,320.69	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0938 EA 24" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,874.92	974.44
For Class 52 Rating, Deduct	-1,253.84	
For Class 54 Rating, Add	1,727.49	
For Class 55 Rating, Add	2,577.30	
For Class 56 Rating, Add	3,415.71	
40 05 19 00-0939 EA 24" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,201.10	977.50
For Class 52 Rating, Deduct	-1,289.20	
For Class 54 Rating, Add	1,775.78	
For Class 55 Rating, Add	2,649.11	
For Class 56 Rating, Add	3,510.73	
40 05 19 00-0940 EA 24" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,527.29	980.57
For Class 52 Rating, Deduct	-1,324.57	
For Class 54 Rating, Add	1,824.06	
For Class 55 Rating, Add	2,720.93	
For Class 56 Rating, Add	3,605.75	
40 05 19 00-0941 EA 24" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,932.39	1,035.73
For Class 52 Rating, Deduct	-1,359.94	
For Class 54 Rating, Add	1,873.30	
For Class 55 Rating, Add	2,794.63	
For Class 56 Rating, Add	3,703.61	
40 05 19 00-0942 EA 24" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,258.56	1,038.79
For Class 52 Rating, Deduct	-1,395.31	
For Class 54 Rating, Add	1,921.58	
For Class 55 Rating, Add	2,866.45	
For Class 56 Rating, Add	3,798.63	
40 05 19 00-0943 EA 24" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,584.74	1,041.86
For Class 52 Rating, Deduct	-1,430.68	
For Class 54 Rating, Add	1,969.87	
For Class 55 Rating, Add	2,938.26	
For Class 56 Rating, Add	3,893.65	
40 05 19 00-0944 EA 24" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,910.93	1,044.92
For Class 52 Rating, Deduct	-1,466.05	
For Class 54 Rating, Add	2,018.16	
For Class 55 Rating, Add	3,010.08	
For Class 56 Rating, Add	3,988.67	
40 05 19 00-0945 EA 24" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,237.09	1,047.98
For Class 52 Rating, Deduct	-1,501.42	
For Class 54 Rating, Add	2,066.44	
For Class 55 Rating, Add	3,081.89	
For Class 56 Rating, Add	4,083.69	
40 05 19 00-0946 EA 24" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,563.28	1,051.05
For Class 52 Rating, Deduct	-1,536.79	
For Class 54 Rating, Add	2,114.73	
For Class 55 Rating, Add	3,153.70	
For Class 56 Rating, Add	4,178.71	
40 05 19 00-0947 EA 24" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,889.45	1,054.11
For Class 52 Rating, Deduct	-1,572.15	
For Class 54 Rating, Add	2,163.01	
For Class 55 Rating, Add	3,225.52	
For Class 56 Rating, Add	4,273.73	
40 05 19 00-0948 EA 24" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,215.63	1,057.18
For Class 52 Rating, Deduct	-1,607.52	
For Class 54 Rating, Add	2,211.30	
For Class 55 Rating, Add	3,297.33	
For Class 56 Rating, Add	4,368.75	
40 05 19 00-0949 EA 24" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,541.81	1,060.25
For Class 52 Rating, Deduct	-1,642.89	
For Class 54 Rating, Add	2,259.58	
For Class 55 Rating, Add	3,369.14	
For Class 56 Rating, Add	4,463.77	
40 05 19 00-0950 30" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0951 EA 30" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,764.08	1,262.48
For Class 52 Rating, Deduct	-533.64	
For Class 54 Rating, Add	750.64	
For Class 55 Rating, Add	1,127.73	
For Class 56 Rating, Add	1,499.98	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0952	EA		30" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,233.16	1,265.55
			<i>For Class 52 Rating, Deduct</i>	-584.72	
			<i>For Class 54 Rating, Add</i>	820.36	
			<i>For Class 55 Rating, Add</i>	1,231.41	
			<i>For Class 56 Rating, Add</i>	1,637.15	
40 05 19 00-0953	EA		30" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,702.24	1,268.61
			<i>For Class 52 Rating, Deduct</i>	-635.81	
			<i>For Class 54 Rating, Add</i>	890.08	
			<i>For Class 55 Rating, Add</i>	1,335.09	
			<i>For Class 56 Rating, Add</i>	1,774.33	
40 05 19 00-0954	EA		30" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,171.32	1,271.67
			<i>For Class 52 Rating, Deduct</i>	-686.90	
			<i>For Class 54 Rating, Add</i>	959.80	
			<i>For Class 55 Rating, Add</i>	1,438.78	
			<i>For Class 56 Rating, Add</i>	1,911.50	
40 05 19 00-0955	EA		30" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,640.41	1,274.74
			<i>For Class 52 Rating, Deduct</i>	-737.99	
			<i>For Class 54 Rating, Add</i>	1,029.52	
			<i>For Class 55 Rating, Add</i>	1,542.46	
			<i>For Class 56 Rating, Add</i>	2,048.68	
40 05 19 00-0956	EA		30" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,109.49	1,277.80
			<i>For Class 52 Rating, Deduct</i>	-789.08	
			<i>For Class 54 Rating, Add</i>	1,099.25	
			<i>For Class 55 Rating, Add</i>	1,646.14	
			<i>For Class 56 Rating, Add</i>	2,185.86	
40 05 19 00-0957	EA		30" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,578.57	1,280.87
			<i>For Class 52 Rating, Deduct</i>	-840.16	
			<i>For Class 54 Rating, Add</i>	1,168.97	
			<i>For Class 55 Rating, Add</i>	1,749.82	
			<i>For Class 56 Rating, Add</i>	2,323.03	
40 05 19 00-0958	EA		30" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,047.66	1,283.94
			<i>For Class 52 Rating, Deduct</i>	-891.25	
			<i>For Class 54 Rating, Add</i>	1,238.69	
			<i>For Class 55 Rating, Add</i>	1,853.50	
			<i>For Class 56 Rating, Add</i>	2,460.21	
40 05 19 00-0959	EA		30" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,516.74	1,287.00
			<i>For Class 52 Rating, Deduct</i>	-942.34	
			<i>For Class 54 Rating, Add</i>	1,308.41	
			<i>For Class 55 Rating, Add</i>	1,957.18	
			<i>For Class 56 Rating, Add</i>	2,597.39	
40 05 19 00-0960	EA		30" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,985.82	1,290.07
			<i>For Class 52 Rating, Deduct</i>	-993.43	
			<i>For Class 54 Rating, Add</i>	1,378.13	
			<i>For Class 55 Rating, Add</i>	2,060.86	
			<i>For Class 56 Rating, Add</i>	2,734.57	
40 05 19 00-0961	EA		30" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,454.90	1,293.13
			<i>For Class 52 Rating, Deduct</i>	-1,044.52	
			<i>For Class 54 Rating, Add</i>	1,447.85	
			<i>For Class 55 Rating, Add</i>	2,164.55	
			<i>For Class 56 Rating, Add</i>	2,871.74	
40 05 19 00-0962	EA		30" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,923.99	1,296.19
			<i>For Class 52 Rating, Deduct</i>	-1,095.61	
			<i>For Class 54 Rating, Add</i>	1,517.58	
			<i>For Class 55 Rating, Add</i>	2,268.23	
			<i>For Class 56 Rating, Add</i>	3,008.92	
40 05 19 00-0963	EA		30" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,393.06	1,299.26
			<i>For Class 52 Rating, Deduct</i>	-1,146.69	
			<i>For Class 54 Rating, Add</i>	1,587.30	
			<i>For Class 55 Rating, Add</i>	2,371.91	
			<i>For Class 56 Rating, Add</i>	3,146.09	
40 05 19 00-0964	EA		30" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,862.14	1,302.32
			<i>For Class 52 Rating, Deduct</i>	-1,197.78	
			<i>For Class 54 Rating, Add</i>	1,657.02	
			<i>For Class 55 Rating, Add</i>	2,475.59	
			<i>For Class 56 Rating, Add</i>	3,283.27	
40 05 19 00-0965	EA		30" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,331.23	1,305.38
			<i>For Class 52 Rating, Deduct</i>	-1,248.87	
			<i>For Class 54 Rating, Add</i>	1,726.74	
			<i>For Class 55 Rating, Add</i>	2,579.27	
			<i>For Class 56 Rating, Add</i>	3,420.45	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0966 EA 30" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,800.30	1,308.45
For Class 52 Rating, Deduct	-1,299.96	
For Class 54 Rating, Add	1,796.46	
For Class 55 Rating, Add	2,682.95	
For Class 56 Rating, Add	3,557.62	
40 05 19 00-0967 EA 30" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,269.39	1,311.51
For Class 52 Rating, Deduct	-1,351.05	
For Class 54 Rating, Add	1,866.18	
For Class 55 Rating, Add	2,786.63	
For Class 56 Rating, Add	3,694.80	
40 05 19 00-0968 EA 30" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,738.48	1,314.57
For Class 52 Rating, Deduct	-1,402.14	
For Class 54 Rating, Add	1,935.90	
For Class 55 Rating, Add	2,890.31	
For Class 56 Rating, Add	3,831.98	
40 05 19 00-0969 EA 30" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,207.55	1,317.65
For Class 52 Rating, Deduct	-1,453.22	
For Class 54 Rating, Add	2,005.63	
For Class 55 Rating, Add	2,994.00	
For Class 56 Rating, Add	3,969.15	
40 05 19 00-0970 EA 30" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,676.64	1,320.71
For Class 52 Rating, Deduct	-1,504.31	
For Class 54 Rating, Add	2,075.35	
For Class 55 Rating, Add	3,097.68	
For Class 56 Rating, Add	4,106.33	
40 05 19 00-0971 EA 30" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,145.73	1,323.77
For Class 52 Rating, Deduct	-1,555.40	
For Class 54 Rating, Add	2,145.07	
For Class 55 Rating, Add	3,201.36	
For Class 56 Rating, Add	4,243.51	
40 05 19 00-0972 EA 30" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,614.80	1,326.84
For Class 52 Rating, Deduct	-1,606.49	
For Class 54 Rating, Add	2,214.79	
For Class 55 Rating, Add	3,305.04	
For Class 56 Rating, Add	4,380.69	
40 05 19 00-0973 EA 30" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,083.88	1,329.90
For Class 52 Rating, Deduct	-1,657.58	
For Class 54 Rating, Add	2,284.51	
For Class 55 Rating, Add	3,408.72	
For Class 56 Rating, Add	4,517.86	
40 05 19 00-0974 EA 30" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,552.96	1,332.96
For Class 52 Rating, Deduct	-1,708.67	
For Class 54 Rating, Add	2,354.23	
For Class 55 Rating, Add	3,512.40	
For Class 56 Rating, Add	4,655.04	
40 05 19 00-0975 EA 30" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,022.04	1,336.03
For Class 52 Rating, Deduct	-1,759.75	
For Class 54 Rating, Add	2,423.96	
For Class 55 Rating, Add	3,616.08	
For Class 56 Rating, Add	4,792.21	
40 05 19 00-0976 EA 30" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,491.13	1,339.09
For Class 52 Rating, Deduct	-1,810.84	
For Class 54 Rating, Add	2,493.68	
For Class 55 Rating, Add	3,719.76	
For Class 56 Rating, Add	4,929.39	
40 05 19 00-0977 EA 30" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,960.21	1,342.15
For Class 52 Rating, Deduct	-1,861.93	
For Class 54 Rating, Add	2,563.40	
For Class 55 Rating, Add	3,823.45	
For Class 56 Rating, Add	5,066.57	
40 05 19 00-0978 EA 30" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,429.29	1,345.22
For Class 52 Rating, Deduct	-1,913.02	
For Class 54 Rating, Add	2,633.12	
For Class 55 Rating, Add	3,927.13	
For Class 56 Rating, Add	5,203.74	
40 05 19 00-0979 EA 30" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,898.37	1,348.28
For Class 52 Rating, Deduct	-1,964.11	
For Class 54 Rating, Add	2,702.84	
For Class 55 Rating, Add	4,030.81	
For Class 56 Rating, Add	5,340.92	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0980	EA		30" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,367.46	1,351.34
			<i>For Class 52 Rating, Deduct</i>	-2,015.20	
			<i>For Class 54 Rating, Add</i>	2,772.56	
			<i>For Class 55 Rating, Add</i>	4,134.49	
			<i>For Class 56 Rating, Add</i>	5,478.10	
40 05 19 00-0981	EA		30" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,836.54	1,354.42
			<i>For Class 52 Rating, Deduct</i>	-2,066.28	
			<i>For Class 54 Rating, Add</i>	2,842.29	
			<i>For Class 55 Rating, Add</i>	4,238.17	
			<i>For Class 56 Rating, Add</i>	5,615.28	
40 05 19 00-0982	EA		30" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,305.62	1,357.48
			<i>For Class 52 Rating, Deduct</i>	-2,117.37	
			<i>For Class 54 Rating, Add</i>	2,912.01	
			<i>For Class 55 Rating, Add</i>	4,341.85	
			<i>For Class 56 Rating, Add</i>	5,752.45	
40 05 19 00-0983	EA		30" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,774.70	1,360.54
			<i>For Class 52 Rating, Deduct</i>	-2,168.46	
			<i>For Class 54 Rating, Add</i>	2,981.73	
			<i>For Class 55 Rating, Add</i>	4,445.53	
			<i>For Class 56 Rating, Add</i>	5,889.63	
40 05 19 00-0984	EA		30" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,243.78	1,363.61
			<i>For Class 52 Rating, Deduct</i>	-2,219.55	
			<i>For Class 54 Rating, Add</i>	3,051.45	
			<i>For Class 55 Rating, Add</i>	4,549.22	
			<i>For Class 56 Rating, Add</i>	6,026.80	
40 05 19 00-0985	EA		30" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,712.86	1,366.67
			<i>For Class 52 Rating, Deduct</i>	-2,270.64	
			<i>For Class 54 Rating, Add</i>	3,121.17	
			<i>For Class 55 Rating, Add</i>	4,652.90	
			<i>For Class 56 Rating, Add</i>	6,163.98	
40 05 19 00-0986	EA		30" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,181.95	1,369.74
			<i>For Class 52 Rating, Deduct</i>	-2,321.72	
			<i>For Class 54 Rating, Add</i>	3,190.89	
			<i>For Class 55 Rating, Add</i>	4,756.58	
			<i>For Class 56 Rating, Add</i>	6,301.16	
40 05 19 00-0987	EA		30" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,651.02	1,372.80
			<i>For Class 52 Rating, Deduct</i>	-2,372.81	
			<i>For Class 54 Rating, Add</i>	3,260.61	
			<i>For Class 55 Rating, Add</i>	4,860.26	
			<i>For Class 56 Rating, Add</i>	6,438.33	
40 05 19 00-0988	EA		30" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,120.11	1,375.86
			<i>For Class 52 Rating, Deduct</i>	-2,423.90	
			<i>For Class 54 Rating, Add</i>	3,330.34	
			<i>For Class 55 Rating, Add</i>	4,963.94	
			<i>For Class 56 Rating, Add</i>	6,575.51	
40 05 19 00-0989			36" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0990	EA		36" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,262.29	1,599.55
			<i>For Class 52 Rating, Deduct</i>	-752.26	
			<i>For Class 54 Rating, Add</i>	1,054.89	
			<i>For Class 55 Rating, Add</i>	1,583.20	
			<i>For Class 56 Rating, Add</i>	2,104.67	
40 05 19 00-0991	EA		36" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,898.72	1,602.62
			<i>For Class 52 Rating, Deduct</i>	-821.76	
			<i>For Class 54 Rating, Add</i>	1,149.72	
			<i>For Class 55 Rating, Add</i>	1,724.20	
			<i>For Class 56 Rating, Add</i>	2,291.22	
40 05 19 00-0992	EA		36" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,535.15	1,605.68
			<i>For Class 52 Rating, Deduct</i>	-891.25	
			<i>For Class 54 Rating, Add</i>	1,244.54	
			<i>For Class 55 Rating, Add</i>	1,865.20	
			<i>For Class 56 Rating, Add</i>	2,477.76	
40 05 19 00-0993	EA		36" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,171.59	1,608.74
			<i>For Class 52 Rating, Deduct</i>	-960.75	
			<i>For Class 54 Rating, Add</i>	1,339.36	
			<i>For Class 55 Rating, Add</i>	2,006.20	
			<i>For Class 56 Rating, Add</i>	2,664.31	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0994 EA 36" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,808.01	1,611.81
<i>For Class 52 Rating, Deduct</i>	-1,030.25	
<i>For Class 54 Rating, Add</i>	1,434.19	
<i>For Class 55 Rating, Add</i>	2,147.20	
<i>For Class 56 Rating, Add</i>	2,850.85	
40 05 19 00-0995 EA 36" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,444.44	1,614.88
<i>For Class 52 Rating, Deduct</i>	-1,099.74	
<i>For Class 54 Rating, Add</i>	1,529.01	
<i>For Class 55 Rating, Add</i>	2,288.20	
<i>For Class 56 Rating, Add</i>	3,037.39	
40 05 19 00-0996 EA 36" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,080.88	1,617.95
<i>For Class 52 Rating, Deduct</i>	-1,169.24	
<i>For Class 54 Rating, Add</i>	1,623.83	
<i>For Class 55 Rating, Add</i>	2,429.20	
<i>For Class 56 Rating, Add</i>	3,223.94	
40 05 19 00-0997 EA 36" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,717.31	1,621.01
<i>For Class 52 Rating, Deduct</i>	-1,238.74	
<i>For Class 54 Rating, Add</i>	1,718.66	
<i>For Class 55 Rating, Add</i>	2,570.20	
<i>For Class 56 Rating, Add</i>	3,410.48	
40 05 19 00-0998 EA 36" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,353.73	1,624.07
<i>For Class 52 Rating, Deduct</i>	-1,308.23	
<i>For Class 54 Rating, Add</i>	1,813.48	
<i>For Class 55 Rating, Add</i>	2,711.20	
<i>For Class 56 Rating, Add</i>	3,597.03	
40 05 19 00-0999 EA 36" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,990.16	1,627.14
<i>For Class 52 Rating, Deduct</i>	-1,377.73	
<i>For Class 54 Rating, Add</i>	1,908.31	
<i>For Class 55 Rating, Add</i>	2,852.20	
<i>For Class 56 Rating, Add</i>	3,783.57	
40 05 19 00-1000 EA 36" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,626.60	1,630.20
<i>For Class 52 Rating, Deduct</i>	-1,447.23	
<i>For Class 54 Rating, Add</i>	2,003.13	
<i>For Class 55 Rating, Add</i>	2,993.20	
<i>For Class 56 Rating, Add</i>	3,970.12	
40 05 19 00-1001 EA 36" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,263.03	1,633.26
<i>For Class 52 Rating, Deduct</i>	-1,516.72	
<i>For Class 54 Rating, Add</i>	2,097.95	
<i>For Class 55 Rating, Add</i>	3,134.20	
<i>For Class 56 Rating, Add</i>	4,156.66	
40 05 19 00-1002 EA 36" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,899.45	1,636.33
<i>For Class 52 Rating, Deduct</i>	-1,586.22	
<i>For Class 54 Rating, Add</i>	2,192.78	
<i>For Class 55 Rating, Add</i>	3,275.20	
<i>For Class 56 Rating, Add</i>	4,343.20	
40 05 19 00-1003 EA 36" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,535.89	1,639.39
<i>For Class 52 Rating, Deduct</i>	-1,655.72	
<i>For Class 54 Rating, Add</i>	2,287.60	
<i>For Class 55 Rating, Add</i>	3,416.20	
<i>For Class 56 Rating, Add</i>	4,529.75	
40 05 19 00-1004 EA 36" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,172.31	1,642.45
<i>For Class 52 Rating, Deduct</i>	-1,725.21	
<i>For Class 54 Rating, Add</i>	2,382.43	
<i>For Class 55 Rating, Add</i>	3,557.20	
<i>For Class 56 Rating, Add</i>	4,716.29	
40 05 19 00-1005 EA 36" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,808.75	1,645.52
<i>For Class 52 Rating, Deduct</i>	-1,794.71	
<i>For Class 54 Rating, Add</i>	2,477.25	
<i>For Class 55 Rating, Add</i>	3,698.20	
<i>For Class 56 Rating, Add</i>	4,902.84	
40 05 19 00-1006 EA 36" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,445.18	1,648.58
<i>For Class 52 Rating, Deduct</i>	-1,864.21	
<i>For Class 54 Rating, Add</i>	2,572.07	
<i>For Class 55 Rating, Add</i>	3,839.20	
<i>For Class 56 Rating, Add</i>	5,089.38	
40 05 19 00-1007 EA 36" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,081.61	1,651.65
<i>For Class 52 Rating, Deduct</i>	-1,933.70	
<i>For Class 54 Rating, Add</i>	2,666.90	
<i>For Class 55 Rating, Add</i>	3,980.20	
<i>For Class 56 Rating, Add</i>	5,275.93	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1008	EA		36" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,718.04	1,654.72
			<i>For Class 52 Rating, Deduct</i>	-2,003.20	
			<i>For Class 54 Rating, Add</i>	2,761.72	
			<i>For Class 55 Rating, Add</i>	4,121.20	
			<i>For Class 56 Rating, Add</i>	5,462.47	
40 05 19 00-1009	EA		36" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,354.48	1,657.78
			<i>For Class 52 Rating, Deduct</i>	-2,072.70	
			<i>For Class 54 Rating, Add</i>	2,856.54	
			<i>For Class 55 Rating, Add</i>	4,262.20	
			<i>For Class 56 Rating, Add</i>	5,649.02	
40 05 19 00-1010	EA		36" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,990.90	1,660.84
			<i>For Class 52 Rating, Deduct</i>	-2,142.19	
			<i>For Class 54 Rating, Add</i>	2,951.37	
			<i>For Class 55 Rating, Add</i>	4,403.20	
			<i>For Class 56 Rating, Add</i>	5,835.56	
40 05 19 00-1011	EA		36" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,627.33	1,663.91
			<i>For Class 52 Rating, Deduct</i>	-2,211.69	
			<i>For Class 54 Rating, Add</i>	3,046.19	
			<i>For Class 55 Rating, Add</i>	4,544.20	
			<i>For Class 56 Rating, Add</i>	6,022.11	
40 05 19 00-1012	EA		36" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,263.76	1,666.97
			<i>For Class 52 Rating, Deduct</i>	-2,281.19	
			<i>For Class 54 Rating, Add</i>	3,141.02	
			<i>For Class 55 Rating, Add</i>	4,685.20	
			<i>For Class 56 Rating, Add</i>	6,208.65	
40 05 19 00-1013	EA		36" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,900.20	1,670.03
			<i>For Class 52 Rating, Deduct</i>	-2,350.68	
			<i>For Class 54 Rating, Add</i>	3,235.84	
			<i>For Class 55 Rating, Add</i>	4,826.20	
			<i>For Class 56 Rating, Add</i>	6,395.20	
40 05 19 00-1014	EA		36" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,536.62	1,673.10
			<i>For Class 52 Rating, Deduct</i>	-2,420.18	
			<i>For Class 54 Rating, Add</i>	3,330.66	
			<i>For Class 55 Rating, Add</i>	4,967.20	
			<i>For Class 56 Rating, Add</i>	6,581.74	
40 05 19 00-1015	EA		36" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,173.05	1,676.16
			<i>For Class 52 Rating, Deduct</i>	-2,489.68	
			<i>For Class 54 Rating, Add</i>	3,425.49	
			<i>For Class 55 Rating, Add</i>	5,108.20	
			<i>For Class 56 Rating, Add</i>	6,768.28	
40 05 19 00-1016	EA		36" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,809.49	1,679.22
			<i>For Class 52 Rating, Deduct</i>	-2,559.17	
			<i>For Class 54 Rating, Add</i>	3,520.31	
			<i>For Class 55 Rating, Add</i>	5,249.20	
			<i>For Class 56 Rating, Add</i>	6,954.83	
40 05 19 00-1017	EA		36" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,445.91	1,682.29
			<i>For Class 52 Rating, Deduct</i>	-2,628.67	
			<i>For Class 54 Rating, Add</i>	3,615.14	
			<i>For Class 55 Rating, Add</i>	5,390.20	
			<i>For Class 56 Rating, Add</i>	7,141.37	
40 05 19 00-1018	EA		36" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,082.34	1,685.35
			<i>For Class 52 Rating, Deduct</i>	-2,698.16	
			<i>For Class 54 Rating, Add</i>	3,709.96	
			<i>For Class 55 Rating, Add</i>	5,531.20	
			<i>For Class 56 Rating, Add</i>	7,327.92	
40 05 19 00-1019	EA		36" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,718.78	1,688.42
			<i>For Class 52 Rating, Deduct</i>	-2,767.66	
			<i>For Class 54 Rating, Add</i>	3,804.78	
			<i>For Class 55 Rating, Add</i>	5,672.20	
			<i>For Class 56 Rating, Add</i>	7,514.46	
40 05 19 00-1020	EA		36" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,355.20	1,691.49
			<i>For Class 52 Rating, Deduct</i>	-2,837.16	
			<i>For Class 54 Rating, Add</i>	3,899.61	
			<i>For Class 55 Rating, Add</i>	5,813.20	
			<i>For Class 56 Rating, Add</i>	7,701.01	
40 05 19 00-1021	EA		36" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,991.64	1,694.55
			<i>For Class 52 Rating, Deduct</i>	-2,906.66	
			<i>For Class 54 Rating, Add</i>	3,994.43	
			<i>For Class 55 Rating, Add</i>	5,954.20	
			<i>For Class 56 Rating, Add</i>	7,887.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1022 EA 36" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,628.07	1,697.62
For Class 52 Rating, Deduct	-2,976.15	
For Class 54 Rating, Add	4,089.25	
For Class 55 Rating, Add	6,095.20	
For Class 56 Rating, Add	8,074.09	
40 05 19 00-1023 EA 36" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,264.49	1,700.68
For Class 52 Rating, Deduct	-3,045.65	
For Class 54 Rating, Add	4,184.08	
For Class 55 Rating, Add	6,236.20	
For Class 56 Rating, Add	8,260.64	
40 05 19 00-1024 EA 36" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,900.93	1,703.74
For Class 52 Rating, Deduct	-3,115.15	
For Class 54 Rating, Add	4,278.90	
For Class 55 Rating, Add	6,377.20	
For Class 56 Rating, Add	8,447.18	
40 05 19 00-1025 EA 36" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,537.36	1,706.81
For Class 52 Rating, Deduct	-3,184.64	
For Class 54 Rating, Add	4,373.73	
For Class 55 Rating, Add	6,518.20	
For Class 56 Rating, Add	8,633.73	
40 05 19 00-1026 EA 36" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,173.78	1,709.87
For Class 52 Rating, Deduct	-3,254.14	
For Class 54 Rating, Add	4,468.55	
For Class 55 Rating, Add	6,659.20	
For Class 56 Rating, Add	8,820.27	
40 05 19 00-1027 EA 36" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,810.22	1,712.93
For Class 52 Rating, Deduct	-3,323.63	
For Class 54 Rating, Add	4,563.37	
For Class 55 Rating, Add	6,800.20	
For Class 56 Rating, Add	9,006.82	
40 05 19 00-1028 Flanged End x Plain End (FxPE), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0001)</small>		
40 05 19 00-1029 4" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1030 EA 4" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	499.71	149.86
For Class 52 Rating, Deduct	-29.99	
For Class 54 Rating, Add	43.62	
For Class 55 Rating, Add	66.25	
For Class 56 Rating, Add	88.61	
40 05 19 00-1031 EA 4" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	552.55	152.49
For Class 52 Rating, Deduct	-35.37	
For Class 54 Rating, Add	51.00	
For Class 55 Rating, Add	77.25	
For Class 56 Rating, Add	103.17	
40 05 19 00-1032 EA 4" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	605.42	155.10
For Class 52 Rating, Deduct	-40.75	
For Class 54 Rating, Add	58.38	
For Class 55 Rating, Add	88.24	
For Class 56 Rating, Add	117.73	
40 05 19 00-1033 EA 4" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	658.28	157.72
For Class 52 Rating, Deduct	-46.12	
For Class 54 Rating, Add	65.76	
For Class 55 Rating, Add	99.24	
For Class 56 Rating, Add	132.30	
40 05 19 00-1034 EA 4" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	711.14	160.34
For Class 52 Rating, Deduct	-51.50	
For Class 54 Rating, Add	73.15	
For Class 55 Rating, Add	110.24	
For Class 56 Rating, Add	146.86	
40 05 19 00-1035 EA 4" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	763.99	162.96
For Class 52 Rating, Deduct	-56.88	
For Class 54 Rating, Add	80.53	
For Class 55 Rating, Add	121.24	
For Class 56 Rating, Add	161.43	
40 05 19 00-1036 EA 4" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	816.86	165.59
For Class 52 Rating, Deduct	-62.26	
For Class 54 Rating, Add	87.91	
For Class 55 Rating, Add	132.23	
For Class 56 Rating, Add	176.00	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1037	EA		4" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	869.71	168.20
			<i>For Class 52 Rating, Deduct</i>	-67.63	
			<i>For Class 54 Rating, Add</i>	95.29	
			<i>For Class 55 Rating, Add</i>	143.23	
			<i>For Class 56 Rating, Add</i>	190.56	
40 05 19 00-1038	EA		4" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	922.57	170.82
			<i>For Class 52 Rating, Deduct</i>	-73.01	
			<i>For Class 54 Rating, Add</i>	102.67	
			<i>For Class 55 Rating, Add</i>	154.23	
			<i>For Class 56 Rating, Add</i>	205.12	
40 05 19 00-1039	EA		4" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	975.42	173.44
			<i>For Class 52 Rating, Deduct</i>	-78.39	
			<i>For Class 54 Rating, Add</i>	110.05	
			<i>For Class 55 Rating, Add</i>	165.23	
			<i>For Class 56 Rating, Add</i>	219.69	
40 05 19 00-1040	EA		4" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,028.28	176.06
			<i>For Class 52 Rating, Deduct</i>	-83.77	
			<i>For Class 54 Rating, Add</i>	117.43	
			<i>For Class 55 Rating, Add</i>	176.22	
			<i>For Class 56 Rating, Add</i>	234.25	
40 05 19 00-1041	EA		4" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,081.15	178.68
			<i>For Class 52 Rating, Deduct</i>	-89.15	
			<i>For Class 54 Rating, Add</i>	124.81	
			<i>For Class 55 Rating, Add</i>	187.22	
			<i>For Class 56 Rating, Add</i>	248.82	
40 05 19 00-1042	EA		4" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,134.01	181.30
			<i>For Class 52 Rating, Deduct</i>	-94.52	
			<i>For Class 54 Rating, Add</i>	132.19	
			<i>For Class 55 Rating, Add</i>	198.22	
			<i>For Class 56 Rating, Add</i>	263.39	
40 05 19 00-1043	EA		4" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,186.85	183.93
			<i>For Class 52 Rating, Deduct</i>	-99.90	
			<i>For Class 54 Rating, Add</i>	139.57	
			<i>For Class 55 Rating, Add</i>	209.21	
			<i>For Class 56 Rating, Add</i>	277.95	
40 05 19 00-1044	EA		4" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,239.71	186.54
			<i>For Class 52 Rating, Deduct</i>	-105.28	
			<i>For Class 54 Rating, Add</i>	146.95	
			<i>For Class 55 Rating, Add</i>	220.21	
			<i>For Class 56 Rating, Add</i>	292.51	
40 05 19 00-1045	EA		4" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,292.58	189.16
			<i>For Class 52 Rating, Deduct</i>	-110.66	
			<i>For Class 54 Rating, Add</i>	154.33	
			<i>For Class 55 Rating, Add</i>	231.21	
			<i>For Class 56 Rating, Add</i>	307.08	
40 05 19 00-1046	EA		4" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,345.44	191.78
			<i>For Class 52 Rating, Deduct</i>	-116.03	
			<i>For Class 54 Rating, Add</i>	161.72	
			<i>For Class 55 Rating, Add</i>	242.21	
			<i>For Class 56 Rating, Add</i>	321.64	
40 05 19 00-1047	EA		4" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,398.29	194.40
			<i>For Class 52 Rating, Deduct</i>	-121.41	
			<i>For Class 54 Rating, Add</i>	169.10	
			<i>For Class 55 Rating, Add</i>	253.21	
			<i>For Class 56 Rating, Add</i>	336.21	
40 05 19 00-1048	EA		4" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,451.15	197.02
			<i>For Class 52 Rating, Deduct</i>	-126.79	
			<i>For Class 54 Rating, Add</i>	176.48	
			<i>For Class 55 Rating, Add</i>	264.20	
			<i>For Class 56 Rating, Add</i>	350.78	
40 05 19 00-1049	EA		4" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,504.00	199.64
			<i>For Class 52 Rating, Deduct</i>	-132.17	
			<i>For Class 54 Rating, Add</i>	183.86	
			<i>For Class 55 Rating, Add</i>	275.20	
			<i>For Class 56 Rating, Add</i>	365.34	
40 05 19 00-1050	EA		4" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,556.87	202.27
			<i>For Class 52 Rating, Deduct</i>	-137.55	
			<i>For Class 54 Rating, Add</i>	191.24	
			<i>For Class 55 Rating, Add</i>	286.20	
			<i>For Class 56 Rating, Add</i>	379.90	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1051 EA 4" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,609.72	204.87
<i>For Class 52 Rating, Deduct</i>	-142.92	
<i>For Class 54 Rating, Add</i>	198.62	
<i>For Class 55 Rating, Add</i>	297.19	
<i>For Class 56 Rating, Add</i>	394.47	
40 05 19 00-1052 EA 4" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,662.58	207.50
<i>For Class 52 Rating, Deduct</i>	-148.30	
<i>For Class 54 Rating, Add</i>	206.00	
<i>For Class 55 Rating, Add</i>	308.19	
<i>For Class 56 Rating, Add</i>	409.03	
40 05 19 00-1053 EA 4" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,715.44	210.12
<i>For Class 52 Rating, Deduct</i>	-153.68	
<i>For Class 54 Rating, Add</i>	213.38	
<i>For Class 55 Rating, Add</i>	319.19	
<i>For Class 56 Rating, Add</i>	423.60	
40 05 19 00-1054 EA 4" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,768.31	212.74
<i>For Class 52 Rating, Deduct</i>	-159.06	
<i>For Class 54 Rating, Add</i>	220.76	
<i>For Class 55 Rating, Add</i>	330.19	
<i>For Class 56 Rating, Add</i>	438.17	
40 05 19 00-1055 EA 4" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,821.15	215.36
<i>For Class 52 Rating, Deduct</i>	-164.43	
<i>For Class 54 Rating, Add</i>	228.14	
<i>For Class 55 Rating, Add</i>	341.18	
<i>For Class 56 Rating, Add</i>	452.73	
40 05 19 00-1056 EA 4" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,874.01	217.98
<i>For Class 52 Rating, Deduct</i>	-169.81	
<i>For Class 54 Rating, Add</i>	235.52	
<i>For Class 55 Rating, Add</i>	352.18	
<i>For Class 56 Rating, Add</i>	467.29	
40 05 19 00-1057 EA 4" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,926.87	220.61
<i>For Class 52 Rating, Deduct</i>	-175.19	
<i>For Class 54 Rating, Add</i>	242.91	
<i>For Class 55 Rating, Add</i>	363.18	
<i>For Class 56 Rating, Add</i>	481.86	
40 05 19 00-1058 EA 4" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,979.72	223.21
<i>For Class 52 Rating, Deduct</i>	-180.57	
<i>For Class 54 Rating, Add</i>	250.29	
<i>For Class 55 Rating, Add</i>	374.18	
<i>For Class 56 Rating, Add</i>	496.42	
40 05 19 00-1059 EA 4" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,032.59	225.84
<i>For Class 52 Rating, Deduct</i>	-185.95	
<i>For Class 54 Rating, Add</i>	257.67	
<i>For Class 55 Rating, Add</i>	385.17	
<i>For Class 56 Rating, Add</i>	510.99	
40 05 19 00-1060 EA 4" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,085.45	228.46
<i>For Class 52 Rating, Deduct</i>	-191.32	
<i>For Class 54 Rating, Add</i>	265.05	
<i>For Class 55 Rating, Add</i>	396.17	
<i>For Class 56 Rating, Add</i>	525.55	
40 05 19 00-1061 EA 4" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,138.30	231.09
<i>For Class 52 Rating, Deduct</i>	-196.70	
<i>For Class 54 Rating, Add</i>	272.43	
<i>For Class 55 Rating, Add</i>	407.17	
<i>For Class 56 Rating, Add</i>	540.12	
40 05 19 00-1062 EA 4" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,191.15	233.70
<i>For Class 52 Rating, Deduct</i>	-202.08	
<i>For Class 54 Rating, Add</i>	279.81	
<i>For Class 55 Rating, Add</i>	418.16	
<i>For Class 56 Rating, Add</i>	554.68	
40 05 19 00-1063 EA 4" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,244.01	236.32
<i>For Class 52 Rating, Deduct</i>	-207.46	
<i>For Class 54 Rating, Add</i>	287.19	
<i>For Class 55 Rating, Add</i>	429.16	
<i>For Class 56 Rating, Add</i>	569.25	
40 05 19 00-1064 EA 4" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,296.88	238.95
<i>For Class 52 Rating, Deduct</i>	-212.83	
<i>For Class 54 Rating, Add</i>	294.57	
<i>For Class 55 Rating, Add</i>	440.16	
<i>For Class 56 Rating, Add</i>	583.81	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1065	EA		4" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,349.74	241.55
			<i>For Class 52 Rating, Deduct</i>	-218.21	
			<i>For Class 54 Rating, Add</i>	301.95	
			<i>For Class 55 Rating, Add</i>	451.16	
			<i>For Class 56 Rating, Add</i>	598.38	
40 05 19 00-1066	EA		4" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,402.59	244.18
			<i>For Class 52 Rating, Deduct</i>	-223.59	
			<i>For Class 54 Rating, Add</i>	309.33	
			<i>For Class 55 Rating, Add</i>	462.16	
			<i>For Class 56 Rating, Add</i>	612.94	
40 05 19 00-1067	EA		4" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,455.44	246.80
			<i>For Class 52 Rating, Deduct</i>	-228.97	
			<i>For Class 54 Rating, Add</i>	316.71	
			<i>For Class 55 Rating, Add</i>	473.15	
			<i>For Class 56 Rating, Add</i>	627.51	
40 05 19 00-1068	EA		4" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,508.31	249.43
			<i>For Class 52 Rating, Deduct</i>	-234.34	
			<i>For Class 54 Rating, Add</i>	324.09	
			<i>For Class 55 Rating, Add</i>	484.15	
			<i>For Class 56 Rating, Add</i>	642.07	
40 05 19 00-1069			6" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1070	EA		6" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	626.16	188.64
			<i>For Class 52 Rating, Deduct</i>	-37.44	
			<i>For Class 54 Rating, Add</i>	54.48	
			<i>For Class 55 Rating, Add</i>	82.76	
			<i>For Class 56 Rating, Add</i>	110.69	
40 05 19 00-1071	EA		6" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	690.29	191.26
			<i>For Class 52 Rating, Deduct</i>	-44.06	
			<i>For Class 54 Rating, Add</i>	63.55	
			<i>For Class 55 Rating, Add</i>	96.27	
			<i>For Class 56 Rating, Add</i>	128.58	
40 05 19 00-1072	EA		6" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	754.43	193.87
			<i>For Class 52 Rating, Deduct</i>	-50.67	
			<i>For Class 54 Rating, Add</i>	72.63	
			<i>For Class 55 Rating, Add</i>	109.78	
			<i>For Class 56 Rating, Add</i>	146.48	
40 05 19 00-1073	EA		6" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	818.58	196.50
			<i>For Class 52 Rating, Deduct</i>	-57.29	
			<i>For Class 54 Rating, Add</i>	81.70	
			<i>For Class 55 Rating, Add</i>	123.30	
			<i>For Class 56 Rating, Add</i>	164.37	
40 05 19 00-1074	EA		6" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	882.71	199.12
			<i>For Class 52 Rating, Deduct</i>	-63.91	
			<i>For Class 54 Rating, Add</i>	90.77	
			<i>For Class 55 Rating, Add</i>	136.81	
			<i>For Class 56 Rating, Add</i>	182.26	
40 05 19 00-1075	EA		6" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	946.85	201.73
			<i>For Class 52 Rating, Deduct</i>	-70.53	
			<i>For Class 54 Rating, Add</i>	99.85	
			<i>For Class 55 Rating, Add</i>	150.32	
			<i>For Class 56 Rating, Add</i>	200.15	
40 05 19 00-1076	EA		6" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,010.99	204.35
			<i>For Class 52 Rating, Deduct</i>	-77.15	
			<i>For Class 54 Rating, Add</i>	108.92	
			<i>For Class 55 Rating, Add</i>	163.83	
			<i>For Class 56 Rating, Add</i>	218.05	
40 05 19 00-1077	EA		6" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,075.13	206.98
			<i>For Class 52 Rating, Deduct</i>	-83.77	
			<i>For Class 54 Rating, Add</i>	117.99	
			<i>For Class 55 Rating, Add</i>	177.35	
			<i>For Class 56 Rating, Add</i>	235.94	
40 05 19 00-1078	EA		6" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,139.27	209.60
			<i>For Class 52 Rating, Deduct</i>	-90.39	
			<i>For Class 54 Rating, Add</i>	127.07	
			<i>For Class 55 Rating, Add</i>	190.86	
			<i>For Class 56 Rating, Add</i>	253.83	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1079 EA 6" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,203.41	212.21
<i>For Class 52 Rating, Deduct</i>	-97.01	
<i>For Class 54 Rating, Add</i>	136.14	
<i>For Class 55 Rating, Add</i>	204.37	
<i>For Class 56 Rating, Add</i>	271.73	
40 05 19 00-1080 EA 6" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,267.55	214.84
<i>For Class 52 Rating, Deduct</i>	-103.62	
<i>For Class 54 Rating, Add</i>	145.21	
<i>For Class 55 Rating, Add</i>	217.89	
<i>For Class 56 Rating, Add</i>	289.62	
40 05 19 00-1081 EA 6" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,331.69	217.46
<i>For Class 52 Rating, Deduct</i>	-110.24	
<i>For Class 54 Rating, Add</i>	154.29	
<i>For Class 55 Rating, Add</i>	231.40	
<i>For Class 56 Rating, Add</i>	307.51	
40 05 19 00-1082 EA 6" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,395.83	220.07
<i>For Class 52 Rating, Deduct</i>	-116.86	
<i>For Class 54 Rating, Add</i>	163.36	
<i>For Class 55 Rating, Add</i>	244.91	
<i>For Class 56 Rating, Add</i>	325.41	
40 05 19 00-1083 EA 6" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,459.97	222.69
<i>For Class 52 Rating, Deduct</i>	-123.48	
<i>For Class 54 Rating, Add</i>	172.43	
<i>For Class 55 Rating, Add</i>	258.43	
<i>For Class 56 Rating, Add</i>	343.30	
40 05 19 00-1084 EA 6" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,524.11	225.32
<i>For Class 52 Rating, Deduct</i>	-130.10	
<i>For Class 54 Rating, Add</i>	181.50	
<i>For Class 55 Rating, Add</i>	271.94	
<i>For Class 56 Rating, Add</i>	361.19	
40 05 19 00-1085 EA 6" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,588.25	227.94
<i>For Class 52 Rating, Deduct</i>	-136.72	
<i>For Class 54 Rating, Add</i>	190.58	
<i>For Class 55 Rating, Add</i>	285.45	
<i>For Class 56 Rating, Add</i>	379.09	
40 05 19 00-1086 EA 6" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,652.38	230.55
<i>For Class 52 Rating, Deduct</i>	-143.34	
<i>For Class 54 Rating, Add</i>	199.65	
<i>For Class 55 Rating, Add</i>	298.97	
<i>For Class 56 Rating, Add</i>	396.98	
40 05 19 00-1087 EA 6" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,716.53	233.18
<i>For Class 52 Rating, Deduct</i>	-149.96	
<i>For Class 54 Rating, Add</i>	208.72	
<i>For Class 55 Rating, Add</i>	312.48	
<i>For Class 56 Rating, Add</i>	414.87	
40 05 19 00-1088 EA 6" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,780.67	235.80
<i>For Class 52 Rating, Deduct</i>	-156.57	
<i>For Class 54 Rating, Add</i>	217.80	
<i>For Class 55 Rating, Add</i>	325.99	
<i>For Class 56 Rating, Add</i>	432.76	
40 05 19 00-1089 EA 6" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,844.81	238.42
<i>For Class 52 Rating, Deduct</i>	-163.19	
<i>For Class 54 Rating, Add</i>	226.87	
<i>For Class 55 Rating, Add</i>	339.51	
<i>For Class 56 Rating, Add</i>	450.66	
40 05 19 00-1090 EA 6" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,908.94	241.03
<i>For Class 52 Rating, Deduct</i>	-169.81	
<i>For Class 54 Rating, Add</i>	235.94	
<i>For Class 55 Rating, Add</i>	353.02	
<i>For Class 56 Rating, Add</i>	468.55	
40 05 19 00-1091 EA 6" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,973.09	243.66
<i>For Class 52 Rating, Deduct</i>	-176.43	
<i>For Class 54 Rating, Add</i>	245.02	
<i>For Class 55 Rating, Add</i>	366.53	
<i>For Class 56 Rating, Add</i>	486.44	
40 05 19 00-1092 EA 6" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,037.23	246.28
<i>For Class 52 Rating, Deduct</i>	-183.05	
<i>For Class 54 Rating, Add</i>	254.09	
<i>For Class 55 Rating, Add</i>	380.05	
<i>For Class 56 Rating, Add</i>	504.34	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1093	EA		6" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,101.37	248.89
			<i>For Class 52 Rating, Deduct</i>	-189.67	
			<i>For Class 54 Rating, Add</i>	263.16	
			<i>For Class 55 Rating, Add</i>	393.56	
			<i>For Class 56 Rating, Add</i>	522.23	
40 05 19 00-1094	EA		6" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,165.50	251.52
			<i>For Class 52 Rating, Deduct</i>	-196.29	
			<i>For Class 54 Rating, Add</i>	272.24	
			<i>For Class 55 Rating, Add</i>	407.07	
			<i>For Class 56 Rating, Add</i>	540.12	
40 05 19 00-1095	EA		6" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,229.64	254.14
			<i>For Class 52 Rating, Deduct</i>	-202.90	
			<i>For Class 54 Rating, Add</i>	281.31	
			<i>For Class 55 Rating, Add</i>	420.58	
			<i>For Class 56 Rating, Add</i>	558.02	
40 05 19 00-1096	EA		6" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,293.79	256.76
			<i>For Class 52 Rating, Deduct</i>	-209.52	
			<i>For Class 54 Rating, Add</i>	290.38	
			<i>For Class 55 Rating, Add</i>	434.10	
			<i>For Class 56 Rating, Add</i>	575.91	
40 05 19 00-1097	EA		6" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,357.93	259.37
			<i>For Class 52 Rating, Deduct</i>	-216.14	
			<i>For Class 54 Rating, Add</i>	299.46	
			<i>For Class 55 Rating, Add</i>	447.61	
			<i>For Class 56 Rating, Add</i>	593.80	
40 05 19 00-1098	EA		6" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,422.06	262.00
			<i>For Class 52 Rating, Deduct</i>	-222.76	
			<i>For Class 54 Rating, Add</i>	308.53	
			<i>For Class 55 Rating, Add</i>	461.12	
			<i>For Class 56 Rating, Add</i>	611.70	
40 05 19 00-1099	EA		6" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,486.20	264.62
			<i>For Class 52 Rating, Deduct</i>	-229.38	
			<i>For Class 54 Rating, Add</i>	317.60	
			<i>For Class 55 Rating, Add</i>	474.64	
			<i>For Class 56 Rating, Add</i>	629.59	
40 05 19 00-1100	EA		6" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,550.35	267.23
			<i>For Class 52 Rating, Deduct</i>	-236.00	
			<i>For Class 54 Rating, Add</i>	326.68	
			<i>For Class 55 Rating, Add</i>	488.15	
			<i>For Class 56 Rating, Add</i>	647.48	
40 05 19 00-1101	EA		6" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,614.50	269.86
			<i>For Class 52 Rating, Deduct</i>	-242.62	
			<i>For Class 54 Rating, Add</i>	335.75	
			<i>For Class 55 Rating, Add</i>	501.67	
			<i>For Class 56 Rating, Add</i>	665.38	
40 05 19 00-1102	EA		6" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,678.63	272.47
			<i>For Class 52 Rating, Deduct</i>	-249.24	
			<i>For Class 54 Rating, Add</i>	344.82	
			<i>For Class 55 Rating, Add</i>	515.18	
			<i>For Class 56 Rating, Add</i>	683.27	
40 05 19 00-1103	EA		6" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,742.77	275.10
			<i>For Class 52 Rating, Deduct</i>	-255.86	
			<i>For Class 54 Rating, Add</i>	353.90	
			<i>For Class 55 Rating, Add</i>	528.69	
			<i>For Class 56 Rating, Add</i>	701.16	
40 05 19 00-1104	EA		6" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,806.91	277.71
			<i>For Class 52 Rating, Deduct</i>	-262.47	
			<i>For Class 54 Rating, Add</i>	362.97	
			<i>For Class 55 Rating, Add</i>	542.21	
			<i>For Class 56 Rating, Add</i>	719.06	
40 05 19 00-1105	EA		6" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,871.06	280.34
			<i>For Class 52 Rating, Deduct</i>	-269.09	
			<i>For Class 54 Rating, Add</i>	372.04	
			<i>For Class 55 Rating, Add</i>	555.72	
			<i>For Class 56 Rating, Add</i>	736.95	
40 05 19 00-1106	EA		6" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,935.19	282.96
			<i>For Class 52 Rating, Deduct</i>	-275.71	
			<i>For Class 54 Rating, Add</i>	381.12	
			<i>For Class 55 Rating, Add</i>	569.23	
			<i>For Class 56 Rating, Add</i>	754.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1107 EA 6" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,999.33	285.57
For Class 52 Rating, Deduct	-282.33	
For Class 54 Rating, Add	390.19	
For Class 55 Rating, Add	582.75	
For Class 56 Rating, Add	772.74	
40 05 19 00-1108 EA 6" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,063.47	288.20
For Class 52 Rating, Deduct	-288.95	
For Class 54 Rating, Add	399.26	
For Class 55 Rating, Add	596.26	
For Class 56 Rating, Add	790.63	
40 05 19 00-1109 8" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1110 EA 8" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	859.72	241.03
For Class 52 Rating, Deduct	-54.40	
For Class 54 Rating, Add	78.56	
For Class 55 Rating, Add	119.04	
For Class 56 Rating, Add	159.03	
40 05 19 00-1111 EA 8" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	946.44	243.66
For Class 52 Rating, Deduct	-63.50	
For Class 54 Rating, Add	91.02	
For Class 55 Rating, Add	137.59	
For Class 56 Rating, Add	183.58	
40 05 19 00-1112 EA 8" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,033.14	246.28
For Class 52 Rating, Deduct	-72.60	
For Class 54 Rating, Add	103.48	
For Class 55 Rating, Add	156.13	
For Class 56 Rating, Add	208.13	
40 05 19 00-1113 EA 8" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,119.85	248.89
For Class 52 Rating, Deduct	-81.70	
For Class 54 Rating, Add	115.93	
For Class 55 Rating, Add	174.68	
For Class 56 Rating, Add	232.68	
40 05 19 00-1114 EA 8" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,206.54	251.52
For Class 52 Rating, Deduct	-90.80	
For Class 54 Rating, Add	128.39	
For Class 55 Rating, Add	193.22	
For Class 56 Rating, Add	257.23	
40 05 19 00-1115 EA 8" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,293.24	254.14
For Class 52 Rating, Deduct	-99.90	
For Class 54 Rating, Add	140.85	
For Class 55 Rating, Add	211.77	
For Class 56 Rating, Add	281.78	
40 05 19 00-1116 EA 8" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,379.96	256.76
For Class 52 Rating, Deduct	-109.00	
For Class 54 Rating, Add	153.31	
For Class 55 Rating, Add	230.31	
For Class 56 Rating, Add	306.33	
40 05 19 00-1117 EA 8" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,466.66	259.37
For Class 52 Rating, Deduct	-118.10	
For Class 54 Rating, Add	165.77	
For Class 55 Rating, Add	248.86	
For Class 56 Rating, Add	330.88	
40 05 19 00-1118 EA 8" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,553.36	262.00
For Class 52 Rating, Deduct	-127.20	
For Class 54 Rating, Add	178.22	
For Class 55 Rating, Add	267.40	
For Class 56 Rating, Add	355.43	
40 05 19 00-1119 EA 8" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,640.06	264.62
For Class 52 Rating, Deduct	-136.30	
For Class 54 Rating, Add	190.68	
For Class 55 Rating, Add	285.95	
For Class 56 Rating, Add	379.98	
40 05 19 00-1120 EA 8" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,726.76	267.23
For Class 52 Rating, Deduct	-145.40	
For Class 54 Rating, Add	203.14	
For Class 55 Rating, Add	304.49	
For Class 56 Rating, Add	404.53	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1121	EA		8" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,813.48	269.86
			<i>For Class 52 Rating, Deduct</i>	-154.51	
			<i>For Class 54 Rating, Add</i>	215.60	
			<i>For Class 55 Rating, Add</i>	323.04	
			<i>For Class 56 Rating, Add</i>	429.08	
40 05 19 00-1122	EA		8" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,900.17	272.47
			<i>For Class 52 Rating, Deduct</i>	-163.61	
			<i>For Class 54 Rating, Add</i>	228.05	
			<i>For Class 55 Rating, Add</i>	341.58	
			<i>For Class 56 Rating, Add</i>	453.62	
40 05 19 00-1123	EA		8" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,986.88	275.10
			<i>For Class 52 Rating, Deduct</i>	-172.71	
			<i>For Class 54 Rating, Add</i>	240.51	
			<i>For Class 55 Rating, Add</i>	360.13	
			<i>For Class 56 Rating, Add</i>	478.18	
40 05 19 00-1124	EA		8" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,073.58	277.71
			<i>For Class 52 Rating, Deduct</i>	-181.81	
			<i>For Class 54 Rating, Add</i>	252.97	
			<i>For Class 55 Rating, Add</i>	378.67	
			<i>For Class 56 Rating, Add</i>	502.72	
40 05 19 00-1125	EA		8" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,160.30	280.34
			<i>For Class 52 Rating, Deduct</i>	-190.91	
			<i>For Class 54 Rating, Add</i>	265.43	
			<i>For Class 55 Rating, Add</i>	397.22	
			<i>For Class 56 Rating, Add</i>	527.28	
40 05 19 00-1126	EA		8" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,246.99	282.96
			<i>For Class 52 Rating, Deduct</i>	-200.01	
			<i>For Class 54 Rating, Add</i>	277.89	
			<i>For Class 55 Rating, Add</i>	415.76	
			<i>For Class 56 Rating, Add</i>	551.82	
40 05 19 00-1127	EA		8" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,333.69	285.57
			<i>For Class 52 Rating, Deduct</i>	-209.11	
			<i>For Class 54 Rating, Add</i>	290.34	
			<i>For Class 55 Rating, Add</i>	434.31	
			<i>For Class 56 Rating, Add</i>	576.37	
40 05 19 00-1128	EA		8" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,420.40	288.20
			<i>For Class 52 Rating, Deduct</i>	-218.21	
			<i>For Class 54 Rating, Add</i>	302.80	
			<i>For Class 55 Rating, Add</i>	452.85	
			<i>For Class 56 Rating, Add</i>	600.92	
40 05 19 00-1129	EA		8" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,507.10	290.81
			<i>For Class 52 Rating, Deduct</i>	-227.31	
			<i>For Class 54 Rating, Add</i>	315.26	
			<i>For Class 55 Rating, Add</i>	471.40	
			<i>For Class 56 Rating, Add</i>	625.47	
40 05 19 00-1130	EA		8" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,593.81	293.44
			<i>For Class 52 Rating, Deduct</i>	-236.41	
			<i>For Class 54 Rating, Add</i>	327.72	
			<i>For Class 55 Rating, Add</i>	489.94	
			<i>For Class 56 Rating, Add</i>	650.02	
40 05 19 00-1131	EA		8" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,680.51	296.05
			<i>For Class 52 Rating, Deduct</i>	-245.51	
			<i>For Class 54 Rating, Add</i>	340.17	
			<i>For Class 55 Rating, Add</i>	508.49	
			<i>For Class 56 Rating, Add</i>	674.57	
40 05 19 00-1132	EA		8" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,767.21	298.68
			<i>For Class 52 Rating, Deduct</i>	-254.61	
			<i>For Class 54 Rating, Add</i>	352.63	
			<i>For Class 55 Rating, Add</i>	527.03	
			<i>For Class 56 Rating, Add</i>	699.12	
40 05 19 00-1133	EA		8" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,853.92	301.30
			<i>For Class 52 Rating, Deduct</i>	-263.72	
			<i>For Class 54 Rating, Add</i>	365.09	
			<i>For Class 55 Rating, Add</i>	545.58	
			<i>For Class 56 Rating, Add</i>	723.67	
40 05 19 00-1134	EA		8" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,940.62	303.92
			<i>For Class 52 Rating, Deduct</i>	-272.82	
			<i>For Class 54 Rating, Add</i>	377.55	
			<i>For Class 55 Rating, Add</i>	564.12	
			<i>For Class 56 Rating, Add</i>	748.22	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1135 EA 8" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,027.33	306.54
<i>For Class 52 Rating, Deduct</i>	-281.92	
<i>For Class 54 Rating, Add</i>	390.01	
<i>For Class 55 Rating, Add</i>	582.67	
<i>For Class 56 Rating, Add</i>	772.77	
40 05 19 00-1136 EA 8" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,114.03	309.15
<i>For Class 52 Rating, Deduct</i>	-291.02	
<i>For Class 54 Rating, Add</i>	402.46	
<i>For Class 55 Rating, Add</i>	601.21	
<i>For Class 56 Rating, Add</i>	797.32	
40 05 19 00-1137 EA 8" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,200.72	311.78
<i>For Class 52 Rating, Deduct</i>	-300.12	
<i>For Class 54 Rating, Add</i>	414.92	
<i>For Class 55 Rating, Add</i>	619.76	
<i>For Class 56 Rating, Add</i>	821.87	
40 05 19 00-1138 EA 8" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,287.43	314.39
<i>For Class 52 Rating, Deduct</i>	-309.22	
<i>For Class 54 Rating, Add</i>	427.38	
<i>For Class 55 Rating, Add</i>	638.30	
<i>For Class 56 Rating, Add</i>	846.42	
40 05 19 00-1139 EA 8" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,374.14	317.01
<i>For Class 52 Rating, Deduct</i>	-318.32	
<i>For Class 54 Rating, Add</i>	439.84	
<i>For Class 55 Rating, Add</i>	656.85	
<i>For Class 56 Rating, Add</i>	870.97	
40 05 19 00-1140 EA 8" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,460.85	319.64
<i>For Class 52 Rating, Deduct</i>	-327.42	
<i>For Class 54 Rating, Add</i>	452.29	
<i>For Class 55 Rating, Add</i>	675.39	
<i>For Class 56 Rating, Add</i>	895.52	
40 05 19 00-1141 EA 8" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,547.54	322.26
<i>For Class 52 Rating, Deduct</i>	-336.52	
<i>For Class 54 Rating, Add</i>	464.75	
<i>For Class 55 Rating, Add</i>	693.94	
<i>For Class 56 Rating, Add</i>	920.06	
40 05 19 00-1142 EA 8" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,634.24	324.87
<i>For Class 52 Rating, Deduct</i>	-345.62	
<i>For Class 54 Rating, Add</i>	477.21	
<i>For Class 55 Rating, Add</i>	712.48	
<i>For Class 56 Rating, Add</i>	944.61	
40 05 19 00-1143 EA 8" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,720.96	327.49
<i>For Class 52 Rating, Deduct</i>	-354.72	
<i>For Class 54 Rating, Add</i>	489.67	
<i>For Class 55 Rating, Add</i>	731.03	
<i>For Class 56 Rating, Add</i>	969.16	
40 05 19 00-1144 EA 8" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,807.66	330.12
<i>For Class 52 Rating, Deduct</i>	-363.82	
<i>For Class 54 Rating, Add</i>	502.12	
<i>For Class 55 Rating, Add</i>	749.57	
<i>For Class 56 Rating, Add</i>	993.71	
40 05 19 00-1145 EA 8" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,894.36	332.73
<i>For Class 52 Rating, Deduct</i>	-372.92	
<i>For Class 54 Rating, Add</i>	514.58	
<i>For Class 55 Rating, Add</i>	768.12	
<i>For Class 56 Rating, Add</i>	1,018.26	
40 05 19 00-1146 EA 8" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,981.06	335.35
<i>For Class 52 Rating, Deduct</i>	-382.02	
<i>For Class 54 Rating, Add</i>	527.04	
<i>For Class 55 Rating, Add</i>	786.66	
<i>For Class 56 Rating, Add</i>	1,042.81	
40 05 19 00-1147 EA 8" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,067.77	337.98
<i>For Class 52 Rating, Deduct</i>	-391.13	
<i>For Class 54 Rating, Add</i>	539.50	
<i>For Class 55 Rating, Add</i>	805.21	
<i>For Class 56 Rating, Add</i>	1,067.36	
40 05 19 00-1148 EA 8" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,154.48	340.60
<i>For Class 52 Rating, Deduct</i>	-400.23	
<i>For Class 54 Rating, Add</i>	551.96	
<i>For Class 55 Rating, Add</i>	823.75	
<i>For Class 56 Rating, Add</i>	1,091.91	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1149			10" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1150	EA		10" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,082.03	293.44
			For Class 52 Rating, Deduct	-70.12	
			For Class 54 Rating, Add	100.95	
			For Class 55 Rating, Add	152.82	
			For Class 56 Rating, Add	204.05	
40 05 19 00-1151	EA		10" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,195.06	296.05
			For Class 52 Rating, Deduct	-82.11	
			For Class 54 Rating, Add	117.36	
			For Class 55 Rating, Add	177.23	
			For Class 56 Rating, Add	236.36	
40 05 19 00-1152	EA		10" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,308.09	298.68
			For Class 52 Rating, Deduct	-94.11	
			For Class 54 Rating, Add	133.76	
			For Class 55 Rating, Add	201.65	
			For Class 56 Rating, Add	268.68	
40 05 19 00-1153	EA		10" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,421.11	301.30
			For Class 52 Rating, Deduct	-106.11	
			For Class 54 Rating, Add	150.17	
			For Class 55 Rating, Add	226.06	
			For Class 56 Rating, Add	300.99	
40 05 19 00-1154	EA		10" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,534.14	303.92
			For Class 52 Rating, Deduct	-118.10	
			For Class 54 Rating, Add	166.57	
			For Class 55 Rating, Add	250.48	
			For Class 56 Rating, Add	333.31	
40 05 19 00-1155	EA		10" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,647.17	306.54
			For Class 52 Rating, Deduct	-130.10	
			For Class 54 Rating, Add	182.98	
			For Class 55 Rating, Add	274.89	
			For Class 56 Rating, Add	365.62	
40 05 19 00-1156	EA		10" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,760.20	309.15
			For Class 52 Rating, Deduct	-142.10	
			For Class 54 Rating, Add	199.39	
			For Class 55 Rating, Add	299.31	
			For Class 56 Rating, Add	397.94	
40 05 19 00-1157	EA		10" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,873.22	311.78
			For Class 52 Rating, Deduct	-154.09	
			For Class 54 Rating, Add	215.79	
			For Class 55 Rating, Add	323.72	
			For Class 56 Rating, Add	430.25	
40 05 19 00-1158	EA		10" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,986.25	314.39
			For Class 52 Rating, Deduct	-166.09	
			For Class 54 Rating, Add	232.20	
			For Class 55 Rating, Add	348.14	
			For Class 56 Rating, Add	462.57	
40 05 19 00-1159	EA		10" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,099.29	317.01
			For Class 52 Rating, Deduct	-178.09	
			For Class 54 Rating, Add	248.61	
			For Class 55 Rating, Add	372.56	
			For Class 56 Rating, Add	494.89	
40 05 19 00-1160	EA		10" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,212.31	319.64
			For Class 52 Rating, Deduct	-190.08	
			For Class 54 Rating, Add	265.01	
			For Class 55 Rating, Add	396.97	
			For Class 56 Rating, Add	527.20	
40 05 19 00-1161	EA		10" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,325.33	322.26
			For Class 52 Rating, Deduct	-202.08	
			For Class 54 Rating, Add	281.42	
			For Class 55 Rating, Add	421.38	
			For Class 56 Rating, Add	559.51	
40 05 19 00-1162	EA		10" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,438.36	324.87
			For Class 52 Rating, Deduct	-214.07	
			For Class 54 Rating, Add	297.83	
			For Class 55 Rating, Add	445.80	
			For Class 56 Rating, Add	591.83	
40 05 19 00-1163	EA		10" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,551.40	327.49
			For Class 52 Rating, Deduct	-226.07	
			For Class 54 Rating, Add	314.23	
			For Class 55 Rating, Add	470.22	
			For Class 56 Rating, Add	624.14	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1164 EA 10" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,664.43	330.12
<i>For Class 52 Rating, Deduct</i>	-238.07	
<i>For Class 54 Rating, Add</i>	330.64	
<i>For Class 55 Rating, Add</i>	494.63	
<i>For Class 56 Rating, Add</i>	656.46	
40 05 19 00-1165 EA 10" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,777.45	332.73
<i>For Class 52 Rating, Deduct</i>	-250.06	
<i>For Class 54 Rating, Add</i>	347.05	
<i>For Class 55 Rating, Add</i>	519.05	
<i>For Class 56 Rating, Add</i>	688.78	
40 05 19 00-1166 EA 10" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,890.48	335.35
<i>For Class 52 Rating, Deduct</i>	-262.06	
<i>For Class 54 Rating, Add</i>	363.45	
<i>For Class 55 Rating, Add</i>	543.46	
<i>For Class 56 Rating, Add</i>	721.09	
40 05 19 00-1167 EA 10" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,003.50	337.98
<i>For Class 52 Rating, Deduct</i>	-274.06	
<i>For Class 54 Rating, Add</i>	379.86	
<i>For Class 55 Rating, Add</i>	567.88	
<i>For Class 56 Rating, Add</i>	753.40	
40 05 19 00-1168 EA 10" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,116.54	340.60
<i>For Class 52 Rating, Deduct</i>	-286.05	
<i>For Class 54 Rating, Add</i>	396.26	
<i>For Class 55 Rating, Add</i>	592.29	
<i>For Class 56 Rating, Add</i>	785.72	
40 05 19 00-1169 EA 10" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,229.56	343.21
<i>For Class 52 Rating, Deduct</i>	-298.05	
<i>For Class 54 Rating, Add</i>	412.67	
<i>For Class 55 Rating, Add</i>	616.71	
<i>For Class 56 Rating, Add</i>	818.04	
40 05 19 00-1170 EA 10" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,342.59	345.83
<i>For Class 52 Rating, Deduct</i>	-310.05	
<i>For Class 54 Rating, Add</i>	429.08	
<i>For Class 55 Rating, Add</i>	641.12	
<i>For Class 56 Rating, Add</i>	850.35	
40 05 19 00-1171 EA 10" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,455.62	348.46
<i>For Class 52 Rating, Deduct</i>	-322.04	
<i>For Class 54 Rating, Add</i>	445.48	
<i>For Class 55 Rating, Add</i>	665.54	
<i>For Class 56 Rating, Add</i>	882.67	
40 05 19 00-1172 EA 10" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,568.66	351.07
<i>For Class 52 Rating, Deduct</i>	-334.04	
<i>For Class 54 Rating, Add</i>	461.89	
<i>For Class 55 Rating, Add</i>	689.96	
<i>For Class 56 Rating, Add</i>	914.98	
40 05 19 00-1173 EA 10" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,681.68	353.69
<i>For Class 52 Rating, Deduct</i>	-346.04	
<i>For Class 54 Rating, Add</i>	478.30	
<i>For Class 55 Rating, Add</i>	714.37	
<i>For Class 56 Rating, Add</i>	947.30	
40 05 19 00-1174 EA 10" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,794.70	356.32
<i>For Class 52 Rating, Deduct</i>	-358.03	
<i>For Class 54 Rating, Add</i>	494.70	
<i>For Class 55 Rating, Add</i>	738.78	
<i>For Class 56 Rating, Add</i>	979.61	
40 05 19 00-1175 EA 10" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,907.73	358.94
<i>For Class 52 Rating, Deduct</i>	-370.03	
<i>For Class 54 Rating, Add</i>	511.11	
<i>For Class 55 Rating, Add</i>	763.20	
<i>For Class 56 Rating, Add</i>	1,011.93	
40 05 19 00-1176 EA 10" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,020.76	361.55
<i>For Class 52 Rating, Deduct</i>	-382.02	
<i>For Class 54 Rating, Add</i>	527.52	
<i>For Class 55 Rating, Add</i>	787.62	
<i>For Class 56 Rating, Add</i>	1,044.24	
40 05 19 00-1177 EA 10" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,133.79	364.17
<i>For Class 52 Rating, Deduct</i>	-394.02	
<i>For Class 54 Rating, Add</i>	543.92	
<i>For Class 55 Rating, Add</i>	812.03	
<i>For Class 56 Rating, Add</i>	1,076.56	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1178	EA		10" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,246.82	366.80
			<i>For Class 52 Rating, Deduct</i>	-406.02	
			<i>For Class 54 Rating, Add</i>	560.33	
			<i>For Class 55 Rating, Add</i>	836.45	
			<i>For Class 56 Rating, Add</i>	1,108.87	
40 05 19 00-1179	EA		10" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,359.85	369.42
			<i>For Class 52 Rating, Deduct</i>	-418.01	
			<i>For Class 54 Rating, Add</i>	576.74	
			<i>For Class 55 Rating, Add</i>	860.86	
			<i>For Class 56 Rating, Add</i>	1,141.19	
40 05 19 00-1180	EA		10" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,472.88	372.03
			<i>For Class 52 Rating, Deduct</i>	-430.01	
			<i>For Class 54 Rating, Add</i>	593.14	
			<i>For Class 55 Rating, Add</i>	885.28	
			<i>For Class 56 Rating, Add</i>	1,173.50	
40 05 19 00-1181	EA		10" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,585.90	374.66
			<i>For Class 52 Rating, Deduct</i>	-442.01	
			<i>For Class 54 Rating, Add</i>	609.55	
			<i>For Class 55 Rating, Add</i>	909.69	
			<i>For Class 56 Rating, Add</i>	1,205.82	
40 05 19 00-1182	EA		10" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,698.93	377.28
			<i>For Class 52 Rating, Deduct</i>	-454.00	
			<i>For Class 54 Rating, Add</i>	625.95	
			<i>For Class 55 Rating, Add</i>	934.11	
			<i>For Class 56 Rating, Add</i>	1,238.13	
40 05 19 00-1183	EA		10" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,811.96	379.89
			<i>For Class 52 Rating, Deduct</i>	-466.00	
			<i>For Class 54 Rating, Add</i>	642.36	
			<i>For Class 55 Rating, Add</i>	958.52	
			<i>For Class 56 Rating, Add</i>	1,270.45	
40 05 19 00-1184	EA		10" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,924.99	382.51
			<i>For Class 52 Rating, Deduct</i>	-478.00	
			<i>For Class 54 Rating, Add</i>	658.77	
			<i>For Class 55 Rating, Add</i>	982.94	
			<i>For Class 56 Rating, Add</i>	1,302.76	
40 05 19 00-1185	EA		10" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,038.01	385.14
			<i>For Class 52 Rating, Deduct</i>	-489.99	
			<i>For Class 54 Rating, Add</i>	675.17	
			<i>For Class 55 Rating, Add</i>	1,007.35	
			<i>For Class 56 Rating, Add</i>	1,335.08	
40 05 19 00-1186	EA		10" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,151.05	387.76
			<i>For Class 52 Rating, Deduct</i>	-501.99	
			<i>For Class 54 Rating, Add</i>	691.58	
			<i>For Class 55 Rating, Add</i>	1,031.77	
			<i>For Class 56 Rating, Add</i>	1,367.39	
40 05 19 00-1187	EA		10" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,264.08	390.37
			<i>For Class 52 Rating, Deduct</i>	-513.99	
			<i>For Class 54 Rating, Add</i>	707.99	
			<i>For Class 55 Rating, Add</i>	1,056.19	
			<i>For Class 56 Rating, Add</i>	1,399.71	
40 05 19 00-1188	EA		10" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,377.10	393.00
			<i>For Class 52 Rating, Deduct</i>	-525.98	
			<i>For Class 54 Rating, Add</i>	724.39	
			<i>For Class 55 Rating, Add</i>	1,080.60	
			<i>For Class 56 Rating, Add</i>	1,432.02	
40 05 19 00-1189			12" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1190	EA		12" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,405.65	366.80
			<i>For Class 52 Rating, Deduct</i>	-93.49	
			<i>For Class 54 Rating, Add</i>	134.15	
			<i>For Class 55 Rating, Add</i>	202.87	
			<i>For Class 56 Rating, Add</i>	270.73	
40 05 19 00-1191	EA		12" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,546.89	369.42
			<i>For Class 52 Rating, Deduct</i>	-108.59	
			<i>For Class 54 Rating, Add</i>	154.79	
			<i>For Class 55 Rating, Add</i>	233.57	
			<i>For Class 56 Rating, Add</i>	311.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1192 EA 12" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,688.12	372.03
<i>For Class 52 Rating, Deduct</i>	-123.69	
<i>For Class 54 Rating, Add</i>	175.43	
<i>For Class 55 Rating, Add</i>	264.28	
<i>For Class 56 Rating, Add</i>	352.00	
40 05 19 00-1193 EA 12" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,829.35	374.66
<i>For Class 52 Rating, Deduct</i>	-138.79	
<i>For Class 54 Rating, Add</i>	196.07	
<i>For Class 55 Rating, Add</i>	294.98	
<i>For Class 56 Rating, Add</i>	392.63	
40 05 19 00-1194 EA 12" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,970.59	377.28
<i>For Class 52 Rating, Deduct</i>	-153.89	
<i>For Class 54 Rating, Add</i>	216.70	
<i>For Class 55 Rating, Add</i>	325.69	
<i>For Class 56 Rating, Add</i>	433.27	
40 05 19 00-1195 EA 12" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,111.82	379.89
<i>For Class 52 Rating, Deduct</i>	-168.98	
<i>For Class 54 Rating, Add</i>	237.34	
<i>For Class 55 Rating, Add</i>	356.39	
<i>For Class 56 Rating, Add</i>	473.91	
40 05 19 00-1196 EA 12" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,253.05	382.51
<i>For Class 52 Rating, Deduct</i>	-184.08	
<i>For Class 54 Rating, Add</i>	257.98	
<i>For Class 55 Rating, Add</i>	387.10	
<i>For Class 56 Rating, Add</i>	514.54	
40 05 19 00-1197 EA 12" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,394.28	385.14
<i>For Class 52 Rating, Deduct</i>	-199.18	
<i>For Class 54 Rating, Add</i>	278.61	
<i>For Class 55 Rating, Add</i>	417.80	
<i>For Class 56 Rating, Add</i>	555.18	
40 05 19 00-1198 EA 12" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,535.52	387.76
<i>For Class 52 Rating, Deduct</i>	-214.28	
<i>For Class 54 Rating, Add</i>	299.25	
<i>For Class 55 Rating, Add</i>	448.51	
<i>For Class 56 Rating, Add</i>	595.81	
40 05 19 00-1199 EA 12" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,676.75	390.37
<i>For Class 52 Rating, Deduct</i>	-229.38	
<i>For Class 54 Rating, Add</i>	319.89	
<i>For Class 55 Rating, Add</i>	479.21	
<i>For Class 56 Rating, Add</i>	636.45	
40 05 19 00-1200 EA 12" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,817.99	393.00
<i>For Class 52 Rating, Deduct</i>	-244.48	
<i>For Class 54 Rating, Add</i>	340.53	
<i>For Class 55 Rating, Add</i>	509.92	
<i>For Class 56 Rating, Add</i>	677.09	
40 05 19 00-1201 EA 12" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,959.21	395.61
<i>For Class 52 Rating, Deduct</i>	-259.58	
<i>For Class 54 Rating, Add</i>	361.16	
<i>For Class 55 Rating, Add</i>	540.62	
<i>For Class 56 Rating, Add</i>	717.72	
40 05 19 00-1202 EA 12" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,100.45	398.23
<i>For Class 52 Rating, Deduct</i>	-274.68	
<i>For Class 54 Rating, Add</i>	381.80	
<i>For Class 55 Rating, Add</i>	571.33	
<i>For Class 56 Rating, Add</i>	758.35	
40 05 19 00-1203 EA 12" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,241.69	400.85
<i>For Class 52 Rating, Deduct</i>	-289.78	
<i>For Class 54 Rating, Add</i>	402.44	
<i>For Class 55 Rating, Add</i>	602.03	
<i>For Class 56 Rating, Add</i>	798.99	
40 05 19 00-1204 EA 12" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,382.91	403.48
<i>For Class 52 Rating, Deduct</i>	-304.87	
<i>For Class 54 Rating, Add</i>	423.07	
<i>For Class 55 Rating, Add</i>	632.74	
<i>For Class 56 Rating, Add</i>	839.63	
40 05 19 00-1205 EA 12" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,524.15	406.10
<i>For Class 52 Rating, Deduct</i>	-319.97	
<i>For Class 54 Rating, Add</i>	443.71	
<i>For Class 55 Rating, Add</i>	663.44	
<i>For Class 56 Rating, Add</i>	880.26	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1206	EA		12" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,665.38	408.71
			<i>For Class 52 Rating, Deduct</i>	-335.07	
			<i>For Class 54 Rating, Add</i>	464.35	
			<i>For Class 55 Rating, Add</i>	694.15	
			<i>For Class 56 Rating, Add</i>	920.90	
40 05 19 00-1207	EA		12" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,806.62	411.34
			<i>For Class 52 Rating, Deduct</i>	-350.17	
			<i>For Class 54 Rating, Add</i>	484.99	
			<i>For Class 55 Rating, Add</i>	724.85	
			<i>For Class 56 Rating, Add</i>	961.53	
40 05 19 00-1208	EA		12" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,947.85	413.95
			<i>For Class 52 Rating, Deduct</i>	-365.27	
			<i>For Class 54 Rating, Add</i>	505.62	
			<i>For Class 55 Rating, Add</i>	755.56	
			<i>For Class 56 Rating, Add</i>	1,002.17	
40 05 19 00-1209	EA		12" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,089.08	416.57
			<i>For Class 52 Rating, Deduct</i>	-380.37	
			<i>For Class 54 Rating, Add</i>	526.26	
			<i>For Class 55 Rating, Add</i>	786.26	
			<i>For Class 56 Rating, Add</i>	1,042.81	
40 05 19 00-1210	EA		12" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,230.31	419.19
			<i>For Class 52 Rating, Deduct</i>	-395.47	
			<i>For Class 54 Rating, Add</i>	546.90	
			<i>For Class 55 Rating, Add</i>	816.97	
			<i>For Class 56 Rating, Add</i>	1,083.44	
40 05 19 00-1211	EA		12" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,371.56	421.82
			<i>For Class 52 Rating, Deduct</i>	-410.57	
			<i>For Class 54 Rating, Add</i>	567.54	
			<i>For Class 55 Rating, Add</i>	847.67	
			<i>For Class 56 Rating, Add</i>	1,124.08	
40 05 19 00-1212	EA		12" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,512.78	424.44
			<i>For Class 52 Rating, Deduct</i>	-425.67	
			<i>For Class 54 Rating, Add</i>	588.17	
			<i>For Class 55 Rating, Add</i>	878.38	
			<i>For Class 56 Rating, Add</i>	1,164.71	
40 05 19 00-1213	EA		12" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,654.01	427.05
			<i>For Class 52 Rating, Deduct</i>	-440.77	
			<i>For Class 54 Rating, Add</i>	608.81	
			<i>For Class 55 Rating, Add</i>	909.08	
			<i>For Class 56 Rating, Add</i>	1,205.35	
40 05 19 00-1214	EA		12" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,795.25	429.68
			<i>For Class 52 Rating, Deduct</i>	-455.87	
			<i>For Class 54 Rating, Add</i>	629.45	
			<i>For Class 55 Rating, Add</i>	939.79	
			<i>For Class 56 Rating, Add</i>	1,245.98	
40 05 19 00-1215	EA		12" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,936.48	432.29
			<i>For Class 52 Rating, Deduct</i>	-470.96	
			<i>For Class 54 Rating, Add</i>	650.08	
			<i>For Class 55 Rating, Add</i>	970.49	
			<i>For Class 56 Rating, Add</i>	1,286.62	
40 05 19 00-1216	EA		12" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,077.71	434.92
			<i>For Class 52 Rating, Deduct</i>	-486.06	
			<i>For Class 54 Rating, Add</i>	670.72	
			<i>For Class 55 Rating, Add</i>	1,001.20	
			<i>For Class 56 Rating, Add</i>	1,327.25	
40 05 19 00-1217	EA		12" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,218.95	437.53
			<i>For Class 52 Rating, Deduct</i>	-501.16	
			<i>For Class 54 Rating, Add</i>	691.36	
			<i>For Class 55 Rating, Add</i>	1,031.90	
			<i>For Class 56 Rating, Add</i>	1,367.89	
40 05 19 00-1218	EA		12" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,360.18	440.15
			<i>For Class 52 Rating, Deduct</i>	-516.26	
			<i>For Class 54 Rating, Add</i>	711.99	
			<i>For Class 55 Rating, Add</i>	1,062.61	
			<i>For Class 56 Rating, Add</i>	1,408.53	
40 05 19 00-1219	EA		12" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,501.41	442.78
			<i>For Class 52 Rating, Deduct</i>	-531.36	
			<i>For Class 54 Rating, Add</i>	732.63	
			<i>For Class 55 Rating, Add</i>	1,093.31	
			<i>For Class 56 Rating, Add</i>	1,449.16	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1220 EA 12" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,642.65	445.39
<i>For Class 52 Rating, Deduct</i>	-546.46	
<i>For Class 54 Rating, Add</i>	753.27	
<i>For Class 55 Rating, Add</i>	1,124.02	
<i>For Class 56 Rating, Add</i>	1,489.80	
40 05 19 00-1221 EA 12" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,783.88	448.01
<i>For Class 52 Rating, Deduct</i>	-561.56	
<i>For Class 54 Rating, Add</i>	773.91	
<i>For Class 55 Rating, Add</i>	1,154.72	
<i>For Class 56 Rating, Add</i>	1,530.43	
40 05 19 00-1222 EA 12" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,925.11	450.63
<i>For Class 52 Rating, Deduct</i>	-576.66	
<i>For Class 54 Rating, Add</i>	794.54	
<i>For Class 55 Rating, Add</i>	1,185.43	
<i>For Class 56 Rating, Add</i>	1,571.07	
40 05 19 00-1223 EA 12" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,066.35	453.26
<i>For Class 52 Rating, Deduct</i>	-591.76	
<i>For Class 54 Rating, Add</i>	815.18	
<i>For Class 55 Rating, Add</i>	1,216.13	
<i>For Class 56 Rating, Add</i>	1,611.71	
40 05 19 00-1224 EA 12" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,207.57	455.87
<i>For Class 52 Rating, Deduct</i>	-606.85	
<i>For Class 54 Rating, Add</i>	835.82	
<i>For Class 55 Rating, Add</i>	1,246.84	
<i>For Class 56 Rating, Add</i>	1,652.34	
40 05 19 00-1225 EA 12" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,348.81	458.49
<i>For Class 52 Rating, Deduct</i>	-621.95	
<i>For Class 54 Rating, Add</i>	856.45	
<i>For Class 55 Rating, Add</i>	1,277.54	
<i>For Class 56 Rating, Add</i>	1,692.97	
40 05 19 00-1226 EA 12" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,490.05	461.12
<i>For Class 52 Rating, Deduct</i>	-637.05	
<i>For Class 54 Rating, Add</i>	877.09	
<i>For Class 55 Rating, Add</i>	1,308.25	
<i>For Class 56 Rating, Add</i>	1,733.61	
40 05 19 00-1227 EA 12" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,631.28	463.73
<i>For Class 52 Rating, Deduct</i>	-652.15	
<i>For Class 54 Rating, Add</i>	897.73	
<i>For Class 55 Rating, Add</i>	1,338.95	
<i>For Class 56 Rating, Add</i>	1,774.25	
40 05 19 00-1228 EA 12" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,772.50	466.35
<i>For Class 52 Rating, Deduct</i>	-667.25	
<i>For Class 54 Rating, Add</i>	918.37	
<i>For Class 55 Rating, Add</i>	1,369.66	
<i>For Class 56 Rating, Add</i>	1,814.88	
40 05 19 00-1229 14" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-1028)</small>		
40 05 19 00-1230 EA 14" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,879.71	440.15
<i>For Class 52 Rating, Deduct</i>	-133.41	
<i>For Class 54 Rating, Add</i>	189.92	
<i>For Class 55 Rating, Add</i>	286.46	
<i>For Class 56 Rating, Add</i>	381.79	
40 05 19 00-1231 EA 14" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,051.02	442.78
<i>For Class 52 Rating, Deduct</i>	-151.82	
<i>For Class 54 Rating, Add</i>	215.07	
<i>For Class 55 Rating, Add</i>	323.87	
<i>For Class 56 Rating, Add</i>	431.30	
40 05 19 00-1232 EA 14" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,222.34	445.39
<i>For Class 52 Rating, Deduct</i>	-170.23	
<i>For Class 54 Rating, Add</i>	240.22	
<i>For Class 55 Rating, Add</i>	361.29	
<i>For Class 56 Rating, Add</i>	480.81	
40 05 19 00-1233 EA 14" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,393.66	448.01
<i>For Class 52 Rating, Deduct</i>	-188.63	
<i>For Class 54 Rating, Add</i>	265.37	
<i>For Class 55 Rating, Add</i>	398.70	
<i>For Class 56 Rating, Add</i>	530.32	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1234	EA		14" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,564.98	450.63
			<i>For Class 52 Rating, Deduct</i>	-207.04	
			<i>For Class 54 Rating, Add</i>	290.52	
			<i>For Class 55 Rating, Add</i>	436.12	
			<i>For Class 56 Rating, Add</i>	579.83	
40 05 19 00-1235	EA		14" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,736.30	453.26
			<i>For Class 52 Rating, Deduct</i>	-225.45	
			<i>For Class 54 Rating, Add</i>	315.67	
			<i>For Class 55 Rating, Add</i>	473.53	
			<i>For Class 56 Rating, Add</i>	629.34	
40 05 19 00-1236	EA		14" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,907.61	455.87
			<i>For Class 52 Rating, Deduct</i>	-243.86	
			<i>For Class 54 Rating, Add</i>	340.82	
			<i>For Class 55 Rating, Add</i>	510.95	
			<i>For Class 56 Rating, Add</i>	678.85	
40 05 19 00-1237	EA		14" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,078.94	458.49
			<i>For Class 52 Rating, Deduct</i>	-262.27	
			<i>For Class 54 Rating, Add</i>	365.97	
			<i>For Class 55 Rating, Add</i>	548.36	
			<i>For Class 56 Rating, Add</i>	728.36	
40 05 19 00-1238	EA		14" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,250.25	461.12
			<i>For Class 52 Rating, Deduct</i>	-280.67	
			<i>For Class 54 Rating, Add</i>	391.12	
			<i>For Class 55 Rating, Add</i>	585.77	
			<i>For Class 56 Rating, Add</i>	777.87	
40 05 19 00-1239	EA		14" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,421.57	463.73
			<i>For Class 52 Rating, Deduct</i>	-299.08	
			<i>For Class 54 Rating, Add</i>	416.27	
			<i>For Class 55 Rating, Add</i>	623.19	
			<i>For Class 56 Rating, Add</i>	827.38	
40 05 19 00-1240	EA		14" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,592.88	466.35
			<i>For Class 52 Rating, Deduct</i>	-317.49	
			<i>For Class 54 Rating, Add</i>	441.42	
			<i>For Class 55 Rating, Add</i>	660.60	
			<i>For Class 56 Rating, Add</i>	876.89	
40 05 19 00-1241	EA		14" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,764.20	468.97
			<i>For Class 52 Rating, Deduct</i>	-335.90	
			<i>For Class 54 Rating, Add</i>	466.57	
			<i>For Class 55 Rating, Add</i>	698.02	
			<i>For Class 56 Rating, Add</i>	926.40	
40 05 19 00-1242	EA		14" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,935.53	471.60
			<i>For Class 52 Rating, Deduct</i>	-354.31	
			<i>For Class 54 Rating, Add</i>	491.72	
			<i>For Class 55 Rating, Add</i>	735.43	
			<i>For Class 56 Rating, Add</i>	975.92	
40 05 19 00-1243	EA		14" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,106.85	474.21
			<i>For Class 52 Rating, Deduct</i>	-372.72	
			<i>For Class 54 Rating, Add</i>	516.87	
			<i>For Class 55 Rating, Add</i>	772.84	
			<i>For Class 56 Rating, Add</i>	1,025.43	
40 05 19 00-1244	EA		14" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,278.16	476.83
			<i>For Class 52 Rating, Deduct</i>	-391.13	
			<i>For Class 54 Rating, Add</i>	542.02	
			<i>For Class 55 Rating, Add</i>	810.26	
			<i>For Class 56 Rating, Add</i>	1,074.94	
40 05 19 00-1245	EA		14" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,449.47	479.46
			<i>For Class 52 Rating, Deduct</i>	-409.53	
			<i>For Class 54 Rating, Add</i>	567.17	
			<i>For Class 55 Rating, Add</i>	847.67	
			<i>For Class 56 Rating, Add</i>	1,124.45	
40 05 19 00-1246	EA		14" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,620.80	482.06
			<i>For Class 52 Rating, Deduct</i>	-427.94	
			<i>For Class 54 Rating, Add</i>	592.32	
			<i>For Class 55 Rating, Add</i>	885.08	
			<i>For Class 56 Rating, Add</i>	1,173.96	
40 05 19 00-1247	EA		14" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,792.12	484.69
			<i>For Class 52 Rating, Deduct</i>	-446.35	
			<i>For Class 54 Rating, Add</i>	617.47	
			<i>For Class 55 Rating, Add</i>	922.50	
			<i>For Class 56 Rating, Add</i>	1,223.47	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1248 EA 14" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,963.43	487.31
<i>For Class 52 Rating, Deduct</i>	-464.76	
<i>For Class 54 Rating, Add</i>	642.62	
<i>For Class 55 Rating, Add</i>	959.91	
<i>For Class 56 Rating, Add</i>	1,272.98	
40 05 19 00-1249 EA 14" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,134.75	489.94
<i>For Class 52 Rating, Deduct</i>	-483.17	
<i>For Class 54 Rating, Add</i>	667.77	
<i>For Class 55 Rating, Add</i>	997.33	
<i>For Class 56 Rating, Add</i>	1,322.49	
40 05 19 00-1250 EA 14" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,306.07	492.55
<i>For Class 52 Rating, Deduct</i>	-501.58	
<i>For Class 54 Rating, Add</i>	692.92	
<i>For Class 55 Rating, Add</i>	1,034.74	
<i>For Class 56 Rating, Add</i>	1,372.00	
40 05 19 00-1251 EA 14" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,477.39	495.17
<i>For Class 52 Rating, Deduct</i>	-519.98	
<i>For Class 54 Rating, Add</i>	718.07	
<i>For Class 55 Rating, Add</i>	1,072.15	
<i>For Class 56 Rating, Add</i>	1,421.51	
40 05 19 00-1252 EA 14" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,648.70	497.80
<i>For Class 52 Rating, Deduct</i>	-538.39	
<i>For Class 54 Rating, Add</i>	743.22	
<i>For Class 55 Rating, Add</i>	1,109.57	
<i>For Class 56 Rating, Add</i>	1,471.02	
40 05 19 00-1253 EA 14" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,820.02	500.42
<i>For Class 52 Rating, Deduct</i>	-556.80	
<i>For Class 54 Rating, Add</i>	768.37	
<i>For Class 55 Rating, Add</i>	1,146.98	
<i>For Class 56 Rating, Add</i>	1,520.53	
40 05 19 00-1254 EA 14" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,991.34	503.03
<i>For Class 52 Rating, Deduct</i>	-575.21	
<i>For Class 54 Rating, Add</i>	793.52	
<i>For Class 55 Rating, Add</i>	1,184.40	
<i>For Class 56 Rating, Add</i>	1,570.04	
40 05 19 00-1255 EA 14" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,162.66	505.65
<i>For Class 52 Rating, Deduct</i>	-593.62	
<i>For Class 54 Rating, Add</i>	818.67	
<i>For Class 55 Rating, Add</i>	1,221.81	
<i>For Class 56 Rating, Add</i>	1,619.55	
40 05 19 00-1256 EA 14" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,333.98	508.28
<i>For Class 52 Rating, Deduct</i>	-612.03	
<i>For Class 54 Rating, Add</i>	843.82	
<i>For Class 55 Rating, Add</i>	1,259.23	
<i>For Class 56 Rating, Add</i>	1,669.07	
40 05 19 00-1257 EA 14" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,505.30	510.89
<i>For Class 52 Rating, Deduct</i>	-630.43	
<i>For Class 54 Rating, Add</i>	868.97	
<i>For Class 55 Rating, Add</i>	1,296.64	
<i>For Class 56 Rating, Add</i>	1,718.58	
40 05 19 00-1258 EA 14" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,676.61	513.51
<i>For Class 52 Rating, Deduct</i>	-648.84	
<i>For Class 54 Rating, Add</i>	894.12	
<i>For Class 55 Rating, Add</i>	1,334.05	
<i>For Class 56 Rating, Add</i>	1,768.09	
40 05 19 00-1259 EA 14" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,847.92	516.14
<i>For Class 52 Rating, Deduct</i>	-667.25	
<i>For Class 54 Rating, Add</i>	919.27	
<i>For Class 55 Rating, Add</i>	1,371.47	
<i>For Class 56 Rating, Add</i>	1,817.60	
40 05 19 00-1260 EA 14" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,019.25	518.75
<i>For Class 52 Rating, Deduct</i>	-685.66	
<i>For Class 54 Rating, Add</i>	944.42	
<i>For Class 55 Rating, Add</i>	1,408.88	
<i>For Class 56 Rating, Add</i>	1,867.11	
40 05 19 00-1261 EA 14" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,190.57	521.37
<i>For Class 52 Rating, Deduct</i>	-704.07	
<i>For Class 54 Rating, Add</i>	969.57	
<i>For Class 55 Rating, Add</i>	1,446.30	
<i>For Class 56 Rating, Add</i>	1,916.62	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1262	EA	14" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,361.89	523.99
		<i>For Class 52 Rating, Deduct</i>	-722.48	
		<i>For Class 54 Rating, Add</i>	994.72	
		<i>For Class 55 Rating, Add</i>	1,483.71	
		<i>For Class 56 Rating, Add</i>	1,966.13	
40 05 19 00-1263	EA	14" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,533.20	526.62
		<i>For Class 52 Rating, Deduct</i>	-740.88	
		<i>For Class 54 Rating, Add</i>	1,019.87	
		<i>For Class 55 Rating, Add</i>	1,521.12	
		<i>For Class 56 Rating, Add</i>	2,015.64	
40 05 19 00-1264	EA	14" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,704.52	529.23
		<i>For Class 52 Rating, Deduct</i>	-759.29	
		<i>For Class 54 Rating, Add</i>	1,045.02	
		<i>For Class 55 Rating, Add</i>	1,558.54	
		<i>For Class 56 Rating, Add</i>	2,065.15	
40 05 19 00-1265	EA	14" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,875.84	531.85
		<i>For Class 52 Rating, Deduct</i>	-777.70	
		<i>For Class 54 Rating, Add</i>	1,070.17	
		<i>For Class 55 Rating, Add</i>	1,595.95	
		<i>For Class 56 Rating, Add</i>	2,114.66	
40 05 19 00-1266	EA	14" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,047.16	534.48
		<i>For Class 52 Rating, Deduct</i>	-796.11	
		<i>For Class 54 Rating, Add</i>	1,095.32	
		<i>For Class 55 Rating, Add</i>	1,633.36	
		<i>For Class 56 Rating, Add</i>	2,164.17	
40 05 19 00-1267	EA	14" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,218.47	537.09
		<i>For Class 52 Rating, Deduct</i>	-814.52	
		<i>For Class 54 Rating, Add</i>	1,120.47	
		<i>For Class 55 Rating, Add</i>	1,670.78	
		<i>For Class 56 Rating, Add</i>	2,213.68	
40 05 19 00-1268		16" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1269	EA	16" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,196.85	503.03
		<i>For Class 52 Rating, Deduct</i>	-157.81	
		<i>For Class 54 Rating, Add</i>	224.35	
		<i>For Class 55 Rating, Add</i>	338.23	
		<i>For Class 56 Rating, Add</i>	450.67	
40 05 19 00-1270	EA	16" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,396.38	505.65
		<i>For Class 52 Rating, Deduct</i>	-179.33	
		<i>For Class 54 Rating, Add</i>	253.73	
		<i>For Class 55 Rating, Add</i>	381.93	
		<i>For Class 56 Rating, Add</i>	508.50	
40 05 19 00-1271	EA	16" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,595.90	508.28
		<i>For Class 52 Rating, Deduct</i>	-200.84	
		<i>For Class 54 Rating, Add</i>	283.11	
		<i>For Class 55 Rating, Add</i>	425.63	
		<i>For Class 56 Rating, Add</i>	566.33	
40 05 19 00-1272	EA	16" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,795.42	510.89
		<i>For Class 52 Rating, Deduct</i>	-222.35	
		<i>For Class 54 Rating, Add</i>	312.49	
		<i>For Class 55 Rating, Add</i>	469.34	
		<i>For Class 56 Rating, Add</i>	624.16	
40 05 19 00-1273	EA	16" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,994.95	513.51
		<i>For Class 52 Rating, Deduct</i>	-243.86	
		<i>For Class 54 Rating, Add</i>	341.87	
		<i>For Class 55 Rating, Add</i>	513.04	
		<i>For Class 56 Rating, Add</i>	682.00	
40 05 19 00-1274	EA	16" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,194.46	516.14
		<i>For Class 52 Rating, Deduct</i>	-265.37	
		<i>For Class 54 Rating, Add</i>	371.25	
		<i>For Class 55 Rating, Add</i>	556.74	
		<i>For Class 56 Rating, Add</i>	739.83	
40 05 19 00-1275	EA	16" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,393.99	518.75
		<i>For Class 52 Rating, Deduct</i>	-286.88	
		<i>For Class 54 Rating, Add</i>	400.63	
		<i>For Class 55 Rating, Add</i>	600.45	
		<i>For Class 56 Rating, Add</i>	797.66	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1276 EA 16" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,593.52	521.37
For Class 52 Rating, Deduct	-308.39	
For Class 54 Rating, Add	430.01	
For Class 55 Rating, Add	644.15	
For Class 56 Rating, Add	855.49	
40 05 19 00-1277 EA 16" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,793.04	523.99
For Class 52 Rating, Deduct	-329.90	
For Class 54 Rating, Add	459.39	
For Class 55 Rating, Add	687.86	
For Class 56 Rating, Add	913.32	
40 05 19 00-1278 EA 16" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,992.55	526.62
For Class 52 Rating, Deduct	-351.41	
For Class 54 Rating, Add	488.77	
For Class 55 Rating, Add	731.56	
For Class 56 Rating, Add	971.15	
40 05 19 00-1279 EA 16" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,192.09	529.23
For Class 52 Rating, Deduct	-372.92	
For Class 54 Rating, Add	518.16	
For Class 55 Rating, Add	775.26	
For Class 56 Rating, Add	1,028.98	
40 05 19 00-1280 EA 16" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,391.61	531.85
For Class 52 Rating, Deduct	-394.43	
For Class 54 Rating, Add	547.54	
For Class 55 Rating, Add	818.97	
For Class 56 Rating, Add	1,086.81	
40 05 19 00-1281 EA 16" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,591.13	534.48
For Class 52 Rating, Deduct	-415.95	
For Class 54 Rating, Add	576.92	
For Class 55 Rating, Add	862.67	
For Class 56 Rating, Add	1,144.64	
40 05 19 00-1282 EA 16" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,790.65	537.09
For Class 52 Rating, Deduct	-437.46	
For Class 54 Rating, Add	606.30	
For Class 55 Rating, Add	906.37	
For Class 56 Rating, Add	1,202.48	
40 05 19 00-1283 EA 16" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,990.17	539.71
For Class 52 Rating, Deduct	-458.97	
For Class 54 Rating, Add	635.68	
For Class 55 Rating, Add	950.08	
For Class 56 Rating, Add	1,260.31	
40 05 19 00-1284 EA 16" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,189.70	542.33
For Class 52 Rating, Deduct	-480.48	
For Class 54 Rating, Add	665.06	
For Class 55 Rating, Add	993.78	
For Class 56 Rating, Add	1,318.14	
40 05 19 00-1285 EA 16" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,389.23	544.96
For Class 52 Rating, Deduct	-501.99	
For Class 54 Rating, Add	694.44	
For Class 55 Rating, Add	1,037.49	
For Class 56 Rating, Add	1,375.97	
40 05 19 00-1286 EA 16" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,588.74	547.57
For Class 52 Rating, Deduct	-523.50	
For Class 54 Rating, Add	723.82	
For Class 55 Rating, Add	1,081.19	
For Class 56 Rating, Add	1,433.80	
40 05 19 00-1287 EA 16" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,788.26	550.19
For Class 52 Rating, Deduct	-545.01	
For Class 54 Rating, Add	753.20	
For Class 55 Rating, Add	1,124.89	
For Class 56 Rating, Add	1,491.63	
40 05 19 00-1288 EA 16" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,987.80	552.82
For Class 52 Rating, Deduct	-566.52	
For Class 54 Rating, Add	782.58	
For Class 55 Rating, Add	1,168.60	
For Class 56 Rating, Add	1,549.46	
40 05 19 00-1289 EA 16" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,187.32	555.43
For Class 52 Rating, Deduct	-588.03	
For Class 54 Rating, Add	811.96	
For Class 55 Rating, Add	1,212.30	
For Class 56 Rating, Add	1,607.29	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1290	EA		16" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,386.83	558.05
			<i>For Class 52 Rating, Deduct</i>	-609.54	
			<i>For Class 54 Rating, Add</i>	841.34	
			<i>For Class 55 Rating, Add</i>	1,256.00	
			<i>For Class 56 Rating, Add</i>	1,665.12	
40 05 19 00-1291	EA		16" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,586.36	560.67
			<i>For Class 52 Rating, Deduct</i>	-631.05	
			<i>For Class 54 Rating, Add</i>	870.72	
			<i>For Class 55 Rating, Add</i>	1,299.71	
			<i>For Class 56 Rating, Add</i>	1,722.96	
40 05 19 00-1292	EA		16" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,785.88	563.29
			<i>For Class 52 Rating, Deduct</i>	-652.57	
			<i>For Class 54 Rating, Add</i>	900.10	
			<i>For Class 55 Rating, Add</i>	1,343.41	
			<i>For Class 56 Rating, Add</i>	1,780.79	
40 05 19 00-1293	EA		16" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,985.41	565.92
			<i>For Class 52 Rating, Deduct</i>	-674.08	
			<i>For Class 54 Rating, Add</i>	929.48	
			<i>For Class 55 Rating, Add</i>	1,387.11	
			<i>For Class 56 Rating, Add</i>	1,838.62	
40 05 19 00-1294	EA		16" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,184.93	568.53
			<i>For Class 52 Rating, Deduct</i>	-695.59	
			<i>For Class 54 Rating, Add</i>	958.86	
			<i>For Class 55 Rating, Add</i>	1,430.82	
			<i>For Class 56 Rating, Add</i>	1,896.45	
40 05 19 00-1295	EA		16" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,384.45	571.15
			<i>For Class 52 Rating, Deduct</i>	-717.10	
			<i>For Class 54 Rating, Add</i>	988.25	
			<i>For Class 55 Rating, Add</i>	1,474.52	
			<i>For Class 56 Rating, Add</i>	1,954.28	
40 05 19 00-1296	EA		16" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,583.97	573.77
			<i>For Class 52 Rating, Deduct</i>	-738.61	
			<i>For Class 54 Rating, Add</i>	1,017.63	
			<i>For Class 55 Rating, Add</i>	1,518.22	
			<i>For Class 56 Rating, Add</i>	2,012.11	
40 05 19 00-1297	EA		16" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,783.51	576.39
			<i>For Class 52 Rating, Deduct</i>	-760.12	
			<i>For Class 54 Rating, Add</i>	1,047.01	
			<i>For Class 55 Rating, Add</i>	1,561.93	
			<i>For Class 56 Rating, Add</i>	2,069.94	
40 05 19 00-1298	EA		16" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,983.02	579.01
			<i>For Class 52 Rating, Deduct</i>	-781.63	
			<i>For Class 54 Rating, Add</i>	1,076.39	
			<i>For Class 55 Rating, Add</i>	1,605.63	
			<i>For Class 56 Rating, Add</i>	2,127.77	
40 05 19 00-1299	EA		16" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,182.54	581.63
			<i>For Class 52 Rating, Deduct</i>	-803.14	
			<i>For Class 54 Rating, Add</i>	1,105.77	
			<i>For Class 55 Rating, Add</i>	1,649.34	
			<i>For Class 56 Rating, Add</i>	2,185.60	
40 05 19 00-1300	EA		16" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,382.07	584.26
			<i>For Class 52 Rating, Deduct</i>	-824.65	
			<i>For Class 54 Rating, Add</i>	1,135.15	
			<i>For Class 55 Rating, Add</i>	1,693.04	
			<i>For Class 56 Rating, Add</i>	2,243.44	
40 05 19 00-1301	EA		16" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,581.59	586.87
			<i>For Class 52 Rating, Deduct</i>	-846.16	
			<i>For Class 54 Rating, Add</i>	1,164.53	
			<i>For Class 55 Rating, Add</i>	1,736.74	
			<i>For Class 56 Rating, Add</i>	2,301.27	
40 05 19 00-1302	EA		16" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,781.11	589.49
			<i>For Class 52 Rating, Deduct</i>	-867.67	
			<i>For Class 54 Rating, Add</i>	1,193.91	
			<i>For Class 55 Rating, Add</i>	1,780.45	
			<i>For Class 56 Rating, Add</i>	2,359.10	
40 05 19 00-1303	EA		16" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,980.64	592.11
			<i>For Class 52 Rating, Deduct</i>	-889.19	
			<i>For Class 54 Rating, Add</i>	1,223.29	
			<i>For Class 55 Rating, Add</i>	1,824.15	
			<i>For Class 56 Rating, Add</i>	2,416.93	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1304 EA 16" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,180.16	594.73
<i>For Class 52 Rating, Deduct</i>	-910.70	
<i>For Class 54 Rating, Add</i>	1,252.67	
<i>For Class 55 Rating, Add</i>	1,867.85	
<i>For Class 56 Rating, Add</i>	2,474.76	
40 05 19 00-1305 EA 16" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,379.68	597.35
<i>For Class 52 Rating, Deduct</i>	-932.21	
<i>For Class 54 Rating, Add</i>	1,282.05	
<i>For Class 55 Rating, Add</i>	1,911.56	
<i>For Class 56 Rating, Add</i>	2,532.59	
40 05 19 00-1306 EA 16" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,579.21	599.97
<i>For Class 52 Rating, Deduct</i>	-953.72	
<i>For Class 54 Rating, Add</i>	1,311.43	
<i>For Class 55 Rating, Add</i>	1,955.26	
<i>For Class 56 Rating, Add</i>	2,590.42	
40 05 19 00-1307 18" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1308 EA 18" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,541.92	566.96
<i>For Class 52 Rating, Deduct</i>	-185.12	
<i>For Class 54 Rating, Add</i>	262.74	
<i>For Class 55 Rating, Add</i>	395.90	
<i>For Class 56 Rating, Add</i>	527.38	
40 05 19 00-1309 EA 18" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,771.52	569.59
<i>For Class 52 Rating, Deduct</i>	-209.94	
<i>For Class 54 Rating, Add</i>	296.63	
<i>For Class 55 Rating, Add</i>	446.31	
<i>For Class 56 Rating, Add</i>	594.08	
40 05 19 00-1310 EA 18" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,001.13	572.20
<i>For Class 52 Rating, Deduct</i>	-234.76	
<i>For Class 54 Rating, Add</i>	330.53	
<i>For Class 55 Rating, Add</i>	496.72	
<i>For Class 56 Rating, Add</i>	660.79	
40 05 19 00-1311 EA 18" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,230.75	574.82
<i>For Class 52 Rating, Deduct</i>	-259.58	
<i>For Class 54 Rating, Add</i>	364.42	
<i>For Class 55 Rating, Add</i>	547.14	
<i>For Class 56 Rating, Add</i>	727.50	
40 05 19 00-1312 EA 18" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,460.35	577.45
<i>For Class 52 Rating, Deduct</i>	-284.40	
<i>For Class 54 Rating, Add</i>	398.31	
<i>For Class 55 Rating, Add</i>	597.55	
<i>For Class 56 Rating, Add</i>	794.20	
40 05 19 00-1313 EA 18" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,689.96	580.05
<i>For Class 52 Rating, Deduct</i>	-309.22	
<i>For Class 54 Rating, Add</i>	432.21	
<i>For Class 55 Rating, Add</i>	647.96	
<i>For Class 56 Rating, Add</i>	860.91	
40 05 19 00-1314 EA 18" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,919.57	582.68
<i>For Class 52 Rating, Deduct</i>	-334.04	
<i>For Class 54 Rating, Add</i>	466.10	
<i>For Class 55 Rating, Add</i>	698.38	
<i>For Class 56 Rating, Add</i>	927.62	
40 05 19 00-1315 EA 18" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,149.18	585.30
<i>For Class 52 Rating, Deduct</i>	-358.86	
<i>For Class 54 Rating, Add</i>	500.00	
<i>For Class 55 Rating, Add</i>	748.79	
<i>For Class 56 Rating, Add</i>	994.32	
40 05 19 00-1316 EA 18" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,378.78	587.93
<i>For Class 52 Rating, Deduct</i>	-383.68	
<i>For Class 54 Rating, Add</i>	533.89	
<i>For Class 55 Rating, Add</i>	799.20	
<i>For Class 56 Rating, Add</i>	1,061.03	
40 05 19 00-1317 EA 18" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,608.39	590.54
<i>For Class 52 Rating, Deduct</i>	-408.50	
<i>For Class 54 Rating, Add</i>	567.78	
<i>For Class 55 Rating, Add</i>	849.61	
<i>For Class 56 Rating, Add</i>	1,127.73	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1318	EA		18" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,838.00	593.16
			<i>For Class 52 Rating, Deduct</i>	-433.32	
			<i>For Class 54 Rating, Add</i>	601.68	
			<i>For Class 55 Rating, Add</i>	900.03	
			<i>For Class 56 Rating, Add</i>	1,194.44	
40 05 19 00-1319	EA		18" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,067.60	595.78
			<i>For Class 52 Rating, Deduct</i>	-458.14	
			<i>For Class 54 Rating, Add</i>	635.57	
			<i>For Class 55 Rating, Add</i>	950.44	
			<i>For Class 56 Rating, Add</i>	1,261.15	
40 05 19 00-1320	EA		18" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,297.22	598.39
			<i>For Class 52 Rating, Deduct</i>	-482.96	
			<i>For Class 54 Rating, Add</i>	669.46	
			<i>For Class 55 Rating, Add</i>	1,000.85	
			<i>For Class 56 Rating, Add</i>	1,327.85	
40 05 19 00-1321	EA		18" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,526.83	601.02
			<i>For Class 52 Rating, Deduct</i>	-507.78	
			<i>For Class 54 Rating, Add</i>	703.36	
			<i>For Class 55 Rating, Add</i>	1,051.27	
			<i>For Class 56 Rating, Add</i>	1,394.56	
40 05 19 00-1322	EA		18" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,756.43	603.64
			<i>For Class 52 Rating, Deduct</i>	-532.60	
			<i>For Class 54 Rating, Add</i>	737.25	
			<i>For Class 55 Rating, Add</i>	1,101.68	
			<i>For Class 56 Rating, Add</i>	1,461.26	
40 05 19 00-1323	EA		18" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,986.03	606.26
			<i>For Class 52 Rating, Deduct</i>	-557.42	
			<i>For Class 54 Rating, Add</i>	771.14	
			<i>For Class 55 Rating, Add</i>	1,152.09	
			<i>For Class 56 Rating, Add</i>	1,527.97	
40 05 19 00-1324	EA		18" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,215.64	608.88
			<i>For Class 52 Rating, Deduct</i>	-582.24	
			<i>For Class 54 Rating, Add</i>	805.04	
			<i>For Class 55 Rating, Add</i>	1,202.50	
			<i>For Class 56 Rating, Add</i>	1,594.68	
40 05 19 00-1325	EA		18" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,445.26	611.50
			<i>For Class 52 Rating, Deduct</i>	-607.06	
			<i>For Class 54 Rating, Add</i>	838.93	
			<i>For Class 55 Rating, Add</i>	1,252.92	
			<i>For Class 56 Rating, Add</i>	1,661.38	
40 05 19 00-1326	EA		18" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,674.87	614.12
			<i>For Class 52 Rating, Deduct</i>	-631.88	
			<i>For Class 54 Rating, Add</i>	872.82	
			<i>For Class 55 Rating, Add</i>	1,303.33	
			<i>For Class 56 Rating, Add</i>	1,728.09	
40 05 19 00-1327	EA		18" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,904.47	616.73
			<i>For Class 52 Rating, Deduct</i>	-656.70	
			<i>For Class 54 Rating, Add</i>	906.72	
			<i>For Class 55 Rating, Add</i>	1,353.74	
			<i>For Class 56 Rating, Add</i>	1,794.80	
40 05 19 00-1328	EA		18" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,134.07	619.36
			<i>For Class 52 Rating, Deduct</i>	-681.52	
			<i>For Class 54 Rating, Add</i>	940.61	
			<i>For Class 55 Rating, Add</i>	1,404.15	
			<i>For Class 56 Rating, Add</i>	1,861.50	
40 05 19 00-1329	EA		18" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,363.69	621.98
			<i>For Class 52 Rating, Deduct</i>	-706.34	
			<i>For Class 54 Rating, Add</i>	974.50	
			<i>For Class 55 Rating, Add</i>	1,454.57	
			<i>For Class 56 Rating, Add</i>	1,928.21	
40 05 19 00-1330	EA		18" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,593.30	624.60
			<i>For Class 52 Rating, Deduct</i>	-731.16	
			<i>For Class 54 Rating, Add</i>	1,008.40	
			<i>For Class 55 Rating, Add</i>	1,504.98	
			<i>For Class 56 Rating, Add</i>	1,994.91	
40 05 19 00-1331	EA		18" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,822.90	627.22
			<i>For Class 52 Rating, Deduct</i>	-755.98	
			<i>For Class 54 Rating, Add</i>	1,042.29	
			<i>For Class 55 Rating, Add</i>	1,555.39	
			<i>For Class 56 Rating, Add</i>	2,061.62	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1332 EA 18" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,052.51	629.83
<i>For Class 52 Rating, Deduct</i>	-780.80	
<i>For Class 54 Rating, Add</i>	1,076.18	
<i>For Class 55 Rating, Add</i>	1,605.80	
<i>For Class 56 Rating, Add</i>	2,128.33	
40 05 19 00-1333 EA 18" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,282.12	632.46
<i>For Class 52 Rating, Deduct</i>	-805.62	
<i>For Class 54 Rating, Add</i>	1,110.08	
<i>For Class 55 Rating, Add</i>	1,656.22	
<i>For Class 56 Rating, Add</i>	2,195.03	
40 05 19 00-1334 EA 18" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,511.73	635.08
<i>For Class 52 Rating, Deduct</i>	-830.44	
<i>For Class 54 Rating, Add</i>	1,143.97	
<i>For Class 55 Rating, Add</i>	1,706.63	
<i>For Class 56 Rating, Add</i>	2,261.74	
40 05 19 00-1335 EA 18" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,741.33	637.70
<i>For Class 52 Rating, Deduct</i>	-855.26	
<i>For Class 54 Rating, Add</i>	1,177.86	
<i>For Class 55 Rating, Add</i>	1,757.04	
<i>For Class 56 Rating, Add</i>	2,328.44	
40 05 19 00-1336 EA 18" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,970.94	640.32
<i>For Class 52 Rating, Deduct</i>	-880.08	
<i>For Class 54 Rating, Add</i>	1,211.76	
<i>For Class 55 Rating, Add</i>	1,807.45	
<i>For Class 56 Rating, Add</i>	2,395.15	
40 05 19 00-1337 EA 18" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,200.55	642.94
<i>For Class 52 Rating, Deduct</i>	-904.90	
<i>For Class 54 Rating, Add</i>	1,245.65	
<i>For Class 55 Rating, Add</i>	1,857.87	
<i>For Class 56 Rating, Add</i>	2,461.86	
40 05 19 00-1338 EA 18" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,430.17	645.56
<i>For Class 52 Rating, Deduct</i>	-929.72	
<i>For Class 54 Rating, Add</i>	1,279.54	
<i>For Class 55 Rating, Add</i>	1,908.28	
<i>For Class 56 Rating, Add</i>	2,528.56	
40 05 19 00-1339 EA 18" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,659.77	648.17
<i>For Class 52 Rating, Deduct</i>	-954.54	
<i>For Class 54 Rating, Add</i>	1,313.44	
<i>For Class 55 Rating, Add</i>	1,958.69	
<i>For Class 56 Rating, Add</i>	2,595.27	
40 05 19 00-1340 EA 18" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,889.38	650.80
<i>For Class 52 Rating, Deduct</i>	-979.37	
<i>For Class 54 Rating, Add</i>	1,347.33	
<i>For Class 55 Rating, Add</i>	2,009.11	
<i>For Class 56 Rating, Add</i>	2,661.98	
40 05 19 00-1341 EA 18" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,118.98	653.42
<i>For Class 52 Rating, Deduct</i>	-1,004.18	
<i>For Class 54 Rating, Add</i>	1,381.22	
<i>For Class 55 Rating, Add</i>	2,059.52	
<i>For Class 56 Rating, Add</i>	2,728.68	
40 05 19 00-1342 EA 18" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,348.59	656.04
<i>For Class 52 Rating, Deduct</i>	-1,029.00	
<i>For Class 54 Rating, Add</i>	1,415.12	
<i>For Class 55 Rating, Add</i>	2,109.93	
<i>For Class 56 Rating, Add</i>	2,795.39	
40 05 19 00-1343 EA 18" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,578.20	658.66
<i>For Class 52 Rating, Deduct</i>	-1,053.83	
<i>For Class 54 Rating, Add</i>	1,449.01	
<i>For Class 55 Rating, Add</i>	2,160.34	
<i>For Class 56 Rating, Add</i>	2,862.09	
40 05 19 00-1344 EA 18" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,807.81	661.28
<i>For Class 52 Rating, Deduct</i>	-1,078.65	
<i>For Class 54 Rating, Add</i>	1,482.90	
<i>For Class 55 Rating, Add</i>	2,210.76	
<i>For Class 56 Rating, Add</i>	2,928.80	
40 05 19 00-1345 EA 18" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,037.42	663.90
<i>For Class 52 Rating, Deduct</i>	-1,103.47	
<i>For Class 54 Rating, Add</i>	1,516.80	
<i>For Class 55 Rating, Add</i>	2,261.17	
<i>For Class 56 Rating, Add</i>	2,995.51	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe


 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1346			20" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1347	EA		20" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,962.36	647.13
			For Class 52 Rating, Deduct	-218.00	
			For Class 54 Rating, Add	309.05	
			For Class 55 Rating, Add	465.49	
			For Class 56 Rating, Add	619.95	
40 05 19 00-1348	EA		20" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,225.81	649.76
			For Class 52 Rating, Deduct	-246.55	
			For Class 54 Rating, Add	348.01	
			For Class 55 Rating, Add	523.45	
			For Class 56 Rating, Add	696.64	
40 05 19 00-1349	EA		20" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,489.27	652.37
			For Class 52 Rating, Deduct	-275.09	
			For Class 54 Rating, Add	386.99	
			For Class 55 Rating, Add	581.41	
			For Class 56 Rating, Add	773.33	
40 05 19 00-1350	EA		20" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,752.72	654.99
			For Class 52 Rating, Deduct	-303.63	
			For Class 54 Rating, Add	425.96	
			For Class 55 Rating, Add	639.37	
			For Class 56 Rating, Add	850.02	
40 05 19 00-1351	EA		20" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,016.17	657.62
			For Class 52 Rating, Deduct	-332.18	
			For Class 54 Rating, Add	464.93	
			For Class 55 Rating, Add	697.33	
			For Class 56 Rating, Add	926.71	
40 05 19 00-1352	EA		20" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,279.63	660.22
			For Class 52 Rating, Deduct	-360.72	
			For Class 54 Rating, Add	503.90	
			For Class 55 Rating, Add	755.29	
			For Class 56 Rating, Add	1,003.40	
40 05 19 00-1353	EA		20" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,543.08	662.85
			For Class 52 Rating, Deduct	-389.26	
			For Class 54 Rating, Add	542.87	
			For Class 55 Rating, Add	813.25	
			For Class 56 Rating, Add	1,080.09	
40 05 19 00-1354	EA		20" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,806.54	665.47
			For Class 52 Rating, Deduct	-417.81	
			For Class 54 Rating, Add	581.84	
			For Class 55 Rating, Add	871.21	
			For Class 56 Rating, Add	1,156.78	
40 05 19 00-1355	EA		20" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,069.99	668.10
			For Class 52 Rating, Deduct	-446.35	
			For Class 54 Rating, Add	620.81	
			For Class 55 Rating, Add	929.17	
			For Class 56 Rating, Add	1,233.47	
40 05 19 00-1356	EA		20" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,333.43	670.71
			For Class 52 Rating, Deduct	-474.89	
			For Class 54 Rating, Add	659.78	
			For Class 55 Rating, Add	987.13	
			For Class 56 Rating, Add	1,310.16	
40 05 19 00-1357	EA		20" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,596.90	673.33
			For Class 52 Rating, Deduct	-503.44	
			For Class 54 Rating, Add	698.75	
			For Class 55 Rating, Add	1,045.09	
			For Class 56 Rating, Add	1,386.85	
40 05 19 00-1358	EA		20" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,860.35	675.96
			For Class 52 Rating, Deduct	-531.98	
			For Class 54 Rating, Add	737.72	
			For Class 55 Rating, Add	1,103.05	
			For Class 56 Rating, Add	1,463.54	
40 05 19 00-1359	EA		20" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,123.81	678.56
			For Class 52 Rating, Deduct	-560.52	
			For Class 54 Rating, Add	776.69	
			For Class 55 Rating, Add	1,161.01	
			For Class 56 Rating, Add	1,540.24	
40 05 19 00-1360	EA		20" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,387.25	681.19
			For Class 52 Rating, Deduct	-589.07	
			For Class 54 Rating, Add	815.66	
			For Class 55 Rating, Add	1,218.97	
			For Class 56 Rating, Add	1,616.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1361 EA 20" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,650.72	683.81
<i>For Class 52 Rating, Deduct</i>	-617.61	
<i>For Class 54 Rating, Add</i>	854.63	
<i>For Class 55 Rating, Add</i>	1,276.93	
<i>For Class 56 Rating, Add</i>	1,693.62	
40 05 19 00-1362 EA 20" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,914.17	686.44
<i>For Class 52 Rating, Deduct</i>	-646.15	
<i>For Class 54 Rating, Add</i>	893.60	
<i>For Class 55 Rating, Add</i>	1,334.89	
<i>For Class 56 Rating, Add</i>	1,770.31	
40 05 19 00-1363 EA 20" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,177.62	689.05
<i>For Class 52 Rating, Deduct</i>	-674.70	
<i>For Class 54 Rating, Add</i>	932.57	
<i>For Class 55 Rating, Add</i>	1,392.85	
<i>For Class 56 Rating, Add</i>	1,847.00	
40 05 19 00-1364 EA 20" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,441.07	691.67
<i>For Class 52 Rating, Deduct</i>	-703.24	
<i>For Class 54 Rating, Add</i>	971.54	
<i>For Class 55 Rating, Add</i>	1,450.81	
<i>For Class 56 Rating, Add</i>	1,923.69	
40 05 19 00-1365 EA 20" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,704.52	694.29
<i>For Class 52 Rating, Deduct</i>	-731.78	
<i>For Class 54 Rating, Add</i>	1,010.51	
<i>For Class 55 Rating, Add</i>	1,508.77	
<i>For Class 56 Rating, Add</i>	2,000.38	
40 05 19 00-1366 EA 20" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,967.99	696.91
<i>For Class 52 Rating, Deduct</i>	-760.33	
<i>For Class 54 Rating, Add</i>	1,049.48	
<i>For Class 55 Rating, Add</i>	1,566.73	
<i>For Class 56 Rating, Add</i>	2,077.07	
40 05 19 00-1367 EA 20" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,231.43	699.53
<i>For Class 52 Rating, Deduct</i>	-788.87	
<i>For Class 54 Rating, Add</i>	1,088.45	
<i>For Class 55 Rating, Add</i>	1,624.69	
<i>For Class 56 Rating, Add</i>	2,153.76	
40 05 19 00-1368 EA 20" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,494.88	702.15
<i>For Class 52 Rating, Deduct</i>	-817.41	
<i>For Class 54 Rating, Add</i>	1,127.42	
<i>For Class 55 Rating, Add</i>	1,682.65	
<i>For Class 56 Rating, Add</i>	2,230.45	
40 05 19 00-1369 EA 20" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,758.34	704.77
<i>For Class 52 Rating, Deduct</i>	-845.96	
<i>For Class 54 Rating, Add</i>	1,166.39	
<i>For Class 55 Rating, Add</i>	1,740.61	
<i>For Class 56 Rating, Add</i>	2,307.14	
40 05 19 00-1370 EA 20" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,021.80	707.39
<i>For Class 52 Rating, Deduct</i>	-874.50	
<i>For Class 54 Rating, Add</i>	1,205.36	
<i>For Class 55 Rating, Add</i>	1,798.57	
<i>For Class 56 Rating, Add</i>	2,383.83	
40 05 19 00-1371 EA 20" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,285.25	710.01
<i>For Class 52 Rating, Deduct</i>	-903.04	
<i>For Class 54 Rating, Add</i>	1,244.33	
<i>For Class 55 Rating, Add</i>	1,856.53	
<i>For Class 56 Rating, Add</i>	2,460.52	
40 05 19 00-1372 EA 20" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,548.70	712.63
<i>For Class 52 Rating, Deduct</i>	-931.59	
<i>For Class 54 Rating, Add</i>	1,283.30	
<i>For Class 55 Rating, Add</i>	1,914.49	
<i>For Class 56 Rating, Add</i>	2,537.21	
40 05 19 00-1373 EA 20" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,812.16	715.25
<i>For Class 52 Rating, Deduct</i>	-960.13	
<i>For Class 54 Rating, Add</i>	1,322.27	
<i>For Class 55 Rating, Add</i>	1,972.45	
<i>For Class 56 Rating, Add</i>	2,613.91	
40 05 19 00-1374 EA 20" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,075.61	717.87
<i>For Class 52 Rating, Deduct</i>	-988.67	
<i>For Class 54 Rating, Add</i>	1,361.24	
<i>For Class 55 Rating, Add</i>	2,030.41	
<i>For Class 56 Rating, Add</i>	2,690.60	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1375	EA		20" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,339.06	720.49
			<i>For Class 52 Rating, Deduct</i>	-1,017.22	
			<i>For Class 54 Rating, Add</i>	1,400.21	
			<i>For Class 55 Rating, Add</i>	2,088.37	
			<i>For Class 56 Rating, Add</i>	2,767.29	
40 05 19 00-1376	EA		20" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,602.52	723.11
			<i>For Class 52 Rating, Deduct</i>	-1,045.76	
			<i>For Class 54 Rating, Add</i>	1,439.18	
			<i>For Class 55 Rating, Add</i>	2,146.33	
			<i>For Class 56 Rating, Add</i>	2,843.98	
40 05 19 00-1377	EA		20" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,865.97	725.73
			<i>For Class 52 Rating, Deduct</i>	-1,074.30	
			<i>For Class 54 Rating, Add</i>	1,478.15	
			<i>For Class 55 Rating, Add</i>	2,204.29	
			<i>For Class 56 Rating, Add</i>	2,920.67	
40 05 19 00-1378	EA		20" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,129.43	728.34
			<i>For Class 52 Rating, Deduct</i>	-1,102.85	
			<i>For Class 54 Rating, Add</i>	1,517.12	
			<i>For Class 55 Rating, Add</i>	2,262.25	
			<i>For Class 56 Rating, Add</i>	2,997.36	
40 05 19 00-1379	EA		20" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,392.88	730.97
			<i>For Class 52 Rating, Deduct</i>	-1,131.39	
			<i>For Class 54 Rating, Add</i>	1,556.09	
			<i>For Class 55 Rating, Add</i>	2,320.21	
			<i>For Class 56 Rating, Add</i>	3,074.05	
40 05 19 00-1380	EA		20" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,656.33	733.59
			<i>For Class 52 Rating, Deduct</i>	-1,159.93	
			<i>For Class 54 Rating, Add</i>	1,595.06	
			<i>For Class 55 Rating, Add</i>	2,378.17	
			<i>For Class 56 Rating, Add</i>	3,150.74	
40 05 19 00-1381	EA		20" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,919.79	736.21
			<i>For Class 52 Rating, Deduct</i>	-1,188.48	
			<i>For Class 54 Rating, Add</i>	1,634.03	
			<i>For Class 55 Rating, Add</i>	2,436.13	
			<i>For Class 56 Rating, Add</i>	3,227.43	
40 05 19 00-1382	EA		20" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,183.24	738.83
			<i>For Class 52 Rating, Deduct</i>	-1,217.02	
			<i>For Class 54 Rating, Add</i>	1,673.00	
			<i>For Class 55 Rating, Add</i>	2,494.09	
			<i>For Class 56 Rating, Add</i>	3,304.12	
40 05 19 00-1383	EA		20" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,446.69	741.45
			<i>For Class 52 Rating, Deduct</i>	-1,245.56	
			<i>For Class 54 Rating, Add</i>	1,711.97	
			<i>For Class 55 Rating, Add</i>	2,552.06	
			<i>For Class 56 Rating, Add</i>	3,380.81	
40 05 19 00-1384	EA		20" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,710.15	744.07
			<i>For Class 52 Rating, Deduct</i>	-1,274.10	
			<i>For Class 54 Rating, Add</i>	1,750.94	
			<i>For Class 55 Rating, Add</i>	2,610.01	
			<i>For Class 56 Rating, Add</i>	3,457.50	
40 05 19 00-1385			24" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1386	EA		24" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,633.63	765.02
			<i>For Class 52 Rating, Deduct</i>	-272.20	
			<i>For Class 54 Rating, Add</i>	385.08	
			<i>For Class 55 Rating, Add</i>	579.63	
			<i>For Class 56 Rating, Add</i>	771.71	
40 05 19 00-1387	EA		24" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,959.15	767.65
			<i>For Class 52 Rating, Deduct</i>	-307.56	
			<i>For Class 54 Rating, Add</i>	433.36	
			<i>For Class 55 Rating, Add</i>	651.43	
			<i>For Class 56 Rating, Add</i>	866.70	
40 05 19 00-1388	EA		24" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,284.65	770.27
			<i>For Class 52 Rating, Deduct</i>	-342.93	
			<i>For Class 54 Rating, Add</i>	481.64	
			<i>For Class 55 Rating, Add</i>	723.23	
			<i>For Class 56 Rating, Add</i>	961.70	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1389 EA 24" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,610.15	772.89
For Class 52 Rating, Deduct	-378.30	
For Class 54 Rating, Add	529.92	
For Class 55 Rating, Add	795.03	
For Class 56 Rating, Add	1,056.69	
40 05 19 00-1390 EA 24" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,935.65	775.51
For Class 52 Rating, Deduct	-413.67	
For Class 54 Rating, Add	578.20	
For Class 55 Rating, Add	866.82	
For Class 56 Rating, Add	1,151.69	
40 05 19 00-1391 EA 24" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,261.16	778.13
For Class 52 Rating, Deduct	-449.04	
For Class 54 Rating, Add	626.47	
For Class 55 Rating, Add	938.62	
For Class 56 Rating, Add	1,246.68	
40 05 19 00-1392 EA 24" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,586.67	780.76
For Class 52 Rating, Deduct	-484.41	
For Class 54 Rating, Add	674.75	
For Class 55 Rating, Add	1,010.42	
For Class 56 Rating, Add	1,341.68	
40 05 19 00-1393 EA 24" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,912.16	783.36
For Class 52 Rating, Deduct	-519.78	
For Class 54 Rating, Add	723.03	
For Class 55 Rating, Add	1,082.21	
For Class 56 Rating, Add	1,436.67	
40 05 19 00-1394 EA 24" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,237.67	785.99
For Class 52 Rating, Deduct	-555.15	
For Class 54 Rating, Add	771.31	
For Class 55 Rating, Add	1,154.01	
For Class 56 Rating, Add	1,531.67	
40 05 19 00-1395 EA 24" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,563.17	788.61
For Class 52 Rating, Deduct	-590.51	
For Class 54 Rating, Add	819.58	
For Class 55 Rating, Add	1,225.81	
For Class 56 Rating, Add	1,626.67	
40 05 19 00-1396 EA 24" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,888.69	791.23
For Class 52 Rating, Deduct	-625.88	
For Class 54 Rating, Add	867.86	
For Class 55 Rating, Add	1,297.61	
For Class 56 Rating, Add	1,721.66	
40 05 19 00-1397 EA 24" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,214.18	793.85
For Class 52 Rating, Deduct	-661.25	
For Class 54 Rating, Add	916.14	
For Class 55 Rating, Add	1,369.40	
For Class 56 Rating, Add	1,816.66	
40 05 19 00-1398 EA 24" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,539.69	796.47
For Class 52 Rating, Deduct	-696.62	
For Class 54 Rating, Add	964.42	
For Class 55 Rating, Add	1,441.20	
For Class 56 Rating, Add	1,911.66	
40 05 19 00-1399 EA 24" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,865.19	799.10
For Class 52 Rating, Deduct	-731.99	
For Class 54 Rating, Add	1,012.70	
For Class 55 Rating, Add	1,513.00	
For Class 56 Rating, Add	2,006.65	
40 05 19 00-1400 EA 24" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,190.69	801.70
For Class 52 Rating, Deduct	-767.36	
For Class 54 Rating, Add	1,060.97	
For Class 55 Rating, Add	1,584.80	
For Class 56 Rating, Add	2,101.65	
40 05 19 00-1401 EA 24" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,516.20	804.33
For Class 52 Rating, Deduct	-802.73	
For Class 54 Rating, Add	1,109.25	
For Class 55 Rating, Add	1,656.60	
For Class 56 Rating, Add	2,196.64	
40 05 19 00-1402 EA 24" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,841.71	806.95
For Class 52 Rating, Deduct	-838.10	
For Class 54 Rating, Add	1,157.53	
For Class 55 Rating, Add	1,728.39	
For Class 56 Rating, Add	2,291.64	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1403	EA		24" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,167.21	809.56
			<i>For Class 52 Rating, Deduct</i>	-873.46	
			<i>For Class 54 Rating, Add</i>	1,205.81	
			<i>For Class 55 Rating, Add</i>	1,800.19	
			<i>For Class 56 Rating, Add</i>	2,386.63	
40 05 19 00-1404	EA		24" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,492.71	812.19
			<i>For Class 52 Rating, Deduct</i>	-908.83	
			<i>For Class 54 Rating, Add</i>	1,254.09	
			<i>For Class 55 Rating, Add</i>	1,871.99	
			<i>For Class 56 Rating, Add</i>	2,481.63	
40 05 19 00-1405	EA		24" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,818.22	814.81
			<i>For Class 52 Rating, Deduct</i>	-944.20	
			<i>For Class 54 Rating, Add</i>	1,302.36	
			<i>For Class 55 Rating, Add</i>	1,943.79	
			<i>For Class 56 Rating, Add</i>	2,576.62	
40 05 19 00-1406	EA		24" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,143.73	817.43
			<i>For Class 52 Rating, Deduct</i>	-979.57	
			<i>For Class 54 Rating, Add</i>	1,350.64	
			<i>For Class 55 Rating, Add</i>	2,015.58	
			<i>For Class 56 Rating, Add</i>	2,671.62	
40 05 19 00-1407	EA		24" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,469.23	820.04
			<i>For Class 52 Rating, Deduct</i>	-1,014.94	
			<i>For Class 54 Rating, Add</i>	1,398.92	
			<i>For Class 55 Rating, Add</i>	2,087.38	
			<i>For Class 56 Rating, Add</i>	2,766.62	
40 05 19 00-1408	EA		24" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,794.72	822.67
			<i>For Class 52 Rating, Deduct</i>	-1,050.31	
			<i>For Class 54 Rating, Add</i>	1,447.20	
			<i>For Class 55 Rating, Add</i>	2,159.18	
			<i>For Class 56 Rating, Add</i>	2,861.61	
40 05 19 00-1409	EA		24" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,120.23	825.29
			<i>For Class 52 Rating, Deduct</i>	-1,085.68	
			<i>For Class 54 Rating, Add</i>	1,495.48	
			<i>For Class 55 Rating, Add</i>	2,230.98	
			<i>For Class 56 Rating, Add</i>	2,956.61	
40 05 19 00-1410	EA		24" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,445.74	827.91
			<i>For Class 52 Rating, Deduct</i>	-1,121.05	
			<i>For Class 54 Rating, Add</i>	1,543.75	
			<i>For Class 55 Rating, Add</i>	2,302.77	
			<i>For Class 56 Rating, Add</i>	3,051.60	
40 05 19 00-1411	EA		24" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,771.25	830.53
			<i>For Class 52 Rating, Deduct</i>	-1,156.42	
			<i>For Class 54 Rating, Add</i>	1,592.03	
			<i>For Class 55 Rating, Add</i>	2,374.57	
			<i>For Class 56 Rating, Add</i>	3,146.60	
40 05 19 00-1412	EA		24" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,096.74	833.15
			<i>For Class 52 Rating, Deduct</i>	-1,191.78	
			<i>For Class 54 Rating, Add</i>	1,640.31	
			<i>For Class 55 Rating, Add</i>	2,446.37	
			<i>For Class 56 Rating, Add</i>	3,241.59	
40 05 19 00-1413	EA		24" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,422.25	835.77
			<i>For Class 52 Rating, Deduct</i>	-1,227.15	
			<i>For Class 54 Rating, Add</i>	1,688.59	
			<i>For Class 55 Rating, Add</i>	2,518.17	
			<i>For Class 56 Rating, Add</i>	3,336.59	
40 05 19 00-1414	EA		24" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,747.76	838.38
			<i>For Class 52 Rating, Deduct</i>	-1,262.52	
			<i>For Class 54 Rating, Add</i>	1,736.86	
			<i>For Class 55 Rating, Add</i>	2,589.96	
			<i>For Class 56 Rating, Add</i>	3,431.58	
40 05 19 00-1415	EA		24" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,140.75	885.54
			<i>For Class 52 Rating, Deduct</i>	-1,297.89	
			<i>For Class 54 Rating, Add</i>	1,785.95	
			<i>For Class 55 Rating, Add</i>	2,663.38	
			<i>For Class 56 Rating, Add</i>	3,529.01	
40 05 19 00-1416	EA		24" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,466.25	888.16
			<i>For Class 52 Rating, Deduct</i>	-1,333.26	
			<i>For Class 54 Rating, Add</i>	1,834.23	
			<i>For Class 55 Rating, Add</i>	2,735.18	
			<i>For Class 56 Rating, Add</i>	3,624.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1417 EA 24" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,791.76	890.79
<i>For Class 52 Rating, Deduct</i>	-1,368.63	
<i>For Class 54 Rating, Add</i>	1,882.51	
<i>For Class 55 Rating, Add</i>	2,806.98	
<i>For Class 56 Rating, Add</i>	3,719.00	
40 05 19 00-1418 EA 24" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,117.26	893.41
<i>For Class 52 Rating, Deduct</i>	-1,404.00	
<i>For Class 54 Rating, Add</i>	1,930.79	
<i>For Class 55 Rating, Add</i>	2,878.77	
<i>For Class 56 Rating, Add</i>	3,814.00	
40 05 19 00-1419 EA 24" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,442.76	896.03
<i>For Class 52 Rating, Deduct</i>	-1,439.37	
<i>For Class 54 Rating, Add</i>	1,979.06	
<i>For Class 55 Rating, Add</i>	2,950.57	
<i>For Class 56 Rating, Add</i>	3,908.99	
40 05 19 00-1420 EA 24" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,768.27	898.65
<i>For Class 52 Rating, Deduct</i>	-1,474.73	
<i>For Class 54 Rating, Add</i>	2,027.34	
<i>For Class 55 Rating, Add</i>	3,022.37	
<i>For Class 56 Rating, Add</i>	4,003.99	
40 05 19 00-1421 EA 24" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,093.78	901.27
<i>For Class 52 Rating, Deduct</i>	-1,510.10	
<i>For Class 54 Rating, Add</i>	2,075.62	
<i>For Class 55 Rating, Add</i>	3,094.17	
<i>For Class 56 Rating, Add</i>	4,098.99	
40 05 19 00-1422 EA 24" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,419.27	903.88
<i>For Class 52 Rating, Deduct</i>	-1,545.47	
<i>For Class 54 Rating, Add</i>	2,123.90	
<i>For Class 55 Rating, Add</i>	3,165.96	
<i>For Class 56 Rating, Add</i>	4,193.98	
40 05 19 00-1423 EA 24" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,744.78	906.50
<i>For Class 52 Rating, Deduct</i>	-1,580.84	
<i>For Class 54 Rating, Add</i>	2,172.18	
<i>For Class 55 Rating, Add</i>	3,237.76	
<i>For Class 56 Rating, Add</i>	4,288.98	
40 05 19 00-1424 30" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1425 EA 30" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,546.56	1,079.43
<i>For Class 52 Rating, Deduct</i>	-430.22	
<i>For Class 54 Rating, Add</i>	606.29	
<i>For Class 55 Rating, Add</i>	911.42	
<i>For Class 56 Rating, Add</i>	1,212.64	
40 05 19 00-1426 EA 30" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,014.96	1,082.04
<i>For Class 52 Rating, Deduct</i>	-481.31	
<i>For Class 54 Rating, Add</i>	676.00	
<i>For Class 55 Rating, Add</i>	1,015.08	
<i>For Class 56 Rating, Add</i>	1,349.79	
40 05 19 00-1427 EA 30" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,483.37	1,084.66
<i>For Class 52 Rating, Deduct</i>	-532.39	
<i>For Class 54 Rating, Add</i>	745.71	
<i>For Class 55 Rating, Add</i>	1,118.75	
<i>For Class 56 Rating, Add</i>	1,486.95	
40 05 19 00-1428 EA 30" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,951.79	1,087.29
<i>For Class 52 Rating, Deduct</i>	-583.48	
<i>For Class 54 Rating, Add</i>	815.43	
<i>For Class 55 Rating, Add</i>	1,222.41	
<i>For Class 56 Rating, Add</i>	1,624.10	
40 05 19 00-1429 EA 30" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,420.19	1,089.91
<i>For Class 52 Rating, Deduct</i>	-634.57	
<i>For Class 54 Rating, Add</i>	885.14	
<i>For Class 55 Rating, Add</i>	1,326.08	
<i>For Class 56 Rating, Add</i>	1,761.25	
40 05 19 00-1430 EA 30" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,888.60	1,092.52
<i>For Class 52 Rating, Deduct</i>	-685.66	
<i>For Class 54 Rating, Add</i>	954.85	
<i>For Class 55 Rating, Add</i>	1,429.75	
<i>For Class 56 Rating, Add</i>	1,898.40	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1431	EA		30" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,357.01	1,095.15
			<i>For Class 52 Rating, Deduct</i>	-736.75	
			<i>For Class 54 Rating, Add</i>	1,024.57	
			<i>For Class 55 Rating, Add</i>	1,533.41	
			<i>For Class 56 Rating, Add</i>	2,035.56	
40 05 19 00-1432	EA		30" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,825.42	1,097.76
			<i>For Class 52 Rating, Deduct</i>	-787.84	
			<i>For Class 54 Rating, Add</i>	1,094.28	
			<i>For Class 55 Rating, Add</i>	1,637.08	
			<i>For Class 56 Rating, Add</i>	2,172.71	
40 05 19 00-1433	EA		30" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,293.83	1,100.38
			<i>For Class 52 Rating, Deduct</i>	-838.92	
			<i>For Class 54 Rating, Add</i>	1,163.99	
			<i>For Class 55 Rating, Add</i>	1,740.74	
			<i>For Class 56 Rating, Add</i>	2,309.86	
40 05 19 00-1434	EA		30" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,762.24	1,103.00
			<i>For Class 52 Rating, Deduct</i>	-890.01	
			<i>For Class 54 Rating, Add</i>	1,233.71	
			<i>For Class 55 Rating, Add</i>	1,844.41	
			<i>For Class 56 Rating, Add</i>	2,447.01	
40 05 19 00-1435	EA		30" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,230.65	1,105.63
			<i>For Class 52 Rating, Deduct</i>	-941.10	
			<i>For Class 54 Rating, Add</i>	1,303.42	
			<i>For Class 55 Rating, Add</i>	1,948.07	
			<i>For Class 56 Rating, Add</i>	2,584.17	
40 05 19 00-1436	EA		30" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,699.05	1,108.25
			<i>For Class 52 Rating, Deduct</i>	-992.19	
			<i>For Class 54 Rating, Add</i>	1,373.13	
			<i>For Class 55 Rating, Add</i>	2,051.74	
			<i>For Class 56 Rating, Add</i>	2,721.32	
40 05 19 00-1437	EA		30" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,167.46	1,110.86
			<i>For Class 52 Rating, Deduct</i>	-1,043.28	
			<i>For Class 54 Rating, Add</i>	1,442.85	
			<i>For Class 55 Rating, Add</i>	2,155.40	
			<i>For Class 56 Rating, Add</i>	2,858.47	
40 05 19 00-1438	EA		30" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,635.87	1,113.49
			<i>For Class 52 Rating, Deduct</i>	-1,094.36	
			<i>For Class 54 Rating, Add</i>	1,512.56	
			<i>For Class 55 Rating, Add</i>	2,259.07	
			<i>For Class 56 Rating, Add</i>	2,995.62	
40 05 19 00-1439	EA		30" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,104.28	1,116.10
			<i>For Class 52 Rating, Deduct</i>	-1,145.45	
			<i>For Class 54 Rating, Add</i>	1,582.27	
			<i>For Class 55 Rating, Add</i>	2,362.73	
			<i>For Class 56 Rating, Add</i>	3,132.78	
40 05 19 00-1440	EA		30" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,572.68	1,118.72
			<i>For Class 52 Rating, Deduct</i>	-1,196.54	
			<i>For Class 54 Rating, Add</i>	1,651.99	
			<i>For Class 55 Rating, Add</i>	2,466.40	
			<i>For Class 56 Rating, Add</i>	3,269.93	
40 05 19 00-1441	EA		30" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,041.09	1,121.34
			<i>For Class 52 Rating, Deduct</i>	-1,247.63	
			<i>For Class 54 Rating, Add</i>	1,721.70	
			<i>For Class 55 Rating, Add</i>	2,570.06	
			<i>For Class 56 Rating, Add</i>	3,407.08	
40 05 19 00-1442	EA		30" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,509.51	1,123.97
			<i>For Class 52 Rating, Deduct</i>	-1,298.72	
			<i>For Class 54 Rating, Add</i>	1,791.42	
			<i>For Class 55 Rating, Add</i>	2,673.73	
			<i>For Class 56 Rating, Add</i>	3,544.23	
40 05 19 00-1443	EA		30" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,977.92	1,126.59
			<i>For Class 52 Rating, Deduct</i>	-1,349.81	
			<i>For Class 54 Rating, Add</i>	1,861.13	
			<i>For Class 55 Rating, Add</i>	2,777.39	
			<i>For Class 56 Rating, Add</i>	3,681.39	
40 05 19 00-1444	EA		30" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,446.32	1,129.20
			<i>For Class 52 Rating, Deduct</i>	-1,400.90	
			<i>For Class 54 Rating, Add</i>	1,930.84	
			<i>For Class 55 Rating, Add</i>	2,881.06	
			<i>For Class 56 Rating, Add</i>	3,818.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1445 EA 30" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,914.73	1,131.82
<i>For Class 52 Rating, Deduct</i>	-1,451.98	
<i>For Class 54 Rating, Add</i>	2,000.56	
<i>For Class 55 Rating, Add</i>	2,984.72	
<i>For Class 56 Rating, Add</i>	3,955.69	
40 05 19 00-1446 EA 30" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,383.15	1,134.44
<i>For Class 52 Rating, Deduct</i>	-1,503.07	
<i>For Class 54 Rating, Add</i>	2,070.27	
<i>For Class 55 Rating, Add</i>	3,088.39	
<i>For Class 56 Rating, Add</i>	4,092.84	
40 05 19 00-1447 EA 30" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,851.55	1,137.06
<i>For Class 52 Rating, Deduct</i>	-1,554.16	
<i>For Class 54 Rating, Add</i>	2,139.98	
<i>For Class 55 Rating, Add</i>	3,192.05	
<i>For Class 56 Rating, Add</i>	4,229.99	
40 05 19 00-1448 EA 30" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,319.95	1,139.68
<i>For Class 52 Rating, Deduct</i>	-1,605.25	
<i>For Class 54 Rating, Add</i>	2,209.70	
<i>For Class 55 Rating, Add</i>	3,295.72	
<i>For Class 56 Rating, Add</i>	4,367.15	
40 05 19 00-1449 EA 30" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,788.36	1,142.31
<i>For Class 52 Rating, Deduct</i>	-1,656.34	
<i>For Class 54 Rating, Add</i>	2,279.41	
<i>For Class 55 Rating, Add</i>	3,399.38	
<i>For Class 56 Rating, Add</i>	4,504.30	
40 05 19 00-1450 EA 30" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,256.77	1,144.93
<i>For Class 52 Rating, Deduct</i>	-1,707.42	
<i>For Class 54 Rating, Add</i>	2,349.12	
<i>For Class 55 Rating, Add</i>	3,503.05	
<i>For Class 56 Rating, Add</i>	4,641.45	
40 05 19 00-1451 EA 30" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,725.19	1,147.54
<i>For Class 52 Rating, Deduct</i>	-1,758.51	
<i>For Class 54 Rating, Add</i>	2,418.84	
<i>For Class 55 Rating, Add</i>	3,606.71	
<i>For Class 56 Rating, Add</i>	4,778.61	
40 05 19 00-1452 EA 30" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,193.59	1,150.16
<i>For Class 52 Rating, Deduct</i>	-1,809.60	
<i>For Class 54 Rating, Add</i>	2,488.55	
<i>For Class 55 Rating, Add</i>	3,710.38	
<i>For Class 56 Rating, Add</i>	4,915.76	
40 05 19 00-1453 EA 30" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,662.00	1,152.78
<i>For Class 52 Rating, Deduct</i>	-1,860.69	
<i>For Class 54 Rating, Add</i>	2,558.26	
<i>For Class 55 Rating, Add</i>	3,814.04	
<i>For Class 56 Rating, Add</i>	5,052.91	
40 05 19 00-1454 EA 30" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,130.41	1,155.41
<i>For Class 52 Rating, Deduct</i>	-1,911.78	
<i>For Class 54 Rating, Add</i>	2,627.98	
<i>For Class 55 Rating, Add</i>	3,917.71	
<i>For Class 56 Rating, Add</i>	5,190.06	
40 05 19 00-1455 EA 30" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,598.82	1,158.02
<i>For Class 52 Rating, Deduct</i>	-1,962.87	
<i>For Class 54 Rating, Add</i>	2,697.69	
<i>For Class 55 Rating, Add</i>	4,021.38	
<i>For Class 56 Rating, Add</i>	5,327.22	
40 05 19 00-1456 EA 30" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,067.23	1,160.65
<i>For Class 52 Rating, Deduct</i>	-2,013.95	
<i>For Class 54 Rating, Add</i>	2,767.40	
<i>For Class 55 Rating, Add</i>	4,125.04	
<i>For Class 56 Rating, Add</i>	5,464.37	
40 05 19 00-1457 EA 30" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,535.63	1,163.27
<i>For Class 52 Rating, Deduct</i>	-2,065.04	
<i>For Class 54 Rating, Add</i>	2,837.12	
<i>For Class 55 Rating, Add</i>	4,228.70	
<i>For Class 56 Rating, Add</i>	5,601.52	
40 05 19 00-1458 EA 30" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,004.04	1,165.87
<i>For Class 52 Rating, Deduct</i>	-2,116.13	
<i>For Class 54 Rating, Add</i>	2,906.83	
<i>For Class 55 Rating, Add</i>	4,332.37	
<i>For Class 56 Rating, Add</i>	5,738.67	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1459	EA		30" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,472.45	1,168.50
			For Class 52 Rating, Deduct	-2,167.22	
			For Class 54 Rating, Add	2,976.54	
			For Class 55 Rating, Add	4,436.03	
			For Class 56 Rating, Add	5,875.82	
40 05 19 00-1460	EA		30" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,940.86	1,171.12
			For Class 52 Rating, Deduct	-2,218.31	
			For Class 54 Rating, Add	3,046.26	
			For Class 55 Rating, Add	4,539.70	
			For Class 56 Rating, Add	6,012.98	
40 05 19 00-1461	EA		30" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,409.27	1,173.75
			For Class 52 Rating, Deduct	-2,269.40	
			For Class 54 Rating, Add	3,115.97	
			For Class 55 Rating, Add	4,643.37	
			For Class 56 Rating, Add	6,150.13	
40 05 19 00-1462	EA		30" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,877.68	1,176.36
			For Class 52 Rating, Deduct	-2,320.48	
			For Class 54 Rating, Add	3,185.68	
			For Class 55 Rating, Add	4,747.03	
			For Class 56 Rating, Add	6,287.28	
40 05 19 00-1463			36" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1464	EA		36" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,641.66	1,367.62
			For Class 52 Rating, Deduct	-612.65	
			For Class 54 Rating, Add	860.29	
			For Class 55 Rating, Add	1,291.73	
			For Class 56 Rating, Add	1,717.60	
40 05 19 00-1465	EA		36" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,277.42	1,370.25
			For Class 52 Rating, Deduct	-682.14	
			For Class 54 Rating, Add	955.11	
			For Class 55 Rating, Add	1,432.72	
			For Class 56 Rating, Add	1,904.12	
40 05 19 00-1466	EA		36" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,913.18	1,372.86
			For Class 52 Rating, Deduct	-751.64	
			For Class 54 Rating, Add	1,049.92	
			For Class 55 Rating, Add	1,573.70	
			For Class 56 Rating, Add	2,090.64	
40 05 19 00-1467	EA		36" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,548.93	1,375.48
			For Class 52 Rating, Deduct	-821.14	
			For Class 54 Rating, Add	1,144.74	
			For Class 55 Rating, Add	1,714.68	
			For Class 56 Rating, Add	2,277.16	
40 05 19 00-1468	EA		36" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,184.69	1,378.10
			For Class 52 Rating, Deduct	-890.63	
			For Class 54 Rating, Add	1,239.56	
			For Class 55 Rating, Add	1,855.67	
			For Class 56 Rating, Add	2,463.68	
40 05 19 00-1469	EA		36" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,820.45	1,380.71
			For Class 52 Rating, Deduct	-960.13	
			For Class 54 Rating, Add	1,334.37	
			For Class 55 Rating, Add	1,996.65	
			For Class 56 Rating, Add	2,650.20	
40 05 19 00-1470	EA		36" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,456.20	1,383.34
			For Class 52 Rating, Deduct	-1,029.63	
			For Class 54 Rating, Add	1,429.19	
			For Class 55 Rating, Add	2,137.63	
			For Class 56 Rating, Add	2,836.72	
40 05 19 00-1471	EA		36" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,091.96	1,385.96
			For Class 52 Rating, Deduct	-1,099.12	
			For Class 54 Rating, Add	1,524.00	
			For Class 55 Rating, Add	2,278.62	
			For Class 56 Rating, Add	3,023.24	
40 05 19 00-1472	EA		36" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,727.72	1,388.59
			For Class 52 Rating, Deduct	-1,168.62	
			For Class 54 Rating, Add	1,618.82	
			For Class 55 Rating, Add	2,419.60	
			For Class 56 Rating, Add	3,209.76	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

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	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1473	EA			36" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,363.48	1,391.20
				<i>For Class 52 Rating, Deduct</i>	-1,238.12	
				<i>For Class 54 Rating, Add</i>	1,713.63	
				<i>For Class 55 Rating, Add</i>	2,560.59	
				<i>For Class 56 Rating, Add</i>	3,396.29	
40 05 19 00-1474	EA			36" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,999.23	1,393.82
				<i>For Class 52 Rating, Deduct</i>	-1,307.61	
				<i>For Class 54 Rating, Add</i>	1,808.45	
				<i>For Class 55 Rating, Add</i>	2,701.57	
				<i>For Class 56 Rating, Add</i>	3,582.80	
40 05 19 00-1475	EA			36" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,634.99	1,396.44
				<i>For Class 52 Rating, Deduct</i>	-1,377.11	
				<i>For Class 54 Rating, Add</i>	1,903.27	
				<i>For Class 55 Rating, Add</i>	2,842.55	
				<i>For Class 56 Rating, Add</i>	3,769.32	
40 05 19 00-1476	EA			36" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,270.75	1,399.05
				<i>For Class 52 Rating, Deduct</i>	-1,446.61	
				<i>For Class 54 Rating, Add</i>	1,998.08	
				<i>For Class 55 Rating, Add</i>	2,983.54	
				<i>For Class 56 Rating, Add</i>	3,955.85	
40 05 19 00-1477	EA			36" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,906.51	1,401.68
				<i>For Class 52 Rating, Deduct</i>	-1,516.10	
				<i>For Class 54 Rating, Add</i>	2,092.90	
				<i>For Class 55 Rating, Add</i>	3,124.52	
				<i>For Class 56 Rating, Add</i>	4,142.37	
40 05 19 00-1478	EA			36" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,542.25	1,404.30
				<i>For Class 52 Rating, Deduct</i>	-1,585.60	
				<i>For Class 54 Rating, Add</i>	2,187.71	
				<i>For Class 55 Rating, Add</i>	3,265.51	
				<i>For Class 56 Rating, Add</i>	4,328.88	
40 05 19 00-1479	EA			36" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,178.01	1,406.93
				<i>For Class 52 Rating, Deduct</i>	-1,655.10	
				<i>For Class 54 Rating, Add</i>	2,282.53	
				<i>For Class 55 Rating, Add</i>	3,406.49	
				<i>For Class 56 Rating, Add</i>	4,515.41	
40 05 19 00-1480	EA			36" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,813.78	1,409.54
				<i>For Class 52 Rating, Deduct</i>	-1,724.59	
				<i>For Class 54 Rating, Add</i>	2,377.34	
				<i>For Class 55 Rating, Add</i>	3,547.47	
				<i>For Class 56 Rating, Add</i>	4,701.93	
40 05 19 00-1481	EA			36" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,449.54	1,412.15
				<i>For Class 52 Rating, Deduct</i>	-1,794.09	
				<i>For Class 54 Rating, Add</i>	2,472.16	
				<i>For Class 55 Rating, Add</i>	3,688.46	
				<i>For Class 56 Rating, Add</i>	4,888.45	
40 05 19 00-1482	EA			36" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,085.28	1,414.78
				<i>For Class 52 Rating, Deduct</i>	-1,863.58	
				<i>For Class 54 Rating, Add</i>	2,566.98	
				<i>For Class 55 Rating, Add</i>	3,829.44	
				<i>For Class 56 Rating, Add</i>	5,074.97	
40 05 19 00-1483	EA			36" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,721.04	1,417.40
				<i>For Class 52 Rating, Deduct</i>	-1,933.08	
				<i>For Class 54 Rating, Add</i>	2,661.79	
				<i>For Class 55 Rating, Add</i>	3,970.43	
				<i>For Class 56 Rating, Add</i>	5,261.49	
40 05 19 00-1484	EA			36" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,356.81	1,420.02
				<i>For Class 52 Rating, Deduct</i>	-2,002.58	
				<i>For Class 54 Rating, Add</i>	2,756.61	
				<i>For Class 55 Rating, Add</i>	4,111.41	
				<i>For Class 56 Rating, Add</i>	5,448.01	
40 05 19 00-1485	EA			36" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,992.57	1,422.64
				<i>For Class 52 Rating, Deduct</i>	-2,072.08	
				<i>For Class 54 Rating, Add</i>	2,851.42	
				<i>For Class 55 Rating, Add</i>	4,252.39	
				<i>For Class 56 Rating, Add</i>	5,634.53	
40 05 19 00-1486	EA			36" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,628.31	1,425.27
				<i>For Class 52 Rating, Deduct</i>	-2,141.57	
				<i>For Class 54 Rating, Add</i>	2,946.24	
				<i>For Class 55 Rating, Add</i>	4,393.38	
				<i>For Class 56 Rating, Add</i>	5,821.05	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1487	EA		36" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,264.07	1,427.88
			<i>For Class 52 Rating, Deduct</i>	-2,211.07	
			<i>For Class 54 Rating, Add</i>	3,041.05	
			<i>For Class 55 Rating, Add</i>	4,534.36	
			<i>For Class 56 Rating, Add</i>	6,007.57	
40 05 19 00-1488	EA		36" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,899.83	1,430.49
			<i>For Class 52 Rating, Deduct</i>	-2,280.57	
			<i>For Class 54 Rating, Add</i>	3,135.87	
			<i>For Class 55 Rating, Add</i>	4,675.35	
			<i>For Class 56 Rating, Add</i>	6,194.09	
40 05 19 00-1489	EA		36" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,535.60	1,433.12
			<i>For Class 52 Rating, Deduct</i>	-2,350.06	
			<i>For Class 54 Rating, Add</i>	3,230.69	
			<i>For Class 55 Rating, Add</i>	4,816.33	
			<i>For Class 56 Rating, Add</i>	6,380.61	
40 05 19 00-1490	EA		36" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,171.34	1,435.74
			<i>For Class 52 Rating, Deduct</i>	-2,419.56	
			<i>For Class 54 Rating, Add</i>	3,325.50	
			<i>For Class 55 Rating, Add</i>	4,957.31	
			<i>For Class 56 Rating, Add</i>	6,567.13	
40 05 19 00-1491	EA		36" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,807.10	1,438.36
			<i>For Class 52 Rating, Deduct</i>	-2,489.05	
			<i>For Class 54 Rating, Add</i>	3,420.32	
			<i>For Class 55 Rating, Add</i>	5,098.30	
			<i>For Class 56 Rating, Add</i>	6,753.65	
40 05 19 00-1492	EA		36" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,442.86	1,440.98
			<i>For Class 52 Rating, Deduct</i>	-2,558.55	
			<i>For Class 54 Rating, Add</i>	3,515.13	
			<i>For Class 55 Rating, Add</i>	5,239.28	
			<i>For Class 56 Rating, Add</i>	6,940.17	
40 05 19 00-1493	EA		36" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,078.63	1,443.61
			<i>For Class 52 Rating, Deduct</i>	-2,628.05	
			<i>For Class 54 Rating, Add</i>	3,609.95	
			<i>For Class 55 Rating, Add</i>	5,380.27	
			<i>For Class 56 Rating, Add</i>	7,126.69	
40 05 19 00-1494	EA		36" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,714.37	1,446.22
			<i>For Class 52 Rating, Deduct</i>	-2,697.54	
			<i>For Class 54 Rating, Add</i>	3,704.76	
			<i>For Class 55 Rating, Add</i>	5,521.25	
			<i>For Class 56 Rating, Add</i>	7,313.21	
40 05 19 00-1495	EA		36" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,350.13	1,448.83
			<i>For Class 52 Rating, Deduct</i>	-2,767.04	
			<i>For Class 54 Rating, Add</i>	3,799.58	
			<i>For Class 55 Rating, Add</i>	5,662.23	
			<i>For Class 56 Rating, Add</i>	7,499.73	
40 05 19 00-1496	EA		36" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,985.89	1,451.46
			<i>For Class 52 Rating, Deduct</i>	-2,836.54	
			<i>For Class 54 Rating, Add</i>	3,894.40	
			<i>For Class 55 Rating, Add</i>	5,803.22	
			<i>For Class 56 Rating, Add</i>	7,686.25	
40 05 19 00-1497	EA		36" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,621.65	1,454.08
			<i>For Class 52 Rating, Deduct</i>	-2,906.04	
			<i>For Class 54 Rating, Add</i>	3,989.21	
			<i>For Class 55 Rating, Add</i>	5,944.20	
			<i>For Class 56 Rating, Add</i>	7,872.77	
40 05 19 00-1498	EA		36" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,257.40	1,456.70
			<i>For Class 52 Rating, Deduct</i>	-2,975.53	
			<i>For Class 54 Rating, Add</i>	4,084.03	
			<i>For Class 55 Rating, Add</i>	6,085.18	
			<i>For Class 56 Rating, Add</i>	8,059.29	
40 05 19 00-1499	EA		36" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,893.16	1,459.32
			<i>For Class 52 Rating, Deduct</i>	-3,045.03	
			<i>For Class 54 Rating, Add</i>	4,178.84	
			<i>For Class 55 Rating, Add</i>	6,226.17	
			<i>For Class 56 Rating, Add</i>	8,245.81	
40 05 19 00-1500	EA		36" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,528.92	1,461.94
			<i>For Class 52 Rating, Deduct</i>	-3,114.52	
			<i>For Class 54 Rating, Add</i>	4,273.66	
			<i>For Class 55 Rating, Add</i>	6,367.15	
			<i>For Class 56 Rating, Add</i>	8,432.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1501 EA 36" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,164.68	1,464.55
For Class 52 Rating, Deduct	-3,184.02	
For Class 54 Rating, Add	4,368.48	
For Class 55 Rating, Add	6,508.14	
For Class 56 Rating, Add	8,618.85	
40 05 19 00-1502 42" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1503 EA 42" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,078.77	1,723.94
For Class 52 Rating, Deduct	-821.34	
For Class 54 Rating, Add	1,151.36	
For Class 55 Rating, Add	1,727.77	
For Class 56 Rating, Add	2,296.72	
40 05 19 00-1504 EA 42" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,026.66	1,726.55
For Class 52 Rating, Deduct	-925.17	
For Class 54 Rating, Add	1,292.99	
For Class 55 Rating, Add	1,938.36	
For Class 56 Rating, Add	2,575.32	
40 05 19 00-1505 EA 42" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,963.28	1,729.17
For Class 52 Rating, Deduct	-1,027.76	
For Class 54 Rating, Add	1,432.94	
For Class 55 Rating, Add	2,146.44	
For Class 56 Rating, Add	2,850.60	
40 05 19 00-1506 EA 42" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,909.28	1,731.79
For Class 52 Rating, Deduct	-1,131.39	
For Class 54 Rating, Add	1,574.29	
For Class 55 Rating, Add	2,356.61	
For Class 56 Rating, Add	3,128.64	
40 05 19 00-1507 EA 42" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,845.89	1,734.42
For Class 52 Rating, Deduct	-1,233.98	
For Class 54 Rating, Add	1,714.23	
For Class 55 Rating, Add	2,564.68	
For Class 56 Rating, Add	3,403.91	
40 05 19 00-1508 EA 42" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,793.78	1,737.03
For Class 52 Rating, Deduct	-1,337.81	
For Class 54 Rating, Add	1,855.87	
For Class 55 Rating, Add	2,775.27	
For Class 56 Rating, Add	3,682.51	
40 05 19 00-1509 EA 42" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,728.51	1,739.66
For Class 52 Rating, Deduct	-1,440.19	
For Class 54 Rating, Add	1,995.53	
For Class 55 Rating, Add	2,982.93	
For Class 56 Rating, Add	3,957.23	
40 05 19 00-1510 EA 42" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,676.40	1,742.28
For Class 52 Rating, Deduct	-1,544.02	
For Class 54 Rating, Add	2,137.17	
For Class 55 Rating, Add	3,193.52	
For Class 56 Rating, Add	4,235.83	
40 05 19 00-1511 EA 42" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,613.01	1,744.90
For Class 52 Rating, Deduct	-1,646.62	
For Class 54 Rating, Add	2,277.11	
For Class 55 Rating, Add	3,401.59	
For Class 56 Rating, Add	4,511.10	
40 05 19 00-1512 EA 42" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,559.02	1,747.51
For Class 52 Rating, Deduct	-1,750.24	
For Class 54 Rating, Add	2,418.46	
For Class 55 Rating, Add	3,611.76	
For Class 56 Rating, Add	4,789.14	
40 05 19 00-1513 EA 42" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,495.63	1,750.13
For Class 52 Rating, Deduct	-1,852.83	
For Class 54 Rating, Add	2,558.41	
For Class 55 Rating, Add	3,819.83	
For Class 56 Rating, Add	5,064.42	
40 05 19 00-1514 EA 42" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,441.64	1,752.76
For Class 52 Rating, Deduct	-1,956.45	
For Class 54 Rating, Add	2,699.76	
For Class 55 Rating, Add	4,030.00	
For Class 56 Rating, Add	5,342.46	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1515	EA		42" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,378.25	1,755.37
			<i>For Class 52 Rating, Deduct</i>	-2,059.04	
			<i>For Class 54 Rating, Add</i>	2,839.70	
			<i>For Class 55 Rating, Add</i>	4,238.08	
			<i>For Class 56 Rating, Add</i>	5,617.73	
40 05 19 00-1516	EA		42" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,316.73	1,758.00
			<i>For Class 52 Rating, Deduct</i>	-2,161.84	
			<i>For Class 54 Rating, Add</i>	2,979.93	
			<i>For Class 55 Rating, Add</i>	4,446.57	
			<i>For Class 56 Rating, Add</i>	5,893.56	
40 05 19 00-1517	EA		42" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,260.86	1,760.62
			<i>For Class 52 Rating, Deduct</i>	-2,265.26	
			<i>For Class 54 Rating, Add</i>	3,121.00	
			<i>For Class 55 Rating, Add</i>	4,656.32	
			<i>For Class 56 Rating, Add</i>	6,171.05	
40 05 19 00-1518	EA		42" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,197.46	1,763.24
			<i>For Class 52 Rating, Deduct</i>	-2,367.85	
			<i>For Class 54 Rating, Add</i>	3,260.94	
			<i>For Class 55 Rating, Add</i>	4,864.39	
			<i>For Class 56 Rating, Add</i>	6,446.32	
40 05 19 00-1519	EA		42" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,145.36	1,765.85
			<i>For Class 52 Rating, Deduct</i>	-2,471.68	
			<i>For Class 54 Rating, Add</i>	3,402.58	
			<i>For Class 55 Rating, Add</i>	5,074.98	
			<i>For Class 56 Rating, Add</i>	6,724.92	
40 05 19 00-1520	EA		42" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,081.97	1,768.47
			<i>For Class 52 Rating, Deduct</i>	-2,574.27	
			<i>For Class 54 Rating, Add</i>	3,542.52	
			<i>For Class 55 Rating, Add</i>	5,283.06	
			<i>For Class 56 Rating, Add</i>	7,000.19	
40 05 19 00-1521	EA		42" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,027.98	1,771.10
			<i>For Class 52 Rating, Deduct</i>	-2,677.90	
			<i>For Class 54 Rating, Add</i>	3,683.88	
			<i>For Class 55 Rating, Add</i>	5,493.23	
			<i>For Class 56 Rating, Add</i>	7,278.23	
40 05 19 00-1522	EA		42" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,964.58	1,773.71
			<i>For Class 52 Rating, Deduct</i>	-2,780.49	
			<i>For Class 54 Rating, Add</i>	3,823.82	
			<i>For Class 55 Rating, Add</i>	5,701.30	
			<i>For Class 56 Rating, Add</i>	7,553.50	
40 05 19 00-1523	EA		42" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,912.48	1,776.34
			<i>For Class 52 Rating, Deduct</i>	-2,884.32	
			<i>For Class 54 Rating, Add</i>	3,965.46	
			<i>For Class 55 Rating, Add</i>	5,911.89	
			<i>For Class 56 Rating, Add</i>	7,832.10	
40 05 19 00-1524	EA		42" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,849.09	1,778.96
			<i>For Class 52 Rating, Deduct</i>	-2,986.91	
			<i>For Class 54 Rating, Add</i>	4,105.40	
			<i>For Class 55 Rating, Add</i>	6,119.96	
			<i>For Class 56 Rating, Add</i>	8,107.38	
40 05 19 00-1525	EA		42" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,795.10	1,781.58
			<i>For Class 52 Rating, Deduct</i>	-3,090.53	
			<i>For Class 54 Rating, Add</i>	4,246.75	
			<i>For Class 55 Rating, Add</i>	6,330.13	
			<i>For Class 56 Rating, Add</i>	8,385.42	
40 05 19 00-1526	EA		42" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,731.70	1,784.19
			<i>For Class 52 Rating, Deduct</i>	-3,193.12	
			<i>For Class 54 Rating, Add</i>	4,386.70	
			<i>For Class 55 Rating, Add</i>	6,538.21	
			<i>For Class 56 Rating, Add</i>	8,660.69	
40 05 19 00-1527	EA		42" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,679.59	1,786.81
			<i>For Class 52 Rating, Deduct</i>	-3,296.95	
			<i>For Class 54 Rating, Add</i>	4,528.33	
			<i>For Class 55 Rating, Add</i>	6,748.80	
			<i>For Class 56 Rating, Add</i>	8,939.29	
40 05 19 00-1528	EA		42" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,616.21	1,789.44
			<i>For Class 52 Rating, Deduct</i>	-3,399.54	
			<i>For Class 54 Rating, Add</i>	4,668.28	
			<i>For Class 55 Rating, Add</i>	6,956.87	
			<i>For Class 56 Rating, Add</i>	9,214.56	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1529 EA 42" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,560.34	1,792.05
<i>For Class 52 Rating, Deduct</i>	-3,502.96	
<i>For Class 54 Rating, Add</i>	4,809.35	
<i>For Class 55 Rating, Add</i>	7,166.62	
<i>For Class 56 Rating, Add</i>	9,492.05	
40 05 19 00-1530 EA 42" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,498.82	1,794.68
<i>For Class 52 Rating, Deduct</i>	-3,605.76	
<i>For Class 54 Rating, Add</i>	4,949.57	
<i>For Class 55 Rating, Add</i>	7,375.12	
<i>For Class 56 Rating, Add</i>	9,767.88	
40 05 19 00-1531 EA 42" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,247.40	1,797.30
<i>For Class 52 Rating, Deduct</i>	-3,687.67	
<i>For Class 54 Rating, Add</i>	5,061.31	
<i>For Class 55 Rating, Add</i>	7,541.26	
<i>For Class 56 Rating, Add</i>	9,987.68	
40 05 19 00-1532 EA 42" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,381.45	1,799.91
<i>For Class 52 Rating, Deduct</i>	-3,811.97	
<i>For Class 54 Rating, Add</i>	5,230.87	
<i>For Class 55 Rating, Add</i>	7,793.36	
<i>For Class 56 Rating, Add</i>	10,321.20	
40 05 19 00-1533 EA 42" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,318.05	1,802.53
<i>For Class 52 Rating, Deduct</i>	-3,914.56	
<i>For Class 54 Rating, Add</i>	5,370.81	
<i>For Class 55 Rating, Add</i>	8,001.43	
<i>For Class 56 Rating, Add</i>	10,596.47	
40 05 19 00-1534 EA 42" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,264.06	1,805.15
<i>For Class 52 Rating, Deduct</i>	-4,018.19	
<i>For Class 54 Rating, Add</i>	5,512.17	
<i>For Class 55 Rating, Add</i>	8,211.60	
<i>For Class 56 Rating, Add</i>	10,874.51	
40 05 19 00-1535 EA 42" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,200.67	1,807.78
<i>For Class 52 Rating, Deduct</i>	-4,120.78	
<i>For Class 54 Rating, Add</i>	5,652.11	
<i>For Class 55 Rating, Add</i>	8,419.68	
<i>For Class 56 Rating, Add</i>	11,149.78	
40 05 19 00-1536 EA 42" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,148.56	1,810.40
<i>For Class 52 Rating, Deduct</i>	-4,224.61	
<i>For Class 54 Rating, Add</i>	5,793.75	
<i>For Class 55 Rating, Add</i>	8,630.27	
<i>For Class 56 Rating, Add</i>	11,428.38	
40 05 19 00-1537 EA 42" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,083.28	1,813.01
<i>For Class 52 Rating, Deduct</i>	-4,326.99	
<i>For Class 54 Rating, Add</i>	5,933.41	
<i>For Class 55 Rating, Add</i>	8,837.92	
<i>For Class 56 Rating, Add</i>	11,703.10	
40 05 19 00-1538 EA 42" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,031.18	1,815.64
<i>For Class 52 Rating, Deduct</i>	-4,430.82	
<i>For Class 54 Rating, Add</i>	6,075.04	
<i>For Class 55 Rating, Add</i>	9,048.51	
<i>For Class 56 Rating, Add</i>	11,981.70	
40 05 19 00-1539 EA 42" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,967.78	1,818.25
<i>For Class 52 Rating, Deduct</i>	-4,533.41	
<i>For Class 54 Rating, Add</i>	6,214.99	
<i>For Class 55 Rating, Add</i>	9,256.58	
<i>For Class 56 Rating, Add</i>	12,256.97	
40 05 19 00-1540 EA 42" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,913.79	1,820.87
<i>For Class 52 Rating, Deduct</i>	-4,637.04	
<i>For Class 54 Rating, Add</i>	6,356.34	
<i>For Class 55 Rating, Add</i>	9,466.75	
<i>For Class 56 Rating, Add</i>	12,535.01	
40 05 19 00-1541 48" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-1028)</small>		
40 05 19 00-1542 EA 48" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,982.86	2,166.70
<i>For Class 52 Rating, Deduct</i>	-1,068.10	
<i>For Class 54 Rating, Add</i>	1,495.89	
<i>For Class 55 Rating, Add</i>	2,244.11	
<i>For Class 56 Rating, Add</i>	2,982.63	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1543	EA		48" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,371.36	2,169.32
			<i>For Class 52 Rating, Deduct</i>	-1,219.29	
			<i>For Class 54 Rating, Add</i>	1,702.12	
			<i>For Class 55 Rating, Add</i>	2,550.73	
			<i>For Class 56 Rating, Add</i>	3,388.25	
40 05 19 00-1544	EA		48" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,747.95	2,171.95
			<i>For Class 52 Rating, Deduct</i>	-1,370.28	
			<i>For Class 54 Rating, Add</i>	1,908.06	
			<i>For Class 55 Rating, Add</i>	2,856.92	
			<i>For Class 56 Rating, Add</i>	3,793.32	
40 05 19 00-1545	EA		48" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,135.84	2,174.57
			<i>For Class 52 Rating, Deduct</i>	-1,522.51	
			<i>For Class 54 Rating, Add</i>	2,115.69	
			<i>For Class 55 Rating, Add</i>	3,165.63	
			<i>For Class 56 Rating, Add</i>	4,201.72	
40 05 19 00-1546	EA		48" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,514.32	2,177.19
			<i>For Class 52 Rating, Deduct</i>	-1,673.71	
			<i>For Class 54 Rating, Add</i>	2,321.92	
			<i>For Class 55 Rating, Add</i>	3,472.24	
			<i>For Class 56 Rating, Add</i>	4,607.34	
40 05 19 00-1547	EA		48" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,892.81	2,179.81
			<i>For Class 52 Rating, Deduct</i>	-1,824.91	
			<i>For Class 54 Rating, Add</i>	2,528.14	
			<i>For Class 55 Rating, Add</i>	3,778.85	
			<i>For Class 56 Rating, Add</i>	5,012.97	
40 05 19 00-1548	EA		48" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,278.81	2,182.44
			<i>For Class 52 Rating, Deduct</i>	-1,976.93	
			<i>For Class 54 Rating, Add</i>	2,735.50	
			<i>For Class 55 Rating, Add</i>	4,087.14	
			<i>For Class 56 Rating, Add</i>	5,420.81	
40 05 19 00-1549	EA		48" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,659.17	2,185.04
			<i>For Class 52 Rating, Deduct</i>	-2,128.33	
			<i>For Class 54 Rating, Add</i>	2,942.00	
			<i>For Class 55 Rating, Add</i>	4,394.17	
			<i>For Class 56 Rating, Add</i>	5,826.99	
40 05 19 00-1550	EA		48" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,035.78	2,187.66
			<i>For Class 52 Rating, Deduct</i>	-2,279.32	
			<i>For Class 54 Rating, Add</i>	3,147.95	
			<i>For Class 55 Rating, Add</i>	4,700.36	
			<i>For Class 56 Rating, Add</i>	6,232.06	
40 05 19 00-1551	EA		48" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,423.66	2,190.29
			<i>For Class 52 Rating, Deduct</i>	-2,431.55	
			<i>For Class 54 Rating, Add</i>	3,355.58	
			<i>For Class 55 Rating, Add</i>	5,009.07	
			<i>For Class 56 Rating, Add</i>	6,640.46	
40 05 19 00-1552	EA		48" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,802.15	2,192.91
			<i>For Class 52 Rating, Deduct</i>	-2,562.75	
			<i>For Class 54 Rating, Add</i>	3,561.81	
			<i>For Class 55 Rating, Add</i>	5,315.68	
			<i>For Class 56 Rating, Add</i>	7,046.08	
40 05 19 00-1553	EA		48" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,190.03	2,195.53
			<i>For Class 52 Rating, Deduct</i>	-2,734.98	
			<i>For Class 54 Rating, Add</i>	3,769.44	
			<i>For Class 55 Rating, Add</i>	5,624.39	
			<i>For Class 56 Rating, Add</i>	7,454.48	
40 05 19 00-1554	EA		48" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,566.63	2,198.15
			<i>For Class 52 Rating, Deduct</i>	-2,885.97	
			<i>For Class 54 Rating, Add</i>	3,975.38	
			<i>For Class 55 Rating, Add</i>	5,930.58	
			<i>For Class 56 Rating, Add</i>	7,859.55	
40 05 19 00-1555	EA		48" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,945.11	2,200.77
			<i>For Class 52 Rating, Deduct</i>	-3,037.17	
			<i>For Class 54 Rating, Add</i>	4,181.61	
			<i>For Class 55 Rating, Add</i>	6,237.20	
			<i>For Class 56 Rating, Add</i>	8,265.17	
40 05 19 00-1556	EA		48" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,332.99	2,203.39
			<i>For Class 52 Rating, Deduct</i>	-3,189.40	
			<i>For Class 54 Rating, Add</i>	4,389.24	
			<i>For Class 55 Rating, Add</i>	6,545.90	
			<i>For Class 56 Rating, Add</i>	8,673.57	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1557 EA 48" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,711.49	2,206.00
<i>For Class 52 Rating, Deduct</i>	-3,340.60	
<i>For Class 54 Rating, Add</i>	4,595.47	
<i>For Class 55 Rating, Add</i>	6,852.52	
<i>For Class 56 Rating, Add</i>	9,079.20	
40 05 19 00-1558 EA 48" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,088.09	2,208.63
<i>For Class 52 Rating, Deduct</i>	-3,491.58	
<i>For Class 54 Rating, Add</i>	4,801.41	
<i>For Class 55 Rating, Add</i>	7,158.71	
<i>For Class 56 Rating, Add</i>	9,484.27	
40 05 19 00-1559 EA 48" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,475.97	2,211.25
<i>For Class 52 Rating, Deduct</i>	-3,643.82	
<i>For Class 54 Rating, Add</i>	5,009.04	
<i>For Class 55 Rating, Add</i>	7,467.42	
<i>For Class 56 Rating, Add</i>	9,892.67	
40 05 19 00-1560 EA 48" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,854.45	2,213.87
<i>For Class 52 Rating, Deduct</i>	-3,795.01	
<i>For Class 54 Rating, Add</i>	5,215.27	
<i>For Class 55 Rating, Add</i>	7,774.03	
<i>For Class 56 Rating, Add</i>	10,298.29	
40 05 19 00-1561 EA 48" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,231.06	2,216.49
<i>For Class 52 Rating, Deduct</i>	-3,946.00	
<i>For Class 54 Rating, Add</i>	5,421.21	
<i>For Class 55 Rating, Add</i>	8,080.22	
<i>For Class 56 Rating, Add</i>	10,703.36	
40 05 19 00-1562 EA 48" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,618.95	2,219.11
<i>For Class 52 Rating, Deduct</i>	-4,098.23	
<i>For Class 54 Rating, Add</i>	5,628.85	
<i>For Class 55 Rating, Add</i>	8,388.93	
<i>For Class 56 Rating, Add</i>	11,111.76	
40 05 19 00-1563 EA 48" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,999.30	2,221.73
<i>For Class 52 Rating, Deduct</i>	-4,249.64	
<i>For Class 54 Rating, Add</i>	5,835.35	
<i>For Class 55 Rating, Add</i>	8,695.96	
<i>For Class 56 Rating, Add</i>	11,517.93	
40 05 19 00-1564 EA 48" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,375.91	2,224.34
<i>For Class 52 Rating, Deduct</i>	-4,400.63	
<i>For Class 54 Rating, Add</i>	6,041.30	
<i>For Class 55 Rating, Add</i>	9,002.15	
<i>For Class 56 Rating, Add</i>	11,923.01	
40 05 19 00-1565 EA 48" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,763.79	2,226.97
<i>For Class 52 Rating, Deduct</i>	-4,552.86	
<i>For Class 54 Rating, Add</i>	6,248.93	
<i>For Class 55 Rating, Add</i>	9,310.86	
<i>For Class 56 Rating, Add</i>	12,331.40	
40 05 19 00-1566 EA 48" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,142.29	2,229.59
<i>For Class 52 Rating, Deduct</i>	-4,704.05	
<i>For Class 54 Rating, Add</i>	6,455.16	
<i>For Class 55 Rating, Add</i>	9,617.47	
<i>For Class 56 Rating, Add</i>	12,737.03	
40 05 19 00-1567 EA 48" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,518.88	2,232.21
<i>For Class 52 Rating, Deduct</i>	-4,855.04	
<i>For Class 54 Rating, Add</i>	6,661.10	
<i>For Class 55 Rating, Add</i>	9,923.67	
<i>For Class 56 Rating, Add</i>	13,142.10	
40 05 19 00-1568 EA 48" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	48,906.77	2,234.83
<i>For Class 52 Rating, Deduct</i>	-5,007.27	
<i>For Class 54 Rating, Add</i>	6,868.73	
<i>For Class 55 Rating, Add</i>	10,232.38	
<i>For Class 56 Rating, Add</i>	13,550.50	
40 05 19 00-1569 EA 48" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	50,285.25	2,237.44
<i>For Class 52 Rating, Deduct</i>	-5,158.47	
<i>For Class 54 Rating, Add</i>	7,074.96	
<i>For Class 55 Rating, Add</i>	10,538.99	
<i>For Class 56 Rating, Add</i>	13,956.12	
40 05 19 00-1570 EA 48" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	51,494.52	2,240.07
<i>For Class 52 Rating, Deduct</i>	-5,291.05	
<i>For Class 54 Rating, Add</i>	7,255.80	
<i>For Class 55 Rating, Add</i>	10,807.86	
<i>For Class 56 Rating, Add</i>	14,311.82	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1571	EA		48" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	53,051.62	2,242.68
			<i>For Class 52 Rating, Deduct</i>	-5,461.90	
			<i>For Class 54 Rating, Add</i>	7,488.82	
			<i>For Class 55 Rating, Add</i>	11,154.31	
			<i>For Class 56 Rating, Add</i>	14,770.14	
40 05 19 00-1572	EA		48" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	54,428.22	2,245.31
			<i>For Class 52 Rating, Deduct</i>	-5,612.89	
			<i>For Class 54 Rating, Add</i>	7,694.76	
			<i>For Class 55 Rating, Add</i>	11,460.50	
			<i>For Class 56 Rating, Add</i>	15,175.21	
40 05 19 00-1573	EA		48" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	55,817.99	2,247.93
			<i>For Class 52 Rating, Deduct</i>	-5,765.32	
			<i>For Class 54 Rating, Add</i>	7,902.68	
			<i>For Class 55 Rating, Add</i>	11,769.63	
			<i>For Class 56 Rating, Add</i>	15,584.17	
40 05 19 00-1574	EA		48" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	57,194.59	2,250.55
			<i>For Class 52 Rating, Deduct</i>	-5,916.31	
			<i>For Class 54 Rating, Add</i>	8,108.62	
			<i>For Class 55 Rating, Add</i>	12,075.82	
			<i>For Class 56 Rating, Add</i>	15,989.23	
40 05 19 00-1575	EA		48" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	58,571.20	2,253.17
			<i>For Class 52 Rating, Deduct</i>	-6,067.30	
			<i>For Class 54 Rating, Add</i>	8,314.56	
			<i>For Class 55 Rating, Add</i>	12,382.01	
			<i>For Class 56 Rating, Add</i>	16,394.31	
40 05 19 00-1576	EA		48" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	59,960.96	2,255.78
			<i>For Class 52 Rating, Deduct</i>	-6,219.74	
			<i>For Class 54 Rating, Add</i>	8,522.48	
			<i>For Class 55 Rating, Add</i>	12,691.14	
			<i>For Class 56 Rating, Add</i>	16,803.26	
40 05 19 00-1577	EA		48" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	61,337.57	2,258.41
			<i>For Class 52 Rating, Deduct</i>	-6,370.73	
			<i>For Class 54 Rating, Add</i>	8,728.42	
			<i>For Class 55 Rating, Add</i>	12,997.33	
			<i>For Class 56 Rating, Add</i>	17,208.33	
40 05 19 00-1578	EA		48" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	62,716.05	2,261.02
			<i>For Class 52 Rating, Deduct</i>	-6,521.93	
			<i>For Class 54 Rating, Add</i>	8,934.65	
			<i>For Class 55 Rating, Add</i>	13,303.94	
			<i>For Class 56 Rating, Add</i>	17,613.95	
40 05 19 00-1579	EA		48" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	64,103.94	2,263.65
			<i>For Class 52 Rating, Deduct</i>	-6,674.16	
			<i>For Class 54 Rating, Add</i>	9,142.28	
			<i>For Class 55 Rating, Add</i>	13,612.65	
			<i>For Class 56 Rating, Add</i>	18,022.35	

40 05 19 00-1580 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree**Elbows (40 05 19 00-0001)**

40 05 19 00-1581	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	384.34	126.40
40 05 19 00-1582	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	543.29	161.64
40 05 19 00-1583	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	768.61	183.09
40 05 19 00-1584	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	1,131.41	232.12
40 05 19 00-1585	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	1,406.17	257.40
40 05 19 00-1586	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	1,760.73	279.62
40 05 19 00-1587	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	2,169.02	344.73
40 05 19 00-1588	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	2,853.36	413.68
40 05 19 00-1589	EA		20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	3,512.68	520.93
40 05 19 00-1590	EA		24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	5,383.48	589.88
40 05 19 00-1591	EA		30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	9,095.15	781.39
40 05 19 00-1592	EA		36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	12,936.52	884.81
40 05 19 00-1593	EA		42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	21,758.46	1,011.21
40 05 19 00-1594	EA		48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	28,991.88	1,241.03

40 05 19 00-1595 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree**Elbows (40 05 19 00-0001)**

40 05 19 00-1596	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	363.23	126.40
40 05 19 00-1597	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	509.51	161.64
40 05 19 00-1598	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	682.75	183.09
40 05 19 00-1599	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,007.56	232.12
40 05 19 00-1600	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,248.54	257.40
40 05 19 00-1601	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,439.83	279.62
40 05 19 00-1602	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,814.35	344.73
40 05 19 00-1603	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	2,376.24	413.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1604 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	3,077.78	520.93
40 05 19 00-1605 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	4,071.75	589.88
40 05 19 00-1606 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	8,135.28	781.39
40 05 19 00-1607 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	12,235.61	884.81
40 05 19 00-1608 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	18,745.13	1,011.21
40 05 19 00-1609 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	25,583.06	1,241.03
40 05 19 00-1610 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbows <small>(40 05 19 00-0001)</small>		
40 05 19 00-1611 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	361.82	126.40
40 05 19 00-1612 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	498.25	161.64
40 05 19 00-1613 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	672.90	183.09
40 05 19 00-1614 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	979.41	232.12
40 05 19 00-1615 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,310.47	257.40
40 05 19 00-1616 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,635.47	279.62
40 05 19 00-1617 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,857.98	344.73
40 05 19 00-1618 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,429.72	413.68
40 05 19 00-1619 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	3,310.00	520.93
40 05 19 00-1620 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	4,600.95	589.88
40 05 19 00-1621 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	8,229.57	781.39
40 05 19 00-1622 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	12,452.36	884.81
40 05 19 00-1623 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	19,177.22	1,011.21
40 05 19 00-1624 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	26,146.03	1,241.03
40 05 19 00-1625 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbows <small>(40 05 19 00-0001)</small>		
40 05 19 00-1626 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	397.01	126.40
40 05 19 00-1627 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	564.40	161.64
40 05 19 00-1628 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	701.05	183.09
40 05 19 00-1629 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,079.34	232.12
40 05 19 00-1630 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,494.84	257.40
40 05 19 00-1631 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,683.32	279.62
40 05 19 00-1632 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,057.84	344.73
40 05 19 00-1633 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,429.72	413.68
40 05 19 00-1634 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	3,310.00	520.93
40 05 19 00-1635 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	4,790.95	589.88
40 05 19 00-1636 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	8,323.87	781.39
40 05 19 00-1637 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	12,545.25	884.81
40 05 19 00-1638 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	19,275.74	1,011.21
40 05 19 00-1639 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	26,344.48	1,241.03
40 05 19 00-1640 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbows <small>(40 05 19 00-0001)</small>		
40 05 19 00-1641 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	515.19	144.02
40 05 19 00-1642 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	639.81	154.74
40 05 19 00-1643 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	721.39	172.37
40 05 19 00-1644 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	972.51	179.26
40 05 19 00-1645 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,025.96	196.88
40 05 19 00-1646 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,122.42	207.61
40 05 19 00-1647 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,045.73	192.28
40 05 19 00-1648 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,179.39	209.91
40 05 19 00-1649 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,358.90	220.63
40 05 19 00-1650 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,446.71	245.15
40 05 19 00-1651 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,358.90	220.63
40 05 19 00-1652 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,507.46	231.35
40 05 19 00-1653 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,679.71	255.87
40 05 19 00-1654 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,861.30	268.89
40 05 19 00-1655 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,567.27	253.18
40 05 19 00-1656 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,691.90	263.92
40 05 19 00-1657 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,944.38	288.42
40 05 19 00-1658 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,123.98	301.06
40 05 19 00-1659 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,275.93	312.17
40 05 19 00-1660 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,834.85	287.66
40 05 19 00-1661 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,201.55	298.39
40 05 19 00-1662 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,265.43	322.90
40 05 19 00-1663 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,392.95	335.54
40 05 19 00-1664 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,598.39	346.65
40 05 19 00-1665 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,833.50	379.20
40 05 19 00-1666 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,372.11	341.29
40 05 19 00-1667 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,533.31	352.01
40 05 19 00-1668 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,148.92	376.53
40 05 19 00-1669 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,268.00	389.16
40 05 19 00-1670 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,608.54	400.27
40 05 19 00-1671 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,524.16	432.83
40 05 19 00-1672 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,750.92	467.31
40 05 19 00-1673 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,350.43	375.76
40 05 19 00-1674 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,513.06	386.48

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

40 05 19 00-1675	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	3,781.03	411.00
40 05 19 00-1676	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	3,974.69	423.63
40 05 19 00-1677	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	4,339.16	434.74
40 05 19 00-1678	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	4,677.01	467.31
40 05 19 00-1679	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	4,786.95	501.78
40 05 19 00-1680	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	5,038.91	496.23
40 05 19 00-1681	EA	30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	6,000.13	519.40
40 05 19 00-1682	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	6,389.93	530.51
40 05 19 00-1683	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	7,207.72	563.06
40 05 19 00-1684	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	8,385.90	597.53
40 05 19 00-1685	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	9,701.48	651.16
40 05 19 00-1686	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	10,246.31	685.63
40 05 19 00-1687	EA	36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	8,283.93	571.11
40 05 19 00-1688	EA	36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	10,749.70	582.22
40 05 19 00-1689	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	8,723.06	614.77
40 05 19 00-1690	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	11,410.02	649.24
40 05 19 00-1691	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	10,904.36	702.87
40 05 19 00-1692	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	11,892.55	737.34
40 05 19 00-1693	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	12,682.25	833.10
40 05 19 00-1694	EA	42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	14,701.85	645.42
40 05 19 00-1695	EA	42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	12,382.46	677.97
40 05 19 00-1696	EA	42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	16,703.45	712.44
40 05 19 00-1697	EA	42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	16,428.63	766.07
40 05 19 00-1698	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	14,323.25	800.55
40 05 19 00-1699	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	16,883.50	896.30
40 05 19 00-1700	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	23,880.84	948.01
40 05 19 00-1701	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	22,853.76	925.03
40 05 19 00-1702	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	24,852.45	1,020.79
40 05 19 00-1703	EA	48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	25,578.22	1,072.50
40 05 19 00-1704	EA	48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	32,737.91	1,135.70

40 05 19 00-1705 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbows (40 05 19 00-0001)

40 05 19 00-1706	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	461.75	126.40
40 05 19 00-1707	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	716.40	161.64
40 05 19 00-1708	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	1,058.54	183.09
40 05 19 00-1709	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	1,508.61	232.12
40 05 19 00-1710	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	2,139.45	257.40
40 05 19 00-1711	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	2,496.82	279.62
40 05 19 00-1712	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	3,241.49	344.73
40 05 19 00-1713	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	4,017.31	413.68
40 05 19 00-1714	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	5,483.09	520.93
40 05 19 00-1715	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	8,077.32	589.88
40 05 19 00-1716	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	14,250.60	781.39
40 05 19 00-1717	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	21,731.61	884.81
40 05 19 00-1718	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	33,742.81	1,011.21

40 05 19 00-1719 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows With Base (40 05 19 00-0001)

40 05 19 00-1720	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	488.49	126.40
40 05 19 00-1721	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	664.33	161.64
40 05 19 00-1722	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,095.13	183.09
40 05 19 00-1723	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,481.86	232.12
40 05 19 00-1724	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,997.30	257.40
40 05 19 00-1725	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,361.70	279.62
40 05 19 00-1726	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,917.78	344.73
40 05 19 00-1727	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	3,668.27	413.68
40 05 19 00-1728	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	4,844.11	520.93
40 05 19 00-1729	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	6,861.30	589.88
40 05 19 00-1730	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	11,271.05	781.39
40 05 19 00-1731	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	16,145.48	884.81
40 05 19 00-1732	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	30,066.58	1,011.21
40 05 19 00-1733	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	32,402.10	1,241.03

40 05 19 00-1734 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees (40 05 19 00-0001)

40 05 19 00-1735	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	659.45	203.00
40 05 19 00-1736	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	817.52	249.74
40 05 19 00-1737	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	1,155.78	278.85
40 05 19 00-1738	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	1,663.71	362.35
40 05 19 00-1739	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	2,220.30	395.30
40 05 19 00-1740	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	2,984.77	425.16
40 05 19 00-1741	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	3,375.45	536.24
40 05 19 00-1742	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	4,120.64	612.86
40 05 19 00-1743	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	5,197.60	773.73
40 05 19 00-1744	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	7,686.78	854.17
40 05 19 00-1745	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	13,113.17	1,179.75
40 05 19 00-1746	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	18,940.74	1,352.11



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-1747	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	39,311.74	1,562.78
40 05 19 00-1748 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tees				
40 05 19 00-1749	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	829.14	226.76
40 05 19 00-1750	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,031.74	231.35
40 05 19 00-1751	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,027.99	260.46
40 05 19 00-1752	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,365.85	255.87
40 05 19 00-1753	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,345.21	284.98
40 05 19 00-1754	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,418.11	303.36
40 05 19 00-1755	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,737.44	268.89
40 05 19 00-1756	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,729.48	298.00
40 05 19 00-1757	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,826.30	316.39
40 05 19 00-1758	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,176.05	375.37
40 05 19 00-1759	EA	14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,544.67	279.62
40 05 19 00-1760	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,486.04	308.72
40 05 19 00-1761	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,595.52	327.11
40 05 19 00-1762	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,736.98	386.10
40 05 19 00-1763	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,902.85	406.40
40 05 19 00-1764	EA	16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,089.43	312.17
40 05 19 00-1765	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,840.78	341.29
40 05 19 00-1766	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,792.64	359.67
40 05 19 00-1767	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,277.50	418.66
40 05 19 00-1768	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,177.37	438.96
40 05 19 00-1769	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,546.40	457.73
40 05 19 00-1770	EA	18" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,782.05	346.65
40 05 19 00-1771	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,838.12	375.76
40 05 19 00-1772	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,424.74	394.14
40 05 19 00-1773	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,431.07	453.13
40 05 19 00-1774	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,736.28	473.43
40 05 19 00-1775	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,081.38	492.20
40 05 19 00-1776	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,362.22	570.72
40 05 19 00-1777	EA	20" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,398.06	400.27
40 05 19 00-1778	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,186.07	429.38
40 05 19 00-1779	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,271.63	447.77
40 05 19 00-1780	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,448.27	506.75
40 05 19 00-1781	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,622.58	527.05
40 05 19 00-1782	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,680.58	545.82
40 05 19 00-1783	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,639.79	624.35
40 05 19 00-1784	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,761.34	666.48
40 05 19 00-1785	EA	24" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,555.18	434.74
40 05 19 00-1786	EA	24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,788.61	463.86
40 05 19 00-1787	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,006.47	482.25
40 05 19 00-1788	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,201.40	541.23
40 05 19 00-1789	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,834.54	561.53
40 05 19 00-1790	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,978.40	580.30
40 05 19 00-1791	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,173.37	658.82
40 05 19 00-1792	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,130.21	700.96
40 05 19 00-1793	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,407.13	749.03
40 05 19 00-1794	EA	30" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	9,880.85	559.62
40 05 19 00-1795	EA	30" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	9,938.27	578.00
40 05 19 00-1796	EA	30" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	10,214.84	636.99
40 05 19 00-1797	EA	30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	10,245.59	657.29
40 05 19 00-1798	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	10,274.03	676.06
40 05 19 00-1799	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	10,485.90	754.58
40 05 19 00-1800	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	10,611.65	796.71
40 05 19 00-1801	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	10,927.56	903.96
40 05 19 00-1802	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	14,009.14	949.93
40 05 19 00-1803	EA	36" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	13,627.15	800.93
40 05 19 00-1804	EA	36" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	14,582.33	815.48
40 05 19 00-1805	EA	36" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	14,676.56	857.23
40 05 19 00-1806	EA	36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	14,794.40	873.70
40 05 19 00-1807	EA	36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	14,847.99	888.64
40 05 19 00-1808	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	14,994.08	944.18
40 05 19 00-1809	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	15,083.08	982.49
40 05 19 00-1810	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	15,328.81	1,062.92
40 05 19 00-1811	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	15,669.82	1,103.14
40 05 19 00-1812	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	20,538.51	1,265.94
40 05 19 00-1813	EA	42" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	24,448.55	692.91
40 05 19 00-1814	EA	42" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	22,094.61	751.90
40 05 19 00-1815	EA	42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	22,125.37	772.20
40 05 19 00-1816	EA	42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	22,186.19	790.97
40 05 19 00-1817	EA	42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	22,371.31	869.49
40 05 19 00-1818	EA	42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	22,601.22	911.63
40 05 19 00-1819	EA	42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	22,763.72	1,018.87
40 05 19 00-1820	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	23,097.96	1,064.84
40 05 19 00-1821	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	29,271.57	1,294.66
40 05 19 00-1822	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	37,631.61	1,415.32
40 05 19 00-1823	EA	48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	29,928.24	896.69
40 05 19 00-1824	EA	48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	29,956.67	915.46
40 05 19 00-1825	EA	48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	30,174.18	993.97

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1826 EA 48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	30,238.02	1,036.11
40 05 19 00-1827 EA 48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	30,531.40	1,143.36
40 05 19 00-1828 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	30,833.27	1,189.33
40 05 19 00-1829 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	31,645.94	1,419.15
40 05 19 00-1830 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees With Base <small>(40 05 19 00-0001)</small>		
40 05 19 00-1831 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	712.93	203.00
40 05 19 00-1832 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	970.93	249.74
40 05 19 00-1833 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	1,420.38	278.85
40 05 19 00-1834 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	2,163.35	362.35
40 05 19 00-1835 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	2,912.76	395.30
40 05 19 00-1836 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	3,255.00	425.16
40 05 19 00-1837 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	4,039.76	536.24
40 05 19 00-1838 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	4,910.22	612.86
40 05 19 00-1839 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	6,560.00	773.73
40 05 19 00-1840 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	9,462.97	854.17
40 05 19 00-1841 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	15,878.79	1,179.75
40 05 19 00-1842 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	22,654.98	1,352.11
40 05 19 00-1843 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wyes <small>(40 05 19 00-0001)</small>		
40 05 19 00-1844 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	577.82	203.00
40 05 19 00-1845 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	810.48	249.74
40 05 19 00-1846 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,176.89	278.85
40 05 19 00-1847 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,546.90	362.35
40 05 19 00-1848 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	2,213.26	395.30
40 05 19 00-1849 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	2,877.81	425.16
40 05 19 00-1850 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Crosses <small>(40 05 19 00-0001)</small>		
40 05 19 00-1851 EA 4" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	793.82	279.62
40 05 19 00-1852 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,051.60	302.98
40 05 19 00-1853 EA 6" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,112.85	337.84
40 05 19 00-1854 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,301.21	307.96
40 05 19 00-1855 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,417.63	348.56
40 05 19 00-1856 EA 8" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,466.93	374.61
40 05 19 00-1857 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,687.41	332.48
40 05 19 00-1858 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,857.30	373.08
40 05 19 00-1859 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,031.87	399.13
40 05 19 00-1860 EA 10" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,522.53	492.58
40 05 19 00-1861 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,190.72	345.12
40 05 19 00-1862 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,305.72	385.72
40 05 19 00-1863 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,481.70	411.77
40 05 19 00-1864 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,999.10	505.22
40 05 19 00-1865 EA 12" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,820.50	533.18
40 05 19 00-1866 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,753.23	396.83
40 05 19 00-1867 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,927.81	422.87
40 05 19 00-1868 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,258.01	516.33
40 05 19 00-1869 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,543.86	544.29
40 05 19 00-1870 EA 14" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,717.61	570.72
40 05 19 00-1871 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,288.12	429.38
40 05 19 00-1872 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,488.03	455.43
40 05 19 00-1873 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,818.24	548.89
40 05 19 00-1874 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,130.84	576.86
40 05 19 00-1875 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,773.95	603.28
40 05 19 00-1876 EA 16" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,681.79	727.77
40 05 19 00-1877 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,421.98	463.86
40 05 19 00-1878 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,620.48	489.91
40 05 19 00-1879 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,897.21	583.36
40 05 19 00-1880 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,208.40	611.32
40 05 19 00-1881 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,839.56	637.76
40 05 19 00-1882 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,271.67	762.24
40 05 19 00-1883 EA 18" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,508.98	812.04
40 05 19 00-1884 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,464.53	517.48
40 05 19 00-1885 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,677.09	543.53
40 05 19 00-1886 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,934.12	636.99
40 05 19 00-1887 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,266.41	664.95
40 05 19 00-1888 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,364.16	691.38
40 05 19 00-1889 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,537.99	815.87
40 05 19 00-1890 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,786.54	865.66
40 05 19 00-1891 EA 20" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,437.05	1,026.54
40 05 19 00-1892 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,907.31	551.95
40 05 19 00-1893 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,060.77	578.00
40 05 19 00-1894 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,405.05	671.47
40 05 19 00-1895 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,621.94	699.42
40 05 19 00-1896 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,749.23	725.85
40 05 19 00-1897 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,140.53	850.34
40 05 19 00-1898 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,273.65	900.13



MINOR	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1899	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,802.11	1,001.84
40 05 19 00-1900	EA	24" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	10,790.92	1,118.46
40 05 19 00-1901	EA	30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	10,920.38	795.18
40 05 19 00-1902	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	10,991.39	821.61
40 05 19 00-1903	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	11,396.76	946.10
40 05 19 00-1904	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	11,534.13	995.89
40 05 19 00-1905	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	12,119.88	1,156.77
40 05 19 00-1906	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	15,776.20	1,214.22
40 05 19 00-1907	EA	30" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	17,908.10	1,578.11
40 05 19 00-1908	EA	36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	15,435.41	1,011.60
40 05 19 00-1909	EA	36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	15,469.65	1,034.20
40 05 19 00-1910	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	15,812.04	1,135.70
40 05 19 00-1911	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	15,942.21	1,181.66
40 05 19 00-1912	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	16,425.41	1,315.73
40 05 19 00-1913	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	17,000.60	1,367.44
40 05 19 00-1914	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	23,004.12	1,664.29
40 05 19 00-1915	EA	36" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	25,225.07	1,819.42
40 05 19 00-1916	EA	42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	22,831.13	910.10
40 05 19 00-1917	EA	42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	22,871.17	936.52
40 05 19 00-1918	EA	42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	23,258.24	1,061.01
40 05 19 00-1919	EA	42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	23,366.05	1,110.80
40 05 19 00-1920	EA	42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	23,908.18	1,271.67
40 05 19 00-1921	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	24,492.05	1,329.13
40 05 19 00-1922	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	31,530.30	1,693.02
40 05 19 00-1923	EA	42" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	43,603.47	1,882.62
40 05 19 00-1924	EA	48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	32,268.61	2,114.36
40 05 19 00-1925	EA	48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	30,638.85	1,061.01
40 05 19 00-1926	EA	48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	31,027.33	1,185.49
40 05 19 00-1927	EA	48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	31,135.14	1,235.29
40 05 19 00-1928	EA	48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	31,643.49	1,396.16
40 05 19 00-1929	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	32,227.37	1,453.62
40 05 19 00-1930	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	33,672.44	1,817.51

40 05 19 00-1931 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducers (40 05 19 00-0001)

40 05 19 00-1932	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	423.71	144.02
40 05 19 00-1933	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	542.70	154.74
40 05 19 00-1934	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	597.54	172.37
40 05 19 00-1935	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	731.83	179.26
40 05 19 00-1936	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	737.43	196.88
40 05 19 00-1937	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	863.45	207.61
40 05 19 00-1938	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	937.36	192.28
40 05 19 00-1939	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	968.28	209.91
40 05 19 00-1940	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,061.93	220.63
40 05 19 00-1941	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,194.78	245.15
40 05 19 00-1942	EA	14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,472.14	209.91
40 05 19 00-1943	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,168.89	220.63
40 05 19 00-1944	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,293.52	231.35
40 05 19 00-1945	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,422.15	255.87
40 05 19 00-1946	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,381.36	268.89
40 05 19 00-1947	EA	16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,743.25	235.57
40 05 19 00-1948	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,408.23	253.18
40 05 19 00-1949	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,328.78	263.92
40 05 19 00-1950	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,481.33	288.42
40 05 19 00-1951	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,839.67	301.06
40 05 19 00-1952	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,980.37	312.17
40 05 19 00-1953	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,206.41	287.66
40 05 19 00-1954	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,744.13	298.39
40 05 19 00-1955	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,916.38	322.90
40 05 19 00-1956	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,903.16	335.54
40 05 19 00-1957	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,193.05	346.65
40 05 19 00-1958	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,187.49	379.20
40 05 19 00-1959	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,255.29	341.29
40 05 19 00-1960	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,185.67	352.01
40 05 19 00-1961	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,367.79	376.53
40 05 19 00-1962	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,306.72	389.16
40 05 19 00-1963	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,665.55	400.27
40 05 19 00-1964	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,498.14	432.83
40 05 19 00-1965	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,085.20	467.31
40 05 19 00-1966	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,961.34	386.48
40 05 19 00-1967	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,346.13	411.00
40 05 19 00-1968	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,600.31	423.63
40 05 19 00-1969	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,695.96	434.74
40 05 19 00-1970	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,265.35	467.31
40 05 19 00-1971	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,946.70	501.78
40 05 19 00-1972	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,170.52	496.23
40 05 19 00-1973	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	5,694.72	563.06
40 05 19 00-1974	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	5,934.14	597.53
40 05 19 00-1975	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,388.36	651.16
40 05 19 00-1976	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	7,061.28	685.63

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

40 05 19 00-1977	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	7,791.33	614.77
40 05 19 00-1978	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	8,184.16	649.24
40 05 19 00-1979	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	8,700.31	702.87
40 05 19 00-1980	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	9,467.53	737.34
40 05 19 00-1981	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	10,915.91	833.10
40 05 19 00-1982	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	13,263.45	800.55
40 05 19 00-1983	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	14,996.12	896.30
40 05 19 00-1984	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	16,961.86	948.01
40 05 19 00-1985	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	16,860.88	925.03
40 05 19 00-1986	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	18,925.72	1,020.79
40 05 19 00-1987	EA	48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	21,156.04	1,072.50
40 05 19 00-1988	EA	48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	23,702.15	1,135.70

40 05 19 00-1989 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducers (40 05 19 00-0001)

40 05 19 00-1990	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	461.71	144.02
40 05 19 00-1991	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	586.33	154.74
40 05 19 00-1992	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	666.50	172.37
40 05 19 00-1993	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	731.83	179.26
40 05 19 00-1994	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	783.88	196.88
40 05 19 00-1995	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	907.08	207.61
40 05 19 00-1996	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	937.36	192.28
40 05 19 00-1997	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,018.95	209.91
40 05 19 00-1998	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,115.41	220.63
40 05 19 00-1999	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,287.67	245.15
40 05 19 00-2000	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,168.89	220.63
40 05 19 00-2001	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,266.78	231.35
40 05 19 00-2002	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,412.30	255.87
40 05 19 00-2003	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,619.22	268.89
40 05 19 00-2004	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,408.23	253.18
40 05 19 00-2005	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,530.04	263.92
40 05 19 00-2006	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,702.30	288.42
40 05 19 00-2007	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,883.30	301.06
40 05 19 00-2008	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,980.37	312.17
40 05 19 00-2009	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,744.13	298.39
40 05 19 00-2010	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,916.38	322.90
40 05 19 00-2011	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,097.39	335.54
40 05 19 00-2012	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,193.05	346.65
40 05 19 00-2013	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,404.23	379.20
40 05 19 00-2014	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,556.48	341.29
40 05 19 00-2015	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,330.64	352.01
40 05 19 00-2016	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,367.79	376.53
40 05 19 00-2017	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,589.61	389.16
40 05 19 00-2018	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,665.55	400.27
40 05 19 00-2019	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,914.74	432.83
40 05 19 00-2020	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,083.79	467.31
40 05 19 00-2021	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,251.27	386.48
40 05 19 00-2022	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,346.13	411.00
40 05 19 00-2023	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,422.97	423.63
40 05 19 00-2024	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,497.51	434.74
40 05 19 00-2025	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,750.92	467.31
40 05 19 00-2026	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,946.70	501.78
40 05 19 00-2027	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	4,170.52	496.23
40 05 19 00-2028	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	6,826.24	530.51
40 05 19 00-2029	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	6,657.41	563.06
40 05 19 00-2030	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	5,965.11	597.53
40 05 19 00-2031	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	6,388.36	651.16
40 05 19 00-2032	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	7,061.28	685.63
40 05 19 00-2033	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	7,853.26	614.77
40 05 19 00-2034	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	8,184.16	649.24
40 05 19 00-2035	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	8,669.35	702.87
40 05 19 00-2036	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	9,433.75	737.34
40 05 19 00-2037	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	10,884.95	833.10
40 05 19 00-2038	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	13,263.45	800.55
40 05 19 00-2039	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	11,196.04	896.30
40 05 19 00-2040	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	16,961.86	948.01
40 05 19 00-2041	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	18,925.72	1,020.79
40 05 19 00-2042	EA	48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	21,156.04	1,072.50
40 05 19 00-2043	EA	48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	23,702.15	1,135.70

40 05 19 00-2044 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flanges (40 05 19 00-0001)

40 05 19 00-2045	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	164.11	49.79
40 05 19 00-2046	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	246.54	73.54
40 05 19 00-2047	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	358.92	87.33
40 05 19 00-2048	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	494.98	101.89
40 05 19 00-2049	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	639.90	119.50
40 05 19 00-2050	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	847.74	134.07
40 05 19 00-2051	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,013.28	153.21



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				40 05 19 00-2052 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,372.14	214.50
				40 05 19 00-2053 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,823.54	268.12
				40 05 19 00-2054 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	2,601.66	325.58
				40 05 19 00-2055 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	3,673.74	379.20
				40 05 19 00-2056 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	6,580.43	417.51
				40 05 19 00-2057 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	9,287.44	459.64
				40 05 19 00-2058 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	12,280.86	517.10
40 05 19 00-2059 Ductile Iron Bolt Packs <small>(40 05 19)</small>						
Note: Labor installation is included with pipe fittings or valves.						
				40 05 19 00-2060 EA 4" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	29.75	
				Note: Includes eight (8) 5/8" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	8.33	
				For Hot Dip Galvanized, Add	11.90	
				40 05 19 00-2061 EA 6" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	45.91	
				Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	12.85	
				For Hot Dip Galvanized, Add	18.36	
				40 05 19 00-2062 EA 8" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	49.85	
				Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	13.96	
				For Hot Dip Galvanized, Add	19.94	
				40 05 19 00-2063 EA 10" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	111.98	
				Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	31.35	
				For Hot Dip Galvanized, Add	44.79	
				40 05 19 00-2064 EA 12" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	112.96	
				Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	31.63	
				For Hot Dip Galvanized, Add	45.18	
				40 05 19 00-2065 EA 14" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	126.56	
				Note: Includes twelve (12) 1" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	35.44	
				For Hot Dip Galvanized, Add	50.62	
				40 05 19 00-2066 EA 16" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	212.76	
				Note: Includes sixteen (16) 1" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	59.57	
				For Hot Dip Galvanized, Add	85.10	
				40 05 19 00-2067 EA 18" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	309.08	
				Note: Includes sixteen (16) 1-1/8" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	86.54	
				For Hot Dip Galvanized, Add	123.63	
				40 05 19 00-2068 EA 20" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	390.26	
				Note: Includes twenty (20) 1-1/8" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	109.27	
				For Hot Dip Galvanized, Add	156.10	
				40 05 19 00-2069 EA 24" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	558.39	
				Note: Includes twenty (20) 1-1/4" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	156.35	
				For Hot Dip Galvanized, Add	223.36	
				40 05 19 00-2070 EA 30" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	882.34	
				Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	247.06	
				For Hot Dip Galvanized, Add	352.94	
				40 05 19 00-2071 EA 36" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	1,258.67	
				Note: Includes thirty-two (32) 1-1/2" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	352.43	
				For Hot Dip Galvanized, Add	503.47	
				40 05 19 00-2072 EA 42" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	1,619.25	
				Note: Includes thirty-six (36) 1-1/2" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	453.39	
				For Hot Dip Galvanized, Add	647.70	
				40 05 19 00-2073 EA 48" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	1,979.08	
				Note: Includes forty-four (44) 1-1/2" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	554.14	
				For Hot Dip Galvanized, Add	791.63	
40 05 19 00-2074 Full Face Flange Gaskets, ANSI/AWWA C115/A21.15 <small>(40 05 19)</small>						
Note: Labor installation is included with pipe fittings or valves.						
40 05 19 00-2075 Full Face Flange Styrene Butadiene (SBR) Gaskets <small>(40 05 19 00-2074)</small>						
				40 05 19 00-2076 EA 4" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	8.04	
				40 05 19 00-2077 EA 6" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	10.24	
				40 05 19 00-2078 EA 8" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	13.89	
				40 05 19 00-2079 EA 10" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	16.09	
				40 05 19 00-2080 EA 12" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	17.55	
				40 05 19 00-2081 EA 14" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	29.25	
				40 05 19 00-2082 EA 16" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	35.83	
				40 05 19 00-2083 EA 18" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	38.02	
				40 05 19 00-2084 EA 20" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	58.50	
				40 05 19 00-2085 EA 24" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	62.89	
				40 05 19 00-2086 EA 30" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	81.17	
				40 05 19 00-2087 EA 36" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	92.87	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2088	EA	42" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick		99.45	
40 05 19 00-2089	EA	48" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick		108.96	
40 05 19 00-2090		Full Face Flange Nitrile Buna-N (NBR) Gaskets (40 05 19 00-2074)			
Note: (Acrylonitrile Butadiene)					
40 05 19 00-2091	EA	4" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		24.86	
40 05 19 00-2092	EA	6" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		35.10	
40 05 19 00-2093	EA	8" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		54.11	
40 05 19 00-2094	EA	10" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		59.23	
40 05 19 00-2095	EA	12" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		63.62	
40 05 19 00-2096	EA	14" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		119.92	
40 05 19 00-2097	EA	16" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		147.71	
40 05 19 00-2098	EA	18" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		148.44	
40 05 19 00-2099	EA	20" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		154.29	
40 05 19 00-2100	EA	24" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		163.07	
40 05 19 00-2101	EA	30" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		180.62	
40 05 19 00-2102	EA	36" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		198.90	
40 05 19 00-2103	EA	42" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		282.99	
40 05 19 00-2104	EA	48" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick		309.32	
40 05 19 00-2105		Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gaskets (40 05 19 00-2074)			
Note: (Polybutadiene)					
40 05 19 00-2106	EA	4" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		21.94	
40 05 19 00-2107	EA	6" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		28.52	
40 05 19 00-2108	EA	8" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		38.76	
40 05 19 00-2109	EA	10" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		45.34	
40 05 19 00-2110	EA	12" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		50.46	
40 05 19 00-2111	EA	14" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		83.36	
40 05 19 00-2112	EA	16" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		100.18	
40 05 19 00-2113	EA	18" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		100.91	
40 05 19 00-2114	EA	20" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		103.11	
40 05 19 00-2115	EA	24" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		119.92	
40 05 19 00-2116	EA	30" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		146.98	
40 05 19 00-2117	EA	36" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		167.46	
40 05 19 00-2118	EA	42" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		239.85	
40 05 19 00-2119	EA	48" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick		264.71	
40 05 19 00-2120		Full Face Flange Neoprene Gaskets (40 05 19 00-2074)			
Note: (Polychloroprene)					
40 05 19 00-2121	EA	4" Full Face Flange Neoprene Gasket, 1/8" Thick		25.59	
40 05 19 00-2122	EA	6" Full Face Flange Neoprene Gasket, 1/8" Thick		35.83	
40 05 19 00-2123	EA	8" Full Face Flange Neoprene Gasket, 1/8" Thick		54.84	
40 05 19 00-2124	EA	10" Full Face Flange Neoprene Gasket, 1/8" Thick		59.23	
40 05 19 00-2125	EA	12" Full Face Flange Neoprene Gasket, 1/8" Thick		63.62	
40 05 19 00-2126	EA	14" Full Face Flange Neoprene Gasket, 1/8" Thick		84.82	
40 05 19 00-2127	EA	16" Full Face Flange Neoprene Gasket, 1/8" Thick		149.18	
40 05 19 00-2128	EA	18" Full Face Flange Neoprene Gasket, 1/8" Thick		149.91	
40 05 19 00-2129	EA	20" Full Face Flange Neoprene Gasket, 1/8" Thick		158.68	
40 05 19 00-2130	EA	24" Full Face Flange Neoprene Gasket, 1/8" Thick		160.88	
40 05 19 00-2131	EA	30" Full Face Flange Neoprene Gasket, 1/8" Thick		174.77	
40 05 19 00-2132	EA	36" Full Face Flange Neoprene Gasket, 1/8" Thick		196.71	
40 05 19 00-2133	EA	42" Full Face Flange Neoprene Gasket, 1/8" Thick		285.19	
40 05 19 00-2134	EA	48" Full Face Flange Neoprene Gasket, 1/8" Thick		312.24	
40 05 19 00-2135		Full Face Flange FKM Gaskets (40 05 19 00-2074)			
Note: (Fluoroelastomer Fluorel Viton®)					
40 05 19 00-2136	EA	4" Full Face Flange FKM Gasket, 1/8" Thick		105.77	
40 05 19 00-2137	EA	6" Full Face Flange FKM Gasket, 1/8" Thick		157.48	
40 05 19 00-2138	EA	8" Full Face Flange FKM Gasket, 1/8" Thick		210.36	
40 05 19 00-2139	EA	10" Full Face Flange FKM Gasket, 1/8" Thick		253.84	
40 05 19 00-2140	EA	12" Full Face Flange FKM Gasket, 1/8" Thick		330.23	
40 05 19 00-2141	EA	14" Full Face Flange FKM Gasket, 1/8" Thick		604.05	
40 05 19 00-2142	EA	16" Full Face Flange FKM Gasket, 1/8" Thick		692.19	
40 05 19 00-2143	EA	18" Full Face Flange FKM Gasket, 1/8" Thick		725.10	
40 05 19 00-2144	EA	20" Full Face Flange FKM Gasket, 1/8" Thick		773.28	
40 05 19 00-2145	EA	24" Full Face Flange FKM Gasket, 1/8" Thick		1,069.43	
40 05 19 00-2146	EA	30" Full Face Flange FKM Gasket, 1/8" Thick		1,282.14	
40 05 19 00-2147	EA	36" Full Face Flange FKM Gasket, 1/8" Thick		1,352.66	
40 05 19 00-2148	EA	42" Full Face Flange FKM Gasket, 1/8" Thick		1,686.41	
40 05 19 00-2149	EA	48" Full Face Flange FKM Gasket, 1/8" Thick		1,767.50	
40 05 19 00-2150		Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100) (40 05 19)			
40 05 19 00-2151	EA	4" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)		362.66	68.43
40 05 19 00-2152	EA	6" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)		503.17	83.53
40 05 19 00-2153	EA	8" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)		745.03	101.88
40 05 19 00-2154	EA	10" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)		1,023.40	124.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2155 EA 12" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	1,299.30	151.56
40 05 19 00-2156 EA 14" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	2,088.01	184.92
40 05 19 00-2157 EA 16" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	3,284.31	225.67
40 05 19 00-2158 EA 18" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	3,390.77	275.24
40 05 19 00-2159 EA 20" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	4,154.24	335.87
40 05 19 00-2160 EA 24" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	4,628.34	409.67
40 05 19 00-2161 EA 30" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	5,965.21	499.90
40 05 19 00-2162 EA 36" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	8,869.33	609.79
40 05 19 00-2163 EA 42" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	23,129.73	744.02
40 05 19 00-2164 EA 48" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	29,544.44	907.64

40 05 23 Stainless Steel Process Pipe and Tubing (40 05)

40 05 23 23 300- and 400-Series Stainless Steel Process Pipe (40 05 23)

40 05 23 23-0001 Schedule 40 Pipe, Type 304, With 150 LB Screwed Fittings Assembly (40 05 23 23)

<i>Note: Includes hangers and fittings. Fittings are assumed every 10'. Not for use where detail is available.</i>		
40 05 23 23-0002 LF 1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	34.23	9.12
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
	4.13	
	5.50	
40 05 23 23-0003 LF 3/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	38.45	10.46
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
	4.33	
	6.53	
40 05 23 23-0004 LF 1" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	44.81	11.79
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
	5.08	
	7.58	
40 05 23 23-0005 LF 1-1/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	51.88	14.25
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
	6.41	
	8.17	
40 05 23 23-0006 LF 1-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	57.42	14.65
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
	7.35	
	8.75	
40 05 23 23-0007 LF 2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	69.60	19.37
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
	8.96	
	10.55	
40 05 23 23-0008 LF 2-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	102.78	23.87
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
	15.40	
	13.06	
40 05 23 23-0009 LF 3" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	130.41	27.67
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
	20.06	
	15.98	
40 05 23 23-0010 LF 4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	178.67	27.67
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Work In Restricted Working Space, Add</i>		
	20.27	

40 05 23 23-0011 Stainless Steel Tubing And Fittings (40 05 23 23)

40 05 23 23-0012 Type 304 Tubing (40 05 23 23-0011)

40 05 23 23-0013 0.035" Wall (40 05 23 23-0012)

40 05 23 23-0014 LF 1/4", 0.035" Wall, Type 304, Stainless Steel Tubing	8.09	3.00
<i>For Work In Restricted Working Space, Add</i>		
	1.79	
40 05 23 23-0015 LF 3/8", 0.035" Wall, Type 304, Stainless Steel Tubing	9.38	3.57
<i>For Work In Restricted Working Space, Add</i>		
	2.15	
40 05 23 23-0016 LF 1/2", 0.035" Wall, Type 304, Stainless Steel Tubing	11.21	4.23
<i>For Work In Restricted Working Space, Add</i>		
	2.51	
40 05 23 23-0017 LF 5/8", 0.035" Wall, Type 304, Stainless Steel Tubing	18.23	4.79
<i>For Work In Restricted Working Space, Add</i>		
	2.87	
40 05 23 23-0018 LF 3/4", 0.035" Wall, Type 304, Stainless Steel Tubing	21.61	5.34
<i>For Work In Restricted Working Space, Add</i>		
	3.23	
40 05 23 23-0019 LF 7/8", 0.035" Wall, Type 304, Stainless Steel Tubing	23.92	6.02
<i>For Work In Restricted Working Space, Add</i>		
	3.59	
40 05 23 23-0020 LF 1", 0.035" Wall, Type 304, Stainless Steel Tubing	26.74	7.23
<i>For Work In Restricted Working Space, Add</i>		
	4.31	

40 05 23 23-0021 0.049" Wall (40 05 23 23-0012)

40 05 23 23-0022 LF 1/4", 0.049" Wall, Type 304, Stainless Steel Tubing	13.45	3.57
<i>For Work In Restricted Working Space, Add</i>		
	2.15	
40 05 23 23-0023 LF 3/8", 0.049" Wall, Type 304, Stainless Steel Tubing	15.01	4.23
<i>For Work In Restricted Working Space, Add</i>		
	2.51	
40 05 23 23-0024 LF 1/2", 0.049" Wall, Type 304, Stainless Steel Tubing	18.04	4.79
<i>For Work In Restricted Working Space, Add</i>		
	2.87	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0025	LF	5/8"	0.049" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	22.83 3.59	6.02
40 05 23 23-0026	LF	3/4"	0.049" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	26.13 4.31	7.23
40 05 23 23-0027	LF	7/8"	0.049" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	29.35 5.02	8.35
40 05 23 23-0028	LF	1"	0.049" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	33.87 5.71	9.46
40 05 23 23-0029			0.065" Wall <small>(40 05 23 23-0012)</small>		
40 05 23 23-0030	LF	1/4"	0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	15.72 2.51	4.23
40 05 23 23-0031	LF	3/8"	0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	18.08 2.87	4.79
40 05 23 23-0032	LF	1/2"	0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	22.30 3.59	6.02
40 05 23 23-0033	LF	5/8"	0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	26.22 4.31	7.23
40 05 23 23-0034	LF	3/4"	0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	30.91 5.02	8.35
40 05 23 23-0035	LF	7/8"	0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	35.53 5.71	9.46
40 05 23 23-0036	LF	1"	0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	40.04 6.42	10.69
40 05 23 23-0037			Type 304 Tube Fittings <small>(40 05 23 23-0011)</small>		
40 05 23 23-0038			90 Degree Elbows <small>(40 05 23 23-0037)</small>		
40 05 23 23-0039	EA	1/4"	Type 304, Stainless Steel, 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	50.75 7.18	12.02
40 05 23 23-0040	EA	3/8"	Type 304, Stainless Steel, 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	60.00 7.86	13.14
40 05 23 23-0041	EA	1/2"	Type 304, Stainless Steel, 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	90.29 8.90	14.80
40 05 23 23-0042	EA	5/8"	Type 304, Stainless Steel, 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	96.46 9.97	16.58
40 05 23 23-0043	EA	3/4"	Type 304, Stainless Steel, 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	107.88 10.77	17.93
40 05 23 23-0044	EA	7/8"	Type 304, Stainless Steel, 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	147.28 11.93	19.93
40 05 23 23-0045	EA	1"	Type 304, Stainless Steel, 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	187.53 14.21	23.71
40 05 23 23-0046			Union Tees <small>(40 05 23 23-0037)</small>		
40 05 23 23-0047	EA	1/4"	Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	80.49 10.77	17.93
40 05 23 23-0048	EA	3/8"	Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	97.60 11.93	19.93
40 05 23 23-0049	EA	1/2"	Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	133.26 13.36	22.27
40 05 23 23-0050	EA	5/8"	Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	143.41 15.18	25.27
40 05 23 23-0051	EA	3/4"	Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	183.09 16.29	27.16
40 05 23 23-0052	EA	7/8"	Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	290.66 18.05	30.06
40 05 23 23-0053	EA	1"	Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	348.35 21.55	35.96
40 05 23 23-0054			Unions <small>(40 05 23 23-0037)</small>		
40 05 23 23-0055	EA	1/4"	Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	76.94 10.77	17.93
40 05 23 23-0056	EA	3/8"	Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	99.60 11.93	19.93
40 05 23 23-0057	EA	1/2"	Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	134.57 13.36	22.27
40 05 23 23-0058	EA	5/8"	Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	164.01 15.18	25.27
40 05 23 23-0059	EA	3/4"	Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	195.63 16.29	27.16
40 05 23 23-0060	EA	7/8"	Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	300.66 18.05	30.06
40 05 23 23-0061	EA	1"	Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	320.00 21.55	35.96
40 05 23 23-0062			Male Connectors <small>(40 05 23 23-0037)</small>		
40 05 23 23-0063	EA	1/4" x 1/4"	Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	38.05 7.18	12.02



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0064 EA 3/8" x 3/8", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	47.51 7.86	13.14
40 05 23 23-0065 EA 1/2" x 1/2", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	61.57 8.90	14.80
40 05 23 23-0066 EA 5/8" x 5/8" Male Connection, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	69.39 9.97	16.58
40 05 23 23-0067 EA 3/4" x 3/4", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	83.82 10.77	17.93
40 05 23 23-0068 EA 7/8" x 7/8", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	126.18 11.93	19.93
40 05 23 23-0069 EA 1" x 1", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	132.17 14.21	23.71
40 05 23 23-0070 Type 304 Valves (40 05 23 23-0011)		
40 05 23 23-0071 Gate Valves (40 05 23 23-0070)		
40 05 23 23-0072 EA 1/4" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	173.43 9.72	17.93
40 05 23 23-0073 EA 3/8" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	288.41 10.24	21.04
40 05 23 23-0074 EA 1/2" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	301.66 14.21	23.71
40 05 23 23-0075 EA 3/4" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	334.74 16.29	27.16
40 05 23 23-0076 EA 1" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	311.39 21.55	35.96
40 05 23 23-0077 Globe Valves (40 05 23 23-0070)		
40 05 23 23-0078 EA 1/4" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	175.74 9.72	17.93
40 05 23 23-0079 EA 3/8" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	118.48 10.24	21.04
40 05 23 23-0080 EA 1/2" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	210.26 14.21	23.71
40 05 23 23-0081 EA 3/4" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	234.36 16.29	27.16
40 05 23 23-0082 EA 1" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	340.48 21.55	35.96
40 05 23 23-0083 Check Valves (40 05 23 23-0070)		
40 05 23 23-0084 EA 1/4" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	243.64 9.72	17.93
40 05 23 23-0085 EA 3/8" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	245.35 10.24	21.04
40 05 23 23-0086 EA 1/2" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	165.44 14.21	23.71
40 05 23 23-0087 EA 3/4" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	174.09 16.29	27.16
40 05 23 23-0088 EA 1" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	195.03 21.55	35.96
40 05 23 23-0089 Plug Valves (40 05 23 23-0070)		
40 05 23 23-0090 EA 1/2" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	376.34 14.21	23.71
40 05 23 23-0091 EA 3/4" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	412.51 16.29	27.16
40 05 23 23-0092 EA 1" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	469.02 21.55	35.96
40 05 23 23-0093 EA 1-1/2" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	647.94 24.38	40.64
40 05 23 23-0094 EA 2" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	844.78 33.40	55.66
40 05 23 23-0095 Type 316 Tubing (40 05 23 23-0011)		
40 05 23 23-0096 0.035" Wall (40 05 23 23-0095)		
40 05 23 23-0097 LF 1/4" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	8.42 1.79	3.00
40 05 23 23-0098 LF 3/8" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	10.96 2.15	3.57
40 05 23 23-0099 LF 1/2" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	12.18 2.51	4.23
40 05 23 23-0100 LF 5/8" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	20.79 2.87	4.79
40 05 23 23-0101 LF 3/4" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	23.59 3.23	5.34
40 05 23 23-0102 LF 7/8" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	30.03 3.59	6.02

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0103 LF 1" Stainless Steel Tubing, Type 316, 0.035" Wall..... <i>For Work In Restricted Working Space, Add</i>	31.48 4.31	7.23
40 05 23 23-0104 0.049" Wall <small>(40 05 23 23-0095)</small>		
40 05 23 23-0105 LF 1/4" Stainless Steel Tubing, Type 316, 0.049" Wall..... <i>For Work In Restricted Working Space, Add</i>	14.83 2.15	3.57
40 05 23 23-0106 LF 3/8" Stainless Steel Tubing, Type 316, 0.049" Wall..... <i>For Work In Restricted Working Space, Add</i>	16.45 2.51	4.23
40 05 23 23-0107 LF 1/2" Stainless Steel Tubing, Type 316, 0.049" Wall..... <i>For Work In Restricted Working Space, Add</i>	19.38 2.87	4.79
40 05 23 23-0108 LF 5/8" Stainless Steel Tubing, Type 316, 0.049" Wall..... <i>For Work In Restricted Working Space, Add</i>	25.32 3.59	6.02
40 05 23 23-0109 LF 3/4" Stainless Steel Tubing, Type 316, 0.049" Wall..... <i>For Work In Restricted Working Space, Add</i>	29.22 4.31	7.23
40 05 23 23-0110 LF 7/8" Stainless Steel Tubing, Type 316, 0.049" Wall..... <i>For Work In Restricted Working Space, Add</i>	37.31 5.02	8.35
40 05 23 23-0111 LF 1" Stainless Steel Tubing, Type 316, 0.049" Wall..... <i>For Work In Restricted Working Space, Add</i>	38.04 5.71	9.46
40 05 23 23-0112 0.065" Wall <small>(40 05 23 23-0095)</small>		
40 05 23 23-0113 LF 1/4" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	17.35 2.51	4.23
40 05 23 23-0114 LF 3/8" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	19.33 2.87	4.79
40 05 23 23-0115 LF 1/2" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	24.26 3.59	6.02
40 05 23 23-0116 LF 5/8" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	28.92 4.31	7.23
40 05 23 23-0117 LF 3/4" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	35.05 5.02	8.35
40 05 23 23-0118 LF 7/8" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	38.60 5.71	9.46
40 05 23 23-0119 LF 1" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	44.99 6.42	10.69
40 05 23 23-0120 Type 316 Tube Fittings <small>(40 05 23 23-0011)</small>		
40 05 23 23-0121 90 Degree Elbows <small>(40 05 23 23-0120)</small>		
40 05 23 23-0122 EA 1/4" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	70.10 7.18	12.02
40 05 23 23-0123 EA 3/8" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	84.40 7.86	13.14
40 05 23 23-0124 EA 1/2" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	134.05 8.90	14.80
40 05 23 23-0125 EA 5/8" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	142.11 9.97	16.58
40 05 23 23-0126 EA 3/4" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	159.85 10.77	17.93
40 05 23 23-0127 EA 7/8" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	224.91 11.93	19.93
40 05 23 23-0128 EA 1" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	288.72 14.21	23.71
40 05 23 23-0129 Union Tees <small>(40 05 23 23-0120)</small>		
40 05 23 23-0130 EA 1/4" Union Tee, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	112.68 10.77	17.93
40 05 23 23-0131 EA 3/8" Union Tee, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	139.36 11.93	19.93
40 05 23 23-0132 EA 1/2" Union Tee, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	197.32 13.36	22.27
40 05 23 23-0133 EA 5/8" Union Tee, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	210.41 15.18	25.27
40 05 23 23-0134 EA 3/4" Union Tee, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	276.08 16.29	27.16
40 05 23 23-0135 EA 7/8" Union Tee, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	457.07 18.05	30.06
40 05 23 23-0136 EA 1" Union Tee, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	547.99 21.55	35.96
40 05 23 23-0137 Unions <small>(40 05 23 23-0120)</small>		
40 05 23 23-0138 EA 1/4" Union, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	72.04 10.77	17.93
40 05 23 23-0139 EA 3/8" Union, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	92.45 11.93	19.93
40 05 23 23-0140 EA 1/2" Union, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	123.81 13.36	22.27
40 05 23 23-0141 EA 5/8" Union, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	150.45 15.18	25.27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0142 EA 3/4" Union, Stainless Steel Type 316.....	178.74	27.16
<i>For Work In Restricted Working Space, Add</i>	16.29	
40 05 23 23-0143 EA 7/8" Union, Stainless Steel Type 316.....	271.91	30.06
<i>For Work In Restricted Working Space, Add</i>	18.05	
40 05 23 23-0144 EA 1" Union, Stainless Steel Type 316.....	290.34	35.96
<i>For Work In Restricted Working Space, Add</i>	21.55	
40 05 23 23-0145 Male Connectors <small>(40 05 23 23-0120)</small>		
40 05 23 23-0146 EA 1/4" x 1/4" Male Connector, Stainless Steel Type 316.....	48.02	12.02
<i>For Work In Restricted Working Space, Add</i>	7.18	
40 05 23 23-0147 EA 3/8" x 3/8" Male Connector, Stainless Steel Type 316.....	62.58	13.14
<i>For Work In Restricted Working Space, Add</i>	7.86	
40 05 23 23-0148 EA 1/2" x 1/2" Male Connector, Stainless Steel Type 316.....	84.12	14.80
<i>For Work In Restricted Working Space, Add</i>	8.90	
40 05 23 23-0149 EA 5/8" x 5/8" Male Connector, Stainless Steel Type 316.....	94.95	16.58
<i>For Work In Restricted Working Space, Add</i>	9.97	
40 05 23 23-0150 EA 3/4" x 3/4" Male Connector, Stainless Steel Type 316.....	117.70	17.93
<i>For Work In Restricted Working Space, Add</i>	10.77	
40 05 23 23-0151 EA 7/8" x 7/8" Male Connector, Stainless Steel Type 316.....	187.28	19.93
<i>For Work In Restricted Working Space, Add</i>	11.93	
40 05 23 23-0152 EA 1" x 1" Male Connector, Stainless Steel Type 316.....	192.13	23.71
<i>For Work In Restricted Working Space, Add</i>	14.21	
40 05 23 23-0153 Type 316 Valves <small>(40 05 23 23-0011)</small>		
40 05 23 23-0154 Gate Valves <small>(40 05 23 23-0153)</small>		
40 05 23 23-0155 EA 1/4" Gate Valve, Stainless Steel Type 316	218.97	17.93
<i>For Work In Restricted Working Space, Add</i>	9.72	
40 05 23 23-0156 EA 3/8" Gate Valve, Stainless Steel Type 316	370.51	21.04
<i>For Work In Restricted Working Space, Add</i>	10.24	
40 05 23 23-0157 EA 1/2" Gate Valve, Stainless Steel Type 316	383.76	23.71
<i>For Work In Restricted Working Space, Add</i>	14.21	
40 05 23 23-0158 EA 3/4" Gate Valve, Stainless Steel Type 316	425.28	27.16
<i>For Work In Restricted Working Space, Add</i>	16.29	
40 05 23 23-0159 EA 1" Gate Valve, Stainless Steel Type 316	388.74	35.96
<i>For Work In Restricted Working Space, Add</i>	21.55	
40 05 23 23-0160 EA 1-1/4" Gate Valve, Stainless Steel Type 316	530.07	37.29
<i>For Work In Restricted Working Space, Add</i>	22.37	
40 05 23 23-0161 EA 1-1/2" Gate Valve, Stainless Steel Type 316	845.26	40.64
<i>For Work In Restricted Working Space, Add</i>	24.38	
40 05 23 23-0162 EA 2" Gate Valve, Stainless Steel Type 316	1,007.76	55.66
<i>For Work In Restricted Working Space, Add</i>	33.40	
40 05 23 23-0163 EA 2-1/2" Gate Valve, Stainless Steel Type 316	1,527.83	178.22
<i>For Work In Restricted Working Space, Add</i>	106.90	
40 05 23 23-0164 Globe Valves <small>(40 05 23 23-0153)</small>		
40 05 23 23-0165 EA 1/4" Globe Valve, Stainless Steel Type 316	222.02	17.93
<i>For Work In Restricted Working Space, Add</i>	9.72	
40 05 23 23-0166 EA 3/8" Globe Valve, Stainless Steel Type 316	145.72	21.04
<i>For Work In Restricted Working Space, Add</i>	10.24	
40 05 23 23-0167 EA 1/2" Globe Valve, Stainless Steel Type 316	262.86	23.71
<i>For Work In Restricted Working Space, Add</i>	14.21	
40 05 23 23-0168 EA 3/4" Globe Valve, Stainless Steel Type 316	292.49	27.16
<i>For Work In Restricted Working Space, Add</i>	16.29	
40 05 23 23-0169 EA 1" Globe Valve, Stainless Steel Type 316	427.23	35.96
<i>For Work In Restricted Working Space, Add</i>	21.55	
40 05 23 23-0170 EA 1-1/4" Globe Valve, Stainless Steel Type 316	530.99	37.07
<i>For Work In Restricted Working Space, Add</i>	22.21	
40 05 23 23-0171 EA 1-1/2" Globe Valve, Stainless Steel Type 316	875.82	40.64
<i>For Work In Restricted Working Space, Add</i>	24.38	
40 05 23 23-0172 EA 2" Globe Valve, Stainless Steel Type 316	1,038.32	55.66
<i>For Work In Restricted Working Space, Add</i>	33.40	
40 05 23 23-0173 EA 2-1/2" Globe Valve, Stainless Steel Type 316	1,334.28	178.22
<i>For Work In Restricted Working Space, Add</i>	106.90	
40 05 23 23-0174 Check Valves <small>(40 05 23 23-0153)</small>		
40 05 23 23-0175 EA 1/4" Check Valve, Stainless Steel Type 316.....	311.85	17.93
<i>For Work In Restricted Working Space, Add</i>	9.72	
40 05 23 23-0176 EA 3/8" Check Valve, Stainless Steel Type 316.....	313.56	21.04
<i>For Work In Restricted Working Space, Add</i>	10.24	
40 05 23 23-0177 EA 1/2" Check Valve, Stainless Steel Type 316.....	203.57	23.71
<i>For Work In Restricted Working Space, Add</i>	14.21	
40 05 23 23-0178 EA 3/4" Check Valve, Stainless Steel Type 316.....	212.76	27.16
<i>For Work In Restricted Working Space, Add</i>	16.29	
40 05 23 23-0179 EA 1" Check Valve, Stainless Steel Type 316.....	234.81	35.96
<i>For Work In Restricted Working Space, Add</i>	21.55	
40 05 23 23-0180 EA 1-1/4" Check Valve, Stainless Steel Type 316.....	320.90	37.29
<i>For Work In Restricted Working Space, Add</i>	22.37	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0181	EA		1-1/2" Check Valve, Stainless Steel Type 316.....	702.65	40.64
			<i>For Work In Restricted Working Space, Add</i>	24.38	
40 05 23 23-0182	EA		2" Check Valve, Stainless Steel Type 316.....	854.96	55.66
			<i>For Work In Restricted Working Space, Add</i>	33.40	
40 05 23 23-0183	EA		2-1/2" Check Valve, Stainless Steel Type 316.....	1,714.59	178.22
			<i>For Work In Restricted Working Space, Add</i>	106.90	
40 05 23 23-0184			Diaphragm Valves, Ethylene Propylene Diene Monomer (EPDM) Lined <small>(40 05 23 23-0153)</small>		
40 05 23 23-0185	EA		1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined.....	336.96	23.71
			<i>For Work In Restricted Working Space, Add</i>	14.21	
40 05 23 23-0186	EA		3/4" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined.....	393.48	27.16
			<i>For Work In Restricted Working Space, Add</i>	16.29	
40 05 23 23-0187	EA		1" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined.....	502.24	35.96
			<i>For Work In Restricted Working Space, Add</i>	21.55	
40 05 23 23-0188	EA		1-1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined.....	795.31	40.64
			<i>For Work In Restricted Working Space, Add</i>	24.38	
40 05 23 23-0189	EA		2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined.....	1,111.01	55.66
			<i>For Work In Restricted Working Space, Add</i>	33.40	
40 05 23 23-0190			Diaphragm Valves, Teflon Lined <small>(40 05 23 23-0153)</small>		
40 05 23 23-0191	EA		1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined.....	444.07	23.71
			<i>For Work In Restricted Working Space, Add</i>	14.21	
40 05 23 23-0192	EA		3/4" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined.....	510.51	27.16
			<i>For Work In Restricted Working Space, Add</i>	16.29	
40 05 23 23-0193	EA		1" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined.....	619.27	35.96
			<i>For Work In Restricted Working Space, Add</i>	21.55	
40 05 23 23-0194	EA		1-1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined.....	959.94	40.64
			<i>For Work In Restricted Working Space, Add</i>	24.38	
40 05 23 23-0195	EA		2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined.....	1,307.37	55.66
			<i>For Work In Restricted Working Space, Add</i>	33.40	
40 05 23 23-0196			Strainers <small>(40 05 23 23-0153)</small>		
40 05 23 23-0197	EA		1/2" Strainer, Stainless Steel Type 316.....	445.10	23.71
			<i>For Work In Restricted Working Space, Add</i>	14.21	
40 05 23 23-0198	EA		3/4" Strainer, Stainless Steel Type 316.....	532.36	27.28
			<i>For Work In Restricted Working Space, Add</i>	16.37	
40 05 23 23-0199	EA		1" Strainer, Stainless Steel Type 316.....	696.70	36.18
			<i>For Work In Restricted Working Space, Add</i>	21.71	
40 05 23 23-0200	EA		1-1/4" Strainer, Stainless Steel Type 316.....	862.85	37.29
			<i>For Work In Restricted Working Space, Add</i>	22.38	
40 05 23 23-0201	EA		1-1/2" Strainer, Stainless Steel Type 316.....	1,081.21	40.64
			<i>For Work In Restricted Working Space, Add</i>	24.38	
40 05 23 23-0202	EA		2" Strainer, Stainless Steel Type 316.....	1,558.38	55.66
			<i>For Work In Restricted Working Space, Add</i>	33.40	
40 05 23 23-0203	EA		2-1/2" Strainer, Stainless Steel Type 316.....	2,140.92	74.03
			<i>For Work In Restricted Working Space, Add</i>	44.42	
40 05 23 23-0204	EA		3" Strainer, Stainless Steel Type 316.....	3,118.80	111.32
			<i>For Work In Restricted Working Space, Add</i>	66.80	
40 05 23 23-0205	EA		4" Strainer, Stainless Steel Type 316.....	4,002.56	178.11
			<i>For Work In Restricted Working Space, Add</i>	106.86	
40 05 23 23-0206			Plug Valves <small>(40 05 23 23-0153)</small>		
40 05 23 23-0207	EA		1/2" Plug Valve, Stainless Steel Type 316.....	473.85	23.71
			<i>For Work In Restricted Working Space, Add</i>	14.21	
40 05 23 23-0208	EA		3/4" Plug Valve, Stainless Steel Type 316.....	518.69	27.16
			<i>For Work In Restricted Working Space, Add</i>	16.29	
40 05 23 23-0209	EA		1" Plug Valve, Stainless Steel Type 316.....	586.76	35.96
			<i>For Work In Restricted Working Space, Add</i>	21.55	
40 05 23 23-0210	EA		1-1/2" Plug Valve, Stainless Steel Type 316.....	815.92	40.64
			<i>For Work In Restricted Working Space, Add</i>	24.38	
40 05 23 23-0211	EA		2" Plug Valve, Stainless Steel Type 316.....	1,062.20	55.66
			<i>For Work In Restricted Working Space, Add</i>	33.40	
40 05 23 23-0212			Cut And Prepare Existing Pipe In-Place <small>(40 05 23 23-0011)</small>		
			Note: For use when connecting pipe to an existing in-place system.		
40 05 23 23-0213	EA		Cut And Prepare 1/2" Stainless Steel Pipe.....	22.26	
40 05 23 23-0214	EA		Cut And Prepare 3/4" Stainless Steel Pipe.....	24.03	
40 05 23 23-0215	EA		Cut And Prepare 1" Stainless Steel Pipe.....	27.04	
40 05 23 23-0216	EA		Cut And Prepare 1-1/4" Stainless Steel Pipe.....	28.37	
40 05 23 23-0217	EA		Cut And Prepare 1-1/2" Stainless Steel Pipe.....	30.04	
40 05 23 23-0218	EA		Cut And Prepare 2" Stainless Steel Pipe.....	32.27	
40 05 23 23-0219	EA		Cut And Prepare 2-1/2" Stainless Steel Pipe.....	34.50	
40 05 23 23-0220	EA		Cut And Prepare 3" Stainless Steel Pipe.....	37.83	
40 05 23 23-0221	EA		Cut And Prepare 4" Stainless Steel Pipe.....	41.17	
40 05 23 23-0222	EA		Cut And Prepare 6" Stainless Steel Pipe.....	44.51	
40 05 23 23-0223	EA		Cut And Prepare 8" Stainless Steel Pipe.....	47.85	
40 05 23 23-0224	EA		Cut And Prepare 10" Stainless Steel Pipe.....	52.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0225 EA Cut And Prepare 12" Stainless Steel Pipe	56.75	
40 05 23 23-0226 EA Cut And Prepare 14" Stainless Steel Pipe	61.20	
40 05 23 23-0227 EA Cut And Prepare 16" Stainless Steel Pipe	65.65	
40 05 23 23-0228 EA Cut And Prepare 18" Stainless Steel Pipe	68.99	
40 05 23 23-0229 EA Cut And Prepare 20" Stainless Steel Pipe	72.32	
40 05 23 23-0230 EA Cut And Prepare 24" Stainless Steel Pipe	76.78	
40 05 23 23-0231 Stainless Steel Pipe And Fittings (40 05 23 23)		
40 05 23 23-0232 Type 304, Schedule 40 Stainless Steel Pipe And 150 LB Threaded Fittings		
<i>(40 05 23 23-0231)</i>		
40 05 23 23-0233 Type 304, Schedule 40 Stainless Steel Threaded Pipe (40 05 23 23-0232)		
40 05 23 23-0234 LF 1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	17.38	4.79
<i>For Work In Restricted Working Space, Add</i>	2.87	
40 05 23 23-0235 LF 3/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	21.38	6.02
<i>For Work In Restricted Working Space, Add</i>	3.59	
40 05 23 23-0236 LF 1" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	26.33	7.23
<i>For Work In Restricted Working Space, Add</i>	4.31	
40 05 23 23-0237 LF 1-1/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	31.68	8.35
<i>For Work In Restricted Working Space, Add</i>	5.02	
40 05 23 23-0238 LF 1-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	36.70	9.46
<i>For Work In Restricted Working Space, Add</i>	5.71	
40 05 23 23-0239 LF 2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	46.93	12.02
<i>For Work In Restricted Working Space, Add</i>	7.18	
40 05 23 23-0240 LF 2-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	64.03	14.25
<i>For Work In Restricted Working Space, Add</i>	8.57	
40 05 23 23-0241 LF 3" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	80.48	17.93
<i>For Work In Restricted Working Space, Add</i>	10.77	
40 05 23 23-0242 LF 4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	109.07	23.71
<i>For Work In Restricted Working Space, Add</i>	14.21	
40 05 23 23-0243 150#, Type 304 Stainless Steel Threaded 90 Degree Elbows (40 05 23 23-0232)		
40 05 23 23-0244 EA 1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	38.49	17.93
<i>For Work In Restricted Working Space, Add</i>	10.77	
40 05 23 23-0245 EA 3/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	51.05	23.71
<i>For Work In Restricted Working Space, Add</i>	14.21	
40 05 23 23-0246 EA 1", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	65.54	30.06
<i>For Work In Restricted Working Space, Add</i>	18.05	
40 05 23 23-0247 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	91.62	41.19
<i>For Work In Restricted Working Space, Add</i>	24.74	
40 05 23 23-0248 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	109.00	48.42
<i>For Work In Restricted Working Space, Add</i>	29.04	
40 05 23 23-0249 EA 2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	132.67	58.55
<i>For Work In Restricted Working Space, Add</i>	35.15	
40 05 23 23-0250 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	220.80	92.73
<i>For Work In Restricted Working Space, Add</i>	55.66	
40 05 23 23-0251 EA 3", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	284.32	119.67
<i>For Work In Restricted Working Space, Add</i>	71.82	
40 05 23 23-0252 EA 4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	384.52	148.39
<i>For Work In Restricted Working Space, Add</i>	89.06	
40 05 23 23-0253 150#, Type 304 Stainless Steel Threaded 45 Degree Elbows (40 05 23 23-0232)		
40 05 23 23-0254 EA 1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	39.08	17.93
<i>For Work In Restricted Working Space, Add</i>	10.77	
40 05 23 23-0255 EA 3/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	52.01	23.71
<i>For Work In Restricted Working Space, Add</i>	14.21	
40 05 23 23-0256 EA 1", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	65.83	30.06
<i>For Work In Restricted Working Space, Add</i>	18.05	
40 05 23 23-0257 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	91.51	41.19
<i>For Work In Restricted Working Space, Add</i>	24.74	
40 05 23 23-0258 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	107.58	48.42
<i>For Work In Restricted Working Space, Add</i>	29.04	
40 05 23 23-0259 EA 2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	132.34	58.55
<i>For Work In Restricted Working Space, Add</i>	35.15	
40 05 23 23-0260 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	227.22	92.73
<i>For Work In Restricted Working Space, Add</i>	55.66	
40 05 23 23-0261 EA 3", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	296.85	119.67
<i>For Work In Restricted Working Space, Add</i>	71.82	
40 05 23 23-0262 EA 4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	399.12	148.39
<i>For Work In Restricted Working Space, Add</i>	89.06	
40 05 23 23-0263 150#, Type 304 Stainless Steel Threaded Tees (40 05 23 23-0232)		
40 05 23 23-0264 EA 1/2", 150#, Type 304 Stainless Steel Threaded Tee.....	57.80	27.16
<i>For Work In Restricted Working Space, Add</i>	16.29	
40 05 23 23-0265 EA 3/4", 150#, Type 304 Stainless Steel Threaded Tee.....	77.37	35.96
<i>For Work In Restricted Working Space, Add</i>	21.55	
40 05 23 23-0266 EA 1", 150#, Type 304 Stainless Steel Threaded Tee.....	96.13	44.53
<i>For Work In Restricted Working Space, Add</i>	26.72	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0267 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	137.74 37.11	61.90
40 05 23 23-0268 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	156.62 41.75	69.57
40 05 23 23-0269 EA 2", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	207.98 55.66	92.73
40 05 23 23-0270 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	316.35 80.47	134.14
40 05 23 23-0271 EA 3", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	428.43 107.73	179.56
40 05 23 23-0272 EA 4", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	570.49 133.59	222.65
40 05 23 23-0273 150#, Type 304 Stainless Steel Threaded Reducers (40 05 23 23-0232)		
40 05 23 23-0274 EA 3/4", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	50.61 14.21	23.71
40 05 23 23-0275 EA 1", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	64.59 18.05	30.06
40 05 23 23-0276 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	88.93 24.74	41.19
40 05 23 23-0277 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	106.11 29.04	48.42
40 05 23 23-0278 EA 2", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	132.73 35.15	58.55
40 05 23 23-0279 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	218.90 55.66	92.73
40 05 23 23-0280 EA 3", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	286.91 71.82	119.67
40 05 23 23-0281 EA 4", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	375.56 89.06	148.39
40 05 23 23-0282 150#, Type 304 Stainless Steel Threaded Caps (40 05 23 23-0232)		
40 05 23 23-0283 EA 1/2", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	19.68 5.39	9.02
40 05 23 23-0284 EA 3/4", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	26.09 7.18	12.02
40 05 23 23-0285 EA 1", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	32.90 8.90	14.80
40 05 23 23-0286 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	47.84 12.60	21.04
40 05 23 23-0287 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	55.01 14.21	23.71
40 05 23 23-0288 EA 2", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	69.91 18.05	30.06
40 05 23 23-0289 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	106.64 26.72	44.53
40 05 23 23-0290 EA 3", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	141.48 35.15	58.55
40 05 23 23-0291 EA 4", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	189.55 44.53	74.25
40 05 23 23-0292 150#, Type 304 Stainless Steel Threaded Unions (40 05 23 23-0232)		
40 05 23 23-0293 EA 1/2", 150#, Type 304 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	61.53 16.29	27.16
40 05 23 23-0294 EA 3/4", 150#, Type 304 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	80.98 21.55	35.96
40 05 23 23-0295 EA 1", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	102.89 26.72	44.53
40 05 23 23-0296 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	147.69 37.11	61.90
40 05 23 23-0297 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	166.27 41.75	69.57
40 05 23 23-0298 EA 2", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	218.03 55.66	92.73
40 05 23 23-0299 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	366.30 83.49	139.15
40 05 23 23-0300 EA 3", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	469.94 107.74	179.56
40 05 23 23-0301 EA 4", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	476.76 89.07	148.45
40 05 23 23-0302 150#, Type 304 Stainless Steel Threaded Couplings (40 05 23 23-0232)		
40 05 23 23-0303 EA 1/2", 150#, Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	38.24 10.77	17.93
40 05 23 23-0304 EA 3/4", 150#, Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	50.72 14.21	23.71
40 05 23 23-0305 EA 1", 150#, Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	65.27 18.05	30.06



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0306 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	90.57 24.74	41.19
40 05 23 23-0307 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	106.42 29.04	48.42
40 05 23 23-0308 EA 2", 150#, Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	130.75 35.15	58.55
40 05 23 23-0309 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	215.32 55.66	92.73
40 05 23 23-0310 EA 3", 150#, Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	277.90 71.82	119.67
40 05 23 23-0311 EA 4", 150#, Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	356.69 89.06	148.39
40 05 23 23-0312 Type 316, Schedule 40 Stainless Steel Pipe And 150 LB Threaded Fittings		
<small>(40 05 23 23-0231)</small>		
40 05 23 23-0313 Type 316, Schedule 40 Stainless Steel Threaded Pipe <small>(40 05 23 23-0312)</small>		
40 05 23 23-0314 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	21.52 2.87	4.79
40 05 23 23-0315 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	25.46 3.59	6.02
40 05 23 23-0316 LF 1" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	32.19 4.31	7.23
40 05 23 23-0317 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	39.35 5.02	8.35
40 05 23 23-0318 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	45.79 5.71	9.46
40 05 23 23-0319 LF 2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	59.10 7.18	12.02
40 05 23 23-0320 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	81.04 8.57	14.25
40 05 23 23-0321 LF 3" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	105.84 10.77	17.93
40 05 23 23-0322 LF 4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	142.08 14.21	23.71
40 05 23 23-0323 150#, Type 316 Stainless Steel Threaded 90 Degree Elbows <small>(40 05 23 23-0312)</small>		
40 05 23 23-0324 EA 1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	39.26 10.77	17.93
40 05 23 23-0325 EA 3/4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	52.21 14.21	23.71
40 05 23 23-0326 EA 1", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	66.25 18.05	30.06
40 05 23 23-0327 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	92.89 24.74	41.19
40 05 23 23-0328 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	110.70 29.04	48.42
40 05 23 23-0329 EA 2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	134.76 35.15	58.55
40 05 23 23-0330 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	224.15 55.66	92.73
40 05 23 23-0331 EA 3", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	292.53 71.82	119.67
40 05 23 23-0332 EA 4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	394.49 89.06	148.39
40 05 23 23-0333 150#, Type 316 Stainless Steel Threaded 45 Degree Elbows <small>(40 05 23 23-0312)</small>		
40 05 23 23-0334 EA 1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	39.89 10.77	17.93
40 05 23 23-0335 EA 3/4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	52.60 14.21	23.71
40 05 23 23-0336 EA 1", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	66.71 18.05	30.06
40 05 23 23-0337 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	92.76 24.74	41.19
40 05 23 23-0338 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	109.05 29.04	48.42
40 05 23 23-0339 EA 2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	134.30 35.15	58.55
40 05 23 23-0340 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	230.38 55.66	92.73
40 05 23 23-0341 EA 3", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	304.11 71.82	119.67
40 05 23 23-0342 EA 4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	418.71 89.06	148.39
40 05 23 23-0343 150#, Type 316 Stainless Steel Threaded Tees <small>(40 05 23 23-0312)</small>		
40 05 23 23-0344 EA 1/2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	58.63 16.29	27.16

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0345 EA 3/4", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	78.21 21.55	35.96
40 05 23 23-0346 EA 1", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	97.07 26.72	44.53
40 05 23 23-0347 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	139.65 37.11	61.90
40 05 23 23-0348 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	158.51 41.75	69.57
40 05 23 23-0349 EA 2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	210.47 55.66	92.73
40 05 23 23-0350 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	326.53 80.47	134.14
40 05 23 23-0351 EA 3", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	442.31 107.73	179.56
40 05 23 23-0352 EA 4", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	580.84 133.59	222.65
40 05 23 23-0353 150#, Type 316 Stainless Steel Threaded Reducers (40 05 23 23-0312)		
40 05 23 23-0354 EA 3/4", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	51.32 14.21	23.71
40 05 23 23-0355 EA 1", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	66.69 18.05	30.06
40 05 23 23-0356 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	89.33 24.74	41.19
40 05 23 23-0357 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	108.17 29.04	48.42
40 05 23 23-0358 EA 2", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	136.35 35.15	58.55
40 05 23 23-0359 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	227.13 55.66	92.73
40 05 23 23-0360 EA 3", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	295.99 71.82	119.67
40 05 23 23-0361 EA 4", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	390.70 89.06	148.39
40 05 23 23-0362 150#, Type 316 Stainless Steel Threaded Caps (40 05 23 23-0312)		
40 05 23 23-0363 EA 1/2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	20.14 5.39	9.02
40 05 23 23-0364 EA 3/4", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	26.43 7.18	12.02
40 05 23 23-0365 EA 1", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	33.51 8.90	14.80
40 05 23 23-0366 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	49.54 12.60	21.04
40 05 23 23-0367 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	57.03 14.21	23.71
40 05 23 23-0368 EA 2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	72.54 18.05	30.06
40 05 23 23-0369 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	110.98 26.72	44.53
40 05 23 23-0370 EA 3", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	145.89 35.15	58.55
40 05 23 23-0371 EA 4", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	198.30 44.53	74.25
40 05 23 23-0372 150#, Type 316 Stainless Steel Threaded Unions (40 05 23 23-0312)		
40 05 23 23-0373 EA 1/2", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	62.52 16.29	27.16
40 05 23 23-0374 EA 3/4", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	84.73 21.55	35.96
40 05 23 23-0375 EA 1", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	104.79 26.72	44.53
40 05 23 23-0376 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	150.91 37.11	61.90
40 05 23 23-0377 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	170.04 41.75	69.57
40 05 23 23-0378 EA 2", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	222.39 55.66	92.73
40 05 23 23-0379 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	372.99 83.49	139.15
40 05 23 23-0380 EA 3", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	490.77 107.74	179.56
40 05 23 23-0381 EA 4", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	521.17 89.07	148.45
40 05 23 23-0382 150#, Type 316 Stainless Steel Threaded Couplings (40 05 23 23-0312)		
40 05 23 23-0383 EA 1/2", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	39.81 10.77	17.93



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0384 EA 3/4", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	51.45 14.21	23.71
40 05 23 23-0385 EA 1", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	65.96 18.05	30.06
40 05 23 23-0386 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	91.67 24.74	41.19
40 05 23 23-0387 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	107.75 29.04	48.42
40 05 23 23-0388 EA 2", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	132.58 35.15	58.55
40 05 23 23-0389 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	221.73 55.66	92.73
40 05 23 23-0390 EA 3", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	286.15 71.82	119.67
40 05 23 23-0391 EA 4", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	369.07 89.06	148.39
40 05 23 23-0392 Type 304, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings <small>(40 05 23 23-0231)</small>		
40 05 23 23-0393 Type 304, Schedule 10 Stainless Steel Pipe <small>(40 05 23 23-0392)</small>		
40 05 23 23-0394 LF 1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	19.49 2.81	4.68
40 05 23 23-0395 LF 3/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	23.16 3.43	5.71
40 05 23 23-0396 LF 1" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	30.88 4.02	6.75
40 05 23 23-0397 LF 1-1/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	37.66 5.03	8.42
40 05 23 23-0398 LF 1-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	41.86 5.67	9.45
40 05 23 23-0399 LF 2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	51.77 7.02	11.74
40 05 23 23-0400 LF 2-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	62.03 8.02	13.41
40 05 23 23-0401 LF 3" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	73.37 9.04	15.07
40 05 23 23-0402 LF 4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	92.38 10.69	17.87
40 05 23 23-0403 LF 6" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	135.38 14.04	23.48
40 05 23 23-0404 LF 8" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	223.95 26.50	41.24
40 05 23 23-0405 LF 10" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	288.15 29.15	45.35
40 05 23 23-0406 LF 12" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	345.99 32.39	50.42
40 05 23 23-0407 LF 14" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	427.20 36.44	56.68
40 05 23 23-0408 LF 16" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	469.71 41.64	64.78
40 05 23 23-0409 LF 18" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	525.39 48.58	75.57
40 05 23 23-0410 LF 20" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	733.54 58.30	90.69
40 05 23 23-0411 LF 24" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	958.06 72.88	113.37
40 05 23 23-0412 Type 304, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbow <small>(40 05 23 23-0392)</small>		
40 05 23 23-0413 EA 1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	122.66 35.53	53.30
40 05 23 23-0414 EA 3/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	129.94 37.72	56.57
40 05 23 23-0415 EA 1", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	143.14 41.45	62.17
40 05 23 23-0416 EA 1-1/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	156.18 45.17	67.76
40 05 23 23-0417 EA 1-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	172.51 49.89	74.83
40 05 23 23-0418 EA 2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	192.71 55.50	83.26
40 05 23 23-0419 EA 2-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	249.96 71.04	106.56
40 05 23 23-0420 EA 3", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	293.17 83.25	124.88
40 05 23 23-0421 EA 4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	357.77 99.65	149.47
40 05 23 23-0422 EA 6", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	483.54 124.49	186.72
40 05 23 23-0423 EA 8", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	819.94 208.22	312.33

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0424 EA 10", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,195.43 277.62	416.42
40 05 23 23-0425 EA 12", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,804.15 416.43	624.64
40 05 23 23-0426 EA 14", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,130.08 485.84	728.76
40 05 23 23-0427 EA 16", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,493.95 554.19	831.28
40 05 23 23-0428 EA 18", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,148.87 694.05	1,041.09
40 05 23 23-0429 EA 20", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,392.07 971.68	1,457.51
40 05 23 23-0430 EA 24", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,301.70 1,388.11	2,082.16
40 05 23 23-0431 Type 304, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbow (40 05 23 23-0392)		
40 05 23 23-0432 EA 1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	123.91 35.53	53.30
40 05 23 23-0433 EA 3/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	131.19 37.72	56.57
40 05 23 23-0434 EA 1", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	144.63 41.45	62.17
40 05 23 23-0435 EA 1-1/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	158.17 45.17	67.76
40 05 23 23-0436 EA 1-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	172.76 49.89	74.83
40 05 23 23-0437 EA 2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	192.71 55.50	83.26
40 05 23 23-0438 EA 2-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	248.72 71.04	106.56
40 05 23 23-0439 EA 3", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	290.93 83.25	124.88
40 05 23 23-0440 EA 4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	353.54 99.65	149.47
40 05 23 23-0441 EA 6", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	461.43 124.49	186.72
40 05 23 23-0442 EA 8", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	777.27 208.22	312.33
40 05 23 23-0443 EA 10", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,119.47 277.62	416.42
40 05 23 23-0444 EA 12", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,683.89 416.43	624.64
40 05 23 23-0445 EA 14", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,982.48 485.84	728.76
40 05 23 23-0446 EA 16", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,311.78 554.19	831.28
40 05 23 23-0447 EA 18", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,909.64 694.05	1,041.09
40 05 23 23-0448 EA 20", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,069.26 971.68	1,457.51
40 05 23 23-0449 EA 24", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	5,843.78 1,388.11	2,082.16
40 05 23 23-0450 Type 304, Schedule 10 Stainless Steel Butt Weld Tee (40 05 23 23-0392)		
40 05 23 23-0451 EA 1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	164.21 45.16	67.74
40 05 23 23-0452 EA 3/4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	198.47 55.44	83.16
40 05 23 23-0453 EA 1", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	221.31 62.29	93.44
40 05 23 23-0454 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	251.97 71.04	106.56
40 05 23 23-0455 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	267.84 76.25	114.37
40 05 23 23-0456 EA 2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	291.88 83.17	124.74
40 05 23 23-0457 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	373.55 99.65	149.47
40 05 23 23-0458 EA 3", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	443.11 124.88	187.32
40 05 23 23-0459 EA 4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	507.45 140.16	210.23
40 05 23 23-0460 EA 6", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	730.03 186.87	280.30
40 05 23 23-0461 EA 8", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,177.98 277.62	416.42
40 05 23 23-0462 EA 10", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,804.15 416.43	624.64
40 05 23 23-0463 EA 12", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,313.02 520.54	780.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0464 EA 14", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,838.63 625.54	938.32
40 05 23 23-0465 EA 16", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	3,440.97 763.10	1,144.64
40 05 23 23-0466 EA 18", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	4,378.81 971.68	1,457.51
40 05 23 23-0467 EA 20", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	5,846.23 1,278.52	1,917.79
40 05 23 23-0468 EA 24", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	8,776.45 1,943.35	2,915.02
40 05 23 23-0469 Type 304, Schedule 10 Stainless Steel Butt Weld Reducing Tees <small>(40 05 23 23-0392)</small>		
40 05 23 23-0470 EA 3/4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	150.14 37.73	56.59
40 05 23 23-0471 EA 1", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	178.48 46.24	69.36
40 05 23 23-0472 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	217.63 51.95	77.93
40 05 23 23-0473 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	227.99 59.23	88.84
40 05 23 23-0474 EA 2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	239.72 63.64	95.45
40 05 23 23-0475 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	305.99 69.35	104.02
40 05 23 23-0476 EA 3", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	361.10 83.13	124.69
40 05 23 23-0477 EA 4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	445.75 103.90	155.86
40 05 23 23-0478 EA 6", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	579.14 118.72	178.08
40 05 23 23-0479 EA 8", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,063.67 173.51	260.27
40 05 23 23-0480 EA 10", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,728.60 231.35	347.03
40 05 23 23-0481 EA 12", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,477.35 347.03	520.53
40 05 23 23-0482 EA 14", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,003.80 416.91	625.37
40 05 23 23-0483 EA 16", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,716.65 508.55	762.83
40 05 23 23-0484 EA 18", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,795.39 647.78	971.67
40 05 23 23-0485 EA 20", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	6,788.80 852.35	1,278.52
40 05 23 23-0486 EA 24", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	10,602.07 1,294.42	1,941.62
40 05 23 23-0487 Type 304, Schedule 10 Stainless Steel Butt Weld Reducers <small>(40 05 23 23-0392)</small>		
40 05 23 23-0488 EA 3/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	122.82 34.31	51.47
40 05 23 23-0489 EA 1", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	135.08 37.39	56.08
40 05 23 23-0490 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	149.74 41.45	62.17
40 05 23 23-0491 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	159.78 45.17	67.76
40 05 23 23-0492 EA 2", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	174.50 49.89	74.83
40 05 23 23-0493 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	232.16 62.34	93.51
40 05 23 23-0494 EA 3", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	262.67 70.97	106.45
40 05 23 23-0495 EA 4", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	307.09 83.17	124.74
40 05 23 23-0496 EA 6", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	395.68 105.88	158.82
40 05 23 23-0497 EA 8", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	623.91 166.58	249.86
40 05 23 23-0498 EA 10", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	792.03 208.22	312.33
40 05 23 23-0499 EA 12", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,064.17 277.62	416.42
40 05 23 23-0500 EA 14", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,503.21 364.38	546.57
40 05 23 23-0501 EA 16", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,752.98 415.25	622.87
40 05 23 23-0502 EA 18", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,162.18 520.54	780.80
40 05 23 23-0503 EA 20", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,019.00 694.05	1,041.09
40 05 23 23-0504 EA 24", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	4,371.19 1,041.08	1,561.62

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0505 EA 3/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	146.18	51.47
For Work In Restricted Working Space, Add	34.31	
40 05 23 23-0506 EA 1", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	152.23	56.08
For Work In Restricted Working Space, Add	37.39	
40 05 23 23-0507 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	161.49	62.17
For Work In Restricted Working Space, Add	41.45	
40 05 23 23-0508 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	181.15	67.76
For Work In Restricted Working Space, Add	45.17	
40 05 23 23-0509 EA 2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	189.91	74.83
For Work In Restricted Working Space, Add	49.89	
40 05 23 23-0510 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	249.06	93.51
For Work In Restricted Working Space, Add	62.34	
40 05 23 23-0511 EA 3", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	279.32	106.45
For Work In Restricted Working Space, Add	70.97	
40 05 23 23-0512 EA 4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	319.97	124.74
For Work In Restricted Working Space, Add	83.17	
40 05 23 23-0513 EA 6", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	442.15	158.82
For Work In Restricted Working Space, Add	105.88	
40 05 23 23-0514 EA 8", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	723.54	249.86
For Work In Restricted Working Space, Add	166.58	
40 05 23 23-0515 EA 10", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	986.36	312.33
For Work In Restricted Working Space, Add	208.22	
40 05 23 23-0516 EA 12", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	1,243.74	416.42
For Work In Restricted Working Space, Add	277.62	
40 05 23 23-0517 EA 14", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	1,917.45	546.57
For Work In Restricted Working Space, Add	364.38	
40 05 23 23-0518 EA 16", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	2,227.63	622.87
For Work In Restricted Working Space, Add	415.25	
40 05 23 23-0519 EA 18", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	2,741.47	780.80
For Work In Restricted Working Space, Add	520.54	
40 05 23 23-0520 EA 20", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	3,947.28	1,041.09
For Work In Restricted Working Space, Add	694.05	
40 05 23 23-0521 EA 24", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	5,601.46	1,561.62
For Work In Restricted Working Space, Add	1,041.08	
40 05 23 23-0522 Type 304, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 23-0392)		
40 05 23 23-0523 EA 1/2", Type 304, Schedule 10 Stainless Steel Cap	66.92	26.65
For Work In Restricted Working Space, Add	17.77	
40 05 23 23-0524 EA 3/4", Type 304, Schedule 10 Stainless Steel Cap	73.30	28.28
For Work In Restricted Working Space, Add	18.86	
40 05 23 23-0525 EA 1", Type 304, Schedule 10 Stainless Steel Cap	80.52	31.09
For Work In Restricted Working Space, Add	20.73	
40 05 23 23-0526 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Cap	88.60	33.88
For Work In Restricted Working Space, Add	22.59	
40 05 23 23-0527 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Cap	95.33	37.42
For Work In Restricted Working Space, Add	24.95	
40 05 23 23-0528 EA 2", Type 304, Schedule 10 Stainless Steel Cap	103.20	41.63
For Work In Restricted Working Space, Add	27.75	
40 05 23 23-0529 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Cap	133.81	53.28
For Work In Restricted Working Space, Add	35.52	
40 05 23 23-0530 EA 3", Type 304, Schedule 10 Stainless Steel Cap	151.93	62.45
For Work In Restricted Working Space, Add	41.63	
40 05 23 23-0531 EA 4", Type 304, Schedule 10 Stainless Steel Cap	182.98	74.74
For Work In Restricted Working Space, Add	49.82	
40 05 23 23-0532 EA 6", Type 304, Schedule 10 Stainless Steel Cap	235.39	93.51
For Work In Restricted Working Space, Add	62.34	
40 05 23 23-0533 EA 8", Type 304, Schedule 10 Stainless Steel Cap	396.69	156.16
For Work In Restricted Working Space, Add	104.11	
40 05 23 23-0534 EA 10", Type 304, Schedule 10 Stainless Steel Cap	528.31	208.22
For Work In Restricted Working Space, Add	138.81	
40 05 23 23-0535 EA 12", Type 304, Schedule 10 Stainless Steel Cap	779.55	312.32
For Work In Restricted Working Space, Add	208.22	
40 05 23 23-0536 EA 14", Type 304, Schedule 10 Stainless Steel Cap	914.51	364.38
For Work In Restricted Working Space, Add	242.92	
40 05 23 23-0537 EA 16", Type 304, Schedule 10 Stainless Steel Cap	1,058.79	415.64
For Work In Restricted Working Space, Add	277.10	
40 05 23 23-0538 EA 18", Type 304, Schedule 10 Stainless Steel Cap	1,336.26	520.53
For Work In Restricted Working Space, Add	347.03	
40 05 23 23-0539 EA 20", Type 304, Schedule 10 Stainless Steel Cap	1,847.69	728.76
For Work In Restricted Working Space, Add	485.84	
40 05 23 23-0540 EA 24", Type 304, Schedule 10 Stainless Steel Cap	2,715.67	1,041.08
For Work In Restricted Working Space, Add	694.05	
40 05 23 23-0541 Type 304, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)		
40 05 23 23-0542 Type 304, Schedule 40 Stainless Steel Pipe (40 05 23 23-0541)		
40 05 23 23-0543 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	21.98	4.68
For Work In Restricted Working Space, Add	2.81	
40 05 23 23-0544 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	26.69	5.71
For Work In Restricted Working Space, Add	3.43	
40 05 23 23-0545 LF 1" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting	32.78	6.75
For Work In Restricted Working Space, Add	4.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0546 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	40.98 5.03	8.32
40 05 23 23-0547 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	47.26 5.67	9.35
40 05 23 23-0548 LF 2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	60.66 7.02	11.94
40 05 23 23-0549 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	75.59 8.02	13.51
40 05 23 23-0550 LF 3" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	73.13 9.04	15.07
40 05 23 23-0551 LF 4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	122.62 10.69	17.67
40 05 23 23-0552 LF 6" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	192.12 14.04	23.38
40 05 23 23-0553 LF 8" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	337.44 26.50	41.02
40 05 23 23-0554 LF 10" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	429.31 29.15	45.35
40 05 23 23-0555 LF 12" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	536.98 32.39	50.20
40 05 23 23-0556 Type 304, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows <small>(40 05 23 23-0541)</small>		
40 05 23 23-0557 EA 1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	123.66 35.53	53.30
40 05 23 23-0558 EA 3/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	130.94 37.72	56.57
40 05 23 23-0559 EA 1", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	143.89 41.45	62.17
40 05 23 23-0560 EA 1-1/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	156.73 45.17	67.76
40 05 23 23-0561 EA 1-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	173.01 49.89	74.83
40 05 23 23-0562 EA 2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	194.45 55.50	83.26
40 05 23 23-0563 EA 2-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	256.42 71.04	106.56
40 05 23 23-0564 EA 3", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	302.61 83.25	124.88
40 05 23 23-0565 EA 4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	373.67 99.65	149.47
40 05 23 23-0566 EA 6", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	585.19 124.49	186.72
40 05 23 23-0567 EA 8", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	958.45 208.22	312.33
40 05 23 23-0568 EA 10", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,476.45 277.62	416.42
40 05 23 23-0569 EA 12", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,168.65 416.43	624.64
40 05 23 23-0570 EA 14", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,572.27 485.84	728.76
40 05 23 23-0571 EA 16", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,062.00 554.19	831.28
40 05 23 23-0572 EA 18", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,938.16 694.05	1,041.09
40 05 23 23-0573 EA 20", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	5,366.28 971.68	1,457.51
40 05 23 23-0574 EA 24", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	7,691.57 1,388.11	2,082.16
40 05 23 23-0575 Type 304, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows <small>(40 05 23 23-0541)</small>		
40 05 23 23-0576 EA 1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	125.40 35.53	53.30
40 05 23 23-0577 EA 3/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	132.68 37.72	56.57
40 05 23 23-0578 EA 1", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	145.13 41.45	62.17
40 05 23 23-0579 EA 1-1/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	157.99 45.17	67.76
40 05 23 23-0580 EA 1-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	174.25 49.89	74.83
40 05 23 23-0581 EA 2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	194.72 55.50	83.26
40 05 23 23-0582 EA 2-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	256.42 71.04	106.56
40 05 23 23-0583 EA 3", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	295.65 83.25	124.88
40 05 23 23-0584 EA 4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	377.40 99.65	149.47
40 05 23 23-0585 EA 6", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	500.44 124.49	186.72

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0586 EA 8", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	869.60 208.22	312.33
40 05 23 23-0587 EA 10", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,254.48 277.62	416.42
40 05 23 23-0588 EA 12", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,841.19 416.43	624.64
40 05 23 23-0589 EA 14", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,093.41 485.84	728.76
40 05 23 23-0590 EA 16", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,491.86 554.19	831.28
40 05 23 23-0591 EA 18", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,142.76 694.05	1,041.09
40 05 23 23-0592 EA 20", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,292.99 971.68	1,457.51
40 05 23 23-0593 EA 24", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,223.66 1,388.11	2,082.16
40 05 23 23-0594 Type 304, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 23-0541)		
40 05 23 23-0595 EA 1/2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	165.20 45.16	67.74
40 05 23 23-0596 EA 3/4", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	199.46 55.44	83.16
40 05 23 23-0597 EA 1", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	222.30 62.29	93.44
40 05 23 23-0598 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	254.50 71.04	106.56
40 05 23 23-0599 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	268.83 76.25	114.37
40 05 23 23-0600 EA 2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	293.13 83.17	124.74
40 05 23 23-0601 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	376.91 99.65	149.47
40 05 23 23-0602 EA 3", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	448.33 124.88	187.32
40 05 23 23-0603 EA 4", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	513.17 140.16	210.23
40 05 23 23-0604 EA 6", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	769.54 186.87	280.30
40 05 23 23-0605 EA 8", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,295.27 277.62	416.42
40 05 23 23-0606 EA 10", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,164.10 416.43	624.64
40 05 23 23-0607 EA 12", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,692.56 520.54	780.80
40 05 23 23-0608 EA 14", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	3,603.41 625.54	938.32
40 05 23 23-0609 EA 16", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	4,557.50 763.10	1,144.64
40 05 23 23-0610 EA 18", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	5,894.78 971.68	1,457.51
40 05 23 23-0611 EA 20", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	7,624.43 1,278.52	1,917.79
40 05 23 23-0612 EA 24", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	11,664.45 1,943.35	2,915.02
40 05 23 23-0613 Type 304, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0541)		
40 05 23 23-0614 EA 3/4", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	153.37 37.73	56.59
40 05 23 23-0615 EA 1", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	181.71 46.24	69.36
40 05 23 23-0616 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	233.18 51.95	77.93
40 05 23 23-0617 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	232.71 59.23	88.84
40 05 23 23-0618 EA 2", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	239.72 63.64	95.45
40 05 23 23-0619 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	290.10 69.35	104.02
40 05 23 23-0620 EA 3", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	326.06 83.13	124.69
40 05 23 23-0621 EA 4", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	427.36 103.90	155.86
40 05 23 23-0622 EA 6", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	582.13 118.72	178.08
40 05 23 23-0623 EA 8", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	958.18 173.51	260.27
40 05 23 23-0624 EA 10", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,761.61 231.35	347.03
40 05 23 23-0625 EA 12", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,543.38 347.03	520.53
40 05 23 23-0626 EA 14", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,911.15 416.91	625.37



Process Interconnections	40
Common Work Results For Process Interconnections	40 05
Stainless Steel Process Pipe and Tubing	40 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0627 EA 16", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,600.62 508.55	762.83
40 05 23 23-0628 EA 18", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,644.08 647.78	971.67
40 05 23 23-0629 EA 20", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	6,562.20 852.35	1,278.52
40 05 23 23-0630 EA 24", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	10,241.18 1,294.42	1,941.62
40 05 23 23-0631 Type 304, Schedule 40 Stainless Steel Butt Weld Reducers (40 05 23 23-0541)		
40 05 23 23-0632 EA 3/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	125.31 34.31	51.47
40 05 23 23-0633 EA 1", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	137.56 37.39	56.08
40 05 23 23-0634 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	149.92 41.45	62.17
40 05 23 23-0635 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	162.26 45.17	67.76
40 05 23 23-0636 EA 2", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	175.99 49.89	74.83
40 05 23 23-0637 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	232.16 62.34	93.51
40 05 23 23-0638 EA 3", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	253.72 70.97	106.45
40 05 23 23-0639 EA 4", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	294.37 83.17	124.74
40 05 23 23-0640 EA 6", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	397.67 105.88	158.82
40 05 23 23-0641 EA 8", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	666.11 166.58	249.86
40 05 23 23-0642 EA 10", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	864.50 208.22	312.33
40 05 23 23-0643 EA 12", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,128.85 277.62	416.42
40 05 23 23-0644 EA 14", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,648.37 364.38	546.57
40 05 23 23-0645 EA 16", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,935.46 415.25	622.87
40 05 23 23-0646 EA 18", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,531.71 520.54	780.80
40 05 23 23-0647 EA 20", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,454.89 694.05	1,041.09
40 05 23 23-0648 EA 24", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	4,822.59 1,041.08	1,561.62
40 05 23 23-0649 EA 3/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	147.19 34.31	51.47
40 05 23 23-0650 EA 1", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	157.45 37.39	56.08
40 05 23 23-0651 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	179.38 41.45	62.17
40 05 23 23-0652 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	190.34 45.17	67.76
40 05 23 23-0653 EA 2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	204.08 49.89	74.83
40 05 23 23-0654 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	249.06 62.34	93.51
40 05 23 23-0655 EA 3", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	310.13 70.97	106.45
40 05 23 23-0656 EA 4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	340.84 83.17	124.74
40 05 23 23-0657 EA 6", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	462.78 105.88	158.82
40 05 23 23-0658 EA 8", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	725.69 166.58	249.86
40 05 23 23-0659 EA 10", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	984.48 208.22	312.33
40 05 23 23-0660 EA 12", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,341.44 277.62	416.42
40 05 23 23-0661 EA 14", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,169.44 364.38	546.57
40 05 23 23-0662 EA 16", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,461.36 415.25	622.87
40 05 23 23-0663 EA 18", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,212.07 520.54	780.80
40 05 23 23-0664 EA 20", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,179.53 694.05	1,041.09
40 05 23 23-0665 EA 24", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	6,630.86 1,041.08	1,561.62
40 05 23 23-0666 Type 304, Schedule 40 Stainless Steel Butt Weld Caps (40 05 23 23-0541)		
40 05 23 23-0667 EA 1/2", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	67.67 17.77	26.65

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0668 EA 3/4", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	72.55 18.86	28.28
40 05 23 23-0669 EA 1", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	81.27 20.73	31.09
40 05 23 23-0670 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	91.92 22.59	33.88
40 05 23 23-0671 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	98.56 24.95	37.42
40 05 23 23-0672 EA 2", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	102.95 27.75	41.63
40 05 23 23-0673 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	132.14 35.52	53.28
40 05 23 23-0674 EA 3", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	152.93 41.63	62.45
40 05 23 23-0675 EA 4", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	185.96 49.82	74.74
40 05 23 23-0676 EA 6", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	253.78 62.34	93.51
40 05 23 23-0677 EA 8", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	426.22 104.11	156.16
40 05 23 23-0678 EA 10", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	570.06 138.81	208.22
40 05 23 23-0679 EA 12", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	859.13 208.22	312.32
40 05 23 23-0680 EA 14", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	987.41 242.92	364.38
40 05 23 23-0681 EA 16", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,159.07 277.10	415.64
40 05 23 23-0682 EA 18", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,455.11 347.03	520.53
40 05 23 23-0683 EA 20", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	2,006.17 485.84	728.76
40 05 23 23-0684 EA 24", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	2,980.66 694.05	1,041.08
40 05 23 23-0685 Type 316, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-02317)		
40 05 23 23-0686 Type 316, Schedule 10 Stainless Steel Pipe (40 05 23 23-0685)		
40 05 23 23-0687 LF 1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	22.65 2.81	4.68
40 05 23 23-0688 LF 3/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	26.82 3.43	5.71
40 05 23 23-0689 LF 1" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	36.34 4.02	6.75
40 05 23 23-0690 LF 1-1/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	44.18 5.03	8.42
40 05 23 23-0691 LF 1-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	49.04 5.67	9.45
40 05 23 23-0692 LF 2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	60.63 7.02	11.74
40 05 23 23-0693 LF 2-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	73.05 8.02	13.41
40 05 23 23-0694 LF 3" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	86.87 9.04	15.07
40 05 23 23-0695 LF 4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	110.10 10.69	17.87
40 05 23 23-0696 LF 6" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	163.04 14.04	23.48
40 05 23 23-0697 LF 8" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	266.31 26.50	41.24
40 05 23 23-0698 LF 10" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	347.79 29.15	45.35
40 05 23 23-0699 LF 12" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	420.33 32.39	50.42
40 05 23 23-0700 LF 14" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	522.68 36.44	56.68
40 05 23 23-0701 LF 16" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	573.04 41.64	64.78
40 05 23 23-0702 LF 18" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	638.90 48.58	75.57
40 05 23 23-0703 LF 20" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	901.93 58.30	90.69
40 05 23 23-0704 LF 24" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	1,181.39 72.88	113.37
40 05 23 23-0705 Type 316, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0685)		
40 05 23 23-0706 EA 1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	123.91 35.53	53.30
40 05 23 23-0707 EA 3/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	131.19 37.72	56.57



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0708 EA 1", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	144.63 41.45	62.17
40 05 23 23-0709 EA 1-1/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	158.35 45.17	67.76
40 05 23 23-0710 EA 1-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	174.00 49.89	74.83
40 05 23 23-0711 EA 2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	194.45 55.50	83.26
40 05 23 23-0712 EA 2-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	253.19 71.04	106.56
40 05 23 23-0713 EA 3", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	297.89 83.25	124.88
40 05 23 23-0714 EA 4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	364.98 99.65	149.47
40 05 23 23-0715 EA 6", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	502.43 124.49	186.72
40 05 23 23-0716 EA 8", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	855.11 208.22	312.33
40 05 23 23-0717 EA 10", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,276.74 277.62	416.42
40 05 23 23-0718 EA 12", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,915.01 416.43	624.64
40 05 23 23-0719 EA 14", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,234.40 485.84	728.76
40 05 23 23-0720 EA 16", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,658.95 554.19	831.28
40 05 23 23-0721 EA 18", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,346.73 694.05	1,041.09
40 05 23 23-0722 EA 20", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,674.71 971.68	1,457.51
40 05 23 23-0723 EA 24", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,721.69 1,388.11	2,082.16
40 05 23 23-0724 Type 316, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0685)		
40 05 23 23-0725 EA 1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	125.40 35.53	53.30
40 05 23 23-0726 EA 3/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	132.68 37.72	56.57
40 05 23 23-0727 EA 1", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	146.12 41.45	62.17
40 05 23 23-0728 EA 1-1/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	160.34 45.17	67.76
40 05 23 23-0729 EA 1-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	174.00 49.89	74.83
40 05 23 23-0730 EA 2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	194.45 55.50	83.26
40 05 23 23-0731 EA 2-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	251.70 71.04	106.56
40 05 23 23-0732 EA 3", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	295.65 83.25	124.88
40 05 23 23-0733 EA 4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	359.76 99.65	149.47
40 05 23 23-0734 EA 6", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	471.61 124.49	186.72
40 05 23 23-0735 EA 8", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	799.81 208.22	312.33
40 05 23 23-0736 EA 10", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,254.48 277.62	416.42
40 05 23 23-0737 EA 12", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,841.19 416.43	624.64
40 05 23 23-0738 EA 14", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,165.23 485.84	728.76
40 05 23 23-0739 EA 16", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,532.14 554.19	831.28
40 05 23 23-0740 EA 18", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,197.39 694.05	1,041.09
40 05 23 23-0741 EA 20", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,540.53 971.68	1,457.51
40 05 23 23-0742 EA 24", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,542.97 1,388.11	2,082.16
40 05 23 23-0743 Type 316, Schedule 10 Stainless Steel Butt Weld Tees (40 05 23 23-0685)		
40 05 23 23-0744 EA 1/2", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	167.44 45.16	67.74
40 05 23 23-0745 EA 3/4", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	201.70 55.44	83.16
40 05 23 23-0746 EA 1", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	224.54 62.29	93.44
40 05 23 23-0747 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	257.94 71.04	106.56

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0748 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	272.56 76.25	114.37
40 05 23 23-0749 EA 2", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	296.11 83.17	124.74
40 05 23 23-0750 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	360.01 99.65	149.47
40 05 23 23-0751 EA 3", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	451.31 124.88	187.32
40 05 23 23-0752 EA 4", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	518.64 140.16	210.23
40 05 23 23-0753 EA 6", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	762.09 186.87	280.30
40 05 23 23-0754 EA 8", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,262.25 277.62	416.42
40 05 23 23-0755 EA 10", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,966.00 416.43	624.64
40 05 23 23-0756 EA 12", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	2,527.47 520.54	780.80
40 05 23 23-0757 EA 14", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	3,236.28 625.54	938.32
40 05 23 23-0758 EA 16", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	3,826.06 763.10	1,144.64
40 05 23 23-0759 EA 18", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	4,863.33 971.68	1,457.51
40 05 23 23-0760 EA 20", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	6,552.80 1,278.52	1,917.79
40 05 23 23-0761 EA 24", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	9,396.15 1,943.35	2,915.02
40 05 23 23-0762 Type 316, Schedule 10 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0685)		
40 05 23 23-0763 EA 3/4", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	157.84 37.73	56.59
40 05 23 23-0764 EA 1", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	187.67 46.24	69.36
40 05 23 23-0765 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	228.84 51.95	77.93
40 05 23 23-0766 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	235.69 59.23	88.84
40 05 23 23-0767 EA 2", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	250.40 63.64	95.45
40 05 23 23-0768 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	338.30 69.35	104.02
40 05 23 23-0769 EA 3", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	332.02 83.13	124.69
40 05 23 23-0770 EA 4", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	445.75 103.90	155.86
40 05 23 23-0771 EA 6", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	625.12 118.72	178.08
40 05 23 23-0772 EA 8", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	1,197.34 173.51	260.27
40 05 23 23-0773 EA 10", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	2,174.43 231.35	347.03
40 05 23 23-0774 EA 12", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	2,857.15 347.03	520.53
40 05 23 23-0775 EA 14", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	3,255.43 416.91	625.37
40 05 23 23-0776 EA 16", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	4,031.79 508.55	762.83
40 05 23 23-0777 EA 18", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	5,206.35 647.78	971.67
40 05 23 23-0778 EA 20", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	7,404.21 852.35	1,278.52
40 05 23 23-0779 EA 24", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	11,582.23 1,294.42	1,941.62
40 05 23 23-0780 Type 316, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 23-0685)		
40 05 23 23-0781 EA 3/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	125.06 34.31	51.47
40 05 23 23-0782 EA 1", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	137.81 37.39	56.08
40 05 23 23-0783 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	153.71 41.45	62.17
40 05 23 23-0784 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	161.52 45.17	67.76
40 05 23 23-0785 EA 2", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	175.99 49.89	74.83
40 05 23 23-0786 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	231.12 62.34	93.51
40 05 23 23-0787 EA 3", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	268.63 70.97	106.45
40 05 23 23-0788 EA 4", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	296.14 83.17	124.74



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0789 EA 6", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	407.85 105.88	158.82
40 05 23 23-0790 EA 8", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	636.64 166.58	249.86
40 05 23 23-0791 EA 10", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	821.84 208.22	312.33
40 05 23 23-0792 EA 12", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,099.34 277.62	416.42
40 05 23 23-0793 EA 14", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,551.64 364.38	546.57
40 05 23 23-0794 EA 16", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,798.84 415.25	622.87
40 05 23 23-0795 EA 18", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,229.59 520.54	780.80
40 05 23 23-0796 EA 20", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,123.16 694.05	1,041.09
40 05 23 23-0797 EA 24", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	4,555.88 1,041.08	1,561.62
40 05 23 23-0798 EA 3/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	144.37 34.31	51.47
40 05 23 23-0799 EA 1", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	160.75 37.39	56.08
40 05 23 23-0800 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	180.92 41.45	62.17
40 05 23 23-0801 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	193.33 45.17	67.76
40 05 23 23-0802 EA 2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	195.63 49.89	74.83
40 05 23 23-0803 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	258.25 62.34	93.51
40 05 23 23-0804 EA 3", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	296.47 70.97	106.45
40 05 23 23-0805 EA 4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	333.88 83.17	124.74
40 05 23 23-0806 EA 6", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	472.72 105.88	158.82
40 05 23 23-0807 EA 8", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	777.22 166.58	249.86
40 05 23 23-0808 EA 10", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,063.93 208.22	312.33
40 05 23 23-0809 EA 12", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,350.56 277.62	416.42
40 05 23 23-0810 EA 14", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,028.05 364.38	546.57
40 05 23 23-0811 EA 16", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,374.64 415.25	622.87
40 05 23 23-0812 EA 18", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,944.99 520.54	780.80
40 05 23 23-0813 EA 20", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,267.30 694.05	1,041.09
40 05 23 23-0814 EA 24", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	5,914.63 1,041.08	1,561.62
40 05 23 23-0815 Type 316, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 23-0685)		
40 05 23 23-0816 EA 1/2", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	70.16 17.77	26.65
40 05 23 23-0817 EA 3/4", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	77.52 18.86	28.28
40 05 23 23-0818 EA 1", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	85.00 20.73	31.09
40 05 23 23-0819 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	92.91 22.59	33.88
40 05 23 23-0820 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	100.55 24.95	37.42
40 05 23 23-0821 EA 2", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	106.18 27.75	41.63
40 05 23 23-0822 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	132.86 35.52	53.28
40 05 23 23-0823 EA 3", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	157.15 41.63	62.45
40 05 23 23-0824 EA 4", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	188.20 49.82	74.74
40 05 23 23-0825 EA 6", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	244.58 62.34	93.51
40 05 23 23-0826 EA 8", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	413.06 104.11	156.16
40 05 23 23-0827 EA 10", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	548.19 138.81	208.22
40 05 23 23-0828 EA 12", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	808.63 208.22	312.32
40 05 23 23-0829 EA 14", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	940.73 242.92	364.38

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0830 EA 16", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,080.94 277.10	415.64
40 05 23 23-0831 EA 18", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,361.66 347.03	520.53
40 05 23 23-0832 EA 20", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,888.19 485.84	728.76
40 05 23 23-0833 EA 24", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	2,840.37 694.05	1,041.08
40 05 23 23-0834 Type 316, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)		
40 05 23 23-0835 Type 316, Schedule 40 Stainless Steel Pipe (40 05 23 23-0834)		
40 05 23 23-0836 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	26.20 2.81	4.68
40 05 23 23-0837 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	31.79 3.43	5.71
40 05 23 23-0838 LF 1" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	39.27 4.02	6.75
40 05 23 23-0839 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	49.08 5.03	8.32
40 05 23 23-0840 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	56.75 5.67	9.35
40 05 23 23-0841 LF 2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	73.13 7.02	11.94
40 05 23 23-0842 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	91.93 8.02	13.51
40 05 23 23-0843 LF 3" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	87.51 9.04	15.07
40 05 23 23-0844 LF 4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	151.72 10.69	17.67
40 05 23 23-0845 LF 6" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	240.73 14.04	23.38
40 05 23 23-0846 LF 8" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	420.77 26.50	41.02
40 05 23 23-0847 LF 10" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	540.42 29.15	45.35
40 05 23 23-0848 LF 12" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	680.49 32.39	50.20
40 05 23 23-0849 Type 316, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0634)		
40 05 23 23-0850 EA 1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	125.15 35.53	53.30
40 05 23 23-0851 EA 3/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	132.43 37.72	56.57
40 05 23 23-0852 EA 1", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	145.87 41.45	62.17
40 05 23 23-0853 EA 1-1/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	158.89 45.17	67.76
40 05 23 23-0854 EA 1-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	175.25 49.89	74.83
40 05 23 23-0855 EA 2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	197.44 55.50	83.26
40 05 23 23-0856 EA 2-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	262.39 71.04	106.56
40 05 23 23-0857 EA 3", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	310.81 83.25	124.88
40 05 23 23-0858 EA 4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	393.31 99.65	149.47
40 05 23 23-0859 EA 6", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	601.84 124.49	186.72
40 05 23 23-0860 EA 8", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,045.40 208.22	312.33
40 05 23 23-0861 EA 10", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,692.78 277.62	416.42
40 05 23 23-0862 EA 12", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,418.28 416.43	624.64
40 05 23 23-0863 EA 14", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,709.42 485.84	728.76
40 05 23 23-0864 EA 16", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,279.11 554.19	831.28
40 05 23 23-0865 EA 18", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,183.11 694.05	1,041.09
40 05 23 23-0866 EA 20", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	5,658.45 971.68	1,457.51
40 05 23 23-0867 EA 24", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	8,206.60 1,388.11	2,082.16
40 05 23 23-0868 Type 316, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0634)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0869 EA 1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	127.64 35.53	53.30
40 05 23 23-0870 EA 3/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	134.92 37.72	56.57
40 05 23 23-0871 EA 1", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	147.37 41.45	62.17
40 05 23 23-0872 EA 1-1/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	159.62 45.17	67.76
40 05 23 23-0873 EA 1-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	176.74 49.89	74.83
40 05 23 23-0874 EA 2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	197.44 55.50	83.26
40 05 23 23-0875 EA 2-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	262.39 71.04	106.56
40 05 23 23-0876 EA 3", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	301.12 83.25	124.88
40 05 23 23-0877 EA 4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	374.92 99.65	149.47
40 05 23 23-0878 EA 6", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	526.29 124.49	186.72
40 05 23 23-0879 EA 8", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	912.28 208.22	312.33
40 05 23 23-0880 EA 10", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,386.00 277.62	416.42
40 05 23 23-0881 EA 12", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,007.60 416.43	624.64
40 05 23 23-0882 EA 14", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,284.38 485.84	728.76
40 05 23 23-0883 EA 16", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,581.78 554.19	831.28
40 05 23 23-0884 EA 18", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,314.99 694.05	1,041.09
40 05 23 23-0885 EA 20", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,513.30 971.68	1,457.51
40 05 23 23-0886 EA 24", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,677.29 1,388.11	2,082.16
40 05 23 23-0887 Type 316, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 23-0834)		
40 05 23 23-0888 EA 1/2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	168.93 45.16	67.74
40 05 23 23-0889 EA 3/4", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	203.19 55.44	83.16
40 05 23 23-0890 EA 1", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	226.03 62.29	93.44
40 05 23 23-0891 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	260.11 71.04	106.56
40 05 23 23-0892 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	272.56 76.25	114.37
40 05 23 23-0893 EA 2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	297.10 83.17	124.74
40 05 23 23-0894 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	368.86 99.65	149.47
40 05 23 23-0895 EA 3", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	456.03 124.88	187.32
40 05 23 23-0896 EA 4", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	526.84 140.16	210.23
40 05 23 23-0897 EA 6", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	820.49 186.87	280.30
40 05 23 23-0898 EA 8", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,412.30 277.62	416.42
40 05 23 23-0899 EA 10", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,362.18 416.43	624.64
40 05 23 23-0900 EA 12", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,907.29 520.54	780.80
40 05 23 23-0901 EA 14", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	4,129.74 625.54	938.32
40 05 23 23-0902 EA 16", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	5,113.57 763.10	1,144.64
40 05 23 23-0903 EA 18", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	6,618.42 971.68	1,457.51
40 05 23 23-0904 EA 20", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	8,603.31 1,278.52	1,917.79
40 05 23 23-0905 EA 24", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	12,357.66 1,943.35	2,915.02
40 05 23 23-0906 Type 316, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0834)		
40 05 23 23-0907 EA 3/4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	162.56 37.73	56.59
40 05 23 23-0908 EA 1", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	190.90 46.24	69.36
40 05 23 23-0909 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	248.72 51.95	77.93

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0910 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	243.40 59.23	88.84
40 05 23 23-0911 EA 2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	250.40 63.64	95.45
40 05 23 23-0912 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	339.79 69.35	104.02
40 05 23 23-0913 EA 3", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	342.71 83.13	124.69
40 05 23 23-0914 EA 4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	456.44 103.90	155.86
40 05 23 23-0915 EA 6", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	631.83 118.72	178.08
40 05 23 23-0916 EA 8", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,065.28 173.51	260.27
40 05 23 23-0917 EA 10", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,207.45 231.35	347.03
40 05 23 23-0918 EA 12", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,923.18 347.03	520.53
40 05 23 23-0919 EA 14", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,327.88 416.91	625.37
40 05 23 23-0920 EA 16", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,122.53 508.55	762.83
40 05 23 23-0921 EA 18", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	5,324.67 647.78	971.67
40 05 23 23-0922 EA 20", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	7,581.41 852.35	1,278.52
40 05 23 23-0923 EA 24", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	11,864.45 1,294.42	1,941.62
40 05 23 23-0924 Type 316, Schedule 40 Stainless Steel Butt Weld Reducers (40 05 23 23-0834)		
40 05 23 23-0925 EA 3/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	129.03 34.31	51.47
40 05 23 23-0926 EA 1", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	141.79 37.39	56.08
40 05 23 23-0927 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	155.52 41.45	62.17
40 05 23 23-0928 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	165.99 45.17	67.76
40 05 23 23-0929 EA 2", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	178.73 49.89	74.83
40 05 23 23-0930 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	239.86 62.34	93.51
40 05 23 23-0931 EA 3", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	258.94 70.97	106.45
40 05 23 23-0932 EA 4", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	299.59 83.17	124.74
40 05 23 23-0933 EA 6", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	409.59 105.88	158.82
40 05 23 23-0934 EA 8", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	688.65 166.58	249.86
40 05 23 23-0935 EA 10", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	919.80 208.22	312.33
40 05 23 23-0936 EA 12", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,169.66 277.62	416.42
40 05 23 23-0937 EA 14", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,685.59 364.38	546.57
40 05 23 23-0938 EA 16", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,941.40 415.25	622.87
40 05 23 23-0939 EA 18", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,585.68 520.54	780.80
40 05 23 23-0940 EA 20", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,504.06 694.05	1,041.09
40 05 23 23-0941 EA 24", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	5,036.83 1,041.08	1,561.62
40 05 23 23-0942 EA 3/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	157.12 34.31	51.47
40 05 23 23-0943 EA 1", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	167.39 37.39	56.08
40 05 23 23-0944 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	193.84 41.45	62.17
40 05 23 23-0945 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	201.03 45.17	67.76
40 05 23 23-0946 EA 2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	216.01 49.89	74.83
40 05 23 23-0947 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	258.25 62.34	93.51
40 05 23 23-0948 EA 3", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	330.76 70.97	106.45
40 05 23 23-0949 EA 4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	361.22 83.17	124.74
40 05 23 23-0950 EA 6", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	510.75 105.88	158.82



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0951 EA 8", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	764.34	249.86
<i>For Work In Restricted Working Space, Add</i>	166.58	
40 05 23 23-0952 EA 10", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	1,086.21	312.33
<i>For Work In Restricted Working Space, Add</i>	208.22	
40 05 23 23-0953 EA 12", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	1,502.49	416.42
<i>For Work In Restricted Working Space, Add</i>	277.62	
40 05 23 23-0954 EA 14", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	2,244.78	546.57
<i>For Work In Restricted Working Space, Add</i>	364.38	
40 05 23 23-0955 EA 16", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	2,585.14	622.87
<i>For Work In Restricted Working Space, Add</i>	415.25	
40 05 23 23-0956 EA 18", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	3,465.68	780.80
<i>For Work In Restricted Working Space, Add</i>	520.54	
40 05 23 23-0957 EA 20", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	4,461.49	1,041.09
<i>For Work In Restricted Working Space, Add</i>	694.05	
40 05 23 23-0958 EA 24", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	6,688.66	1,561.62
<i>For Work In Restricted Working Space, Add</i>	1,041.08	
40 05 23 23-0959 Type 316, Schedule 40 Stainless Steel Butt Weld Caps (40 05 23 23-0834)		
40 05 23 23-0960 EA 1/2", Type 316, Schedule 40 Stainless Steel Cap	70.65	26.65
<i>For Work In Restricted Working Space, Add</i>	17.77	
40 05 23 23-0961 EA 3/4", Type 316, Schedule 40 Stainless Steel Cap	77.27	28.28
<i>For Work In Restricted Working Space, Add</i>	18.86	
40 05 23 23-0962 EA 1", Type 316, Schedule 40 Stainless Steel Cap	85.49	31.09
<i>For Work In Restricted Working Space, Add</i>	20.73	
40 05 23 23-0963 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Cap	97.52	33.88
<i>For Work In Restricted Working Space, Add</i>	22.59	
40 05 23 23-0964 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Cap	96.82	37.42
<i>For Work In Restricted Working Space, Add</i>	24.95	
40 05 23 23-0965 EA 2", Type 316, Schedule 40 Stainless Steel Cap	109.66	41.63
<i>For Work In Restricted Working Space, Add</i>	27.75	
40 05 23 23-0966 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Cap	137.38	53.28
<i>For Work In Restricted Working Space, Add</i>	35.52	
40 05 23 23-0967 EA 3", Type 316, Schedule 40 Stainless Steel Cap	157.90	62.45
<i>For Work In Restricted Working Space, Add</i>	41.63	
40 05 23 23-0968 EA 4", Type 316, Schedule 40 Stainless Steel Cap	193.67	74.74
<i>For Work In Restricted Working Space, Add</i>	49.82	
40 05 23 23-0969 EA 6", Type 316, Schedule 40 Stainless Steel Cap	267.45	93.51
<i>For Work In Restricted Working Space, Add</i>	62.34	
40 05 23 23-0970 EA 8", Type 316, Schedule 40 Stainless Steel Cap	456.01	156.16
<i>For Work In Restricted Working Space, Add</i>	104.11	
40 05 23 23-0971 EA 10", Type 316, Schedule 40 Stainless Steel Cap	611.40	208.22
<i>For Work In Restricted Working Space, Add</i>	138.81	
40 05 23 23-0972 EA 12", Type 316, Schedule 40 Stainless Steel Cap	912.00	312.32
<i>For Work In Restricted Working Space, Add</i>	208.22	
40 05 23 23-0973 EA 14", Type 316, Schedule 40 Stainless Steel Cap	1,040.91	364.38
<i>For Work In Restricted Working Space, Add</i>	242.92	
40 05 23 23-0974 EA 16", Type 316, Schedule 40 Stainless Steel Cap	1,170.68	415.64
<i>For Work In Restricted Working Space, Add</i>	277.10	
40 05 23 23-0975 EA 18", Type 316, Schedule 40 Stainless Steel Cap	1,493.05	520.53
<i>For Work In Restricted Working Space, Add</i>	347.03	
40 05 23 23-0976 EA 20", Type 316, Schedule 40 Stainless Steel Cap	2,053.59	728.76
<i>For Work In Restricted Working Space, Add</i>	485.84	
40 05 23 23-0977 EA 24", Type 316, Schedule 40 Stainless Steel Cap	3,162.48	1,041.08
<i>For Work In Restricted Working Space, Add</i>	694.05	
40 05 23 23-0978 Valves (40 05 23 23-0231)		
40 05 23 23-0979 Gate Valves, Class 150 (40 05 23 23-0978)		
40 05 23 23-0980 EA 1/2" Gate Valve, Stainless Steel, Flanged.....	519.01	53.43
<i>For Work In Restricted Working Space, Add</i>	20.04	
<i>For Class 200, Deduct</i>	-120.97	
<i>For Class 300, Add</i>	425.09	
40 05 23 23-0981 EA 3/4" Gate Valve, Stainless Steel, Flanged.....	564.71	55.66
<i>For Work In Restricted Working Space, Add</i>	23.38	
<i>For Class 200, Deduct</i>	-130.21	
<i>For Class 300, Add</i>	457.57	
40 05 23 23-0982 EA 1" Gate Valve, Stainless Steel, Flanged.....	697.29	83.49
<i>For Work In Restricted Working Space, Add</i>	31.51	
<i>For Class 200, Deduct</i>	-158.43	
<i>For Class 300, Add</i>	556.73	
40 05 23 23-0983 EA 1-1/4" Gate Valve, Stainless Steel, Flanged.....	877.48	97.40
<i>For Work In Restricted Working Space, Add</i>	36.30	
<i>For Class 200, Deduct</i>	-202.36	
<i>For Class 300, Add</i>	711.09	
40 05 23 23-0984 EA 1-1/2" Gate Valve, Stainless Steel, Flanged.....	991.84	122.61
<i>For Work In Restricted Working Space, Add</i>	45.98	
<i>For Class 200, Deduct</i>	-224.32	
<i>For Class 300, Add</i>	788.27	
40 05 23 23-0985 EA 2" Gate Valve, Stainless Steel, Flanged.....	1,177.93	148.39
<i>For Work In Restricted Working Space, Add</i>	55.66	
<i>For Class 200, Deduct</i>	-265.46	
<i>For Class 300, Add</i>	932.85	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0986	EA		2-1/2" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	1,682.97 60.72 1,391.74	161.42
40 05 23 23-0987	EA		3" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	1,896.83 71.06 1,560.38	189.25
40 05 23 23-0988	EA		4" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	2,521.09 119.27 1,996.10	317.27
40 05 23 23-0989	EA		6" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	4,193.91 150.82 3,469.70	400.76
40 05 23 23-0990	EA		8" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	9,082.97 190.84 7,940.04	512.08
40 05 23 23-0991	EA		10" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	12,783.92 233.78 11,284.39	623.40
40 05 23 23-0992	EA		12" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	19,214.20 283.37 17,173.47	756.98
40 05 23 23-0993			Globe Valves, Class 150 (40 05 23 23-0978)		
40 05 23 23-0994	EA		1/2" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	705.61 20.04 -170.88 600.49	53.43
40 05 23 23-0995	EA		3/4" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	781.56 23.38 -188.22 661.41	55.66
40 05 23 23-0996	EA		1" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	975.29 31.51 -232.80 818.05	83.49
40 05 23 23-0997	EA		1-1/2" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	1,449.42 45.98 -346.72 1,218.39	122.61
40 05 23 23-0998	EA		2" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	1,768.71 55.66 -423.50 1,488.18	148.39
40 05 23 23-0999	EA		2-1/2" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	3,535.40 60.72 3,133.02	161.42
40 05 23 23-1000	EA		3" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	3,662.43 71.06 3,220.05	189.25
40 05 23 23-1001	EA		4" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	4,378.65 119.27 3,742.21	317.27
40 05 23 23-1002	EA		6" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	8,048.26 150.82 7,092.79	400.76
40 05 23 23-1003			Check Valves, Class 150 (40 05 23 23-0978)		
40 05 23 23-1004	EA		2-1/2" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	1,611.92 60.72 1,324.95	161.42
40 05 23 23-1005	EA		3" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	1,690.32 71.06 1,366.26	189.25
40 05 23 23-1006	EA		4" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	2,659.61 119.27 2,126.31	317.27
40 05 23 23-1007	EA		6" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	4,545.52 150.82 3,800.21	400.76
40 05 23 23-1008	EA		8" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	7,951.63 190.84 6,876.58	512.08
40 05 23 23-1009			Stainless Steel Thread-O-Let Fittings (40 05 23 23-0231)		
40 05 23 23-1010	EA		1/2", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	83.82 21.55	32.31
40 05 23 23-1011	EA		3/4", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	110.77 28.73	43.09
40 05 23 23-1012	EA		1", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	136.60 35.62	53.43



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1013 EA 1-1/4", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	195.75 50.41	75.61
40 05 23 23-1014 EA 1-1/2", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	217.20 56.84	85.27
40 05 23 23-1015 EA 2", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	272.26 72.21	108.32
40 05 23 23-1016 EA 2-1/2", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	476.95 111.32	166.98
40 05 23 23-1017 EA 3", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	635.12 142.11	213.17
40 05 23 23-1018 EA 4", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	832.46 178.11	267.17
40 05 23 23-1019 Stainless Steel Flanges <small>(40 05 23 23-0231)</small>		
40 05 23 23-1020 150#, Type 304 Stainless Steel Raised Face Threaded Flange <small>(40 05 23 23-1019)</small>		
40 05 23 23-1021 EA 1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	70.30 10.77	17.96
40 05 23 23-1022 EA 3/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	86.09 14.36	23.94
40 05 23 23-1023 EA 1", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	102.18 17.81	29.69
40 05 23 23-1024 EA 1-1/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	138.28 25.20	42.02
40 05 23 23-1025 EA 1-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	149.01 28.42	47.37
40 05 23 23-1026 EA 2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	191.45 36.11	60.17
40 05 23 23-1027 EA 2-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	284.89 55.66	92.73
40 05 23 23-1028 EA 3", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	340.79 71.06	189.25
40 05 23 23-1029 EA 4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	439.02 89.06	148.39
40 05 23 23-1030 300#, Type 304 Stainless Steel Raised Face Threaded Flange <small>(40 05 23 23-1019)</small>		
40 05 23 23-1031 EA 1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	90.18 10.77	17.96
40 05 23 23-1032 EA 3/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	102.15 14.36	23.94
40 05 23 23-1033 EA 1", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	113.64 17.81	29.69
40 05 23 23-1034 EA 1-1/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	167.34 25.20	42.02
40 05 23 23-1035 EA 1-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	178.07 28.42	47.37
40 05 23 23-1036 EA 2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	221.24 36.11	60.17
40 05 23 23-1037 EA 2-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	351.40 55.66	92.73
40 05 23 23-1038 EA 3", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	408.80 71.06	189.25
40 05 23 23-1039 EA 4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	543.73 89.06	148.39
40 05 23 23-1040 150#, Type 304 Stainless Steel Raised Face Weld Neck Flange <small>(40 05 23 23-1019)</small>		
40 05 23 23-1041 EA 1/2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	93.61 17.77	26.64
40 05 23 23-1042 EA 3/4", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	101.07 18.86	28.28
40 05 23 23-1043 EA 1", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	113.41 20.73	31.09
40 05 23 23-1044 EA 1-1/4", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	138.81 22.61	33.90
40 05 23 23-1045 EA 1-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	146.51 24.92	37.38
40 05 23 23-1046 EA 2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	162.86 27.76	41.64
40 05 23 23-1047 EA 2-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	224.58 35.50	53.24
40 05 23 23-1048 EA 3", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	254.71 41.56	62.34
40 05 23 23-1049 EA 4", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	328.00 49.79	74.69
40 05 23 23-1050 EA 6", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	487.10 62.21	93.31
40 05 23 23-1051 EA 8", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	820.86 104.11	156.16
40 05 23 23-1052 EA 10", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,161.98 138.81	208.21

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1053 EA 12", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,785.38 208.22	312.32
40 05 23 23-1054 EA 14", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,227.90 242.92	364.38
40 05 23 23-1055 EA 16", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,774.27 277.10	415.64
40 05 23 23-1056 EA 18", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	3,404.87 347.03	520.53
40 05 23 23-1057 EA 20", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	4,420.26 485.84	728.76
40 05 23 23-1058 EA 24", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	6,282.50 694.05	1,041.08
40 05 23 23-1059 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)		
40 05 23 23-1060 EA 1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	117.31 17.77	26.64
40 05 23 23-1061 EA 3/4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	120.95 18.86	28.28
40 05 23 23-1062 EA 1" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	127.19 20.73	31.09
40 05 23 23-1063 EA 1-1/4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	165.52 22.61	33.90
40 05 23 23-1064 EA 1-1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	173.22 24.92	37.38
40 05 23 23-1065 EA 2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	185.78 27.76	41.64
40 05 23 23-1066 EA 2-1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	264.30 35.50	53.24
40 05 23 23-1067 EA 3" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	299.02 41.56	62.34
40 05 23 23-1068 EA 4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	431.91 49.79	74.69
40 05 23 23-1069 EA 6" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	604.78 62.21	93.31
40 05 23 23-1070 EA 8" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,114.32 104.11	156.16
40 05 23 23-1071 EA 10" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,549.46 138.81	208.21
40 05 23 23-1072 EA 12" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,277.58 208.22	312.32
40 05 23 23-1073 EA 14" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	3,005.97 242.92	364.38
40 05 23 23-1074 EA 16" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	3,704.74 277.10	415.64
40 05 23 23-1075 EA 18" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	4,729.84 347.03	520.53
40 05 23 23-1076 EA 20" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	6,115.50 485.84	728.76
40 05 23 23-1077 EA 24" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	8,900.70 694.05	1,041.08
40 05 23 23-1078 150#, Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)		
40 05 23 23-1079 EA 1/2", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	149.01 35.53	53.29
40 05 23 23-1080 EA 3/4", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	157.06 37.72	56.56
40 05 23 23-1081 EA 1", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	172.57 41.45	62.17
40 05 23 23-1082 EA 1-1/4", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	197.34 45.21	67.81
40 05 23 23-1083 EA 1-1/2", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	212.75 49.84	74.75
40 05 23 23-1084 EA 2", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	245.46 55.52	83.27
40 05 23 23-1085 EA 2-1/2", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	321.47 70.99	106.47
40 05 23 23-1086 EA 3", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	368.02 83.11	124.66
40 05 23 23-1087 EA 4", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	455.78 99.59	149.38
40 05 23 23-1088 EA 6", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	603.52 124.42	186.63
40 05 23 23-1089 EA 8", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,050.97 208.22	312.32
40 05 23 23-1090 EA 10" 150#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,479.47 277.62	416.42
40 05 23 23-1091 EA 12" 150#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	2,206.62 416.43	624.63
40 05 23 23-1092 300#, Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1093 EA 1/2" 300#, Type 304 Stainless Steel Raised Neck Slip-On Flange.....	164.29	53.29
<i>For Work In Restricted Working Space, Add</i>	35.53	
40 05 23 23-1094 EA 3/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	171.57	56.56
<i>For Work In Restricted Working Space, Add</i>	37.72	
40 05 23 23-1095 EA 1" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	184.03	62.17
<i>For Work In Restricted Working Space, Add</i>	41.45	
40 05 23 23-1096 EA 1-1/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	221.04	67.81
<i>For Work In Restricted Working Space, Add</i>	45.21	
40 05 23 23-1097 EA 1-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	236.45	74.75
<i>For Work In Restricted Working Space, Add</i>	49.84	
40 05 23 23-1098 EA 2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	261.47	83.27
<i>For Work In Restricted Working Space, Add</i>	55.52	
40 05 23 23-1099 EA 2-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	381.10	106.47
<i>For Work In Restricted Working Space, Add</i>	70.99	
40 05 23 23-1100 EA 3" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	427.61	124.66
<i>For Work In Restricted Working Space, Add</i>	83.11	
40 05 23 23-1101 EA 4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	538.30	149.38
<i>For Work In Restricted Working Space, Add</i>	99.59	
40 05 23 23-1102 EA 6" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	836.62	186.63
<i>For Work In Restricted Working Space, Add</i>	124.42	
40 05 23 23-1103 EA 8" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	1,286.34	312.32
<i>For Work In Restricted Working Space, Add</i>	208.22	
40 05 23 23-1104 EA 10" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	1,858.54	416.42
<i>For Work In Restricted Working Space, Add</i>	277.62	
40 05 23 23-1105 EA 12" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	2,694.22	624.63
<i>For Work In Restricted Working Space, Add</i>	416.43	
40 05 23 23-1106 150#, Type 304 Stainless Steel Blind Flanges <small>(40 05 23 23-1019)</small>		
40 05 23 23-1107 EA 1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	56.31	10.65
<i>For Work In Restricted Working Space, Add</i>	7.11	
40 05 23 23-1108 EA 3/4", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	58.76	11.30
<i>For Work In Restricted Working Space, Add</i>	7.54	
40 05 23 23-1109 EA 1", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	63.57	12.42
<i>For Work In Restricted Working Space, Add</i>	8.29	
40 05 23 23-1110 EA 1-1/4", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	81.97	13.84
<i>For Work In Restricted Working Space, Add</i>	9.23	
40 05 23 23-1111 EA 1-1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	92.78	18.70
<i>For Work In Restricted Working Space, Add</i>	12.47	
40 05 23 23-1112 EA 2", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	109.58	20.76
<i>For Work In Restricted Working Space, Add</i>	13.84	
40 05 23 23-1113 EA 2-1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	149.49	26.69
<i>For Work In Restricted Working Space, Add</i>	17.80	
40 05 23 23-1114 EA 3", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	182.47	37.41
<i>For Work In Restricted Working Space, Add</i>	24.94	
40 05 23 23-1115 EA 4", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	277.62	62.32
<i>For Work In Restricted Working Space, Add</i>	41.55	
40 05 23 23-1116 EA 6", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	381.39	80.14
<i>For Work In Restricted Working Space, Add</i>	53.43	
40 05 23 23-1117 EA 8", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	588.13	97.17
<i>For Work In Restricted Working Space, Add</i>	64.78	
40 05 23 23-1118 EA 10", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	905.66	116.61
<i>For Work In Restricted Working Space, Add</i>	77.73	
40 05 23 23-1119 EA 12", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	1,198.94	145.75
<i>For Work In Restricted Working Space, Add</i>	97.17	
40 05 23 23-1120 EA 14", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	1,524.26	182.19
<i>For Work In Restricted Working Space, Add</i>	121.46	
40 05 23 23-1121 EA 16", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	1,967.77	207.82
<i>For Work In Restricted Working Space, Add</i>	138.55	
40 05 23 23-1122 EA 18", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	2,325.94	260.27
<i>For Work In Restricted Working Space, Add</i>	173.52	
40 05 23 23-1123 EA 20", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	3,088.79	364.38
<i>For Work In Restricted Working Space, Add</i>	242.92	
40 05 23 23-1124 EA 24", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	4,498.85	520.53
<i>For Work In Restricted Working Space, Add</i>	347.03	
40 05 23 23-1125 300#, Type 304 Stainless Steel Blind Flanges <small>(40 05 23 23-1019)</small>		
40 05 23 23-1126 EA 1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	71.86	10.65
<i>For Work In Restricted Working Space, Add</i>	7.11	
40 05 23 23-1127 EA 3/4", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	73.31	11.30
<i>For Work In Restricted Working Space, Add</i>	7.54	
40 05 23 23-1128 EA 1", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	75.81	12.42
<i>For Work In Restricted Working Space, Add</i>	8.29	
40 05 23 23-1129 EA 1-1/4", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	96.48	13.84
<i>For Work In Restricted Working Space, Add</i>	9.23	
40 05 23 23-1130 EA 1-1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	107.29	18.70
<i>For Work In Restricted Working Space, Add</i>	12.47	
40 05 23 23-1131 EA 2", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	117.23	20.76
<i>For Work In Restricted Working Space, Add</i>	13.84	
40 05 23 23-1132 EA 2-1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	202.99	26.69
<i>For Work In Restricted Working Space, Add</i>	17.80	
40 05 23 23-1133 EA 3", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	232.53	37.41
<i>For Work In Restricted Working Space, Add</i>	24.94	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1134 EA 4", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	340.26 41.55	62.32
40 05 23 23-1135 EA 6", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	639.68 53.43	80.14
40 05 23 23-1136 EA 8", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	896.87 64.78	97.17
40 05 23 23-1137 EA 10", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,281.65 77.73	116.61
40 05 23 23-1138 EA 12", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,775.94 97.17	145.75
40 05 23 23-1139 EA 14", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,486.63 121.46	182.19
40 05 23 23-1140 EA 16", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,182.81 138.55	207.82
40 05 23 23-1141 EA 18", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	4,154.54 173.52	260.27
40 05 23 23-1142 EA 20", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	5,258.33 242.92	364.38
40 05 23 23-1143 EA 24", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	8,067.20 347.03	520.53
40 05 23 23-1144 150#, Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)		
40 05 23 23-1145 EA 1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	84.08 10.77	17.96
40 05 23 23-1146 EA 3/4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	103.69 14.36	23.94
40 05 23 23-1147 EA 1", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	118.97 17.81	29.69
40 05 23 23-1148 EA 1-1/4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	163.48 25.20	42.02
40 05 23 23-1149 EA 1-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	174.21 28.42	47.37
40 05 23 23-1150 EA 2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	218.97 36.11	60.17
40 05 23 23-1151 EA 2-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	324.65 55.66	92.73
40 05 23 23-1152 EA 3", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	392.01 71.06	189.25
40 05 23 23-1153 EA 4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	510.85 89.06	148.39
40 05 23 23-1154 300#, Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)		
40 05 23 23-1155 EA 1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	110.06 10.77	17.96
40 05 23 23-1156 EA 3/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	122.03 14.36	23.94
40 05 23 23-1157 EA 1", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	133.52 17.81	29.69
40 05 23 23-1158 EA 1-1/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	205.55 25.20	42.02
40 05 23 23-1159 EA 1-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	216.28 28.42	47.37
40 05 23 23-1160 EA 2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	254.86 36.11	60.17
40 05 23 23-1161 EA 2-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	427.05 55.66	92.73
40 05 23 23-1162 EA 3", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	486.00 71.06	189.25
40 05 23 23-1163 EA 4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	666.74 89.06	148.39
40 05 23 23-1164 150#, Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)		
40 05 23 23-1165 EA 1/2", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	111.17 17.77	26.64
40 05 23 23-1166 EA 3/4", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	118.67 18.86	28.28
40 05 23 23-1167 EA 1", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	133.29 20.73	31.09
40 05 23 23-1168 EA 1-1/4", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	164.79 22.61	33.90
40 05 23 23-1169 EA 1-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	172.49 24.92	37.38
40 05 23 23-1170 EA 2", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	189.60 27.76	41.64
40 05 23 23-1171 EA 2-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	269.62 35.50	53.24
40 05 23 23-1172 EA 3", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	295.20 41.56	62.34
40 05 23 23-1173 EA 4", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	396.79 49.79	74.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1174 EA 6", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	606.33 62.21	93.31
40 05 23 23-1175 EA 8", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,005.05 104.11	156.16
40 05 23 23-1176 EA 10", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,469.22 138.81	208.21
40 05 23 23-1177 EA 12", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,191.23 208.22	312.32
40 05 23 23-1178 EA 14", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,564.04 242.92	364.38
40 05 23 23-1179 EA 16", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	3,212.89 277.10	415.64
40 05 23 23-1180 EA 18", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	3,937.71 347.03	520.53
40 05 23 23-1181 EA 20", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	5,084.09 485.84	728.76
40 05 23 23-1182 EA 24", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	7,223.22 694.05	1,041.08
40 05 23 23-1183 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)		
40 05 23 23-1184 EA 1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	140.24 17.77	26.64
40 05 23 23-1185 EA 3/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	143.88 18.86	28.28
40 05 23 23-1186 EA 1" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	150.12 20.73	31.09
40 05 23 23-1187 EA 1-1/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	196.90 22.61	33.90
40 05 23 23-1188 EA 1-1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	204.60 24.92	37.38
40 05 23 23-1189 EA 2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	223.99 27.76	41.64
40 05 23 23-1190 EA 2-1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	330.03 35.50	53.24
40 05 23 23-1191 EA 3" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	360.93 41.56	62.34
40 05 23 23-1192 EA 4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	546.55 49.79	74.69
40 05 23 23-1193 EA 6" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	888.32 62.21	93.31
40 05 23 23-1194 EA 8" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,403.99 104.11	156.16
40 05 23 23-1195 EA 10" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,018.70 138.81	208.21
40 05 23 23-1196 EA 12" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,966.90 208.22	312.32
40 05 23 23-1197 EA 14" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	4,008.56 242.92	364.38
40 05 23 23-1198 EA 16" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	4,974.32 277.10	415.64
40 05 23 23-1199 EA 18" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	6,360.96 347.03	520.53
40 05 23 23-1200 EA 20" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	8,167.96 485.84	728.76
40 05 23 23-1201 EA 24" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	11,907.79 694.05	1,041.08
40 05 23 23-1202 150#, Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)		
40 05 23 23-1203 EA 1/2", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	158.20 35.53	53.29
40 05 23 23-1204 EA 3/4", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	170.84 37.72	56.56
40 05 23 23-1205 EA 1", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	188.36 41.45	62.17
40 05 23 23-1206 EA 1-1/4", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	254.92 45.21	67.81
40 05 23 23-1207 EA 1-1/2", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	231.08 49.84	74.75
40 05 23 23-1208 EA 2", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	250.01 55.52	83.27
40 05 23 23-1209 EA 2-1/2", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	318.42 70.99	106.47
40 05 23 23-1210 EA 3", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	393.99 83.11	124.66
40 05 23 23-1211 EA 4", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	510.78 99.59	149.38
40 05 23 23-1212 EA 6", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	685.27 124.42	186.63
40 05 23 23-1213 EA 8", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	1,219.84 208.22	312.32
40 05 23 23-1214 EA 10" 150#, Type 316 Stainless Steel Raised Face Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	1,710.29 277.62	416.42

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1215 EA 12" 150#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	2,515.36 416.43	624.63
40 05 23 23-1216 300#, Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)		
40 05 23 23-1217 EA 1/2" 300#, Type 316 Stainless Steel Raised Neck Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	179.58 35.53	53.29
40 05 23 23-1218 EA 3/4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	186.86 37.72	56.56
40 05 23 23-1219 EA 1" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	199.32 41.45	62.17
40 05 23 23-1220 EA 1-1/4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	250.83 45.21	67.81
40 05 23 23-1221 EA 1-1/2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	266.24 49.84	74.75
40 05 23 23-1222 EA 2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	289.65 55.52	83.27
40 05 23 23-1223 EA 2-1/2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	447.57 70.99	106.47
40 05 23 23-1224 EA 3" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	495.62 83.11	124.66
40 05 23 23-1225 EA 4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	643.75 99.59	149.38
40 05 23 23-1226 EA 6" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	990.23 124.42	186.63
40 05 23 23-1227 EA 8" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,444.56 208.22	312.32
40 05 23 23-1228 EA 10" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	2,373.63 277.62	416.42
40 05 23 23-1229 EA 12" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	3,148.17 416.43	624.63
40 05 23 23-1230 150#, Type 316 Stainless Steel Blind Flanges (40 05 23 23-1019)		
40 05 23 23-1231 EA 1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	63.45 7.11	10.65
40 05 23 23-1232 EA 3/4", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	71.77 7.54	11.30
40 05 23 23-1233 EA 1", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	81.14 8.29	12.42
40 05 23 23-1234 EA 1-1/4", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	95.71 9.23	13.84
40 05 23 23-1235 EA 1-1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	106.52 12.47	18.70
40 05 23 23-1236 EA 2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	132.51 13.84	20.76
40 05 23 23-1237 EA 2-1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	185.43 17.80	26.69
40 05 23 23-1238 EA 3", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	222.23 24.94	37.41
40 05 23 23-1239 EA 4", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	344.85 41.55	62.32
40 05 23 23-1240 EA 6", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	489.15 53.43	80.14
40 05 23 23-1241 EA 8", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	845.65 64.78	97.17
40 05 23 23-1242 EA 10", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,108.96 77.73	116.61
40 05 23 23-1243 EA 12", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,785.13 97.17	145.75
40 05 23 23-1244 EA 14", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,124.41 121.46	182.19
40 05 23 23-1245 EA 16", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,775.17 138.55	207.82
40 05 23 23-1246 EA 18", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,262.87 173.52	260.27
40 05 23 23-1247 EA 20", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	4,310.68 242.92	364.38
40 05 23 23-1248 EA 24", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	6,290.67 347.03	520.53
40 05 23 23-1249 300#, Type 316 Stainless Steel Blind Flanges (40 05 23 23-1019)		
40 05 23 23-1250 EA 1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	97.84 7.11	10.65
40 05 23 23-1251 EA 3/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	99.29 7.54	11.30
40 05 23 23-1252 EA 1", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	101.79 8.29	12.42
40 05 23 23-1253 EA 1-1/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	152.29 9.23	13.84
40 05 23 23-1254 EA 1-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	163.10 12.47	18.70



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1255 EA 2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	180.64 13.84	20.76
40 05 23 23-1256 EA 2-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange..... <i>For Work In Restricted Working Space, Add</i>	300.84 17.80	26.69
40 05 23 23-1257 EA 3", 300#, Type 316 Stainless Steel Raised Face Blind Flange..... <i>For Work In Restricted Working Space, Add</i>	332.27 24.94	37.41
40 05 23 23-1258 EA 4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	508.39 41.55	62.32
40 05 23 23-1259 EA 6", 300#, Type 316 Stainless Steel Raised Face Blind Flange..... <i>For Work In Restricted Working Space, Add</i>	926.31 53.43	80.14
40 05 23 23-1260 EA 8", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,193.42 64.78	97.17
40 05 23 23-1261 EA 10", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,143.73 77.73	116.61
40 05 23 23-1262 EA 12", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,614.33 97.17	145.75
40 05 23 23-1263 EA 14", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,774.34 121.46	182.19
40 05 23 23-1264 EA 16", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	4,865.91 138.55	207.82
40 05 23 23-1265 EA 18", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	6,366.63 173.52	260.27
40 05 23 23-1266 EA 20", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	8,010.07 242.92	364.38
40 05 23 23-1267 EA 24", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	12,341.76 347.03	520.53
40 05 23 23-1268 Type 316 Seamless Annealed Tubing <small>(40 05 23 23)</small> Note: For high pressure air (8000 PSIG working pressure).		
40 05 23 23-1269 Type 316 Seamless Annealed Tubing <small>(40 05 23 23-1268)</small>		
40 05 23 23-1270 LF 3/8" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .065 Wall Thickness	21.95	
40 05 23 23-1271 LF 1/2" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .083 Wall Thickness	27.50	
40 05 23 23-1272 LF 3/4" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .120 Wall Thickness	33.28	
40 05 23 23-1273 Type 316 Seamless Annealed Tubing Fittings <small>(40 05 23 23-1268)</small> Note: Pressure rating 5000 PSI minimum. Includes front and back ferrules.		
40 05 23 23-1274 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Connector With Front And Back Ferrules	71.06	
40 05 23 23-1275 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Elbow With Front And Back Ferrules	80.68	
40 05 23 23-1276 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Tee With Front And Back Ferrules	124.10	
40 05 23 23-1277 EA 3/8" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	55.11	
40 05 23 23-1278 EA 3/8" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules.....	91.06	
40 05 23 23-1279 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Connector With Front And Back Ferrules	70.40	
40 05 23 23-1280 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Elbow With Front And Back Ferrules.....	84.78	
40 05 23 23-1281 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	130.35	
40 05 23 23-1282 EA 1/2" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	82.46	
40 05 23 23-1283 EA 1/2" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules.....	128.21	
40 05 23 23-1284 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Connector With Front And Back Ferrules	82.57	
40 05 23 23-1285 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Elbow With Front And Back Ferrules.....	105.72	
40 05 23 23-1286 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	173.69	
40 05 23 23-1287 EA 3/4" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules.....	142.58	
40 05 23 23-1288 EA 3/4" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules.....	176.41	
40 05 23 23-1289 Valves For High Pressure Air (5,000 PSIG) <small>(40 05 23 23-1268)</small>		
40 05 23 23-1290 Needle Valves <small>(40 05 23 23-1289)</small>		
40 05 23 23-1291 EA 3/8" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge.....	309.33	
40 05 23 23-1292 EA 1/2" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge.....	488.08	
40 05 23 23-1293 Safety Valve (Code Stamped) Work Pressure, 6,000 PSIG <small>(40 05 23 23-1289)</small>		
40 05 23 23-1294 EA 1/4" NPT Inlet, Safety Valve Spring Loaded 316 Stainless Steel Construction.....	295.87	
40 05 23 23-1295 Other Valves Working Pressure 6,000 PSI <small>(40 05 23 23-1289)</small>		
40 05 23 23-1296 EA 1/4" NPT Pressure Reducing Valve Spring Loaded, Stainless Steel Body, 6,000 PSIG.....	1,208.56	
40 05 23 23-1297 EA 1/4" NPT Pressure Gauge, Liquid Filled, 6,000 PSIG, Blow Out Back	307.52	
40 05 23 23-1298 EA Snubber 316 Stainless Steel Body, Rated For Design Pressure With Sinterec Element.....	62.09	

END OF SECTION 40

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 23 Stainless Steel Process Pipe and Tubing



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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Process Gas and Liquid Handling, Purification, and Storage Equipment	43	43
Liquid Handling Equipment	43 20	
Dry Location Liquid Pumps	43 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
43 Process Gas and Liquid Handling, Purification, and Storage Equipment		
43 20 Liquid Handling Equipment ⁽⁴³⁾		
43 23 Dry Location Liquid Pumps ^(43 20)		
43 23 78 Controlled Volume Horizontal Reciprocating Pumps ^(43 23)		
43 23 78 31 Controlled Volume Horizontal Mechanically-Coupled Diaphragm Simplex Reciprocating Pumps ^(43 23 78)		
43 23 78 31-0001 Diaphragm Pump ^(43 23 78 31)		
43 23 78 31-0002 EA 28 GPH Diaphragm Pump, Adjustable Flow 0-100% 250 PSI.....	4,469.73	
43 24 Suspended Liquid Pumps ^(43 20)		
43 24 41 Archimedes Screw Pumps ^(43 24)		
43 24 41 23 Positive-Displacement Inclined Closed-casing Archimedes Screw-type Pumps ^(43 24 41)		
43 24 41 23-0001 Positive Displacement Pump ^(43 24 41 23)		
43 24 41 23-0002 EA 25 GPH Positive Displacement Pump, Adjustable Flow 0-100% 200 PSI Neoprene Packing.....	3,675.29	
43 40 Gas and Liquid Storage ⁽⁴³⁾		
43 42 Pressurized Tanks And Vessels ^(43 40)		
43 42 41 Metallic Specialty Pressure Tanks ^(43 42)		
43 42 41 00-0001 L.P.G. Tanks With Regulator And Safety Controls ^(43 42 41)		
43 42 41 00-0002 EA 250 Gallon Aboveground LP Gas Storage Tank.....	1,994.04	125.84
43 42 41 00-0003 EA 500 Gallon Aboveground LP Gas Storage Tank.....	3,689.57	188.76
43 42 41 00-0004 EA 1,000 Gallon Aboveground LP Gas Storage Tank.....	5,284.42	201.35

END OF SECTION 43

43 Process Gas and Liquid Handling, Purification, and Storage Equipment

43 40 Gas and Liquid Storage

43 42 Pressurized Tanks And Vessels



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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50 Custom Standards And Assemblies

50 89 CALTRANS Custom Standards And Assemblies ⁽⁵⁰⁾

50 89 80 CALTRANS Construction Performance Requirements ^(50 89)

Note: Refer to www.dot.ca.gov for CALTRANS Standard Plans and Specifications

50 89 81 CALTRANS DIVISION I - GENERAL PROVISIONS ^(50 89 80)

50 89 81 01 PAYMENT ^(50 89 81)

Note: Includes equipment mobilization, hauling over 25 miles, overtime, specialty labor, specialty equipment, reimbursables and permits per CALTRANS Standard. See CSI section 01 22 16 00-0003 for Reimbursable fees and permits, 01 22 20 00-0000 for specialty labor, 01 22 23 00-0000 for speacility equipment, 01 71 13 00-0000 for equipment mobilization, 01 74 19 00-0050 for hauling >25 miles.

50 89 81 01-0001	EA	CALTRANS 999990 MOBILIZATION	0.00
Note: (One Time Per Job) See CSI section 01 71 13 00-0000 for mobilization of equipment.			

50 89 82 CALTRANS DIVISION II - GENERAL CONSTRUCTION ^(50 89 80)

50 89 82 12 TEMPORARY TRAFFIC CONTROL ^(50 89 82)

Note: Includes flagging, apparel, temporary traffic control devices, and equipment for flaggers, must comply with the latest California MUTCD per CALTRANS Standard.

50 89 82 12-0001	EA	CALTRANS 120110 FLASHING ARROW SIGN	1,217.19
50 89 82 12-0002	EA	CALTRANS 120116 TYPE II BARRICADE	41.14
50 89 82 12-0003	EA	CALTRANS 120119 TRAFFIC CONE	11.53
50 89 82 12-0004	EA	CALTRANS 120120 TYPE III BARRICADE	79.95
50 89 82 12-0005	EA	CALTRANS 120140 BARRICADE (LEFT IN PLACE)	72.27
50 89 82 12-0006	SF	CALTRANS 120149 TEMPORARY PAVEMENT MARKING (PAINT)	3.36
50 89 82 12-0007	LF	CALTRANS 120151 TEMPORARY TRAFFIC STRIPE (TAPE)	4.83
50 89 82 12-0008	SF	CALTRANS 120152 TEMPORARY PAVEMENT MARKING (TAPE)	12.06
50 89 82 12-0009	LF	CALTRANS 120159 TEMPORARY TRAFFIC STRIPE (PAINT)	0.74
50 89 82 12-0010	EA	CALTRANS 120165 CHANNELIZER (SURFACE MOUNTED)	28.53
50 89 82 12-0011	EA	CALTRANS 120166 CHANNELIZER (SURFACE MOUNTED) (LEFT IN PLACE)	64.07
50 89 82 12-0012	EA	CALTRANS 120182 PORTABLE DELINEATOR	22.75
50 89 82 12-0013	EA	CALTRANS 120198 PLASTIC TRAFFIC DRUMS	34.51
50 89 82 12-0014	EA	CALTRANS 120200 FLASHING BEACON (PORTABLE)	42.28
50 89 82 12-0015	EA	CALTRANS 120300 TEMPORARY PAVEMENT MARKER	3.32
50 89 82 12-0016	MO	CALTRANS 128651 PORTABLE CHANGEABLE MESSAGE SIGN (EA)	2,685.96
50 89 82 12-0017	MO	CALTRANS 129100 TEMPORARY CRASH CUSHION MODULE	642.48

50 89 82 13 WATER POLLUTION CONTROL ^(50 89 82)

Note: Includes preventing, controlling, and abating water pollution within waters of the State per CALTRANS Standard.

50 89 82 13-0001	EA	CALTRANS 130310 RAIN EVENT ACTION PLAN	546.48
50 89 82 13-0002	EA	CALTRANS 130320 STORM WATER SAMPLING AND ANALYSIS DAY	443.96
50 89 82 13-0003	EA	CALTRANS 130330 STORM WATER ANNUAL REPORT	2,185.92
50 89 82 13-0004	SY	CALTRANS 130500 TEMPORARY EROSION CONTROL BLANKET	5.37
50 89 82 13-0005	EA	CALTRANS 130505 MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)	823.59
50 89 82 13-0006	SY	CALTRANS 130510 TEMPORARY MULCH	4.72
50 89 82 13-0007	SY	CALTRANS 130520 TEMPORARY HYDRAULIC MULCH	0.91
50 89 82 13-0008	SY	CALTRANS 130530 TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	0.43
50 89 82 13-0009	SY	CALTRANS 130535 TEMPORARY HYDRAULIC MULCH (CEMENTITIOUS BINDER)	12.55
50 89 82 13-0010	SY	CALTRANS 130540 TEMPORARY TACKED STRAW	0.30
50 89 82 13-0011	SY	CALTRANS 130550 TEMPORARY HYDROSEED	0.91
50 89 82 13-0012	SY	CALTRANS 130560 TEMPORARY SOIL BINDER	0.50
50 89 82 13-0013	SY	CALTRANS 130570 TEMPORARY COVER	7.33
50 89 82 13-0014	EA	CALTRANS 130620 TEMPORARY DRAINAGE INLET PROTECTION	91.28
50 89 82 13-0015	LF	CALTRANS 130640 TEMPORARY FIBER ROLL	10.18
Note: 12" Diameter, Type 1			
For >1,000 To 10,000, Deduct			-0.91
For >10,000, Deduct			-1.55
For 9" Diameter, Deduct			-1.38
50 89 82 13-0016	LF	CALTRANS 130640 TEMPORARY FIBER ROLL	8.58
Note: 12" Diameter, Type 2			
For >1,000 To 10,000, Deduct			-0.67
For >10,000, Deduct			-1.15
For 9" Diameter, Deduct			-1.38
50 89 82 13-0017	LF	CALTRANS 130650 TEMPORARY GRAVEL BAG BERM	13.10
50 89 82 13-0018	LF	CALTRANS 130670 TEMPORARY REINFORCED SILT FENCE	8.75
50 89 82 13-0019	LF	CALTRANS 130680 TEMPORARY SILT FENCE	2.47
50 89 82 13-0020	LF	CALTRANS 130690 TEMPORARY STRAW BALE BARRIER	4.65
50 89 82 13-0021	EA	CALTRANS 130710 TEMPORARY CONSTRUCTION ENTRANCE	1,633.11
50 89 82 13-0022	SY	CALTRANS 130720 TEMPORARY CONSTRUCTION ROADWAY	39.40
50 89 82 13-0023	EA	CALTRANS 131103 WATER QUALITY SAMPLING AND ANALYSIS DAY	443.96
50 89 82 13-0024	EA	CALTRANS 131104 WATER QUALITY MONITORING REPORT	751.41
50 89 82 13-0025	EA	CALTRANS 131105 WATER QUALITY ANNUAL REPORT	804.54

50 89 83 CALTRANS DIVISION III - GRADING ^(50 89 80)



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

50 89 83 17**GENERAL** (50 89 83)

Note: Includes clear all construction areas above original ground of (1) all vegetation such as trees, logs, upturned stumps, roots of downed trees, brush, grass, and weeds and (2) other objectionable material including concrete, masonry, and debris. Grub all construction areas to a depth necessary to remove all trees, existing stumps, roots, buried logs, and other objectionable material, except embankment areas where the grading plane is 2 feet or more above original ground per CALTRAN Standard.

50 89 83 17-0001	ACR CALTRANS 170105 CLEARING AND GRUBBING (ACRE).....	12,473.19
	Note: Includes grub and removal of stump. In embankment areas where the grading plane is 2 feet or more above original ground, cut off trees, stumps, and roots not more than 1 foot above original ground, except remove trees, stumps, and roots completely where work includes any of the following: 1. Structure construction, 2. Pile construction, 3. Subdrainage trench excavation, 4. Removal of unsuitable material, 5. Cutting into slopes of original hillsides, old or new fill	

50 89 83 19**EARTHWORK** (50 89 83)

Note: Includes earthwork activities includes removal of unsuitable material or a buried man-made object if the removal is described. Excavate and dispose of unsuitable material encountered below the natural ground surface in embankment areas or below the grading plane in excavation areas. Backfill the space resulting from excavating unsuitable material with material suitable for the planned use. Place and compact suitable material. Remove and dispose of a buried man-made object encountered in an excavation as part of the excavation work. Roadway excavation consists of all excavation involved in the grading and construction of the roadway except structure excavation per CALTRAN Standard.

50 89 83 19-0001	CY CALTRANS 190101 ROADWAY EXCAVATION	20.10
	For >1,000, Deduct	-3.02
50 89 83 19-0002	CY CALTRANS 190161 ROCK EXCAVATION	37.78
50 89 83 19-0003	TON CALTRANS 190185 SHOULDER BACKING	122.60
50 89 83 19-0004	CY CALTRANS 192502 SAND BEDDING	41.89
	For Up To 8, Add	8.38
	For >8 To 16, Add	4.19
	For >48 To 64, Deduct	-2.98
	For >64 To 96, Deduct	-5.07
	For >96, Deduct	-7.17
50 89 83 19-0005	CY CALTRANS 193118 CONCRETE BACKFILL	231.04
50 89 83 19-0006	CY CALTRANS 198010 IMPORTED BORROW (CY)	85.23
50 89 83 19-0007	TON CALTRANS 198011 IMPORTED BORROW (TON)	119.34
50 89 83 19-0008	SY CALTRANS 198206 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS A1	5.79
	For Up To 50, Add	1.21
	For >50 To 150, Add	0.90
	For >150 To 250, Add	0.60
	For >250 To 500, Add	0.30
50 89 83 19-0009	SY CALTRANS 198207 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS A2	2.38
	For Up To 50, Add	0.52
	For >50 To 150, Add	0.38
	For >150 To 250, Add	0.25
	For >250 To 500, Add	0.13
50 89 83 19-0010	SY CALTRANS 198208 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B1	6.75
	For Up To 50, Add	1.40
	For >50 To 150, Add	1.05
	For >150 To 250, Add	0.69
	For >250 To 500, Add	0.35
50 89 83 19-0011	SY CALTRANS 198209 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B2	3.27
	For Up To 50, Add	0.69
	For >50 To 150, Add	0.52
	For >150 To 250, Add	0.34
	For >250 To 500, Add	0.17
50 89 83 19-0012	SY CALTRANS 198210 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B3	3.08
	For Up To 50, Add	0.67
	For >50 To 150, Add	0.50
	For >150 To 250, Add	0.33
	For >250 To 500, Add	0.16
50 89 83 19-0013	SY CALTRANS 198215 SUBGRADE ENHANCEMENT GEOGRID	5.15
	For Up To 50, Add	1.13
	For >50 To 150, Add	0.84
	For >150 To 250, Add	0.55
	For >250 To 500, Add	0.27
50 89 83 19-0014	SY CALTRANS 198250 GEOSYNTHETIC REINFORCEMENT	2.06

50 89 83 20**LANDSCAPE** (50 89 83)

Note: Includes materials and placement per CALTRAN Standard. Underground pipe includes pipe, fittings, trenching, backfill and compaction. Aboveground pipe include pipe, fittings and supports.

50 89 83 20-0001	SF CALTRANS 200114 ROCK BLANKET	13.29
	For >5,000, Deduct	-1.82
50 89 83 20-0002	SY CALTRANS 200122 WEED GERMINATION	0.59
50 89 83 20-0003	SY CALTRANS 200123 CULTIVATION	2.62
50 89 83 20-0004	LB CALTRANS 202004 IRON SULFATE (LB)	6.77
50 89 83 20-0005	CY CALTRANS 202006 SOIL AMENDMENT	110.23
50 89 83 20-0006	EA CALTRANS 202026 RELOCATE BACKFLOW PREVENTER ASSEMBLY	1,024.72
50 89 83 20-0007	EA CALTRANS 202027 RELOCATE WATER METER	1,024.72
50 89 83 20-0008	EA CALTRANS 202028 RELOCATE IRRIGATION CONTROLLER	1,269.56
50 89 83 20-0009	LB CALTRANS 202037 ORGANIC FERTILIZER	6.87
50 89 83 20-0010	EA CALTRANS 202038 PACKET FERTILIZER	1.07
50 89 83 20-0011	LB CALTRANS 202039 SLOW-RELEASE FERTILIZER	3.55
50 89 83 20-0012	EA CALTRANS 204003 PLANT (GROUP C) (6' To 8' B&B)	392.56
50 89 83 20-0013	EA CALTRANS 204003 PLANT (GROUP C) (10' To 14' B&B)	721.41



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0014 EA CALTRANS 204003 PLANT (GROUP C) (16' To 20' B&B)	1,113.54	
50 89 83 20-0015 EA CALTRANS 204003 PLANT (GROUP C) (22' To 26' B&B)	1,727.03	
50 89 83 20-0016 EA CALTRANS 204005 PLANT (GROUP E)	3.15	
For >100 To 1,000, Deduct	-0.18	
For >1,000 To 5,000, Deduct	-0.29	
For >5,000, Deduct	-0.36	
50 89 83 20-0017 EA CALTRANS 204006 PLANT (GROUP F)	2.16	
For >100 To 1,000, Deduct	-0.14	
For >1,000 To 5,000, Deduct	-0.22	
For >5,000, Deduct	-0.28	
50 89 83 20-0018 EA CALTRANS 204008 PLANT (GROUP H)	5.95	
For >10 To 100, Deduct	-0.60	
For >100 To 1,000, Deduct	-1.34	
For >1,000 To 10,000, Deduct	-2.08	
For >10,000 To 25,000, Deduct	-2.98	
For >25,000, Deduct	-4.17	
50 89 83 20-0019 EA CALTRANS 204009 PLANT (GROUP I)	22.31	
For >100 To 1,000, Deduct	-1.51	
For >1,000 To 5,000, Deduct	-2.47	
For >5,000, Deduct	-3.02	
50 89 83 20-0020 EA CALTRANS 204011 PLANT (GROUP K)	527.97	
50 89 83 20-0021 EA CALTRANS 204013 PLANT (GROUP M)	7.57	
For >100 To 1,000, Deduct	-0.44	
For >1,000 To 5,000, Deduct	-0.69	
For >5,000, Deduct	-0.88	
50 89 83 20-0022 EA CALTRANS 204015 PLANT (GROUP S)	8.37	
For >100 To 1,000, Deduct	-0.52	
For >1,000 To 5,000, Deduct	-0.84	
For >5,000, Deduct	-1.05	
50 89 83 20-0023 EA CALTRANS 204020 PLANT (GROUP P)	7.18	
For >100 To 1,000, Deduct	-0.41	
For >1,000 To 5,000, Deduct	-0.64	
For >5,000, Deduct	-0.82	
50 89 83 20-0024 EA CALTRANS 204030 TRANSPLANT TREE	3,661.54	
For >5 To 10, Deduct	-183.08	
For >10 To 20, Deduct	-366.15	
For >20, Deduct	-549.23	
50 89 83 20-0025 EA CALTRANS 204035 PLANT (GROUP A)	30.23	
50 89 83 20-0026 EA CALTRANS 204036 PLANT (GROUP B)	76.79	
50 89 83 20-0027 EA CALTRANS 204038 PLANT (GROUP U)	201.03	
50 89 83 20-0028 SY CALTRANS 204045 SOD	19.79	
50 89 83 20-0029 SF CALTRANS 205033 GRAVEL MULCH	1.06	
50 89 83 20-0030 SF CALTRANS 205034 DECOMPOSED GRANITE	1.59	
50 89 83 20-0031 CY CALTRANS 205035 WOOD MULCH	108.55	
For >5 To 20, Deduct	-8.79	
For >20 To 50, Deduct	-13.19	
For >50, Deduct	-18.62	
50 89 83 20-0032 EA CALTRANS 205051 FOLIAGE PROTECTOR	36.89	
50 89 83 20-0033 EA CALTRANS 205052 ROOT PROTECTOR	25.98	
50 89 83 20-0034 LF CALTRANS 205062 ROOT BARRIER	11.91	
50 89 83 20-0035 LF CALTRANS 206005 EDGING	16.24	
50 89 83 20-0036 EA CALTRANS 206561 3/4" REMOTE CONTROL VALVE	377.05	
50 89 83 20-0037 EA CALTRANS 206562 1" REMOTE CONTROL VALVE	574.28	
50 89 83 20-0038 EA CALTRANS 206563 1 1/4" REMOTE CONTROL VALVE	628.13	
50 89 83 20-0039 EA CALTRANS 206564 1 1/2" REMOTE CONTROL VALVE	686.59	
50 89 83 20-0040 EA CALTRANS 206565 2" REMOTE CONTROL VALVE	763.57	
50 89 83 20-0041 EA CALTRANS 206566 2 1/2" REMOTE CONTROL VALVE	1,187.09	
50 89 83 20-0042 EA CALTRANS 206567 3" REMOTE CONTROL VALVE	1,610.61	
50 89 83 20-0043 EA CALTRANS 206571 REMOTE CONTROL VALVE WITH PRESSURE REGULATOR	847.98	
50 89 83 20-0044 EA CALTRANS 206630 3/4" WYE STRAINER ASSEMBLY	323.19	
50 89 83 20-0045 EA CALTRANS 206631 1" WYE STRAINER ASSEMBLY	350.78	
50 89 83 20-0046 EA CALTRANS 206632 1 1/4" WYE STRAINER ASSEMBLY	391.38	
50 89 83 20-0047 EA CALTRANS 206633 1 1/2" WYE STRAINER ASSEMBLY	415.87	
50 89 83 20-0048 EA CALTRANS 206634 2" WYE STRAINER ASSEMBLY	497.10	
50 89 83 20-0049 EA CALTRANS 206635 2-1/2" WYE STRAINER ASSEMBLY	758.30	
50 89 83 20-0050 EA CALTRANS 206636 3" WYE STRAINER ASSEMBLY	863.91	
50 89 83 20-0051 EA CALTRANS 206747 4 STATION IRRIGATION CONTROLLER (WALL MOUNTED)	819.56	
50 89 83 20-0052 EA CALTRANS 206749 8 STATION IRRIGATION CONTROLLER (WALL MOUNTED)	1,137.55	
50 89 83 20-0053 EA CALTRANS 206751 12 STATION IRRIGATION CONTROLLER (WALL MOUNTED)	1,511.96	
50 89 83 20-0054 EA CALTRANS 206757 16-18 STATION IRRIGATION CONTROLLER (WALL MOUNTED)	1,933.85	
50 89 83 20-0055 EA CALTRANS 206758 24-32 STATION IRRIGATION CONTROLLER (WALL MOUNTED)	2,570.70	
50 89 83 20-0056 EA CALTRANS 206759 30-42 STATION IRRIGATION CONTROLLER (WALL MOUNTED)	3,204.56	
50 89 83 20-0057 LF CALTRANS 207050 1/2" COPPER PIPE (SUPPLY LINE)	10.35	
For >1,000, Deduct	-0.52	
50 89 83 20-0058 LF CALTRANS 207051 3/4" COPPER PIPE (SUPPLY LINE)	13.78	
For >1,000, Deduct	-0.69	
50 89 83 20-0059 LF CALTRANS 207052 1" COPPER PIPE (SUPPLY LINE)	17.20	
For >1,000, Deduct	-0.86	
50 89 83 20-0060 LF CALTRANS 207053 1 1/4" COPPER PIPE (SUPPLY LINE)	22.10	
For >1,000, Deduct	-1.11	
50 89 83 20-0061 LF CALTRANS 207054 1 1/2" COPPER PIPE (SUPPLY LINE)	26.74	
For >1,000, Deduct	-1.34	
50 89 83 20-0062 LF CALTRANS 207055 2" COPPER PIPE (SUPPLY LINE)	36.57	
For >1,000, Deduct	-1.83	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0063 LF CALTRANS 207056 3" COPPER PIPE (SUPPLY LINE).....	70.36	
For >1,000, Deduct	-3.52	
50 89 83 20-0064 LF CALTRANS 207057 4" COPPER PIPE (SUPPLY LINE).....	112.66	
For >1,000, Deduct	-5.63	
50 89 83 20-0065 LF CALTRANS 207058 2 1/2" COPPER PIPE (SUPPLY LINE).....	48.58	
For >1,000, Deduct	-2.43	
50 89 83 20-0066 LF CALTRANS 208001 1/2" GALVANIZED PIPE (SUPPLY LINE).....	12.37	
For >1,000, Deduct	-0.62	
50 89 83 20-0067 LF CALTRANS 208002 3/4" GALVANIZED PIPE (SUPPLY LINE).....	14.59	
For >1,000, Deduct	-0.73	
50 89 83 20-0068 LF CALTRANS 208003 1" GALVANIZED PIPE (SUPPLY LINE).....	17.42	
For >1,000, Deduct	-0.87	
50 89 83 20-0069 LF CALTRANS 208004 1 1/4" GALVANIZED PIPE (SUPPLY LINE).....	20.94	
For >1,000, Deduct	-1.05	
50 89 83 20-0070 LF CALTRANS 208005 1 1/2" GALVANIZED PIPE (SUPPLY LINE).....	24.45	
For >1,000, Deduct	-1.22	
50 89 83 20-0071 LF CALTRANS 208006 2" GALVANIZED PIPE (SUPPLY LINE).....	31.22	
For >1,000, Deduct	-1.56	
50 89 83 20-0072 LF CALTRANS 208007 2 1/2" GALVANIZED PIPE (SUPPLY LINE).....	49.19	
For >1,000, Deduct	-2.46	
50 89 83 20-0073 LF CALTRANS 208008 3" GALVANIZED PIPE (SUPPLY LINE).....	67.71	
For >1,000, Deduct	-3.39	
50 89 83 20-0074 LF CALTRANS 208009 4" GALVANIZED PIPE (SUPPLY LINE).....	105.99	
For >1,000, Deduct	-5.30	
50 89 83 20-0075 LF CALTRANS 208026 2" SUPPLY LINE (BRIDGE).....	47.48	
50 89 83 20-0076 LF CALTRANS 208027 2 1/2" SUPPLY LINE (BRIDGE).....	59.61	
50 89 83 20-0077 LF CALTRANS 208028 3" SUPPLY LINE (BRIDGE).....	73.49	
50 89 83 20-0078 LF CALTRANS 208029 4" SUPPLY LINE (BRIDGE).....	108.62	
50 89 83 20-0079 LF CALTRANS 208030 6" SUPPLY LINE (BRIDGE).....	282.28	
50 89 83 20-0080 LF CALTRANS 208033 8" SUPPLY LINE (BRIDGE).....	639.67	
50 89 83 20-0081 LF CALTRANS 208042 2" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	35.53	
50 89 83 20-0082 LF CALTRANS 208043 2 1/2" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	53.62	
50 89 83 20-0083 LF CALTRANS 208044 3" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	65.95	
50 89 83 20-0084 LF CALTRANS 208046 4" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	105.59	
50 89 83 20-0085 LF CALTRANS 208220 1/2" DRIP IRRIGATION TUBING.....	2.29	
50 89 83 20-0086 LF CALTRANS 208221 3/4" DRIP IRRIGATION TUBING.....	2.45	
50 89 83 20-0087 EA CALTRANS 208301 IRRIGATION CONTROLLER ENCLOSURE CABINET.....	3,547.14	
50 89 83 20-0088 EA CALTRANS 208422 3/4" BACKFLOW PREVENTER ASSEMBLY.....	1,959.12	
50 89 83 20-0089 EA CALTRANS 208423 1" BACKFLOW PREVENTER ASSEMBLY.....	2,070.15	
50 89 83 20-0090 EA CALTRANS 208424 1 1/4" BACKFLOW PREVENTER ASSEMBLY.....	2,721.76	
50 89 83 20-0091 EA CALTRANS 208425 1 1/2" BACKFLOW PREVENTER ASSEMBLY.....	2,963.67	
50 89 83 20-0092 EA CALTRANS 208426 2" BACKFLOW PREVENTER ASSEMBLY.....	3,942.52	
50 89 83 20-0093 EA CALTRANS 208427 2 1/2" BACKFLOW PREVENTER ASSEMBLY.....	8,731.48	
50 89 83 20-0094 EA CALTRANS 208428 3" BACKFLOW PREVENTER ASSEMBLY.....	10,130.22	
50 89 83 20-0095 EA CALTRANS 208429 4" BACKFLOW PREVENTER ASSEMBLY.....	10,977.13	
50 89 83 20-0096 EA CALTRANS 208440 BACKFLOW PREVENTER ENCLOSURE.....	2,782.80	
50 89 83 20-0097 EA CALTRANS 208442 FLOW SENSOR.....	1,587.56	
50 89 83 20-0098 EA CALTRANS 208447 POP-UP SPRINKLER ASSEMBLY (GEAR DRIVEN).....	78.83	12.29
50 89 83 20-0099 EA CALTRANS 208448 RISER SPRINKLER ASSEMBLY.....	49.57	12.29
50 89 83 20-0100 EA CALTRANS 208449 POP-UP SPRINKLER ASSEMBLY.....	48.72	12.29
50 89 83 20-0101 EA CALTRANS 208562 CAM COUPLER ASSEMBLY.....	420.13	
50 89 83 20-0102 EA CALTRANS 208569 1/2" GATE VALVE.....	291.70	
50 89 83 20-0103 EA CALTRANS 208570 3/4" GATE VALVE.....	309.90	
50 89 83 20-0104 EA CALTRANS 208572 1" GATE VALVE.....	338.68	
50 89 83 20-0105 EA CALTRANS 208573 1 1/4" GATE VALVE.....	373.60	
50 89 83 20-0106 EA CALTRANS 208574 1 1/2" GATE VALVE.....	398.63	
50 89 83 20-0107 EA CALTRANS 208575 2" GATE VALVE.....	454.23	
50 89 83 20-0108 EA CALTRANS 208576 2 1/2" GATE VALVE.....	739.77	
50 89 83 20-0109 EA CALTRANS 208588 3" GATE VALVE.....	833.49	
50 89 83 20-0110 EA CALTRANS 208589 4" GATE VALVE.....	1,113.89	
50 89 83 20-0111 EA CALTRANS 208590 6" GATE VALVE.....	1,499.87	
50 89 83 20-0112 EA CALTRANS 208591 8" GATE VALVE.....	2,171.01	
50 89 83 20-0113 LF CALTRANS 208593 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	6.02	
For >1,000, Deduct	-0.30	
For Schedule 80, Add	0.13	
50 89 83 20-0114 LF CALTRANS 208594 3/4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	6.15	
For >1,000, Deduct	-0.31	
For Schedule 80, Add	0.17	
50 89 83 20-0115 LF CALTRANS 208595 1" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	6.87	
For >1,000, Deduct	-0.34	
For Schedule 80, Add	0.27	
50 89 83 20-0116 LF CALTRANS 208596 1 1/4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	8.07	
For >1,000, Deduct	-0.40	
For Schedule 80, Add	0.40	
50 89 83 20-0117 LF CALTRANS 208597 1 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	8.24	
For >1,000, Deduct	-0.41	
For Schedule 80, Add	0.54	
50 89 83 20-0118 LF CALTRANS 208598 2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	9.64	
For >1,000, Deduct	-0.48	
For Schedule 80, Add	0.90	
50 89 83 20-0119 LF CALTRANS 208599 2 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	11.49	
For >1,000, Deduct	-0.57	
For Schedule 80, Add	1.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0120 LF CALTRANS 208600 3" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	14.83	
<i>For >1,000, Deduct</i>	-0.74	
<i>For Schedule 80, Add</i>	1.64	
50 89 83 20-0121 LF CALTRANS 208601 4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	18.49	
<i>For >1,000, Deduct</i>	-0.92	
<i>For Schedule 80, Add</i>	2.51	
50 89 83 20-0122 LF CALTRANS 208602 6" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	24.98	
<i>For >1,000, Deduct</i>	-1.25	
<i>For Schedule 80, Add</i>	5.59	
50 89 83 20-0123 LF CALTRANS 208603 8" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	29.73	
<i>For >1,000, Deduct</i>	-1.49	
<i>For Schedule 80, Add</i>	8.57	
50 89 83 20-0124 LF CALTRANS 208604 10" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	58.46	
<i>For >1,000, Deduct</i>	-2.92	
<i>For Schedule 80, Add</i>	26.66	
50 89 83 20-0125 LF CALTRANS 208605 2" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	10.11	
<i>For >1,000, Deduct</i>	-0.51	
50 89 83 20-0126 LF CALTRANS 208606 2 1/2" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	12.25	
<i>For >1,000, Deduct</i>	-0.61	
50 89 83 20-0127 LF CALTRANS 208607 3" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	14.83	
<i>For >1,000, Deduct</i>	-0.74	
50 89 83 20-0128 LF CALTRANS 208608 4" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	18.49	
<i>For >1,000, Deduct</i>	-0.92	
50 89 83 20-0129 LF CALTRANS 208609 6" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	25.32	
<i>For >1,000, Deduct</i>	-1.27	
50 89 83 20-0130 EA CALTRANS 208631 3/4" PRESSURE RELIEF VALVE	912.12	
50 89 83 20-0131 EA CALTRANS 208632 1 1/2" PRESSURE RELIEF VALVE	1,348.31	
50 89 83 20-0132 EA CALTRANS 208633 1" PRESSURE RELIEF VALVE	1,087.14	
50 89 83 20-0133 EA CALTRANS 208634 2" PRESSURE RELIEF VALVE	1,542.85	
50 89 83 20-0134 EA CALTRANS 208640 PRESSURE REGULATING VALVE (3/4")	270.40	
50 89 83 20-0135 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1")	356.25	
50 89 83 20-0136 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1-1/4")	611.71	
50 89 83 20-0137 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1-1/2")	830.51	
50 89 83 20-0138 EA CALTRANS 208640 PRESSURE REGULATING VALVE (2")	1,189.95	
50 89 83 20-0139 EA CALTRANS 208649 QUICK COUPLING VALVE	491.05	
50 89 83 20-0140 EA CALTRANS 208670 1/2" CHECK VALVE	305.80	
50 89 83 20-0141 EA CALTRANS 208670 3/4" CHECK VALVE	327.55	
50 89 83 20-0142 EA CALTRANS 208670 1" CHECK VALVE	357.03	
50 89 83 20-0143 EA CALTRANS 208670 1 1/4" CHECK VALVE	402.44	
50 89 83 20-0144 EA CALTRANS 208670 1 1/2" CHECK VALVE	449.52	
50 89 83 20-0145 EA CALTRANS 208670 2" CHECK VALVE	512.04	
50 89 83 20-0146 EA CALTRANS 208670 2 1/2" CHECK VALVE	801.37	
50 89 83 20-0147 EA CALTRANS 208670 3" CHECK VALVE	866.53	
50 89 83 20-0148 EA CALTRANS 208670 4" CHECK VALVE	1,249.29	
50 89 83 20-0149 EA CALTRANS 208670 6" CHECK VALVE	1,784.78	
50 89 83 20-0150 EA CALTRANS 208670 8" CHECK VALVE	3,595.03	
50 89 83 20-0151 EA CALTRANS 208683 1/2" BALL VALVE	273.32	
50 89 83 20-0152 EA CALTRANS 208683 3/4" BALL VALVE	298.93	
50 89 83 20-0153 EA CALTRANS 208683 1" BALL VALVE	308.95	
50 89 83 20-0154 EA CALTRANS 208683 1 1/4" BALL VALVE	342.05	
50 89 83 20-0155 EA CALTRANS 208683 1 1/2" BALL VALVE	359.61	
50 89 83 20-0156 EA CALTRANS 208683 2" BALL VALVE	394.63	
50 89 83 20-0157 EA CALTRANS 208683 2 1/2" BALL VALVE	441.47	
50 89 83 20-0158 LF CALTRANS 208690 PVC PIPE CONDUIT (SLEEVE)	29.73	
<i>For >1,000, Deduct</i>	-1.49	
50 89 83 20-0159 LF CALTRANS 208702 8" ABS COMPOSITE PIPE CONDUIT	39.42	
<i>For >1,000, Deduct</i>	-1.97	
50 89 83 20-0160 LF CALTRANS 208703 10" ABS COMPOSITE PIPE CONDUIT	55.21	
<i>For >1,000, Deduct</i>	-2.76	
50 89 83 20-0161 LF CALTRANS 208738 8" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	23.37	
50 89 83 20-0162 LF CALTRANS 208739 10" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	29.88	
50 89 83 20-0163 LF CALTRANS 208740 12" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	34.65	
50 89 83 20-0164 LF CALTRANS 208756 6" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	23.49	
50 89 83 20-0165 LF CALTRANS 208758 8" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	29.09	
50 89 83 20-0166 LF CALTRANS 208760 10" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	36.00	
50 89 83 20-0167 LF CALTRANS 208762 12" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	40.40	
50 89 83 20-0168 LF CALTRANS 208813 1 1/4" WELDED STEEL PIPE CONDUIT	22.07	
<i>For >1,000, Deduct</i>	-1.10	
50 89 83 20-0169 LF CALTRANS 208814 1 1/2" WELDED STEEL PIPE CONDUIT	25.65	
<i>For >1,000, Deduct</i>	-1.28	
50 89 83 20-0170 LF CALTRANS 208815 2" WELDED STEEL PIPE CONDUIT	29.54	
<i>For >1,000, Deduct</i>	-1.48	
50 89 83 20-0171 LF CALTRANS 208816 3" WELDED STEEL PIPE CONDUIT	39.48	
<i>For >1,000, Deduct</i>	-1.97	
50 89 83 20-0172 LF CALTRANS 208817 4" WELDED STEEL PIPE CONDUIT	52.58	
<i>For >1,000, Deduct</i>	-2.63	
50 89 83 20-0173 LF CALTRANS 208818 6" WELDED STEEL PIPE CONDUIT	73.41	
<i>For >1,000, Deduct</i>	-3.67	
50 89 83 20-0174 LF CALTRANS 208819 8" WELDED STEEL PIPE CONDUIT	104.24	
<i>For >1,000, Deduct</i>	-5.21	
50 89 83 20-0175 LF CALTRANS 208820 10" WELDED STEEL PIPE CONDUIT	136.05	
<i>For >1,000, Deduct</i>	-6.80	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

50 89 83 20-0176 LF CALTRANS 208821 12" WELDED STEEL PIPE CONDUIT.....172.16
For >1,000, Deduct -8.61

50 89 83 21 EROSION CONTROL (50 89 83)

Note: Includes applying permanent erosion control measures to the soil surface per CALTRAN Standard.

50 89 83 21-0001 EA CALTRANS 210010 MOVE-IN/MOVE-OUT (EROSION CONTROL).....329.43
50 89 83 21-0002 CY CALTRANS 210110 IMPORTED TOPSOIL (CY).....85.23
50 89 83 21-0003 TON CALTRANS 210111 IMPORTED TOPSOIL (TON).....106.55
50 89 83 21-0004 SF CALTRANS 210212 DRY SEED (SQFT).....0.10
50 89 83 21-0005 ACR CALTRANS 210213 DRY SEED (ACRE).....4,226.78
For >5 To 20, Deduct -297.74
For >20 To 45, Deduct -576.20
For >45, Deduct -941.06
50 89 83 21-0006 SY CALTRANS 210222 DRILL SEED (SQYD).....0.36
50 89 83 21-0007 ACR CALTRANS 210223 DRILL SEED (ACRE).....1,742.67
50 89 83 21-0008 SF CALTRANS 210252 BONDED FIBER MATRIX (SQFT).....0.09
50 89 83 21-0009 ACR CALTRANS 210253 BONDED FIBER MATRIX (ACRE).....3,989.26
50 89 83 21-0010 SF CALTRANS 210260 ROLLED EROSION CONTROL PRODUCT (JUTE MESH).....0.42
50 89 83 21-0011 SF CALTRANS 210270 ROLLED EROSION CONTROL PRODUCT (NETTING).....1.65
50 89 83 21-0012 SF CALTRANS 210280 ROLLED EROSION CONTROL PRODUCT (BLANKET).....0.53
50 89 83 21-0013 SF CALTRANS 210290 ROLLED EROSION CONTROL PRODUCT (TRM).....1.48
50 89 83 21-0014 SF CALTRANS 210300 HYDROMULCH.....0.10
50 89 83 21-0015 LF CALTRANS 210350 FIBER ROLL.....10.18
Note: 12" Diameter, Type 1
For >1,000 To 10,000, Deduct -0.91
For >10,000, Deduct -1.55
For 9" Diameter, Deduct -1.38
50 89 83 21-0016 LF CALTRANS 210350 FIBER ROLL.....8.58
Note: 12" Diameter, Type 2
For >1,000 To 10,000, Deduct -0.67
For >10,000, Deduct -1.15
For 9" Diameter, Deduct -1.38
50 89 83 21-0017 LF CALTRANS 210360 COMPOST SOCK.....10.62
50 89 83 21-0018 SF CALTRANS 210420 STRAW.....0.20
50 89 83 21-0019 SF CALTRANS 210430 HYDROSEED.....0.10
50 89 83 21-0020 CY CALTRANS 210610 COMPOST (CY).....86.23
For >100 To 1,000, Deduct -14.41
For >1,000, Deduct -22.08
50 89 83 21-0021 SF CALTRANS 210630 INCORPORATE MATERIALS.....0.05

50 89 84 CALTRANS DIVISION IV - SUBBASES AND BASES (50 89 80)

50 89 84 24 STABILIZED SOILS (50 89 84)

50 89 84 24-0001 SY CALTRANS 240105 LIME STABILIZED SOIL.....12.64
For 4% Lime Instead Of 5%, Deduct -0.38
For 6% Lime Instead Of 5%, Add 0.38
50 89 84 24-0002 SY CALTRANS 240300 CEMENT STABILIZED SOIL.....11.29

50 89 84 25 AGGREGATE SUBBASES (50 89 84)

Note: Includes aggregate, placing aggregate subbase, water, geosynthetic materials, spreading, compacting per CALTRAN Standard.

50 89 84 25-0001 CY CALTRANS 250101 CLASS 1 AGGREGATE SUBBASE.....116.04
50 89 84 25-0002 CY CALTRANS 250201 CLASS 2 AGGREGATE SUBBASE.....88.86
50 89 84 25-0003 CY CALTRANS 250301 CLASS 3 AGGREGATE SUBBASE.....86.04
50 89 84 25-0004 CY CALTRANS 250401 CLASS 4 AGGREGATE SUBBASE.....86.00
50 89 84 25-0005 CY CALTRANS 250501 CLASS 5 AGGREGATE SUBBASE.....85.97

50 89 84 26 AGGREGATE BASES (50 89 84)

Note: Includes aggregate, placing aggregate, water, geosynthetic materials, spreading, compacting per CALTRAN Standard.

50 89 84 26-0001 CY CALTRANS 260200 AGGREGATE BASE.....115.15
For Recycled Aggregate Base, Deduct -7.50
50 89 84 26-0002 TON CALTRANS 260202 CLASS 2 AGGREGATE BASE (TON).....84.53
50 89 84 26-0003 CY CALTRANS 260203 CLASS 2 AGGREGATE BASE (CY).....88.86
50 89 84 26-0004 TON CALTRANS 260302 CLASS 3 AGGREGATE BASE (TON).....80.67
50 89 84 26-0005 CY CALTRANS 260303 CLASS 3 AGGREGATE BASE (CY).....86.04

50 89 84 27 CEMENT TREATED BASES (50 89 84)

Note: Includes aggregate, Type II portland cement, mixing, placing cement treated base, spreading, compaction, contact joints and curing per CALTRAN Standard.

50 89 84 27-0001 TON CALTRANS 270002 CEMENT TREATED BASE (ROAD-MIXED, CLASS A) (TON).....51.00
For Up To 500, Add 15.02
For >500 To 1,000, Add 5.10
For >5,000 To 10,000, Deduct -1.94
For >10,000, Deduct -3.32



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 84 27-0002 CY CALTRANS 270003 CEMENT TREATED BASE (ROAD-MIXED, CLASS A) (CY).....	69.21	
<i>For Up To 500, Add</i>	20.41	
<i>For >500 To 1,000, Add</i>	6.92	
<i>For >5,000 To 10,000, Deduct</i>	-2.63	
<i>For >10,000, Deduct</i>	-4.50	
50 89 84 27-0003 TON CALTRANS 270013 CEMENT TREATED BASE (PLANT-MIXED, CLASS A) (TON).....	42.37	
<i>For Up To 500, Add</i>	12.43	
<i>For >500 To 1,000, Add</i>	4.24	
<i>For >5,000 To 10,000, Deduct</i>	-1.61	
<i>For >10,000, Deduct</i>	-2.75	
50 89 84 27-0004 CY CALTRANS 270014 CEMENT TREATED BASE (PLANT-MIXED, CLASS A) (CY).....	60.57	
<i>For Up To 500, Add</i>	17.81	
<i>For >500 To 1,000, Add</i>	6.06	
<i>For >5,000 To 10,000, Deduct</i>	-2.30	
<i>For >10,000, Deduct</i>	-3.94	
50 89 84 28 CONCRETE BASES <small>(50 89 84)</small>		
<i>Note: Includes constructing concrete bases and placing concrete per CALTRAN Standard.</i>		
50 89 84 28-0001 CY CALTRANS 280001 CONCRETE BASE	243.02	
50 89 84 29 TREATED PERMEABLE BASES <small>(50 89 84)</small>		
<i>Note: Includes constructing treated permeable bases, spreading, and placement per CALTRAN Standard.</i>		
50 89 84 29-0001 CY CALTRANS 290301 CEMENT TREATED PERMEABLE BASE	890.83	
<i>For >5,000 To 30,000, Deduct</i>	-94.60	
<i>For >30,000 To 100,000, Deduct</i>	-172.44	
<i>For >100,000, Deduct</i>	-214.15	
50 89 84 30 RECLAIMED PAVEMENT <small>(50 89 84)</small>		
<i>Note: Includes constructing reclaimed pavement bases, surface preparation, grading, compaction, finishing and placement per CALTRAN Standard.</i>		
50 89 84 30-0001 SF CALTRANS 300100 FULL DEPTH RECLAMATION-FOAMED ASPHALT	22.15	
50 89 84 30-0002 SY CALTRANS 303000 PULVERIZED ROADBED	5.12	
50 89 85 CALTRANS DIVISION V - SURFACINGS AND PAVEMENTS <small>(50 89 80)</small>		
50 89 85 37 BITUMINOUS SEALS <small>(50 89 85)</small>		
<i>Note: Includes applying bituminous seals, surface preparation, placement, spreading, finishing and seal coat per CALTRAN Standard.</i>		
50 89 85 37-0001 SY CALTRANS 370001 SAND COVER (SEAL).....	1.37	
50 89 85 37-0002 SY CALTRANS 374002 ASPHALTIC EMULSION (FOG SEAL COAT)	0.75	
50 89 85 37-0003 LNMI CALTRANS 374207 CRACK TREATMENT	6,403.39	
50 89 85 37-0004 SY CALTRANS 374491 NONPOLYMER ASPHALTIC EMULSION (SEAL COAT)	4.24	
50 89 85 37-0005 SY CALTRANS 374493 POLYMER ASPHALTIC EMULSION (SEAL COAT)	8.26	
50 89 85 37-0006 TON CALTRANS 375001 SCREENINGS	82.33	
<i>For Up To 14, Add</i>	22.62	
<i>For >14 To 35, Add</i>	8.23	
50 89 85 37-0007 SY CALTRANS 375009 TACK COAT (SEAL).....	0.90	
<i>For Up To 150, Add</i>	0.19	
<i>For >150 To 300, Add</i>	0.09	
<i>For >300 To 500, Add</i>	0.05	
<i>For >3,500 To 5,000, Deduct</i>	-0.02	
<i>For >5,000, Deduct</i>	-0.06	
50 89 85 37-0008 SY CALTRANS 377501 SLURRY SEAL (TYPE I)	2.70	
<i>Note: 1/8" thick.</i>		
<i>For Each 0.5% Of Latex Addition, Add</i>	0.24	
50 89 85 37-0009 SY CALTRANS 377501 SLURRY SEAL (TYPE II)	3.55	
<i>Note: 1/4" thick, 14 to 18 Lbs/SY.</i>		
<i>For Each 0.5% Of Latex Addition, Add</i>	0.36	
50 89 85 37-0010 SY CALTRANS 377501 SLURRY SEAL (TYPE III)	4.55	
<i>Note: 3/8" thick, 25 to 30 Lbs/SY.</i>		
<i>For Each 0.5% Of Latex Addition, Add</i>	0.58	
50 89 85 37-0011 SY CALTRANS 378000 MICRO-SURFACING.....	9.06	
50 89 85 39 ASPHALT CONCRETE <small>(50 89 85)</small>		
<i>Note: Includes hot mix asphalt, preparation, placement, finishing, compaction and testing per CALTRAN Standard.</i>		
50 89 85 39-0001 TON CALTRANS 390100 PRIME COAT	1,154.25	
50 89 85 39-0002 TON CALTRANS 390132 HOT MIX ASPHALT (TYPE A)	152.70	
50 89 85 39-0003 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (UP TO 25)	286.93	
50 89 85 39-0004 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>25 - 100)	251.62	
50 89 85 39-0005 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>100 - 250)	216.07	
50 89 85 39-0006 TON CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>250)	183.52	
50 89 85 39-0007 TON CALTRANS 390136 MINOR HOT MIX ASPHALT (UP TO 25)	294.65	
50 89 85 39-0008 TON CALTRANS 390137 RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	180.81	
<i>Note: Includes placement, rolling, finishing and sweeping.</i>		

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 85 39-0009	SY		CALTRANS 393004 GEOSYNTHETIC PAVEMENT INTERLAYER (PAVING FABRIC).....2.01 Note: 4.1 Oz/SY, 100# 1-Inch Grab Tensile, Nonwoven Polypropylene		
			For Up To 50, Add	0.44	
			For >50 To 150, Add	0.33	
			For >150 To 250, Add	0.21	
			For >250 To 500, Add	0.11	
50 89 85 39-0010	LF		CALTRANS 394072 PLACE HOT MIX ASPHALT DIKE (TYPE B).....9.47		
50 89 85 39-0011	LF		CALTRANS 394073 PLACE HOT MIX ASPHALT DIKE (TYPE A).....6.89		
50 89 85 39-0012	LF		CALTRANS 394074 PLACE HOT MIX ASPHALT DIKE (TYPE C).....3.60		
50 89 85 39-0013	LF		CALTRANS 394075 PLACE HOT MIX ASPHALT DIKE (TYPE D).....15.19		
50 89 85 39-0014	LF		CALTRANS 394076 PLACE HOT MIX ASPHALT DIKE (TYPE E).....9.83		
50 89 85 39-0015	LF		CALTRANS 394077 PLACE HOT MIX ASPHALT DIKE (TYPE F).....5.27		
50 89 85 39-0016	SY		CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) Up To 2" .....16.91		
			For Up To 500, Add	2.58	
			For >500 To 1,000, Add	1.46	
			For >5,000 To 10,000, Deduct	-0.70	
			For >10,000 To 24,000, Deduct	-1.27	
			For >24,000 To 48,000, Deduct	-1.97	
			For >48,000, Deduct	-2.84	
50 89 85 39-0017	SY		CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >2" To 3" .....23.74		
			For Up To 300, Add	3.42	
			For >300 To 600, Add	2.81	
			For >3,000 To 6,000, Deduct	-1.01	
			For >6,000 To 16,000, Deduct	-1.85	
			For >16,000 To 32,000, Deduct	-2.86	
			For >32,000, Deduct	-4.11	
50 89 85 39-0018	SY		CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >3" To 4" .....32.43		
			For Up To 250, Add	4.35	
			For >250 To 500, Add	2.39	
			For >2,500 To 5,000, Deduct	-1.44	
			For >5,000 To 12,000, Deduct	-2.61	
			For >12,000 To 24,000, Deduct	-4.05	
			For >24,000, Deduct	-5.81	
50 89 85 39-0019	SY		CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >4" To 6" .....48.66		
			For Up To 160, Add	6.53	
			For >160 To 320, Add	3.59	
			For >1,600 To 3,200, Deduct	-2.16	
			For >3,200 To 8,000, Deduct	-3.92	
			For >8,000 To 16,000, Deduct	-6.07	
			For >16,000, Deduct	-8.71	
50 89 85 39-0020	TON		CALTRANS 395020 RUBBERIZED HOT MIX ASPHALT-GAP GRADED (BONDED WEARING COURSE).....180.81		
50 89 85 39-0021	TON		CALTRANS 397005 TACK COAT .....695.11		
50 89 85 39-0022	SF		CALTRANS 398000 REMOVE ASPHALT CONCRETE PAVEMENT (CY) .....189.01		
			For >500 To 1,000, Deduct	-18.90	
			For >1,000 To 2,500, Deduct	-34.02	
			For >2,500 To 5,000, Deduct	-49.14	
			For >5,000 To 10,000, Deduct	-64.26	
			For >10,000, Deduct	-79.38	
50 89 85 39-0023	SF		CALTRANS 398001 REMOVE ASPHALT CONCRETE PAVEMENT (SQFT) .....3.20		
			For >500 To 1,000, Deduct	-0.32	
			For >1,000 To 2,500, Deduct	-0.58	
			For >2,500 To 5,000, Deduct	-0.83	
			For >5,000 To 10,000, Deduct	-1.09	
			For >10,000, Deduct	-1.34	
50 89 85 39-0024	LF		CALTRANS 398100 REMOVE ASPHALT CONCRETE DIKE.....5.19		
50 89 85 39-0025	SY		CALTRANS 398200 COLD PLANE ASPHALT CONCRETE PAVEMENT (Up To 3") .....4.59		
			For Up To 2,500, Add	3.44	
			For >2,500 To 5,000, Add	1.15	
			For >10,000 To 25,000, Deduct	-0.46	
			For >25,000, Deduct	-0.69	
50 89 85 39-0026	SY		CALTRANS 398200 COLD PLANE ASPHALT CONCRETE PAVEMENT (>3" To 6") .....6.12		
			For Up To 2,500, Add	4.59	
			For >2,500 To 5,000, Add	1.53	
			For >10,000 To 25,000, Deduct	-0.61	
			For >25,000, Deduct	-0.92	

50 89 85 40 CONCRETE PAVEMENT (50 89 85)

Note: Includes concrete pavement, reinforcing, placement, finishing, compaction and testing per CALTRAN Standard.

50 89 85 40-0001	CY		CALTRANS 400050 CONTINUOUSLY REINFORCED CONCRETE PAVEMENT .....376.90		
			For >1,000 To 5,000, Deduct	-16.79	
			For >5,000, Deduct	-44.03	
50 89 85 40-0002	CY		CALTRANS 401050 JOINTED PLAIN CONCRETE PAVEMENT.....364.67		
			For >1,000 To 5,000, Deduct	-16.79	
			For >5,000, Deduct	-43.42	

50 89 85 41 EXISTING CONCRETE PAVEMENT (50 89 85)

Note: Includes work on existing concrete pavement, placement and finishing per CALTRAN Standard.

50 89 85 41-0001	EA		CALTRANS 410096 DRILL AND BOND (DOWEL BAR) .....27.90		
50 89 85 41-0002	SY		CALTRANS 410121 SPALL REPAIR (FAST-SETTING CONCRETE) .....383.89		
			For Up To 100, Add	513.16	
			For >100 To 250, Add	256.58	
50 89 85 41-0003	LF		CALTRANS 414222 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 7/16" TO 13/16") .....12.63		
50 89 85 41-0004	LF		CALTRANS 414223 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 1" TO 1-1/4") .....14.72		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 85 41-0005 LF CALTRANS 414224 REPLACE JOINT SEAL (PERFORMED COMPRESSION, 1-5/8" TO 2").....	21.60	
50 89 85 41-0006 LF CALTRANS 414241 ISOLATION JOINT SEAL (SILICONE).....	10.97	
50 89 85 41-0007 LF CALTRANS 414242 ISOLATION JOINT SEAL (PERFORMED COMPRESSION).....	13.00	
50 89 85 41-0008 SY CALTRANS 416101 PAVEMENT TRANSITION TAPER.....	58.73	
For Up To 100, Add	22.73	
For >100 To 250, Add	12.93	
For >250 To 500, Add	6.47	
For >1,000 To 2,000, Deduct	-1.56	
For >2,000 To 5,000, Deduct	-3.03	
For >5,000 To 10,000, Deduct	-4.50	
For >10,000 To 20,000, Deduct	-5.97	
For >20,000, Deduct	-7.44	
50 89 85 41-0009 CY CALTRANS 418002 REMOVE CONCRETE PAVEMENT AND BASE.....	44.62	
50 89 85 41-0010 SY CALTRANS 418005 REMOVE CONCRETE PAVEMENT (SQYD).....	22.91	
For >500 To 1,000, Deduct	-2.29	
For >1,000 To 2,500, Deduct	-4.12	
For >2,500 To 5,000, Deduct	-5.96	
For >5,000 To 10,000, Deduct	-7.79	
For >10,000, Deduct	-9.62	
50 89 85 42 GROOVE AND GRIND CONCRETE <small>(50 89 85)</small>		
Note: Includes grooving and grinding concrete roadway surfaces per CALTRAN Standard.		
50 89 85 42-0001 SY CALTRANS 420102 GROOVE EXISTING CONCRETE PAVEMENT.....	1.75	
50 89 85 42-0002 SY CALTRANS 420104 GROOVE EXISTING BRIDGE DECK.....	2.64	
50 89 85 42-0003 SY CALTRANS 420201 GRIND EXISTING CONCRETE PAVEMENT.....	4.59	
For Up To 2,500, Add	3.44	
For >2,500 To 5,000, Add	1.15	
For >10,000 To 25,000, Deduct	-0.46	
For >25,000, Deduct	-0.69	
50 89 85 42-0004 SY CALTRANS 420203 GRIND EXISTING BRIDGE DECK.....	29.02	
For >100 To 1,000, Deduct	-14.51	
For >1,000, Deduct	-21.77	
50 89 86 CALTRANS DIVISION VI - STRUCTURES <small>(50 89 80)</small>		
50 89 86 56 OVERHEAD SIGN STRUCTURES, STANDARDS, AND POLES <small>(50 89 86)</small>		
50 89 86 56-0001 SF CALTRANS 560248 FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED).....	15.61	21.82
50 89 86 60 EXISTING STRUCTURES <small>(50 89 86)</small>		
50 89 86 60-0001 LF CALTRANS 600063 CORE CONCRETE (1").....	116.66	
For Horizontal Cores, Add	23.19	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	46.39	
50 89 86 60-0002 LF CALTRANS 600064 CORE CONCRETE (2").....	143.86	
For Horizontal Cores, Add	28.63	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	57.27	
50 89 86 60-0003 LF CALTRANS 600065 CORE CONCRETE (3").....	157.72	
For Horizontal Cores, Add	31.35	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	62.71	
50 89 86 60-0004 LF CALTRANS 600066 CORE CONCRETE (4").....	210.26	
For Horizontal Cores, Add	41.81	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	83.61	
50 89 86 60-0005 LF CALTRANS 600067 CORE CONCRETE (5").....	242.03	
For Horizontal Cores, Add	48.10	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	96.21	
50 89 86 60-0006 LF CALTRANS 600068 CORE CONCRETE (6").....	273.53	
For Horizontal Cores, Add	54.40	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	108.81	
50 89 86 60-0007 LF CALTRANS 600069 CORE CONCRETE (7").....	357.83	
For Horizontal Cores, Add	71.15	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	142.31	
50 89 86 60-0008 LF CALTRANS 600070 CORE CONCRETE (8").....	441.59	
For Horizontal Cores, Add	87.91	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	175.81	
50 89 86 60-0009 LF CALTRANS 600071 CORE CONCRETE (9").....	483.34	
For Horizontal Cores, Add	9.12	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.24	
50 89 86 60-0010 LF CALTRANS 600072 CORE CONCRETE (10").....	475.19	
For Horizontal Cores, Add	94.49	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	188.98	
50 89 86 60-0011 LF CALTRANS 600074 CORE CONCRETE (12").....	547.33	
For Horizontal Cores, Add	108.81	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	217.62	
50 89 86 60-0012 LF CALTRANS 600081 CORE CONCRETE (1 1/2").....	129.54	
For Horizontal Cores, Add	25.77	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	51.54	
50 89 86 60-0013 LF CALTRANS 600083 CORE CONCRETE (2 1/2").....	150.92	
For Horizontal Cores, Add	29.99	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	59.99	
50 89 87 CALTRANS DIVISION VII - DRAINAGE FACILITIES <small>(50 89 80)</small>		

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**50 89 87 64****PLASTIC PIPE** (50 89 87)

Note: Includes installing plastic pipe, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRAN Standard.

50 89 87 64-0001	LF	CALTRANS 641101 12" PLASTIC PIPE.....	46.16
		Note: Includes 0.37 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37
50 89 87 64-0002	LF	CALTRANS 641104 15" PLASTIC PIPE.....	57.75
		Note: Includes 0.53 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37
50 89 87 64-0003	LF	CALTRANS 641107 18" PLASTIC PIPE.....	72.48
		Note: Includes 0.64 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37
50 89 87 64-0004	LF	CALTRANS 641110 21" PLASTIC PIPE.....	86.43
		Note: Includes 0.80 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37
50 89 87 64-0005	LF	CALTRANS 641113 24" PLASTIC PIPE.....	100.34
		Note: Includes 0.89 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37
50 89 87 64-0006	LF	CALTRANS 641119 30" PLASTIC PIPE.....	143.46
		Note: Includes 1.08 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37
50 89 87 64-0007	LF	CALTRANS 641125 36" PLASTIC PIPE.....	174.76
		Note: Includes 1.30 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37
50 89 87 64-0008	LF	CALTRANS 641128 42" PLASTIC PIPE.....	261.26
		Note: Includes 1.53 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37
50 89 87 64-0009	LF	CALTRANS 641131 48" PLASTIC PIPE.....	317.18
		Note: Includes 1.78 CY of excavated material per LF of pipe.	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37

50 89 87 65**CONCRETE PIPE** (50 89 87)

Note: Includes installing concrete pipe, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRAN Standard.

50 89 87 65-0001	LF	CALTRANS 650010 12" REINFORCED CONCRETE PIPE.....	60.66
		Note: Includes 0.37 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-3.03
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37
50 89 87 65-0002	LF	CALTRANS 650012 15" REINFORCED CONCRETE PIPE.....	75.56
		Note: Includes 0.53 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-3.78
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37
50 89 87 65-0003	LF	CALTRANS 650014 18" REINFORCED CONCRETE PIPE.....	86.41
		Note: Includes 0.64 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-4.32
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37
50 89 87 65-0004	LF	CALTRANS 650016 21" REINFORCED CONCRETE PIPE.....	111.43
		Note: Includes 0.80 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-5.57
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37
50 89 87 65-0005	LF	CALTRANS 650018 24" REINFORCED CONCRETE PIPE.....	128.64
		Note: Includes 0.89 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-6.43
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37
50 89 87 65-0006	LF	CALTRANS 650019 27" REINFORCED CONCRETE PIPE.....	159.03
		Note: Includes 0.98 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-7.95
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37
50 89 87 65-0007	LF	CALTRANS 650022 30" REINFORCED CONCRETE PIPE.....	170.09
		Note: Includes 1.08 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-8.50
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37
50 89 87 65-0008	LF	CALTRANS 650024 33" REINFORCED CONCRETE PIPE.....	190.01
		Note: Includes 1.19 CY of excavated material per LF of pipe.	
		For >1,000, Deduct	-9.50
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0009	LF CALTRANS 650026 36" REINFORCED CONCRETE PIPE.....		209.77	
	Note: Includes 1.30 CY of excavated material per LF of pipe.			
	For >1,000, Deduct		-10.49	
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.77	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 65-0010	LF CALTRANS 650030 42" REINFORCED CONCRETE PIPE.....		271.00	
	Note: Includes 1.53 CY of excavated material per LF of pipe.			
	For >1,000, Deduct		-13.55	
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.77	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 65-0011	LF CALTRANS 650034 48" REINFORCED CONCRETE PIPE.....		325.43	
	Note: Includes 1.78 CY of excavated material per LF of pipe.			
	For >1,000, Deduct		-16.27	
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.77	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 65-0012	LF CALTRANS 650038 54" REINFORCED CONCRETE PIPE.....		400.21	
	Note: Includes 2.05 CY of excavated material per LF of pipe.			
	For >1,000, Deduct		-20.01	
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.77	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 65-0013	LF CALTRANS 650042 60" REINFORCED CONCRETE PIPE.....		480.24	
	Note: Includes 2.33 CY of excavated material per LF of pipe.			
	For >1,000, Deduct		-24.01	
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.77	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 65-0014	LF CALTRANS 650046 66" REINFORCED CONCRETE PIPE.....		714.24	
	Note: Includes 2.64 CY of excavated material per LF of pipe.			
	For >1,000, Deduct		-35.71	
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.77	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 65-0015	LF CALTRANS 650050 72" REINFORCED CONCRETE PIPE.....		829.31	
	Note: Includes 2.96 CY of excavated material per LF of pipe.			
	For >1,000, Deduct		-41.47	
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.77	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 65-0016	LF CALTRANS 650054 78" REINFORCED CONCRETE PIPE.....		990.08	
	Note: Includes 3.31 CY of excavated material per LF of pipe.			
	For >1,000, Deduct		-49.50	
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.77	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 65-0017	LF CALTRANS 650058 84" REINFORCED CONCRETE PIPE.....		1,260.29	
	Note: Includes 3.67 CY of excavated material per LF of pipe.			
	For >1,000, Deduct		-63.01	
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.77	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 65-0018	LF CALTRANS 650065 96" REINFORCED CONCRETE PIPE.....		1,538.17	
	Note: Includes 4.44 CY of excavated material per LF of pipe.			
	For >1,000, Deduct		-76.91	
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.77	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 65-0019	LF CALTRANS 650211 18" REINFORCED CONCRETE PIPE (CLASS II).....		84.54	
	Note: Includes 0.64 CY of excavated material per LF of pipe.			
	For >1,000, Deduct		-4.23	
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.77	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 65-0020	LF CALTRANS 650220 30" REINFORCED CONCRETE PIPE (CLASS II).....		166.35	
	Note: Includes 1.08 CY of excavated material per LF of pipe.			
	For >1,000, Deduct		-8.32	
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.77	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 65-0021	LF CALTRANS 650222 33" REINFORCED CONCRETE PIPE (CLASS II).....		185.60	
	Note: Includes 1.19 CY of excavated material per LF of pipe.			
	For >1,000, Deduct		-9.28	
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.77	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 65-0022	LF CALTRANS 650224 36" REINFORCED CONCRETE PIPE (CLASS II).....		204.69	
	Note: Includes 1.30 CY of excavated material per LF of pipe.			
	For >1,000, Deduct		-10.23	
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.77	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 65-0023	LF CALTRANS 650307 12" REINFORCED CONCRETE PIPE (CLASS III).....		60.66	
	Note: Includes 0.37 CY of excavated material per LF of pipe.			
	For >1,000, Deduct		-3.03	
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.77	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 65-0024	LF CALTRANS 650309 15" REINFORCED CONCRETE PIPE (CLASS III).....		75.56	
	Note: Includes 0.53 CY of excavated material per LF of pipe.			
	For >1,000, Deduct		-3.78	
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.77	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	
50 89 87 65-0025	LF CALTRANS 650311 18" REINFORCED CONCRETE PIPE (CLASS III).....		86.41	
	Note: Includes 0.64 CY of excavated material per LF of pipe.			
	For >1,000, Deduct		-4.32	
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.77	
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.37	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0026 LF CALTRANS 650316 24" REINFORCED CONCRETE PIPE (CLASS III).....	128.64	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.43	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0027 LF CALTRANS 650318 27" REINFORCED CONCRETE PIPE (CLASS III).....	159.03	
Note: Includes 0.98 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.95	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0028 LF CALTRANS 650320 30" REINFORCED CONCRETE PIPE (CLASS III).....	170.09	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.50	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0029 LF CALTRANS 650324 36" REINFORCED CONCRETE PIPE (CLASS III).....	209.77	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-10.49	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0030 LF CALTRANS 650328 42" REINFORCED CONCRETE PIPE (CLASS III).....	271.00	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-13.55	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0031 LF CALTRANS 650336 54" REINFORCED CONCRETE PIPE (CLASS III).....	400.21	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-20.01	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0032 LF CALTRANS 650407 12" REINFORCED CONCRETE PIPE (CLASS IV).....	63.29	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.16	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0033 LF CALTRANS 650409 15" REINFORCED CONCRETE PIPE (CLASS IV).....	78.93	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.95	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0034 LF CALTRANS 650411 18" REINFORCED CONCRETE PIPE (CLASS IV).....	89.95	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.50	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0035 LF CALTRANS 650416 24" REINFORCED CONCRETE PIPE (CLASS IV).....	133.85	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.69	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0036 LF CALTRANS 650420 30" REINFORCED CONCRETE PIPE (CLASS IV).....	177.21	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.86	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0037 LF CALTRANS 650424 36" REINFORCED CONCRETE PIPE (CLASS IV).....	219.42	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-10.97	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0038 LF CALTRANS 650432 48" REINFORCED CONCRETE PIPE (CLASS IV).....	342.75	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-17.14	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0039 LF CALTRANS 650436 54" REINFORCED CONCRETE PIPE (CLASS IV).....	422.69	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-21.13	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0040 LF CALTRANS 650440 60" REINFORCED CONCRETE PIPE (CLASS IV).....	507.89	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-25.39	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0041 LF CALTRANS 650507 12" REINFORCED CONCRETE PIPE (CLASS V).....	66.20	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.31	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0042 LF CALTRANS 650511 18" REINFORCED CONCRETE PIPE (CLASS V).....	93.87	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.69	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0043 LF CALTRANS 650516 24" REINFORCED CONCRETE PIPE (CLASS V)	139.61	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.98	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0044 LF CALTRANS 650520 30" REINFORCED CONCRETE PIPE (CLASS V)	170.09	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.50	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0045 LF CALTRANS 650524 36" REINFORCED CONCRETE PIPE (CLASS V)	230.08	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-11.50	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0046 LF CALTRANS 650528 42" REINFORCED CONCRETE PIPE (CLASS V)	271.00	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-13.55	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0047 LF CALTRANS 650536 54" REINFORCED CONCRETE PIPE (CLASS V)	447.54	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-22.38	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0048 LF CALTRANS 650540 60" REINFORCED CONCRETE PIPE (CLASS V)	480.24	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-24.01	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0049 LF CALTRANS 650548 72" REINFORCED CONCRETE PIPE (CLASS V)	829.31	
Note: Includes 2.96 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-41.47	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0050 LF CALTRANS 652207 12" REINFORCED CONCRETE PIPE (CLASS II, RUBBER GASKET JOINT)	59.93	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.00	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0051 LF CALTRANS 652215 24" REINFORCED CONCRETE PIPE (CLASS II, RUBBER GASKET JOINT)	129.74	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.49	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0052 LF CALTRANS 652307 12" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	62.74	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.14	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0053 LF CALTRANS 652311 18" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	89.21	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.46	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0054 LF CALTRANS 652314 21" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	115.07	
Note: Includes 0.80 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-5.75	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0055 LF CALTRANS 652316 24" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	132.76	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.64	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0056 LF CALTRANS 652320 30" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	175.71	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.79	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0057 LF CALTRANS 652324 36" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	217.38	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-10.87	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0058 LF CALTRANS 652328 42" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	282.02	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-14.10	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0059 LF CALTRANS 652332 48" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT)	339.10	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-16.96	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	

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50 89 87 65-0060 LF CALTRANS 652348 72" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT).....	874.27	
Note: Includes 2.96 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-43.71	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0061 LF CALTRANS 652416 24" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	138.35	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.92	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0062 LF CALTRANS 652420 30" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	183.35	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.17	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0063 LF CALTRANS 652424 36" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	227.74	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-11.39	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0064 LF CALTRANS 652428 42" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	297.00	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-14.85	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0065 LF CALTRANS 652444 66" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	803.61	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-40.18	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0066 LF CALTRANS 654311 18" REINFORCED CONCRETE PRESSURE PIPE (CLASS III).....	147.55	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.38	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0067 LF CALTRANS 654316 24" REINFORCED CONCRETE PRESSURE PIPE (CLASS III).....	182.01	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.10	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0068 LF CALTRANS 654324 36" REINFORCED CONCRETE PRESSURE PIPE (CLASS III).....	241.82	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-12.09	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0069 LF CALTRANS 657213 24" X 38" OVAL SHAPED REINFORCED CONCRETE PIPE (CLASS II).....	252.98	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-12.65	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0070 LF CALTRANS 657329 34" X 53" OVAL SHAPED REINFORCED CONCRETE PIPE (CLASS III).....	436.70	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-21.84	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0071 LF CALTRANS 659108 18" NON-REINFORCED CONCRETE PIPE.....	78.95	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.95	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0072 LF CALTRANS 659109 24" NON-REINFORCED CONCRETE PIPE.....	117.67	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-5.88	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0073 LF CALTRANS 659110 30" NON-REINFORCED CONCRETE PIPE.....	155.11	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.76	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 65-0074 LF CALTRANS 659111 36" NON-REINFORCED CONCRETE PIPE.....	189.46	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.47	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66 CORRUGATED METAL PIPE <small>(50 89 87)</small>		
Note: Includes installing corrugated metal pipe and pipe arches, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRANS Standard.		
50 89 87 66-0001 LF CALTRANS 665002 6" CORRUGATED STEEL PIPE (.064" THICK).....	24.12	
Note: Includes 0.29 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0044 LF CALTRANS 665052 54" CORRUGATED STEEL PIPE (.138" THICK) .....304.06 Note: Includes 2.05 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> 0.77 <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i> 1.37		
50 89 87 66-0045 LF CALTRANS 665053 54" CORRUGATED STEEL PIPE (.168" THICK) .....334.13 Note: Includes 2.05 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> 0.77 <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i> 1.37		
50 89 87 66-0046 LF CALTRANS 665055 60" CORRUGATED STEEL PIPE (.109" THICK) .....322.12 Note: Includes 2.33 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> 0.77 <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i> 1.37		
50 89 87 66-0047 LF CALTRANS 665056 60" CORRUGATED STEEL PIPE (.138" THICK) .....348.99 Note: Includes 2.33 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> 0.77 <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i> 1.37		
50 89 87 66-0048 LF CALTRANS 665057 60" CORRUGATED STEEL PIPE (.168" THICK) .....382.01 Note: Includes 2.33 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> 0.77 <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i> 1.37		
50 89 87 66-0049 LF CALTRANS 665058 66" CORRUGATED STEEL PIPE (.109" THICK) .....384.75 Note: Includes 2.64 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> 0.77 <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i> 1.37		
50 89 87 66-0050 LF CALTRANS 665059 66" CORRUGATED STEEL PIPE (.138" THICK) .....414.27 Note: Includes 2.64 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> 0.77 <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i> 1.37		
50 89 87 66-0051 LF CALTRANS 665061 72" CORRUGATED STEEL PIPE (.109" THICK) .....512.93 Note: Includes 2.96 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> 0.77 <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i> 1.37		
50 89 87 66-0052 LF CALTRANS 665062 72" CORRUGATED STEEL PIPE (.138" THICK) .....554.77 Note: Includes 2.96 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> 0.77 <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i> 1.37		
50 89 87 66-0053 LF CALTRANS 665064 78" CORRUGATED STEEL PIPE (.138" THICK) .....600.70 Note: Includes 3.31 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> 0.77 <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i> 1.37		
50 89 87 66-0054 LF CALTRANS 665066 84" CORRUGATED STEEL PIPE (.138" THICK) .....643.82 Note: Includes 3.67 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> 0.77 <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i> 1.37		
50 89 87 66-0055 LF CALTRANS 665067 84" CORRUGATED STEEL PIPE (.168" THICK) .....706.70 Note: Includes 3.67 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> 0.77 <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i> 1.37		
50 89 87 66-0056 LF CALTRANS 665068 90" CORRUGATED STEEL PIPE (.138" THICK) .....691.84 Note: Includes 4.05 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> 0.77 <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i> 1.37		
50 89 87 66-0057 LF CALTRANS 665070 96" CORRUGATED STEEL PIPE (.168" THICK) .....736.98 Note: Includes 4.44 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> 0.77 <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i> 1.37		
50 89 87 66-0058 LF CALTRANS 665075 18" CORRUGATED STEEL PIPE (.138" THICK) .....85.88 Note: Includes 0.64 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> 0.77 <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i> 1.37		
50 89 87 66-0059 LF CALTRANS 665094 18" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK) .....92.85 Note: Includes 0.64 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> 0.77 <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i> 1.37		
50 89 87 66-0060 LF CALTRANS 665103 6" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK) .....27.70 <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> 0.77 <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i> 1.37		
50 89 87 66-0061 LF CALTRANS 665105 8" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK) .....35.15 <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> 0.77 <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i> 1.37		
50 89 87 66-0062 LF CALTRANS 665106 8" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK) .....37.38 <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> 0.77 <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i> 1.37		
50 89 87 66-0063 LF CALTRANS 665108 10" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK) .....43.19 <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> 0.77 <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i> 1.37		
50 89 87 66-0064 LF CALTRANS 665109 10" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK) .....45.99 <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> 0.77 <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i> 1.37		
50 89 87 66-0065 LF CALTRANS 665111 12" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK) .....48.28 Note: Includes 0.37 CY of excavated material per LF of pipe. <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> 0.77 <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i> 1.37		

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0108 LF CALTRANS 665161 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK) .....554.67 Note: Includes 2.96 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.77 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0109 LF CALTRANS 665162 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK) .....604.88 Note: Includes 2.96 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.77 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0110 LF CALTRANS 665163 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK) .....662.51 Note: Includes 2.96 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.77 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0111 LF CALTRANS 665164 78" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK) .....653.07 Note: Includes 3.31 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.77 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0112 LF CALTRANS 665165 78" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK) .....715.79 Note: Includes 3.31 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.77 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0113 LF CALTRANS 665166 84" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK) .....700.99 Note: Includes 3.67 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.77 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0114 LF CALTRANS 665167 84" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK) .....776.44 Note: Includes 3.67 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.77 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0115 LF CALTRANS 665168 90" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK) .....752.53 Note: Includes 4.05 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.77 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0116 LF CALTRANS 665180 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK) .....139.98 Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.77 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0117 LF CALTRANS 665223 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.079" THICK) .....107.52 Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.77 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0118 LF CALTRANS 665224 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.109" THICK) .....117.61 Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.77 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0119 LF CALTRANS 665237 36" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.109" THICK) .....197.00 Note: Includes 1.30 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.77 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0120 LF CALTRANS 665323 24" BITUMINOUS LINED CORRUGATED STEEL PIPE (.079" THICK) .....98.67 Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.77 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0121 LF CALTRANS 665334 30" BITUMINOUS LINED CORRUGATED STEEL PIPE (.168" THICK) .....181.70 Note: Includes 1.08 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.77 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0122 LF CALTRANS 665336 36" BITUMINOUS LINED CORRUGATED STEEL PIPE (.079" THICK) .....168.71 Note: Includes 1.30 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.77 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0123 LF CALTRANS 665711 12" SLOTTED CORRUGATED STEEL PIPE (.064" THICK) .....54.30 Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.77 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0124 LF CALTRANS 665712 12" SLOTTED CORRUGATED STEEL PIPE (.079" THICK) .....58.16 Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.77 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0125 LF CALTRANS 665713 12" SLOTTED CORRUGATED STEEL PIPE (.109" THICK) .....70.19 Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.77 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0126 LF CALTRANS 665716 18" SLOTTED CORRUGATED STEEL PIPE (.064" THICK) .....96.90 Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.77 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0127 LF CALTRANS 665717 18" SLOTTED CORRUGATED STEEL PIPE (.079" THICK) .....105.76 Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.77 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		
50 89 87 66-0128 LF CALTRANS 665718 18" SLOTTED CORRUGATED STEEL PIPE (.168" THICK) .....181.55 Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.77 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.37		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0129 LF CALTRANS 665722 24" SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	104.81	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0130 LF CALTRANS 665723 24" SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	112.65	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0131 LF CALTRANS 665811 12" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	59.79	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0132 LF CALTRANS 665812 12" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	64.58	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0133 LF CALTRANS 665816 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	109.50	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0134 LF CALTRANS 665817 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	120.49	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0135 LF CALTRANS 665818 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.109" THICK).....	154.82	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0136 LF CALTRANS 665820 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.138" THICK).....	181.72	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0137 LF CALTRANS 665822 24" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	125.70	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0138 LF CALTRANS 665828 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.168" THICK).....	214.63	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0139 LF CALTRANS 667001 17" X 13" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	62.31	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0140 LF CALTRANS 667005 21" X 15" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	75.96	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0141 LF CALTRANS 667006 21" X 15" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	84.81	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0142 LF CALTRANS 667009 24" X 18" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	89.73	
Note: Includes 0.80 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0143 LF CALTRANS 667010 24" X 18" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	100.17	
Note: Includes 0.80 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0144 LF CALTRANS 667013 28" X 20" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	93.89	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0145 LF CALTRANS 667014 28" X 20" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	112.05	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0146 LF CALTRANS 667015 28" X 20" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	122.39	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0147 LF CALTRANS 667018 35" X 24" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	131.48	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0148 LF CALTRANS 667019 35" X 24" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	146.06	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0149 LF CALTRANS 667020 35" X 24" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	159.09	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0150 LF CALTRANS 667023 42" X 29" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	161.15	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0151 LF CALTRANS 667024 42" X 29" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	178.39	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0152 LF CALTRANS 667025 42" X 29" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	194.61	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0153 LF CALTRANS 667028 49" X 33" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	188.56	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0154 LF CALTRANS 667029 49" X 33" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	208.45	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0155 LF CALTRANS 667030 49" X 33" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	227.37	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0156 LF CALTRANS 667033 57" X 38" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	225.74	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0157 LF CALTRANS 667034 57" X 38" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	243.41	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0158 LF CALTRANS 667035 57" X 38" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	264.85	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0159 LF CALTRANS 667037 64" X 43" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	262.64	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0160 LF CALTRANS 667038 64" X 43" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	282.15	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0161 LF CALTRANS 667041 71" X 47" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	327.06	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0162 LF CALTRANS 667042 71" X 47" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	351.48	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0163 LF CALTRANS 667048 83" X 57" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	530.31	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0164 LF CALTRANS 667114 28" X 20" BITUMINOUS COATED CORRUGATED STEEL PIPE ARCH (.109" THICK)	120.18	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0165 LF CALTRANS 667326 42" X 29" BITUMINOUS COATED CORRUGATED STEEL PIPE ARCH (.168" THICK)	233.09	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0166 LF CALTRANS 669012 12" CORRUGATED STEEL PIPE CONDUIT (.079" THICK)	47.89	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0167 LF CALTRANS 669016 18" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	65.24	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0168 LF CALTRANS 669017 18" CORRUGATED STEEL PIPE CONDUIT (.079" THICK)	69.55	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0169 LF CALTRANS 669018 18" CORRUGATED STEEL PIPE CONDUIT (.109" THICK)	78.47	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0170 LF CALTRANS 669055 8" BITUMINOUS COATED CORRUGATED STEEL PIPE CONDUIT (.064" THICK).....	35.15	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	
50 89 87 66-0171 LF CALTRANS 669072 24" BITUMINOUS COATED CORRUGATED STEEL PIPE CONDUIT (.079" THICK).....	98.67	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.77	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.37	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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50 89 87 67 STRUCTURAL PLATE CULVERTS ^(50 89 87)

Note: Includes structural metal plate pipe, arches and pipe arches, excavation, backfill, compaction, connection of new pipe to new or existing facilities, testing, and other connecting devices per CALTRAN Standard.

50 89 87 67-0001	LF	CALTRANS 670602	90"	STRUCTURAL STEEL PLATE PIPE (.138" THICK)	873.96	
				Note: Includes 4.05 CY of excavated material per LF of pipe.		
				<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.77	
				<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 67-0002	LF	CALTRANS 670901	108"	STRUCTURAL STEEL PLATE PIPE (.109" THICK)	954.82	
				Note: Includes 5.30 CY of excavated material per LF of pipe.		
				<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.77	
				<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 67-0003	LF	CALTRANS 671101	120"	STRUCTURAL STEEL PLATE PIPE (.109" THICK)	1,059.72	
				Note: Includes 6.22 CY of excavated material per LF of pipe.		
				<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.77	
				<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 67-0004	LF	CALTRANS 674351	11'-10" X 7'-7"	STRUCTURAL STEEL PLATE PIPE ARCH (.109" THICK)	1,218.06	
				Note: Includes 0.32 CY of excavated material per LF of pipe.		
				<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.77	
				<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	

50 89 87 68 SUBSURFACE DRAINS ^(50 89 87)

Note: Includes subsurface drains, excavation, backfill and compaction per CALTRAN Standard.

50 89 87 68-0001	LF	CALTRANS 680402	6"	PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK)	29.58	
				<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.77	
				<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 68-0002	LF	CALTRANS 680405	8"	PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK)	39.90	
				<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.77	
				<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 68-0003	LF	CALTRANS 680406	8"	PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK)	43.71	
				<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.77	
				<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 68-0004	LF	CALTRANS 680411	12"	PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK)	55.93	
				Note: Includes 0.37 CY of excavated material per LF of pipe.		
				<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.77	
				<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 68-0005	LF	CALTRANS 680412	12"	PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK)	60.92	
				Note: Includes 0.37 CY of excavated material per LF of pipe.		
				<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.77	
				<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	
50 89 87 68-0006	LF	CALTRANS 680436	8"	BITUMINOUS COATED PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK)	47.97	
				<i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i>	0.77	
				<i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1.37	

50 89 87 69 OVERSIDE DRAINS ^(50 89 87)

Note: Includes constructing outside drains, excavation, backfill, compaction and anchors per CALTRAN Standard.

50 89 87 69-0001	LF	CALTRANS 690103	6"	CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	25.18	
50 89 87 69-0002	LF	CALTRANS 690105	8"	CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	31.63	
50 89 87 69-0003	LF	CALTRANS 690106	8"	CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	33.85	
50 89 87 69-0004	LF	CALTRANS 690107	10"	CORRUGATED STEEL PIPE DOWNDRAIN	40.39	
50 89 87 69-0005	LF	CALTRANS 690111	12"	CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	43.27	
50 89 87 69-0006	LF	CALTRANS 690112	12"	CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	46.17	
50 89 87 69-0007	LF	CALTRANS 690114	15"	CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	57.37	
50 89 87 69-0008	LF	CALTRANS 690115	15"	CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	64.73	
50 89 87 69-0009	LF	CALTRANS 690116	18"	CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	62.55	
50 89 87 69-0010	LF	CALTRANS 690117	18"	CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	66.86	
50 89 87 69-0011	LF	CALTRANS 690118	18"	CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	75.78	
50 89 87 69-0012	LF	CALTRANS 690122	24"	CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	81.04	
50 89 87 69-0013	LF	CALTRANS 690123	24"	CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	86.83	
50 89 87 69-0014	LF	CALTRANS 690124	24"	CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	98.64	
50 89 87 69-0015	LF	CALTRANS 690125	24"	CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	108.57	
50 89 87 69-0016	LF	CALTRANS 690131	30"	CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	115.28	
50 89 87 69-0017	LF	CALTRANS 690132	30"	CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	129.90	
50 89 87 69-0018	LF	CALTRANS 690134	30"	CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	142.52	
50 89 87 69-0019	LF	CALTRANS 690136	36"	CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	151.47	
50 89 87 69-0020	LF	CALTRANS 690137	36"	CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	168.80	
50 89 87 69-0021	LF	CALTRANS 690138	36"	CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	185.03	
50 89 87 69-0022	LF	CALTRANS 690142	42"	CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	194.54	
50 89 87 69-0023	LF	CALTRANS 690147	48"	CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	220.55	
50 89 87 69-0024	LF	CALTRANS 690148	48"	CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	242.10	
50 89 87 69-0025	LF	CALTRANS 690150	54"	CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	266.03	
50 89 87 69-0026	LF	CALTRANS 690205	8"	BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	34.11	
50 89 87 69-0027	LF	CALTRANS 690206	8"	BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	36.34	
50 89 87 69-0028	LF	CALTRANS 690211	12"	BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	46.56	
50 89 87 69-0029	LF	CALTRANS 690212	12"	BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	49.46	
50 89 87 69-0030	LF	CALTRANS 690216	18"	BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	67.49	
50 89 87 69-0031	LF	CALTRANS 690217	18"	BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	71.86	
50 89 87 69-0032	LF	CALTRANS 690218	18"	BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	81.50	
50 89 87 69-0033	LF	CALTRANS 690222	24"	BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	87.69	
50 89 87 69-0034	LF	CALTRANS 690223	24"	BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	93.55	
50 89 87 69-0035	LF	CALTRANS 690224	24"	BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	106.31	
50 89 87 69-0036	LF	CALTRANS 690225	24"	BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	117.91	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

50 89 87 69-0037	LF	CALTRANS 690231 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	123.92	
50 89 87 69-0038	LF	CALTRANS 690232 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	139.65	
50 89 87 69-0039	LF	CALTRANS 690235 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	153.78	
50 89 87 69-0040	LF	CALTRANS 690237 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	180.86	
50 89 87 69-0041	LF	CALTRANS 690238 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	200.37	
50 89 87 69-0042	LF	CALTRANS 690242 42" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	208.67	
50 89 87 69-0043	LF	CALTRANS 690247 48" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	236.51	
50 89 87 69-0044	LF	CALTRANS 690253 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	154.40	
50 89 87 69-0045	LF	CALTRANS 690260 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	61.94	
50 89 87 69-0046	LF	CALTRANS 690263 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	90.25	
50 89 87 69-0047	LF	CALTRANS 690318 18" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	86.11	
50 89 87 69-0048	LF	CALTRANS 690324 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	112.49	
50 89 87 69-0049	LF	CALTRANS 690341 42" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	187.26	
50 89 87 69-0050	LF	CALTRANS 690351 54" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK)	300.58	
50 89 87 69-0051	LF	CALTRANS 690960 12" PLASTIC PIPE DOWNDRAIN	44.43	
50 89 87 69-0052	LF	CALTRANS 690964 18" PLASTIC PIPE DOWNDRAIN	69.79	
50 89 87 69-0053	EA	CALTRANS 692303 8" ANCHOR ASSEMBLY	572.23	
50 89 87 69-0054	EA	CALTRANS 692305 12" ANCHOR ASSEMBLY	716.02	
50 89 87 69-0055	EA	CALTRANS 692306 15" ANCHOR ASSEMBLY	803.40	
50 89 87 69-0056	EA	CALTRANS 692307 18" ANCHOR ASSEMBLY	896.96	
50 89 87 69-0057	EA	CALTRANS 692309 24" ANCHOR ASSEMBLY	1,101.13	
50 89 87 69-0058	EA	CALTRANS 692311 30" ANCHOR ASSEMBLY	1,319.58	
50 89 87 69-0059	EA	CALTRANS 692313 36" ANCHOR ASSEMBLY	1,538.17	
50 89 87 69-0060	EA	CALTRANS 692319 54" ANCHOR ASSEMBLY	2,196.08	

50 89 87 70 MISCELLANEOUS DRAINAGE FACILITIES (50 89 87)

50 89 87 70-0001	LF	CALTRANS 700637 36" CORRUGATED STEEL PIPE INLET (.064" THICK)	157.89	
50 89 87 70-0002	LF	CALTRANS 700638 36" CORRUGATED STEEL PIPE INLET (.079" THICK)	157.89	
50 89 87 70-0003	LF	CALTRANS 700639 36" CORRUGATED STEEL PIPE INLET (.109" THICK)	175.22	
50 89 87 70-0004	LF	CALTRANS 700640 36" CORRUGATED STEEL PIPE INLET (.138" THICK)	191.45	
50 89 87 70-0005	LF	CALTRANS 700641 36" CORRUGATED STEEL PIPE INLET (.168" THICK)	228.05	
50 89 87 70-0006	LF	CALTRANS 700655 48" CORRUGATED STEEL PIPE INLET (.109" THICK)	233.34	
50 89 87 70-0007	LF	CALTRANS 700656 48" CORRUGATED STEEL PIPE INLET (.138" THICK)	254.89	
50 89 87 70-0008	LF	CALTRANS 700837 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.064" THICK)	160.19	
50 89 87 70-0009	LF	CALTRANS 700838 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.079" THICK)	167.71	
50 89 87 70-0010	LF	CALTRANS 700839 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.109" THICK)	187.28	
50 89 87 70-0011	LF	CALTRANS 700840 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.138" THICK)	206.79	
50 89 87 70-0012	LF	CALTRANS 700854 48" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.079" THICK)	249.30	
50 89 87 70-0013	LF	CALTRANS 703516 8" WELDED STEEL PIPE (.188" THICK)	116.97	26.37
		<i>For >1,000, Deduct</i>	-5.85	
50 89 87 70-0014	LF	CALTRANS 703525 10" WELDED STEEL PIPE (.250" THICK)	166.69	28.77
		<i>For >1,000, Deduct</i>	-8.33	
50 89 87 70-0015	LF	CALTRANS 703533 12" WELDED STEEL PIPE (.250" THICK)	190.08	30.15
		<i>For >1,000, Deduct</i>	-9.50	
50 89 87 70-0016	LF	CALTRANS 703555 18" WELDED STEEL PIPE (.250" THICK)	270.81	39.56
		<i>For >1,000, Deduct</i>	-13.54	
50 89 87 70-0017	LF	CALTRANS 703557 18" WELDED STEEL PIPE (.375" THICK)	360.84	69.21
		<i>For >1,000, Deduct</i>	-18.04	
50 89 87 70-0018	LF	CALTRANS 703564 20" WELDED STEEL PIPE (.375" THICK)	396.19	69.21
		<i>For >1,000, Deduct</i>	-19.81	
50 89 87 70-0019	LF	CALTRANS 703576 24" WELDED STEEL PIPE (.375" THICK)	506.98	79.86
		<i>For >1,000, Deduct</i>	-25.35	
50 89 87 70-0020	LF	CALTRANS 703600 30" WELDED STEEL PIPE (.375" THICK)	588.60	93.16
		<i>For >1,000, Deduct</i>	-29.43	
50 89 87 70-0021	LF	CALTRANS 703620 36" WELDED STEEL PIPE (.375" THICK)	788.47	111.80
		<i>For >1,000, Deduct</i>	-39.42	
50 89 87 70-0022	LF	CALTRANS 703646 42" WELDED STEEL PIPE (.375" THICK)	1,367.87	125.11
		<i>For >1,000, Deduct</i>	-68.39	
50 89 87 70-0023	LF	CALTRANS 703656 48" WELDED STEEL PIPE (.375" THICK)	1,571.27	141.07
		<i>For >1,000, Deduct</i>	-78.56	
50 89 87 70-0024	EA	CALTRANS 705007 12" STEEL FLARED END SECTION	373.26	63.11
50 89 87 70-0025	EA	CALTRANS 705009 15" STEEL FLARED END SECTION	431.05	67.60
50 89 87 70-0026	EA	CALTRANS 705011 18" STEEL FLARED END SECTION	514.49	72.11
50 89 87 70-0027	EA	CALTRANS 705013 21" STEEL FLARED END SECTION	636.48	78.88
50 89 87 70-0028	EA	CALTRANS 705015 24" STEEL FLARED END SECTION	826.93	85.64
50 89 87 70-0029	EA	CALTRANS 705016 27" STEEL FLARED END SECTION	1,027.53	85.64
50 89 87 70-0030	EA	CALTRANS 705019 30" STEEL FLARED END SECTION	1,232.65	96.91
50 89 87 70-0031	EA	CALTRANS 705023 36" STEEL FLARED END SECTION	2,083.15	116.60
50 89 87 70-0032	EA	CALTRANS 705027 42" STEEL FLARED END SECTION	2,661.08	136.03
50 89 87 70-0033	EA	CALTRANS 705031 48" STEEL FLARED END SECTION	3,793.41	155.46
50 89 87 70-0034	EA	CALTRANS 705035 54" STEEL FLARED END SECTION	4,215.84	194.33
50 89 87 70-0035	EA	CALTRANS 705037 60" STEEL FLARED END SECTION	5,661.71	233.19
50 89 87 70-0036	EA	CALTRANS 705039 66" STEEL FLARED END SECTION	6,413.49	349.79
50 89 87 70-0037	EA	CALTRANS 705041 72" STEEL FLARED END SECTION	7,496.75	466.39
50 89 87 70-0038	EA	CALTRANS 705057 12" BITUMINOUS COATED STEEL FLARED END SECTION	431.33	63.11
50 89 87 70-0039	EA	CALTRANS 705059 15" BITUMINOUS COATED STEEL FLARED END SECTION	500.36	67.60
50 89 87 70-0040	EA	CALTRANS 705061 18" BITUMINOUS COATED STEEL FLARED END SECTION	596.29	72.11



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 70-0041 EA CALTRANS 705063 21" BITUMINOUS COATED STEEL FLARED END SECTION	747.92	78.88
50 89 87 70-0042 EA CALTRANS 705065 24" BITUMINOUS COATED STEEL FLARED END SECTION	980.60	85.64
50 89 87 70-0043 EA CALTRANS 705067 27" BITUMINOUS COATED STEEL FLARED END SECTION	1,226.96	85.64
50 89 87 70-0044 EA CALTRANS 705069 30" BITUMINOUS COATED STEEL FLARED END SECTION	1,477.83	96.91
50 89 87 70-0045 EA CALTRANS 705073 36" BITUMINOUS COATED STEEL FLARED END SECTION	2,521.00	116.60
50 89 87 70-0046 EA CALTRANS 705077 42" BITUMINOUS COATED STEEL FLARED END SECTION	3,225.44	136.03
50 89 87 70-0047 EA CALTRANS 705081 48" BITUMINOUS COATED STEEL FLARED END SECTION	4,616.92	155.46
50 89 87 70-0048 EA CALTRANS 705084 54" BITUMINOUS COATED STEEL FLARED END SECTION	5,117.73	194.33
50 89 87 70-0049 EA CALTRANS 705201 12" CONCRETE FLARED END SECTION	756.33	113.19
50 89 87 70-0050 EA CALTRANS 705202 15" CONCRETE FLARED END SECTION	912.16	141.08
50 89 87 70-0051 EA CALTRANS 705204 18" CONCRETE FLARED END SECTION	1,107.83	178.58
50 89 87 70-0052 EA CALTRANS 705205 21" CONCRETE FLARED END SECTION	1,272.16	213.57
50 89 87 70-0053 EA CALTRANS 705206 24" CONCRETE FLARED END SECTION	1,548.50	247.19
50 89 87 70-0054 EA CALTRANS 705207 27" CONCRETE FLARED END SECTION	1,877.03	394.77
50 89 87 70-0055 EA CALTRANS 705208 30" CONCRETE FLARED END SECTION	1,969.39	543.54
50 89 87 70-0056 EA CALTRANS 705210 36" CONCRETE FLARED END SECTION	2,657.17	685.98
50 89 87 70-0057 EA CALTRANS 705212 42" CONCRETE FLARED END SECTION	3,199.98	860.67
50 89 87 70-0058 EA CALTRANS 705214 48" CONCRETE FLARED END SECTION	3,477.94	970.66
50 89 87 70-0059 EA CALTRANS 705216 54" CONCRETE FLARED END SECTION	3,902.33	1,087.17
50 89 87 70-0060 EA CALTRANS 705217 60" CONCRETE FLARED END SECTION	4,321.87	1,087.17
50 89 87 70-0061 EA CALTRANS 705403 21" X 15" STEEL FLARED END PIPE ARCH SECTION	542.13	72.11
50 89 87 70-0062 EA CALTRANS 705405 24" X 18" STEEL FLARED END PIPE ARCH SECTION	594.34	78.88
50 89 87 70-0063 EA CALTRANS 705407 28" X 20" STEEL FLARED END PIPE ARCH SECTION	641.19	85.64
50 89 87 70-0064 EA CALTRANS 705409 35" X 24" STEEL FLARED END PIPE ARCH SECTION	954.04	96.91
50 89 87 70-0065 EA CALTRANS 705411 42" X 29" STEEL FLARED END PIPE ARCH SECTION	1,800.67	116.60
50 89 87 70-0066 EA CALTRANS 705413 49" X 33" STEEL FLARED END PIPE ARCH SECTION	2,408.91	136.03
50 89 87 70-0067 EA CALTRANS 705415 57" X 38" STEEL FLARED END PIPE ARCH SECTION	3,695.21	155.46
50 89 87 70-0068 EA CALTRANS 705417 64" X 43" STEEL FLARED END PIPE ARCH SECTION	4,242.50	194.33
50 89 87 70-0069 EA CALTRANS 705419 71" X 47" STEEL FLARED END PIPE ARCH SECTION	5,120.27	233.19

50 89 87 71 EXISTING DRAINAGE FACILITIES (50 89 87)

Note: For work on culverts, inlets, headwalls, endwalls, aprons, drains, pipes, gutters, gutter depressions, junction structures, spillways, and check dams. Includes cleaning and preparing, inspecting and evaluating, repairing, rehabilitating, and reinspecting culverts, drain pipes, conduit, risers, downdrains, median drainage inlets, and underdrains per CALTRAN Standard.

50 89 87 71-0001 EA CALTRANS 710208 ADJUST FRAME AND COVER TO GRADE	397.50	
50 89 87 71-0002 LF CALTRANS 710360 CLEANING, INSPECTING, AND PREPARING CULVERT (LF)	50.27	
For >250 To 500, Deduct	-2.24	
For >500 To 1,000, Deduct	-4.47	
For >1,000 To 2,000, Deduct	-6.71	
For >2,000 To 5,000, Deduct	-8.94	
For >5,000, Deduct	-11.18	
50 89 87 71-0003 CY CALTRANS 710368 CULVERT SLURRY-CEMENT BACKFILL	231.04	
50 89 87 71-0004 CY CALTRANS 710370 SAND BACKFILL	59.42	
For Up To 10, Add	16.10	
For >10 To 25, Add	5.94	
50 89 87 71-0005 LF CALTRANS 710372 8" CURED-IN-PLACE PIPELINER	61.11	
For >10 To 25, Add	51.46	
For >25 To 50, Add	33.13	
For >50 To 100, Add	16.56	
For >500 To 1,000, Deduct	-2.11	
For >1,000 To 2,000, Deduct	-3.81	
For >2,000 To 5,000, Deduct	-5.92	
For >5,000, Deduct	-9.33	
50 89 87 71-0006 LF CALTRANS 710374 10" CURED-IN-PLACE PIPELINER	85.14	
For >10 To 25, Add	60.64	
For >25 To 50, Add	39.77	
For >50 To 100, Add	19.88	
For >500 To 1,000, Deduct	-2.66	
For >1,000 To 2,000, Deduct	-4.89	
For >2,000 To 5,000, Deduct	-7.56	
For >5,000, Deduct	-12.01	
50 89 87 71-0007 LF CALTRANS 710376 12" CURED-IN-PLACE PIPELINER	100.96	
For >10 To 25, Add	68.64	
For >25 To 50, Add	45.27	
For >50 To 100, Add	22.63	
For >500 To 1,000, Deduct	-3.08	
For >1,000 To 2,000, Deduct	-5.68	
For >2,000 To 5,000, Deduct	-8.76	
For >5,000, Deduct	-13.95	
50 89 87 71-0008 LF CALTRANS 710378 15" CURED-IN-PLACE PIPELINER	157.71	
For >10 To 25, Add	88.64	
For >25 To 50, Add	59.97	
For >50 To 100, Add	29.99	
For >500 To 1,000, Deduct	-4.36	
For >1,000 To 2,000, Deduct	-8.17	
For >2,000 To 5,000, Deduct	-12.52	
For >5,000, Deduct	-20.15	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 71-0009 LF CALTRANS 710380 18" CURED-IN-PLACE PIPELINER.....	188.58	
For >10 To 25, Add	102.70	
For >25 To 50, Add	69.81	
For >50 To 100, Add	34.91	
For >500 To 1,000, Deduct	-5.13	
For >1,000 To 2,000, Deduct	-9.64	
For >2,000 To 5,000, Deduct	-14.77	
For >5,000, Deduct	-23.80	
50 89 87 71-0010 LF CALTRANS 710382 21" CURED-IN-PLACE PIPELINER.....	242.07	
For >10 To 25, Add	120.71	
For >25 To 50, Add	83.19	
For >50 To 100, Add	41.59	
For >500 To 1,000, Deduct	-6.31	
For >1,000 To 2,000, Deduct	-11.96	
For >2,000 To 5,000, Deduct	-18.27	
For >5,000, Deduct	-29.56	
50 89 87 71-0011 LF CALTRANS 710384 24" CURED-IN-PLACE PIPELINER.....	302.81	
For >10 To 25, Add	141.40	
For >25 To 50, Add	98.52	
For >50 To 100, Add	49.26	
For >500 To 1,000, Deduct	-7.66	
For >1,000 To 2,000, Deduct	-14.59	
For >2,000 To 5,000, Deduct	-22.26	
For >5,000, Deduct	-36.12	
50 89 87 71-0012 LF CALTRANS 710386 27" CURED-IN-PLACE PIPELINER.....	402.59	
For >10 To 25, Add	176.77	
For >25 To 50, Add	124.50	
For >50 To 100, Add	62.25	
For >500 To 1,000, Deduct	-9.91	
For >1,000 To 2,000, Deduct	-18.98	
For >2,000 To 5,000, Deduct	-28.89	
For >5,000, Deduct	-47.03	
50 89 87 71-0013 LF CALTRANS 710388 30" CURED-IN-PLACE PIPELINER.....	448.39	
For >10 To 25, Add	196.61	
For >25 To 50, Add	138.51	
For >50 To 100, Add	69.25	
For >500 To 1,000, Deduct	-11.03	
For >1,000 To 2,000, Deduct	-21.13	
For >2,000 To 5,000, Deduct	-32.16	
For >5,000, Deduct	-52.35	
50 89 87 71-0014 LF CALTRANS 710390 36" CURED-IN-PLACE PIPELINER.....	537.18	
For >10 To 25, Add	229.22	
For >25 To 50, Add	162.28	
For >50 To 100, Add	81.14	
For >500 To 1,000, Deduct	-13.06	
For >1,000 To 2,000, Deduct	-25.07	
For >2,000 To 5,000, Deduct	-38.14	
For >5,000, Deduct	-62.16	
50 89 87 71-0015 LF CALTRANS 710392 42" CURED-IN-PLACE PIPELINER.....	627.37	
For >10 To 25, Add	265.36	
For >25 To 50, Add	188.17	
For >50 To 100, Add	94.09	
For >500 To 1,000, Deduct	-15.20	
For >1,000 To 2,000, Deduct	-29.19	
For >2,000 To 5,000, Deduct	-44.39	
For >5,000, Deduct	-72.38	
50 89 87 71-0016 LF CALTRANS 710394 48" CURED-IN-PLACE PIPELINER.....	719.62	
For >10 To 25, Add	306.65	
For >25 To 50, Add	217.15	
For >50 To 100, Add	108.58	
For >500 To 1,000, Deduct	-17.49	
For >1,000 To 2,000, Deduct	-33.57	
For >2,000 To 5,000, Deduct	-51.06	
For >5,000, Deduct	-83.23	
50 89 87 71-0017 LF CALTRANS 710396 54" CURED-IN-PLACE PIPELINER.....	940.95	
For >10 To 25, Add	394.67	
For >25 To 50, Add	280.31	
For >50 To 100, Add	140.15	
For >500 To 1,000, Deduct	-22.72	
For >1,000 To 2,000, Deduct	-43.66	
For >2,000 To 5,000, Deduct	-66.38	
For >5,000, Deduct	-108.27	
50 89 87 71-0018 LF CALTRANS 710398 60" CURED-IN-PLACE PIPELINER.....	1,201.09	
For >10 To 25, Add	517.87	
For >25 To 50, Add	365.94	
For >50 To 100, Add	182.97	
For >500 To 1,000, Deduct	-29.34	
For >1,000 To 2,000, Deduct	-56.26	
For >2,000 To 5,000, Deduct	-85.60	
For >5,000, Deduct	-139.45	
50 89 87 71-0019 LF CALTRANS 710400 18" DEFORMED/RE-FORMED HDPE PIPELINER.....	154.30	
For >500 To 1,000, Deduct	-1.48	
For >1,000 To 2,000, Deduct	-2.97	
For >2,000, Deduct	-5.93	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 71-0020 LF CALTRANS 710402 21" DEFORMED/RE-FORMED HDPE PIPELINER.....	174.24	
<i>For >500 To 1,000, Deduct</i>	-1.61	
<i>For >1,000 To 2,000, Deduct</i>	-3.22	
<i>For >2,000, Deduct</i>	-6.43	
50 89 87 71-0021 LF CALTRANS 710404 24" DEFORMED/RE-FORMED HDPE PIPELINER.....	211.66	
<i>For >500 To 1,000, Deduct</i>	-1.75	
<i>For >1,000 To 2,000, Deduct</i>	-3.51	
<i>For >2,000, Deduct</i>	-7.01	
50 89 87 71-0022 LF CALTRANS 710434 12" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER).....	28.86	
50 89 87 71-0023 LF CALTRANS 710436 15" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER).....	43.39	
50 89 87 71-0024 LF CALTRANS 710438 18" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER).....	58.47	
50 89 87 71-0025 LF CALTRANS 710440 21" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER).....	72.58	
50 89 87 71-0026 LF CALTRANS 710442 24" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER).....	95.20	
50 89 87 71-0027 LF CALTRANS 710444 27" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER).....	114.28	
50 89 87 71-0028 LF CALTRANS 710446 30" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER).....	130.85	
50 89 87 71-0029 LF CALTRANS 710448 12" CEMENTITIOUS PIPELINER.....	68.45	
50 89 87 71-0030 LF CALTRANS 710450 15" CEMENTITIOUS PIPELINER.....	77.54	
50 89 87 71-0031 LF CALTRANS 710452 18" CEMENTITIOUS PIPELINER.....	82.95	
50 89 87 71-0032 LF CALTRANS 710454 21" CEMENTITIOUS PIPELINER.....	89.22	
50 89 87 71-0033 LF CALTRANS 710456 24" CEMENTITIOUS PIPELINER.....	95.36	
50 89 87 71-0034 LF CALTRANS 710458 27" CEMENTITIOUS PIPELINER.....	100.37	
50 89 87 71-0035 LF CALTRANS 710460 30" CEMENTITIOUS PIPELINER.....	105.24	
50 89 87 71-0036 LF CALTRANS 710462 36" CEMENTITIOUS PIPELINER.....	100.22	
50 89 87 71-0037 LF CALTRANS 710478 36" WELDED STEEL PIPELINER.....	669.67	
50 89 87 71-0038 LF CALTRANS 710480 42" WELDED STEEL PIPELINER.....	772.82	
50 89 87 71-0039 LF CALTRANS 710482 48" WELDED STEEL PIPELINER.....	878.77	
50 89 87 71-0040 LF CALTRANS 710484 54" WELDED STEEL PIPELINER.....	1,071.86	
50 89 87 71-0041 LF CALTRANS 710486 60" WELDED STEEL PIPELINER.....	1,159.87	
50 89 87 71-0042 LF CALTRANS 710488 66" WELDED STEEL PIPELINER.....	1,267.10	
50 89 87 71-0043 LF CALTRANS 710490 72" WELDED STEEL PIPELINER.....	1,512.26	
50 89 87 71-0044 LF CALTRANS 710491 78" WELDED STEEL PIPELINER.....	1,596.03	
50 89 87 71-0045 LF CALTRANS 710492 84" WELDED STEEL PIPELINER.....	1,690.00	
50 89 87 71-0046 LF CALTRANS 710494 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 42" X 29").....	273.46	
50 89 87 71-0047 LF CALTRANS 710496 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 49" X 33").....	339.94	
50 89 87 71-0048 LF CALTRANS 710498 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 57" X 38").....	420.27	
50 89 87 71-0049 LF CALTRANS 710500 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 64" X 43").....	504.11	
50 89 87 71-0050 LF CALTRANS 710522 83" X 57" WELDED STEEL PIPELINER (ARCH).....	1,692.13	
50 89 87 71-0051 LF CALTRANS 710524 HDPE PLASTIC PIPELINER (16" OD SDR 32.5).....	56.86	
50 89 87 71-0052 LF CALTRANS 710526 HDPE PLASTIC PIPELINER (18" OD SDR 32.5).....	71.46	
50 89 87 71-0053 LF CALTRANS 710528 HDPE PLASTIC PIPELINER (20" OD SDR 32.5).....	87.67	
50 89 87 71-0054 LF CALTRANS 710530 HDPE PLASTIC PIPELINER (22" OD SDR 32.5).....	101.12	
50 89 87 71-0055 LF CALTRANS 710532 HDPE PLASTIC PIPELINER (24" OD SDR 32.5).....	115.71	
50 89 87 71-0056 LF CALTRANS 710534 HDPE PLASTIC PIPELINER (26" OD SDR 32.5).....	132.06	
50 89 87 71-0057 LF CALTRANS 710536 HDPE PLASTIC PIPELINER (28" OD SDR 32.5).....	148.97	
50 89 87 71-0058 LF CALTRANS 710538 HDPE PLASTIC PIPELINER (30" OD SDR 32.5).....	172.52	
50 89 87 71-0059 LF CALTRANS 710540 HDPE PLASTIC PIPELINER (32" OD SDR 32.5).....	197.22	
50 89 87 71-0060 LF CALTRANS 710542 HDPE PLASTIC PIPELINER (34" OD SDR 32.5).....	217.98	
50 89 87 71-0061 LF CALTRANS 710544 HDPE PLASTIC PIPELINER (36" OD SDR 32.5).....	238.73	
50 89 87 71-0062 LF CALTRANS 710546 HDPE PLASTIC PIPELINER (39.5" OD SDR 32.5).....	272.86	
50 89 87 71-0063 LF CALTRANS 710548 HDPE PLASTIC PIPELINER (42" OD SDR 32.5).....	306.97	
50 89 87 71-0064 LF CALTRANS 710550 HDPE PLASTIC PIPELINER (48" OD SDR 32.5).....	394.82	
50 89 87 71-0065 LF CALTRANS 710552 HDPE PLASTIC PIPELINER (54" OD SDR 32.5).....	481.53	
50 89 87 71-0066 LF CALTRANS 710554 HDPE PLASTIC PIPELINER (55.3" OD SDR 32.5).....	508.50	
50 89 87 71-0067 LF CALTRANS 710556 HDPE PLASTIC PIPELINER (63.2" OD SDR 32.5).....	637.33	
50 89 87 71-0068 LF CALTRANS 710558 HDPE PLASTIC PIPELINER (16" OD SDR 26).....	67.79	
50 89 87 71-0069 LF CALTRANS 710660 HDPE PLASTIC PIPELINER (18" OD SDR 26).....	85.21	
50 89 87 71-0070 LF CALTRANS 710662 HDPE PLASTIC PIPELINER (20" OD SDR 26).....	104.83	
50 89 87 71-0071 LF CALTRANS 710664 HDPE PLASTIC PIPELINER (22" OD SDR 26).....	121.02	
50 89 87 71-0072 LF CALTRANS 710666 HDPE PLASTIC PIPELINER (24" OD SDR 26).....	138.62	
50 89 87 71-0073 LF CALTRANS 710668 HDPE PLASTIC PIPELINER (26" OD SDR 26).....	158.40	
50 89 87 71-0074 LF CALTRANS 710670 HDPE PLASTIC PIPELINER (28" OD SDR 26).....	178.89	
50 89 87 71-0075 LF CALTRANS 710672 HDPE PLASTIC PIPELINER (30" OD SDR 26).....	207.61	
50 89 87 71-0076 LF CALTRANS 710674 HDPE PLASTIC PIPELINER (32" OD SDR 26).....	237.74	
50 89 87 71-0077 LF CALTRANS 710766 HDPE PLASTIC PIPELINER (34" OD SDR 26).....	262.99	
50 89 87 71-0078 LF CALTRANS 710768 HDPE PLASTIC PIPELINER (36" OD SDR 26).....	288.25	
50 89 87 71-0079 LF CALTRANS 710770 HDPE PLASTIC PIPELINER (39.5" OD SDR 26).....	330.07	
50 89 87 71-0080 LF CALTRANS 710772 HDPE PLASTIC PIPELINER (42" OD SDR 26).....	371.89	
50 89 87 71-0081 LF CALTRANS 710774 HDPE PLASTIC PIPELINER (48" OD SDR 26).....	480.33	
50 89 87 71-0082 LF CALTRANS 710776 HDPE PLASTIC PIPELINER (54" OD SDR 26).....	587.36	
50 89 87 71-0083 LF CALTRANS 710778 HDPE PLASTIC PIPELINER (55.3" OD SDR 26).....	620.33	
50 89 87 71-0084 LF CALTRANS 710780 HDPE PLASTIC PIPELINER (63.2" OD SDR 26).....	779.11	
50 89 87 71-0085 LF CALTRANS 710882 HDPE PLASTIC PIPELINER (16" OD SDR 21).....	81.89	
50 89 87 71-0086 LF CALTRANS 710884 HDPE PLASTIC PIPELINER (18" OD SDR 21).....	102.97	
50 89 87 71-0087 LF CALTRANS 710886 HDPE PLASTIC PIPELINER (20" OD SDR 21).....	126.98	
50 89 87 71-0088 LF CALTRANS 710888 HDPE PLASTIC PIPELINER (22" OD SDR 21).....	146.71	
50 89 87 71-0089 LF CALTRANS 710890 HDPE PLASTIC PIPELINER (24" OD SDR 21).....	168.21	
50 89 87 71-0090 LF CALTRANS 710891 HDPE PLASTIC PIPELINER (26" OD SDR 21).....	192.43	
50 89 87 71-0091 LF CALTRANS 710892 HDPE PLASTIC PIPELINER (28" OD SDR 21).....	217.53	
50 89 87 71-0092 LF CALTRANS 710893 HDPE PLASTIC PIPELINER (30" OD SDR 21).....	252.92	
50 89 87 71-0093 LF CALTRANS 710894 HDPE PLASTIC PIPELINER (32" OD SDR 21).....	290.08	
50 89 87 71-0094 LF CALTRANS 710895 HDPE PLASTIC PIPELINER (34" OD SDR 21).....	321.14	
50 89 87 71-0095 LF CALTRANS 710896 HDPE PLASTIC PIPELINER (36" OD SDR 21).....	352.20	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 71-0096	LF		CALTRANS 710897 HDPE PLASTIC PIPELINER (39.5" OD SDR 21)	403.98	
50 89 87 71-0097	LF		CALTRANS 710898 HDPE PLASTIC PIPELINER (42" OD SDR 21)	455.74	
50 89 87 71-0098	LF		CALTRANS 710899 HDPE PLASTIC PIPELINER (48" OD SDR 21)	590.78	
50 89 87 71-0099	LF		CALTRANS 710900 HDPE PLASTIC PIPELINER (54" OD SDR 21)	724.07	
50 89 87 71-0100	LF		CALTRANS 710902 HDPE PLASTIC PIPELINER (55.3" OD SDR 21)	764.77	
50 89 87 71-0101	LF		CALTRANS 710904 HDPE PLASTIC PIPELINER (63.2" OD SDR 21)	962.23	
50 89 88 CALTRANS DIVISION VIII - MISCELLANEOUS CONSTRUCTION (50 89 80)					
50 89 88 73 CONCRETE CURBS AND SIDEWALKS (50 89 88)					
50 89 88 73-0001	LF		CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 6" x 18"	25.51	
			<i>For Up To 20, Add</i>	15.29	
			<i>For >20 To 50, Add</i>	8.67	
			<i>For >50 To 100, Add</i>	3.31	
			<i>For >500 To 1,000, Deduct</i>	-3.31	
			<i>For >1,000, Deduct</i>	-5.61	
50 89 88 73-0002	LF		CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 6" x 24"	29.32	
			<i>For Up To 20, Add</i>	17.07	
			<i>For >20 To 50, Add</i>	9.66	
			<i>For >50 To 100, Add</i>	3.71	
			<i>For >500 To 1,000, Deduct</i>	-3.71	
			<i>For >1,000, Deduct</i>	-6.30	
50 89 88 73-0003	LF		CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 18"	27.05	
			<i>For Up To 20, Add</i>	15.67	
			<i>For >20 To 50, Add</i>	8.86	
			<i>For >50 To 100, Add</i>	3.40	
			<i>For >500 To 1,000, Deduct</i>	-3.40	
			<i>For >1,000, Deduct</i>	-5.78	
50 89 88 73-0004	LF		CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 24"	31.42	
			<i>For Up To 20, Add</i>	17.49	
			<i>For >20 To 50, Add</i>	9.87	
			<i>For >50 To 100, Add</i>	3.81	
			<i>For >500 To 1,000, Deduct</i>	-3.81	
			<i>For >1,000, Deduct</i>	-6.51	
50 89 88 73-0005	LF		CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 36"	43.76	
			<i>For Up To 20, Add</i>	23.88	
			<i>For >20 To 50, Add</i>	13.45	
			<i>For >50 To 100, Add</i>	5.21	
			<i>For >500 To 1,000, Deduct</i>	-5.21	
			<i>For >1,000, Deduct</i>	-8.92	
50 89 88 73-0006	LF		CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 12" x 24"	38.41	
			<i>For Up To 20, Add</i>	20.29	
			<i>For >20 To 50, Add</i>	11.41	
			<i>For >50 To 100, Add</i>	4.44	
			<i>For >500 To 1,000, Deduct</i>	-4.44	
			<i>For >1,000, Deduct</i>	-7.62	
50 89 88 73-0007	LF		CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 12" x 36"	54.17	
			<i>For Up To 20, Add</i>	28.02	
			<i>For >20 To 50, Add</i>	15.73	
			<i>For >50 To 100, Add</i>	6.15	
			<i>For >500 To 1,000, Deduct</i>	-6.15	
			<i>For >1,000, Deduct</i>	-10.57	
50 89 88 73-0008	LF		CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 18"	34.06	
			<i>For Up To 20, Add</i>	23.11	
			<i>For >20 To 50, Add</i>	12.89	
			<i>For >50 To 100, Add</i>	5.11	
			<i>For >500 To 1,000, Deduct</i>	-4.38	
			<i>For >1,000, Deduct</i>	-7.42	
50 89 88 73-0009	LF		CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 24"	41.34	
			<i>For Up To 20, Add</i>	28.03	
			<i>For >20 To 50, Add</i>	15.63	
			<i>For >50 To 100, Add</i>	6.20	
			<i>For >500 To 1,000, Deduct</i>	-5.30	
			<i>For >1,000, Deduct</i>	-8.98	
50 89 88 73-0010	LF		CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 30"	54.00	
			<i>For Up To 20, Add</i>	36.64	
			<i>For >20 To 50, Add</i>	20.44	
			<i>For >50 To 100, Add</i>	8.10	
			<i>For >500 To 1,000, Deduct</i>	-6.94	
			<i>For >1,000, Deduct</i>	-11.76	
50 89 88 73-0011	LF		CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 36"	56.92	
			<i>For Up To 20, Add</i>	38.59	
			<i>For >20 To 50, Add</i>	21.52	
			<i>For >50 To 100, Add</i>	8.54	
			<i>For >500 To 1,000, Deduct</i>	-7.29	
			<i>For >1,000, Deduct</i>	-12.36	
50 89 88 73-0012	SF		CALTRANS 730070 DETECTABLE WARNING SURFACE	53.96	
50 89 88 73-0013	CY		CALTRANS 731502 MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	200.80	
			<i>For Up To 20, Add</i>	12.42	
			<i>For >20 To 50, Add</i>	4.66	
			<i>For >100 To 200, Deduct</i>	-4.02	
			<i>For >200 To 400, Deduct</i>	-8.03	
			<i>For >400, Deduct</i>	-12.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 88 73-0014 SF CALTRANS 731525 MINOR CONCRETE (SIDEWALK) (SF) 4"	9.28	
<i>For Up To 100, Add</i>	3.94	
<i>For >100 To 500, Add</i>	1.11	
<i>For >1,000 To 5,000, Deduct</i>	-0.65	
<i>For >5,000, Deduct</i>	-1.44	
50 89 88 73-0015 SF CALTRANS 731525 MINOR CONCRETE (SIDEWALK) (SF) 6"	10.92	
<i>For Up To 100, Add</i>	4.47	
<i>For >100 To 500, Add</i>	1.24	
<i>For >1,000 To 5,000, Deduct</i>	-0.70	
<i>For >5,000, Deduct</i>	-1.59	
50 89 88 73-0016 LF CALTRANS 731700 REMOVE CURB	11.54	
50 89 88 73-0017 LF CALTRANS 731710 REMOVE CONCRETE CURB (LF)	16.81	
<i>For Up To 20, Add</i>	11.77	
<i>For >20 To 50, Add</i>	6.72	
<i>For >50 To 100, Add</i>	2.52	
<i>For >500 To 1,000, Deduct</i>	-2.52	
<i>For >1,000, Deduct</i>	-4.20	
50 89 88 73-0018 SY CALTRANS 731780 REMOVE CONCRETE SIDEWALK (SQYD)	98.37	
<i>For Up To 100, Add</i>	40.28	
<i>For >100 To 500, Add</i>	11.19	
<i>For >1,000 To 5,000, Deduct</i>	-6.28	
<i>For >5,000, Deduct</i>	-14.33	
50 89 88 73-0019 LF CALTRANS 731840 REMOVE CONCRETE (CURB AND GUTTER)	27.98	
<i>For Up To 20, Add</i>	19.59	
<i>For >20 To 50, Add</i>	11.19	
<i>For >50 To 100, Add</i>	4.20	
<i>For >500 To 1,000, Deduct</i>	-4.20	
<i>For >1,000, Deduct</i>	-7.00	
50 89 88 78 INCIDENTAL CONSTRUCTION (50 89 88)		
50 89 88 78-0001 EA CALTRANS 780210 SURVEY MONUMENT (TYPE A)	558.69	
50 89 88 78-0002 EA CALTRANS 780250 ADJUST MONUMENT COVER TO GRADE	216.33	
50 89 88 78-0003 SF CALTRANS 780433 PAINT CURB (2-COAT)	5.25	
50 89 88 78-0004 SF CALTRANS 780460 ANTI-GRAFFITI COATING	1.66	
<i>For Up To 100, Add</i>	0.97	
<i>For >100 To 250, Add</i>	0.47	
<i>For >250 To 500, Add</i>	0.20	
50 89 88 78-0005 EA CALTRANS 780500 PARKING BUMPER (PRECAST CONCRETE)	55.45	19.87
50 89 88 80 FENCES (50 89 88)		
Note: Includes constructing fences and gates, excavation, concrete footing, posts, bracing, tension wire, hardware and grounding material per CALTRAN Standard.		
50 89 88 80-0001 LF CALTRANS 800004 FENCE (TYPE BW, 5-STRAND, WOOD POST)	12.30	
50 89 88 80-0002 LF CALTRANS 800006 FENCE (TYPE BW, 6-STRAND, WOOD POST)	13.03	
50 89 88 80-0003 LF CALTRANS 800007 FENCE (TYPE BW, 5-STRAND, METAL POST)	14.68	
50 89 88 80-0004 LF CALTRANS 800008 FENCE (TYPE BW, 4-STRAND, METAL POST)	13.62	
50 89 88 80-0005 LF CALTRANS 800010 FENCE (TYPE BW, 4-STRAND, WOOD POST)	11.58	
50 89 88 80-0006 LF CALTRANS 800016 FENCE (TYPE BW, 6-STRAND, METAL POST)	15.41	
50 89 88 80-0007 LF CALTRANS 800103 TEMPORARY FENCE (TEMPORARY FENCE (TYPE CL-6))	7.04	
50 89 88 80-0008 LF CALTRANS 800302 CHAIN LINK FENCE (TYPE CL-3, VINYL-CLAD)	41.62	
<i>For Up To 100, Add</i>	7.81	
<i>For >100 To 250, Add</i>	2.87	
<i>For >2,500 To 5,000, Deduct</i>	-1.43	
<i>For >5,000, Deduct</i>	-2.87	
50 89 88 80-0009 LF CALTRANS 800310 CHAIN LINK FENCE (TYPE CL-3.5)	40.31	
<i>For Up To 100, Add</i>	7.59	
<i>For >100 To 250, Add</i>	2.79	
<i>For >2,500 To 5,000, Deduct</i>	-1.39	
<i>For >5,000, Deduct</i>	-2.79	
50 89 88 80-0010 LF CALTRANS 800320 CHAIN LINK FENCE (TYPE CL-4)	41.68	
<i>For Up To 100, Add</i>	7.82	
<i>For >100 To 250, Add</i>	2.87	
<i>For >2,500 To 5,000, Deduct</i>	-1.43	
<i>For >5,000, Deduct</i>	-2.87	
50 89 88 80-0011 LF CALTRANS 800321 CHAIN LINK FENCE (TYPE CL-4, VINYL-CLAD)	43.27	
<i>For Up To 100, Add</i>	8.06	
<i>For >100 To 250, Add</i>	2.95	
<i>For >2,500 To 5,000, Deduct</i>	-1.47	
<i>For >5,000, Deduct</i>	-2.95	
50 89 88 80-0012 LF CALTRANS 800340 CHAIN LINK FENCE (TYPE CL-5)	44.90	
<i>For Up To 100, Add</i>	8.35	
<i>For >100 To 250, Add</i>	3.05	
<i>For >2,500 To 5,000, Deduct</i>	-1.53	
<i>For >5,000, Deduct</i>	-3.05	
50 89 88 80-0013 LF CALTRANS 800341 CHAIN LINK FENCE (TYPE CL-5, VINYL-CLAD)	46.91	
<i>For Up To 100, Add</i>	8.65	
<i>For >100 To 250, Add</i>	3.15	
<i>For >2,500 To 5,000, Deduct</i>	-1.58	
<i>For >5,000, Deduct</i>	-3.15	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 88 80-0014 LF CALTRANS 800360 CHAIN LINK FENCE (TYPE CL-6)	48.69	
For Up To 100, Add	9.03	
For >100 To 250, Add	3.30	
For >2,500 To 5,000, Deduct	-1.65	
For >5,000, Deduct	-3.30	
50 89 88 80-0015 LF CALTRANS 800361 CHAIN LINK FENCE (TYPE CL-6, VINYL-CLAD)	52.75	
For Up To 100, Add	9.63	
For >100 To 250, Add	3.50	
For >2,500 To 5,000, Deduct	-1.75	
For >5,000, Deduct	-3.50	
50 89 88 80-0016 LF CALTRANS 800363 CHAIN LINK FENCE (TYPE CL-6, EXTENSION ARM)	49.62	
For Up To 100, Add	9.17	
For >100 To 250, Add	3.34	
For >2,500 To 5,000, Deduct	-1.67	
For >5,000, Deduct	-3.34	
50 89 88 80-0017 LF CALTRANS 800365 CHAIN LINK FENCE (TYPE CL-6, SLATTED)	105.33	
For Up To 100, Add	17.95	
For >100 To 250, Add	6.34	
For >2,500 To 5,000, Deduct	-3.17	
For >5,000, Deduct	-6.34	
50 89 88 80-0018 LF CALTRANS 800400 CHAIN LINK FENCE (TYPE CL-8)	57.44	
For Up To 100, Add	10.52	
For >100 To 250, Add	3.82	
For >2,500 To 5,000, Deduct	-1.91	
For >5,000, Deduct	-3.82	
50 89 88 80-0019 EA CALTRANS 802100 4' CHAIN LINK GATE (TYPE CL-4)	434.72	
50 89 88 80-0020 EA CALTRANS 802110 5' CHAIN LINK GATE (TYPE CL-4)	515.04	
50 89 88 80-0021 EA CALTRANS 802120 6' CHAIN LINK GATE (TYPE CL-4)	605.60	
50 89 88 80-0022 EA CALTRANS 802180 12' CHAIN LINK GATE (TYPE CL-4)	1,473.32	
50 89 88 80-0023 EA CALTRANS 802340 8' CHAIN LINK GATE (TYPE CL-5)	919.67	
50 89 88 80-0024 EA CALTRANS 802400 14' CHAIN LINK GATE (TYPE CL-5)	2,087.38	
50 89 88 80-0025 EA CALTRANS 802420 16' CHAIN LINK GATE (TYPE CL-5)	2,412.78	
50 89 88 80-0026 EA CALTRANS 802440 18' CHAIN LINK GATE (TYPE CL-5)	2,696.90	
50 89 88 80-0027 EA CALTRANS 802500 3' CHAIN LINK GATE (TYPE CL-6)	442.46	
50 89 88 80-0028 EA CALTRANS 802501 4' CHAIN LINK GATE (TYPE CL-6)	562.63	
50 89 88 80-0029 EA CALTRANS 802502 4' CHAIN LINK GATE (TYPE CL-6, VINYL-CLAD)	276.68	
50 89 88 80-0030 EA CALTRANS 802503 4' CHAIN LINK GATE (TYPE CL-6, EXTENSION ARM)	571.70	
50 89 88 80-0031 EA CALTRANS 802504 4' CHAIN LINK GATE (TYPE CL-6, SLATTED)	597.52	
50 89 88 80-0032 EA CALTRANS 802510 5' CHAIN LINK GATE (TYPE CL-6)	659.47	
50 89 88 80-0033 EA CALTRANS 802520 6' CHAIN LINK GATE (TYPE CL-6)	765.48	
50 89 88 80-0034 EA CALTRANS 802540 8' CHAIN LINK GATE (TYPE CL-6)	982.37	
50 89 88 80-0035 EA CALTRANS 802543 8' CHAIN LINK GATE (TYPE CL-6, EXTENSION ARM)	992.51	
50 89 88 80-0036 EA CALTRANS 802550 9' CHAIN LINK GATE (TYPE CL-6)	1,089.08	
50 89 88 80-0037 EA CALTRANS 802560 10' CHAIN LINK GATE (TYPE CL-6)	1,619.11	
50 89 88 80-0038 EA CALTRANS 802580 12' CHAIN LINK GATE (TYPE CL-6)	1,921.81	
50 89 88 80-0039 EA CALTRANS 802601 14' CHAIN LINK GATE (TYPE CL-6)	2,285.66	
50 89 88 80-0040 EA CALTRANS 802620 16' CHAIN LINK GATE (TYPE CL-6)	2,593.76	
50 89 88 80-0041 EA CALTRANS 802640 18' CHAIN LINK GATE (TYPE CL-6)	2,910.49	
50 89 88 80-0042 EA CALTRANS 802660 20' CHAIN LINK GATE (TYPE CL-6)	3,231.40	
50 89 88 80-0043 EA CALTRANS 802670 24' CHAIN LINK GATE (TYPE CL-6)	3,883.32	
50 89 88 80-0044 EA CALTRANS 802840 18' CHAIN LINK GATE (TYPE CL-7)	3,071.18	
50 89 88 80-0045 LF CALTRANS 802900 CHAIN LINK FENCE (TYPE CL-8, EXTENSION ARM)	58.37	
For Up To 100, Add	10.66	
For >100 To 250, Add	3.87	
For >2,500 To 5,000, Deduct	-1.94	
For >5,000, Deduct	-3.87	
50 89 88 80-0046 EA CALTRANS 802901 4' CHAIN LINK GATE (TYPE CL-8)	695.44	
50 89 88 80-0047 EA CALTRANS 802902 4' CHAIN LINK GATE (TYPE CL-8, EXTENSION ARM)	704.51	
50 89 88 80-0048 EA CALTRANS 802920 6' CHAIN LINK GATE (TYPE CL-8)	931.81	
50 89 88 80-0049 EA CALTRANS 802941 8' CHAIN LINK GATE (TYPE CL-8, EXTENSION ARM)	1,201.61	
50 89 88 80-0050 EA CALTRANS 803010 14' CHAIN LINK GATE (TYPE CL-10, VINYL_CLAD)	1,553.64	
50 89 88 80-0051 LF CALTRANS 803050 REMOVE CHAIN LINK FENCE	5.81	
For Up To 100, Add	1.45	
For >100 To 250, Add	0.58	
For >2,500 To 5,000, Deduct	-0.29	
For >5,000, Deduct	-0.58	
50 89 88 80-0052 EA CALTRANS 803060 REMOVE GATE	275.72	
50 89 88 80-0053 EA CALTRANS 803160 RESET GATE	1,269.56	
50 89 88 80-0054 LF CALTRANS 803180 RELOCATE CHAIN LINK FENCE	27.91	

50 89 89 CALTRANS DIVISION IX - TRAFFIC CONTROL DEVICES (50 89 80)**50 89 89 81 MISCELLANEOUS TRAFFIC CONTROL DEVICES (50 89 89)**

50 89 89 81-0001 EA CALTRANS 810120 REMOVE PAVEMENT MARKER	2.41	
For >100, Deduct	-0.24	
50 89 89 81-0002 EA CALTRANS 810220 PAVEMENT MARKER (NON-REFLECTIVE)	5.16	2.41
For >100, Deduct	-0.52	
For >100, Deduct	-0.52	
50 89 89 81-0003 EA CALTRANS 810230 PAVEMENT MARKER (RETROREFLECTIVE)	5.89	2.41
For >100, Deduct	-0.59	
For >100, Deduct	-0.59	
50 89 89 81-0004 EA CALTRANS 810250 PAVEMENT MARKER (RETROREFLECTIVE-RECESSED)	69.72	29.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 89 82 SIGNS AND MARKERS <small>(50 89 89)</small>		
50 89 89 82-0001 EA CALTRANS 820110 MILEPOST MARKER	184.95	
50 89 89 82-0002 SF CALTRANS 820750 FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	16.18	33.72
50 89 89 82-0003 SF CALTRANS 820760 FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-UNFRAMED)	16.81	21.82
50 89 89 83 RAILINGS AND BARRIERS <small>(50 89 89)</small>		
50 89 89 83-0001 LF CALTRANS 832006 MIDWEST GUARDRAIL SYSTEM (STEEL POST)	44.96	9.53
50 89 89 83-0002 LF CALTRANS 832007 MIDWEST GUARDRAIL SYSTEM (WOOD POST)	93.96	15.57
50 89 89 83-0003 LF CALTRANS 839303 SINGLE THRIE BEAM BARRIER (STEEL POST)	71.05	2.62
50 89 89 83-0004 LF CALTRANS 839752 REMOVE GUARDRAIL	9.53	
50 89 89 84 MARKINGS <small>(50 89 89)</small>		
50 89 89 84-0001 LF CALTRANS 840505 6" THERMOPLASTIC TRAFFIC STRIPE	1.93	
<i>For Up To 5,000 LF, Add</i>	<i>0.39</i>	
<i>For >25,000 LF, Deduct</i>	<i>-0.29</i>	
50 89 89 84-0002 LF CALTRANS 840506 8" THERMOPLASTIC TRAFFIC STRIPE	2.55	
<i>For Up To 5,000 LF, Add</i>	<i>0.51</i>	
<i>For >25,000 LF, Deduct</i>	<i>-0.38</i>	
50 89 89 84-0003 LF CALTRANS 840507 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 8-4)	1.16	
<i>For Up To 5,000 LF, Add</i>	<i>0.23</i>	
<i>For >25,000 LF, Deduct</i>	<i>-0.17</i>	
50 89 89 84-0004 LF CALTRANS 840508 8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3).....	1.02	
<i>For Up To 5,000 LF, Add</i>	<i>0.20</i>	
<i>For >25,000 LF, Deduct</i>	<i>-0.15</i>	
50 89 89 84-0005 SF CALTRANS 840515 THERMOPLASTIC PAVEMENT MARKING	8.75	
50 89 89 84-0006 SF CALTRANS 840519 THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING	8.75	
50 89 89 84-0007 LF CALTRANS 840522 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 6-1)	0.68	
<i>For Up To 5,000 LF, Add</i>	<i>0.14</i>	
<i>For >25,000 LF, Deduct</i>	<i>-0.10</i>	
50 89 89 84-0008 LF CALTRANS 840528 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3).....	0.78	
<i>For Up To 5,000 LF, Add</i>	<i>0.16</i>	
<i>For >25,000 LF, Deduct</i>	<i>-0.12</i>	
50 89 89 84-0009 LF CALTRANS 840529 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12).....	0.91	
<i>For Up To 5,000 LF, Add</i>	<i>0.18</i>	
<i>For >25,000 LF, Deduct</i>	<i>-0.14</i>	
50 89 89 84-0010 LF CALTRANS 840530 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7).....	1.03	
<i>For Up To 5,000 LF, Add</i>	<i>0.21</i>	
<i>For >25,000 LF, Deduct</i>	<i>-0.15</i>	
50 89 89 84-0011 LF CALTRANS 840531 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 18-12).....	1.42	
<i>For Up To 5,000 LF, Add</i>	<i>0.28</i>	
<i>For >25,000 LF, Deduct</i>	<i>-0.21</i>	
50 89 89 84-0012 LF CALTRANS 840550 8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12).....	1.19	
<i>For Up To 5,000 LF, Add</i>	<i>0.24</i>	
<i>For >25,000 LF, Deduct</i>	<i>-0.18</i>	
50 89 89 84-0013 LF CALTRANS 840583 6" TWO-COMPONENT PAINT TRAFFIC STRIPE	0.74	
<i>For Up To 5,000 LF, Add</i>	<i>0.15</i>	
<i>For >25,000 LF, Deduct</i>	<i>-0.11</i>	
50 89 89 84-0014 LF CALTRANS 840584 8" TWO-COMPONENT PAINT TRAFFIC STRIPE	0.90	
<i>For Up To 5,000 LF, Add</i>	<i>0.18</i>	
<i>For >25,000 LF, Deduct</i>	<i>-0.14</i>	
50 89 89 84-0015 LF CALTRANS 840610 8" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 12-3).....	0.52	
<i>For Up To 5,000 LF, Add</i>	<i>0.10</i>	
<i>For >25,000 LF, Deduct</i>	<i>-0.08</i>	
50 89 89 84-0016 LF CALTRANS 840612 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 6-1).....	0.47	
<i>For Up To 5,000 LF, Add</i>	<i>0.09</i>	
<i>For >25,000 LF, Deduct</i>	<i>-0.07</i>	
50 89 89 84-0017 LF CALTRANS 840614 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 12-3).....	0.51	
<i>For Up To 5,000 LF, Add</i>	<i>0.10</i>	
<i>For >25,000 LF, Deduct</i>	<i>-0.08</i>	
50 89 89 84-0018 LF CALTRANS 840616 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 36-12).....	0.41	
<i>For Up To 5,000 LF, Add</i>	<i>0.08</i>	
<i>For >25,000 LF, Deduct</i>	<i>-0.06</i>	
50 89 89 84-0019 LF CALTRANS 840618 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 17-7).....	0.51	
<i>For Up To 5,000 LF, Add</i>	<i>0.10</i>	
<i>For >25,000 LF, Deduct</i>	<i>-0.08</i>	
50 89 89 84-0020 LF CALTRANS 840620 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 18-12).....	0.58	
<i>For Up To 5,000 LF, Add</i>	<i>0.12</i>	
<i>For >25,000 LF, Deduct</i>	<i>-0.09</i>	
50 89 89 84-0021 LF CALTRANS 840622 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 8-4).....	0.51	
<i>For Up To 5,000 LF, Add</i>	<i>0.10</i>	
<i>For >25,000 LF, Deduct</i>	<i>-0.08</i>	
50 89 89 84-0022 LF CALTRANS 840624 8" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 36-12).....	0.64	
<i>For Up To 5,000 LF, Add</i>	<i>0.13</i>	
<i>For >25,000 LF, Deduct</i>	<i>-0.10</i>	
50 89 89 84-0023 SF CALTRANS 840637 TWO-COMPONENT PAINT PAVEMENT MARKING	7.24	
50 89 89 84-0024 SF CALTRANS 840651 PAINTED STALL LINES AND PAVEMENT MARKINGS.....	5.90	
50 89 89 84-0025 LF CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 4" Wide	0.32	
<i>For Up To 5,000 LF, Add</i>	<i>0.06</i>	
<i>For >25,000 LF, Deduct</i>	<i>-0.05</i>	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 89 84-0026	LF		CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 6" Wide	0.41	
			<i>For Up To 5,000 LF, Add</i>	0.08	
			<i>For >25,000 LF, Deduct</i>	-0.06	
50 89 89 84-0027	LF		CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 8" Wide	0.52	
			<i>For Up To 5,000 LF, Add</i>	0.10	
			<i>For >25,000 LF, Deduct</i>	-0.08	
50 89 89 84-0028	LF		CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 4" Wide	0.63	
			<i>For Up To 5,000 LF, Add</i>	0.13	
			<i>For >25,000 LF, Deduct</i>	-0.09	
50 89 89 84-0029	LF		CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 6" Wide	0.80	
			<i>For Up To 5,000 LF, Add</i>	0.16	
			<i>For >25,000 LF, Deduct</i>	-0.12	
50 89 89 84-0030	LF		CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 8" Wide	1.04	
			<i>For Up To 5,000 LF, Add</i>	0.21	
			<i>For >25,000 LF, Deduct</i>	-0.16	
50 89 89 84-0031	SF		CALTRANS 840665 PAINT PAVEMENT MARKING (1-COAT)	5.92	
50 89 89 84-0032	SF		CALTRANS 840666 PAINT PAVEMENT MARKING (2-COAT)	9.00	
50 89 89 84-0033	LF		CALTRANS 846020 REMOVE PAINTED TRAFFIC STRIPE	1.97	
			<i>For Up To 250, Add</i>	0.99	
			<i>For >250 To 1,000, Add</i>	0.49	
			<i>For >5,000 To 10,000, Deduct</i>	-0.30	
			<i>For >10,000 To 25,000, Deduct</i>	-0.49	
			<i>For >25,000 To 50,000, Deduct</i>	-0.69	
			<i>For >50,000, Deduct</i>	-0.79	
50 89 89 84-0034	SF		CALTRANS 846025 REMOVE PAINTED PAVEMENT MARKING	3.40	
			<i>For Up To 250, Add</i>	1.70	
			<i>For >250 To 1,000, Add</i>	0.85	
			<i>For >5,000 To 10,000, Deduct</i>	-0.51	
			<i>For >10,000 To 25,000, Deduct</i>	-0.85	
			<i>For >25,000 To 50,000, Deduct</i>	-1.19	
			<i>For >50,000, Deduct</i>	-1.36	
50 89 89 84-0035	LF		CALTRANS 846030 REMOVE THERMOPLASTIC TRAFFIC STRIPE	3.00	
			<i>For Up To 250, Add</i>	1.50	
			<i>For >250 To 1,000, Add</i>	0.75	
			<i>For >5,000 To 10,000, Deduct</i>	-0.45	
			<i>For >10,000 To 25,000, Deduct</i>	-0.75	
			<i>For >25,000 To 50,000, Deduct</i>	-1.05	
			<i>For >50,000, Deduct</i>	-1.20	
50 89 89 84-0036	SF		CALTRANS 846035 REMOVE THERMOPLASTIC PAVEMENT MARKING	4.34	
			<i>For Up To 250, Add</i>	2.17	
			<i>For >250 To 1,000, Add</i>	1.09	
			<i>For >5,000 To 10,000, Deduct</i>	-0.65	
			<i>For >10,000 To 25,000, Deduct</i>	-1.09	
			<i>For >25,000 To 50,000, Deduct</i>	-1.52	
			<i>For >50,000, Deduct</i>	-1.74	

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